



ROSNEFT



CREATING **THE FUTURE** TOGETHER

SUSTAINABILITY REPORT 2019



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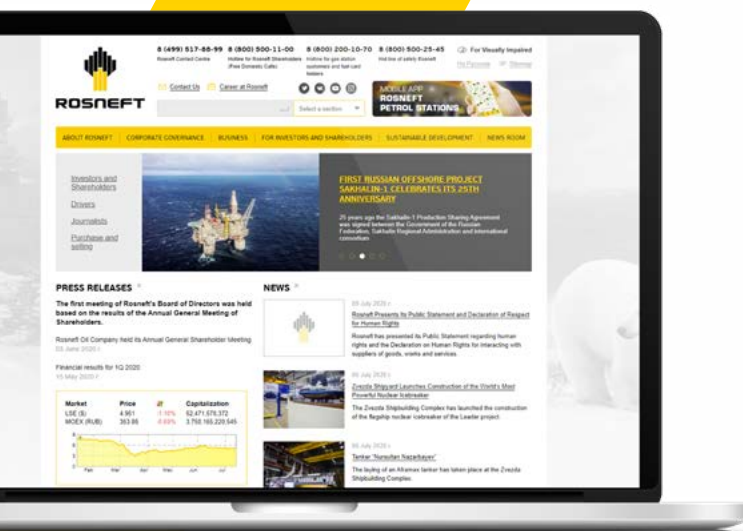
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www.rosneft.ru



Message from the Chairman of Rosneft's Board of Directors

As part of this low-carbon agenda, Rosneft is also boosting natural gas output and marketing new, more eco-friendly products.

Gerhard Schroeder

Chairman of Rosneft's Board of Directors



2019 was another year when Rosneft made significant strides towards the achievement of the Company's core strategic goals, including-increased profitability, completion of key projects, and transformation of its organizational and technological capability. In addition, a number of projects aimed at employee development, expanding contribution to the social welfare of local communities, and minimising our environmental footprint, are in progress.

Last year Rosneft maintained its status as one of the world's leading public oil and hydrocarbon liquids producers with total production reaching 285.3 mmtoe. The Company is also one of the largest international oil and gas companies when ranked by proven SEC hydrocarbons liquids reserves, which currently stand at 42 bboe, with a replacement ratio of 129% in 2019.

As we continue to explore and develop new oil and gas fields, last year was very successful one for Rosneft with 258 new discoveries in established fields and 23 new greenfield discoveries, bringing total hydrocarbon reserves to 352 mmtoe.

In 2019, the Company joined other international oil and gas industry leaders and other global stakeholders as a member of the Methane Guiding Principles initiative that aims to reduce methane emissions along the natural gas value chain. The Company also

established a cross-functional Carbon Management Subcommittee to lead efforts to reduce the Company's carbon footprint through an approved Carbon Management Framework. In line with our development strategy, we seek to become one of the industry's leading companies, ranking competitively among leading global peers in terms of per unit GHG emissions performance. We have already seen tangible results from this focus, and last year we reduced known vented methane emissions by more than 70%.

As part of this low-carbon agenda, Rosneft is also boosting natural gas output and marketing new, more eco-friendly products. The Company is also actively introducing its own innovative technologies for emissions reduction. One example is progress linked with associated petroleum gas (APG) utilisation both through reservoir injection as well as for electricity generation. Over the past five years, we have invested over RUB 125 bln in this area with the average APG utilisation rate reaching 93.8% at our mature assets. This project will help the Company avoid the release of 8 million tonnes (mmt) of GHG emissions by 2022.

Investing in human resources plays a leading role in our development strategy. In 2019, Rosneft was recognised as the best performing Russian company in the CHRB (Corporate Human Rights Benchmark) international human rights index.

Our rating rose by 11 percentage points to 32.7%, one of the highest growth rates in the extractive industries globally.

Rosneft, as an oil and gas industry leader, reaffirms its commitment to the 17 UN Sustainable Development Goals and the core principles of the UN Global Compact since they both will play a fundamental role in overcoming serious global sustainability challenges by respecting human rights; combatting corruption; decreasing the rate of climate change and minimising climate and environmental impacts. The Company therefore aligns its activities in support of these goals and ensures that its future growth will be built on sustainability principles and in line with stakeholder expectations.

Gerhard Schroeder

Chairman of Rosneft's Board of Directors



Message from the Chief Executive Officer



Our strategic goal is to become one of the world's leading oil and gas producers when ranked by key environmental and industrial safety metrics.

Igor Sechin

Chairman
of the Management Board
Chief Executive Officer

In 2019, Rosneft reaffirmed its commitment to the UN Sustainable Development Goals and made impressive progress in driving forward its environmental agenda. Last year, through our persistent efforts in carbon management, we consolidated our position as an industry leader with low unit carbon dioxide emissions.

In addition, Rosneft joined the Guiding Principles on Reducing Methane Emissions across the Natural Gas Value Chain, making another step towards minimising anthropogenic impact on the environment.

Last year, according to the CDP's international climate change and water security ratings, Rosneft was recognised as Russia's best performing oil and gas company. In December 2019, the Company became a constituent of the FTSE4Good Emerging Markets Index thanks to its strong performance in key environmental, social and governance indicators.

Furthermore, Rosneft outperformed most of its global competitors in terms of disclosure transparency according to Bloomberg and Refinitiv.

Our strategic goal is to become one of the world's leading oil and gas producers when ranked by key environmental and industrial safety metrics. The Company's consistent contributing to joint international efforts will certainly facilitate this goal.

The reporting year saw us achieve considerable financial success. Net income attributable to shareholders increased by 29% during the year.

On top of that, Rosneft paid a record dividend for 2019. These dividends, including the interim payout for the first half of the year, will total RUB 354.1 bln, or 50% of IFRS net income attributable to shareholders.

Our strong financial performance enabled us to increase the final dividend payout much sooner than expected. Dividend yield based on the year's average share price was 8%. The Company remains the nation's largest taxpayer. As at the year-end, Rosneft paid around RUB 3.6 trln of taxes on its domestic operations.

In the reporting year, the Company confirmed its status as one of Russia's leading employers. Rosneft provides a competitive salary, social guarantees and offers opportunities for career growth and personal fulfilment. At present, the Company's headcount exceeds 330 thousand people.

As Russia's leading oil producer, Rosneft seeks to create a safe working environment for its employees and contractors by eliminating accidents in the production process and minimising injuries via implementing international best practice in relation to health, safety, and environment.

As we pursue the Rosneft-2022 Strategy, our management team will continue to streamline financial and operational efficiency, taking further action to advance the sustainable development of the Company and secure our position as an industry leader for years to come.

Igor Sechin

Chairman
of the Management Board
Chief Executive Officer



Strategically Important UN Sustainable Development Goals

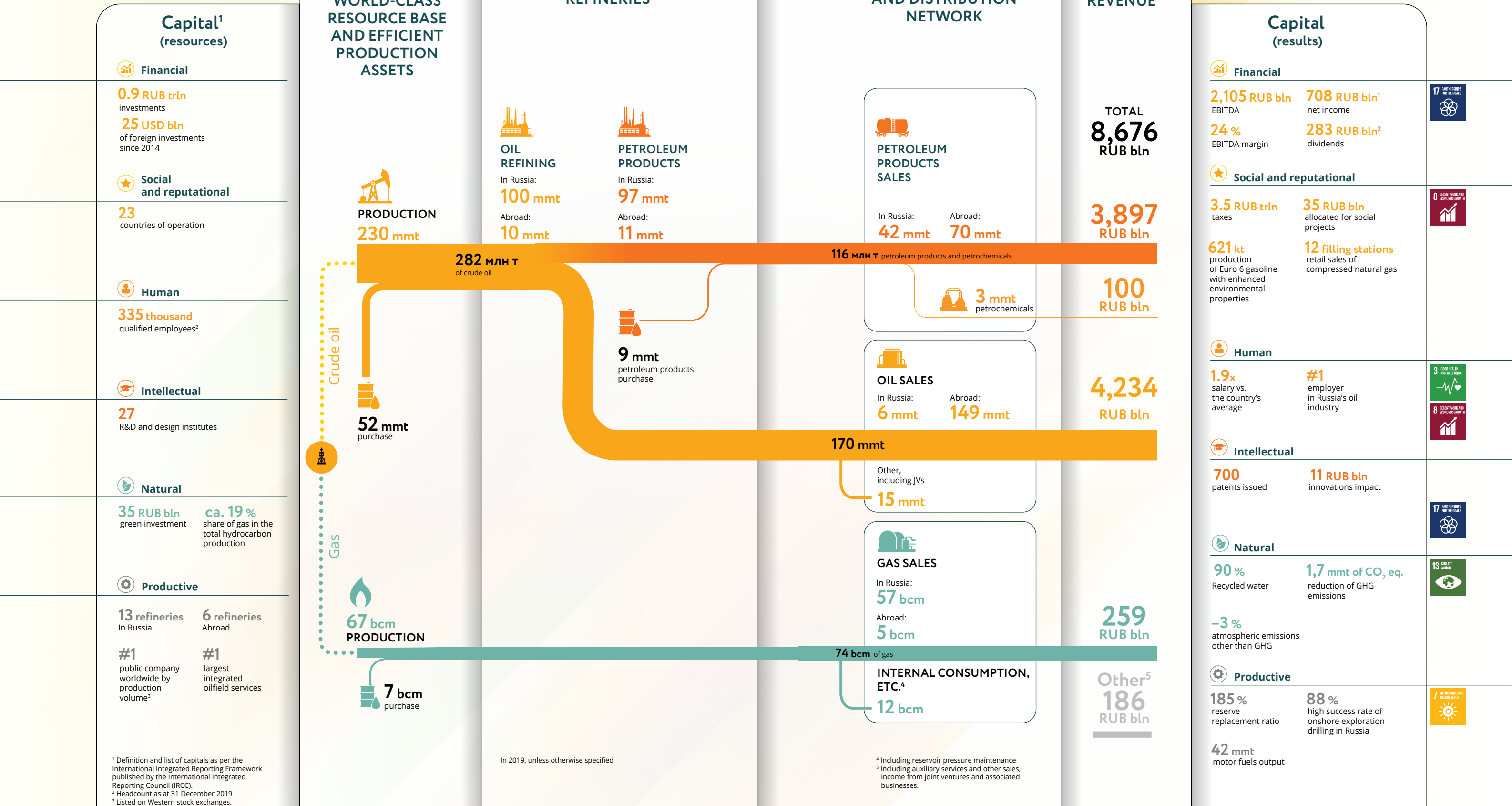
SOME HIGH-PRIORITY SUSTAINABILITY PERFORMANCE INDICATORS ARE PART OF MANAGEMENT KPIS

3 GOOD HEALTH AND WELL-BEING	Good health and well-being	Rosneft is committed to leadership in occupational safety, zero tolerance of accidents in operations, protecting health of local people living in the regions where the Company operates, and minimising environmental footprint.	The Company places a special focus on occupational safety and comfortable working environment for its employees and contractors	35 billion roubles Green investment in 2019	>93 thousand employees had training in occupational health and safety in 2019	 A transport safety mobile app launched (for details, see p. 103)	 Live Longer! programme promoting healthy living, gathers more participants (for details, see p. 159)
7 AFFORDABLE AND CLEAN ENERGY	Affordable and clean energy	Rosneft seeks to improve energy efficiency across all business lines and spotlights leadership in innovation as a major development factor.	Rosneft recognises its role and responsibility for timely and reliable energy supplies to consumers (including to emerging markets) on equal terms and at competitive prices	14% energy efficiency improvement in recent two years	26 mln GJ of fuel and energy saved	 Group Subsidiaries receive energy certification (for details, see p. 122)	 Employees undergo energy efficiency training (for details, see p. 121)
8 DECENT WORK AND ECONOMIC GROWTH	Decent work and economic growth	Rosneft contributes to the sustainable growth of the economy and its modernisation as well as creating new production facilities and highly efficient jobs, and making high value-added products by moving to long-term contracts with consumers, suppliers	and contractors, and to the anchor order system On top of that, the Company is committed to providing socially security to its employees and their families, preserving jobs, and protecting human rights.	74% of the headcount covered by collective bargaining agreements	1.9 times the average monthly salary in the Company exceeds the Russian average	 Rosneft creates new digital services for customers (for details see p. 186)	 The Company and the Group Subsidiaries initiated more than 102 thousand procurement procedures with a total initial (maximum) value of over RUB 2.1 trln (for details, see p. 191)
				2.6 trillion roubles spent on goods, works and services procured from third parties		 Specialised class programmes supported by Rosneft Group Subsidiaries were launched (for details see p. 153)	
13 CLIMATE ACTION	Climate Action	In the medium term, the Company's strategic targets factor in the public's growing needs and environmental concerns and include: - ramping up production of natural gas as a lower-carbon energy source; - running refinery development projects to boost the output of products in high demand and feedstock for the petrochemical industry;	- mitigating environmental impact and improving efficiency of production facilities; - creating, launching and rolling out new products contributing to lower emissions and higher fuel efficiency	1.7 mmt of CO₂ eq. reduction in greenhouse gas emissions in 2019	73% reduction of fugitive methane emissions in Exploration and Production	 In 2019, the Company joined the initiative to reduce methane emissions (for details, see p. 53)	 The Company's project to minimise associated petroleum gas flaring received an environmental award (for details, see p. 59)
17 PARTNERSHIPS FOR THE GOALS	Partnership for the goals	Rosneft recognises the importance of the global energy sector's sustainability and responsible business practices of the industry majors	The Company shares the principles of Russian and international declarations, statements and initiatives in the field of fundamental human rights, elimination of inequality, and environmental protection	Rosneft best Russian company in the CHRB (Corporate Human Rights Benchmark) international human rights index	16 round-table discussions held in the regions of operation to address the sustainability agenda	 Rosneft and its foreign peers held a carbon management workshop (for details, see p. 49)	 In the key regions of operation, the Company held round table discussions with stakeholders (for details, see p. 231)



Business Model

and Strategically Important UN Sustainable Development Goals





Reporting Boundaries [GRI 102-45](#) [GRI 102-48](#) [GRI 102-49](#)

Rosneft's Sustainability Report is prepared on the corporate level and includes consolidated information about the Group Subsidiaries. It covers subsidiaries that are consolidated under the IFRS fully or proportionally to the stake, unless the notes indicate otherwise.

Occupational health and safety, and environmental protection (HSE), along with HR indicators of the Group Subsidiaries that should be consolidated proportionately under the IFRS, are accounted for in this Report in full.

Definitions

In this Report, the terms Rosneft and the Company refer to Rosneft PJSC, including its Head Office, and Group Subsidiaries.

The term Group Subsidiaries refers to Rosneft's subsidiaries and affiliates.

Disclaimer: Forward-Looking Statements

The Report contains forward-looking statements regarding the Company's future sustainability performance. Plans and intentions depend on the changing political, economic, social and regulatory environment in Russia and globally, which means that the actual results presented in subsequent reports may deviate from the projections.

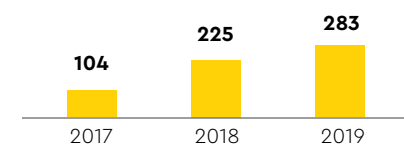


Key Sustainability Indicators

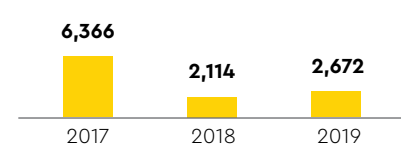


ECONOMIC PERFORMANCE

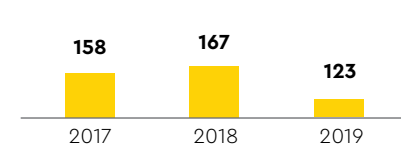
Dividends¹, RUB bln



Total procurement, RUB bln

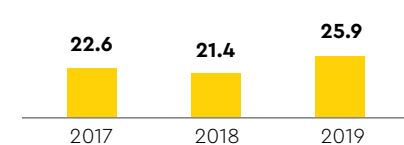


Procurement from SMEs, RUB bln
(contractual volume)

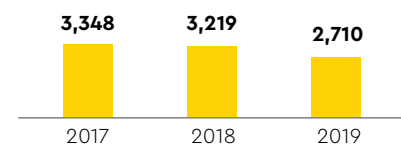


ENVIRONMENTAL PERFORMANCE

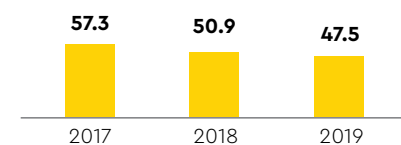
Actual fuel and energy savings,
mln GJ



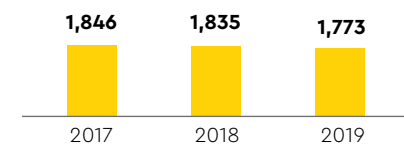
Contaminated land at the end
of the year, ha



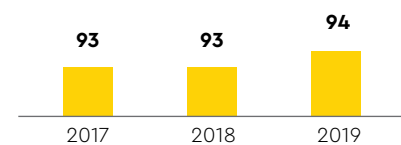
Disposal of contaminated
wastewater², mmcm



Non-GHG emissions into
atmosphere, kt

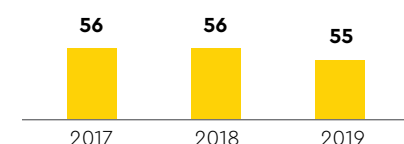


Share of water recycled
and re-used, %

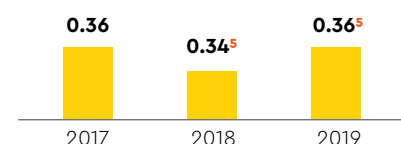


OCCUPATIONAL HEALTH AND SAFETY

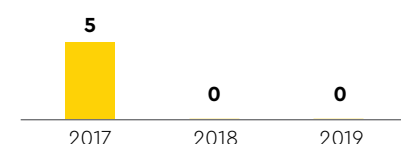
Expenditure on health and safety,
including fire safety and blowout
prevention, RUB bln³



Share of work-related injuries⁴



Controlled and uncontrolled
flows of gas, oil and water⁶ during
the construction of exploration
and production wells, number
of cases



¹ Dividends paid to Rosneft's shareholders in the calendar year.

² Disposal through the Company's centralised discharge systems

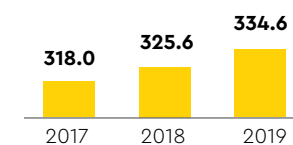
³ The costs are driven by different dates of launching and completing HSE projects as well as set periods for current expenses.

⁴ Including fatalities and lost-time injuries of the Company's employees in relation to 1 mln man-hours (LTIF)

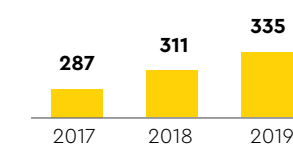


PERSONNEL

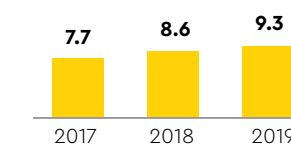
Headcount at year-end,
thousand employees



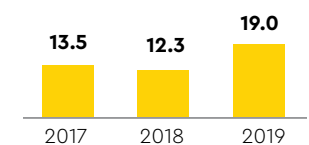
Payroll⁷, RUB bln



Social payments fund,
RUB bln

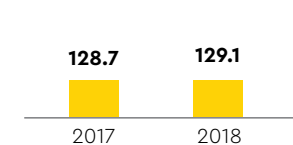


Training hours, mln
man-hours

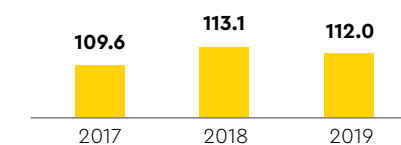


CUSTOMER RELATIONS

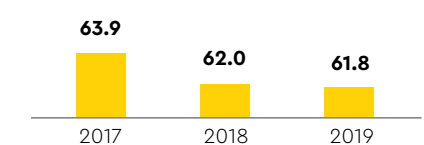
Oil sales, mmt



Sales of petroleum products, mmt



Gas sales, bcm



Direct economic value generated and distributed⁸, RUB bln **GRI 201-1**

Metric	2017	2018	2019
Direct economic value generated (income)	5,951	7,968	8,670
Direct economic value distributed, including:	5,279	7,059	7,502
Opex	1,967	2,270	2,917
Payments to providers of funds	346	521	585
Personnel expenses, excluding compulsory insurance premiums	269	296	327
Insurance premiums	61	67	75
Accrued taxes and duties	2,614	3,879	3,576
Community investments	22	26	22
Economic value retained	672	909	1,168

⁵ The figures for 2018–2019 are presented in accordance with the IFRS accounts and the new calculation methodology, which does not include injuries as a result of participation in sports events, unlawful activities of third parties and road accidents caused by third parties in the total injury rate.

The indicators for 2017 cover a wider range of subsidiaries. The injury rate includes injuries as a result of participation in sports events, unlawful activities of third parties and road accidents caused by third parties. LTIF for 2018 and 2019 calculated in accordance with the methodology used by the Company until 2018 would be LTIF – 0.41 and 0.38, respectively.

⁶ Including benefits and one-off bonuses as part of the payroll and annual remuneration.

⁷ Data for 2017–2019 reflects more accurate calculation of payments to providers of funds, personnel expenses, and community investments under GRI 201-1.



#1

SUSTAINABLE DEVELOPMENT



"The Company is committed to supplying the world economy with energy resources to ensure balanced social and economic development and improve the quality of life. As one of the world's largest hydrocarbon producers, we realise our responsibility for solving global problems, including climate change.

Rosneft's initiatives in sustainable development and environmental protection are aimed at reducing the Company's environmental footprint and promoting energy-saving technologies.

The Company has repeatedly scored high in major international ratings, which testifies to our effective performance in these areas."

Igor Sechin

Chief Executive Officer, Chairman of the Management Board, Deputy Chairman of the Board of Directors

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Strategic Vision of Sustainable Development

Rosneft–2022 Strategy

Approved in December 2017, the Rosneft–2022 Strategy ifocuses on increasing the Company's profitability and returns on existing assets, implementation of major projects, as well as organisational and technological transformation. These priorities should go hand in hand with ensuring global leadership in accident-free operations, safe workplace conditions, protecting health of local residents in the regions where the Company operates, and minimising the environmental footprint. **GRI 103-1**

Rosneft's Strategy and its major tenets are in line with the principles of sustainable development, efforts to create a favourable social and environmental conditions, and objectives under Russia's national projects, including Presidential Executive Order No. 204 On National Goals and Strategic Objectives of the Russian Federation through to 2024 dated 7 May 2018. In 2018, the Strategy was expanded to include initiatives in social, human resource and urban infrastructure development, regional growth and environmental protection.

As part of its commitment to the sustainable development of natural resources, the Company is implementing large-scale projects in oil and gas production and expanding production and refining capacities to reduce environmental impact by producing modern, environmentally friendly fuels.

The Rosneft–2022 Strategy sets equally high standards in sustainable production, social responsibility and HSE across all of the Company's business segments.

In 2019, Rosneft continued its efforts to integrate sustainable development principles into the Company's strategy and programmes. We also contributed to the UN sustainable development goals by implementing them as part of our core business and supporting various projects aimed at improving the quality of life across our footprint and promoting health care, science, education, culture, and environmental protection.

The Company has approved its strategic guidelines and **public statement "Rosneft: contributing to implementation of the UN Sustainable Development Goals"** which is available on the Company's official website. The statement complements the Company Policy on Sustainable Development and complies with the principles of openness, transparency and information disclosure to shareholders, investors and other stakeholders. **GRI 102-16**

STRATEGIC INITIATIVES BASED ON NATIONAL PRIORITIES:



ROSNEFT – CITY OF THE FUTURE

- New services at filling stations with the offering of non-fuel goods and services considerably expanded, including digital and green services
- Widespread use of energy-efficient solutions and renewables at the Company's facilities



EMPLOYEE DEVELOPMENT

- Leader of the Future programme
- Cooperation in education (from school to university) and expansion of mentoring programmes
- Long-term incentives to boost productivity



SOCIAL DEVELOPMENT

- Modern Medicine Programme: healthcare facilities at production sites, telemedicine, and a brand new programme for preventive medical examination
- Active Longevity Programme: support for pensioners, healthcare services for retired employees in excess of compulsory medical insurance



DIGITAL ROSNEFT

- Enhancing and facilitating a transparent interaction between the Company and external counterparties.
- Creating a digital cluster

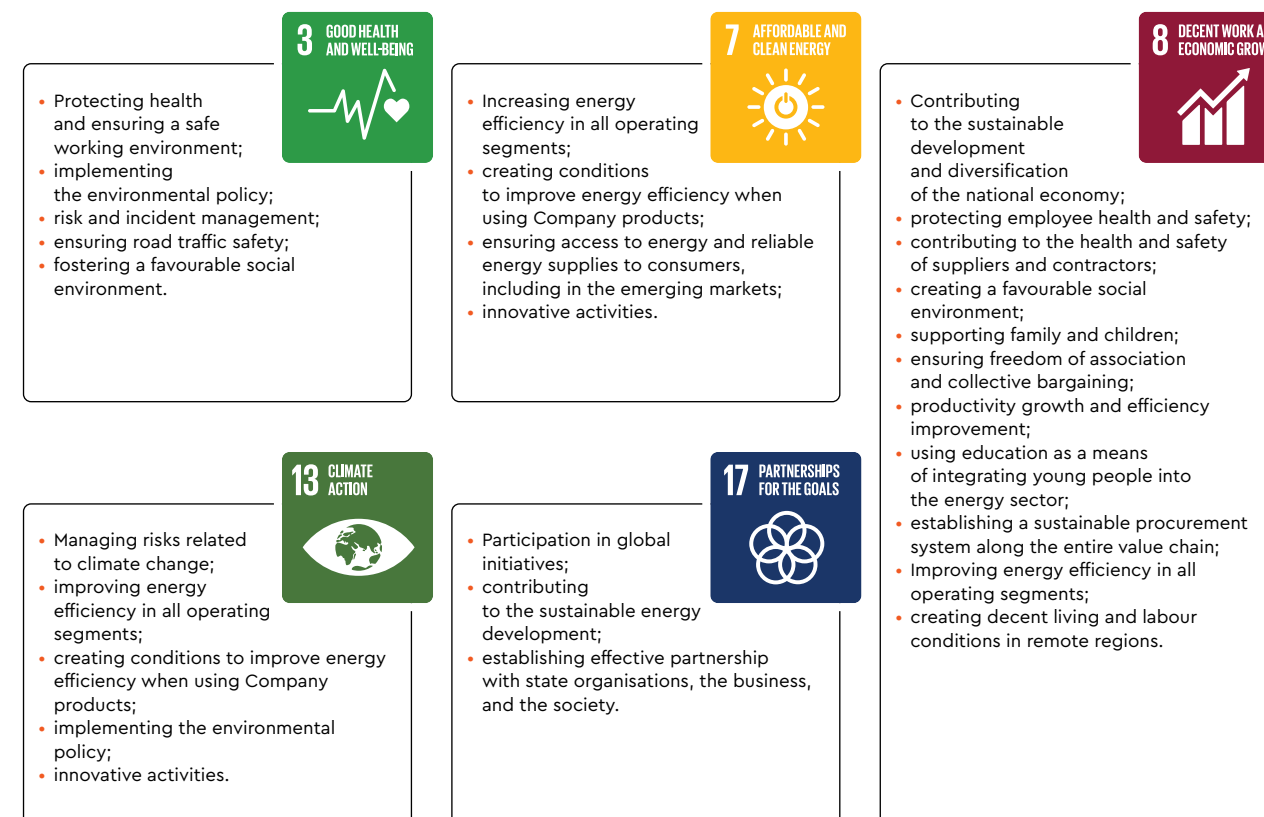




Contribution to UN Sustainable Development Goals¹

The Rosneft-2022 Strategy and the Company's climate change initiatives are in line with the UN Sustainable Development Goals. The Company's mission, values, goals, and strategic priorities are consistent with the 17 United Nations Sustainable Development Goals. Five of these goals have been adopted as strategic priorities of Rosneft.

STRATEGICALLY IMPORTANT UN SUSTAINABLE DEVELOPMENT GOALS



GOALS INTEGRATED INTO CURRENT ACTIVITIES



For details, see our public statement "Rosneft: contributing to implementation of the UN Sustainable Development Goals"



¹ UN Sustainable Development Goals (adopted by the resolution of the UN General Assembly on 25 September 2015) seek to achieve a meaningful progress in addressing global economic, social and environmental challenges.



Support for Sustainability Initiatives

In 2010, Rosneft joined the UN Global Compact, the most far-reaching international social responsibility initiative bringing together more than 13,000 companies from over 160 countries.



The Global Compact encourages its participants to support the UN Sustainable Development Goals as a way to improve the well-being of the present and future generations.

The Company adheres to ten Global Compact principles in the areas of human rights, labour, environment and anti-corruption, all of which are integrated into the Rosneft-2022 Strategy and given consideration on both strategic and operating levels.



IN JUNE 2019, ROSNEFT JOINED THE INITIATIVE TO REDUCE METHANE EMISSIONS LAUNCHED BY LEADING INTERNATIONAL OIL AND GAS COMPANIES.



For more details on the Company's participation in the methane reduction initiative, see the Contribution to International Initiatives section of this Report.



ESG Investing

The development of ESG¹ investing is supported by Igor Sechin, CEO, who has repeatedly proclaimed social and environmental responsibility as a key value of the Company. The Company works to foster its investor relations, takes part in various rankings and discloses ESG performance in line with the current guidance on responsible investment and recommendations of LSEG², TCFD³ under the G20's Financial Stability Board, CDP⁴ and others.

In 2019, we cooperated with 16 ESG rating agencies and maintained regular communication with investors participating in Climate Action 100+. The Company held nearly 50 negotiations with investors on ESG matters.

In June 2019, Rosneft became the first Russian company to take part in an ESG workshop in Copenhagen attended by the representatives of 31 investment funds, and ESG score providers – Sustainalytics and ISS-Ethix.

Recognition in Sustainable Development

In 2019, Rosneft's leadership in sustainable development received international recognition. The Company was included in the FTSE4Good Emerging Index of companies with top ESG, transparency and disclosure metrics. Rosneft boasts high ESG scores from Bloomberg, Refinitiv, and SAM Corporate Sustainability Assessment (S&P Global) as well as in the CHRB human rights ranking⁵. **GRI 103-3**

Ranking	Position in 2019
	The Company topped in the Governance category, which takes into account governance, risk management and anti-corruption metrics. We are ahead of most participants (83 %) in the ICB's international oil and gas ⁶ supersector.
	Following an independent assessment, Rosneft received a "B" in the Climate Change category, outperforming its Russian peers. The Company's water management activities were rated "B-", indicating the effectiveness of our environmental policy.
	In 2019, Rosneft improved its CHRB score by 11 p. p. to 32.7 %, surpassing other Russian companies. This is one of the highest growth rates among international mining companies. Our rating is above the industry average, and we work to integrate relevant principles and approaches in all our operations with a view to further improving our human rights performance.
	The Company has an "A" rating, which places us among Top 5 oil and gas producers.
	Bloomberg assigned Rosneft an ESG score of 65.15, which puts us in a leading position ahead of most of our global peers.
	Rosneft improved its ranking in the S&P Global's SAM Corporate Sustainability Assessment by 12 notches (57th line).

¹ Environmental, Social, Governance means matters of environmental protection, social aspects (including operational health and safety, relationship with suppliers, contractors, and indigenous peoples, etc.), and corporate governance.

² London Stock Exchange Group.

³ Task Force on Climate-Related Financial Disclosures.

⁴ Carbon Disclosure Project.

⁵ Corporate Human Rights Benchmark.

⁶ Industry Classification Benchmark.

Sustainability Management

Sustainability Policy

The Company has put in place a Sustainable Development Policy that articulates its vision and introduces a uniform approach to sustainable development. Rosneft's goals and objective under the Policy include, among others, supporting the Company's strategy and efforts to achieve industry leadership, increasing shareholder value, facilitating professional and personal growth of employees, making better use of natural resources, and establishing effective and transparent communication with stakeholders. **GRI 103-2**



The Company Policy on Sustainable Development is posted on the Company. official website.

Strategic Targets

Along with the five priority UN Sustainable Development Goals pursued by Rosneft as part of its core operations, the Company formalised its strategic principles in this area.



Care for people, the environment and moral values

- Safety culture and safe conduct of business
- Working space and benefits for employees
- Human, business and asset security



Fair and responsible business practices

- Business and production integrity
- Transparency and information disclosure
- Respect for human rights
- Ethics, compliance with procedures, and combating corruption
- Risk management



Efficient environmental impact management

- Leadership in environmental protection
- Water resource management
- Ecosystems and biodiversity



Partnership with stakeholders

- Efficient partnerships
- Respect for human rights
- Right to work, comfortable working conditions, and social protection of employees
- Company's values for suppliers and contractors



Maximum adaptability of the business model while transitioning to the low-carbon economy

- Flexible business model
- Balanced investment portfolio
- Strong performance and value creation irrespective of the oil business cycle
- Energy security



Fostering social and economic development

- Direct and indirect support of economic development
- Development of suppliers, contractors, and related industries; employment and staff training
- Industrial and social infrastructure
- Availability of energy resources, novel products and solutions



Response to climate change risks

- Corporate governance with a stronger focus on climate change
- Lower GHG emissions
- Monitoring of production-related energy consumption
- More eco-friendly products

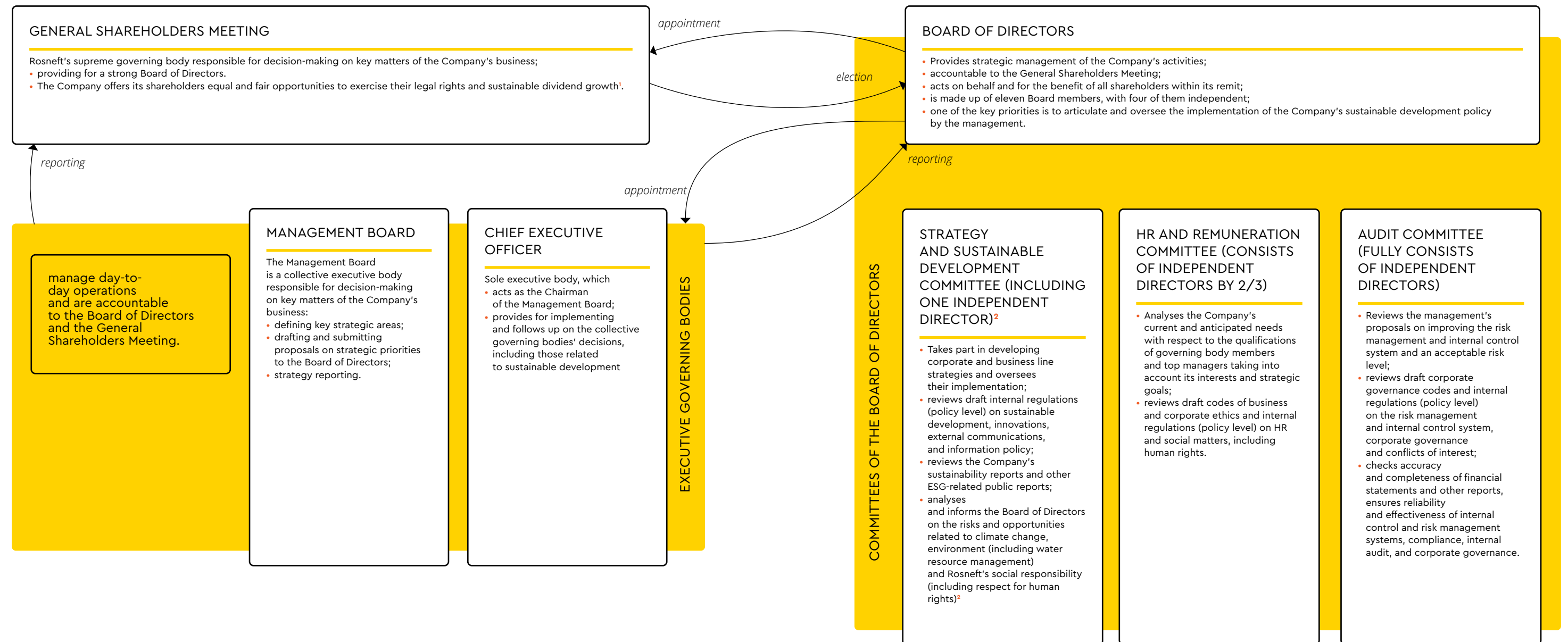


Corporate Governance

Reliant on the best Russian and international practices, the Company's corporate governance framework keeps developing taking into account external changes and the needs of shareholders and other stakeholders. All its components are involved in and contribute to ongoing sustainability management. [GRI 102-18](#) [GRI 102-20](#) [GRI 102-22](#)



For details on the corporate governance framework, see the 2019 Annual Report and the official website.



¹ For details on shareholder engagement, see the 2019 Annual Report.

² Strategic Planning Committee before April 2020. In charge of reviewing sustainability reports instead of the HR and Remuneration Committee.



Performance in 2019

General Shareholders Meeting

The dividend decisions made by the General Shareholders Meeting in 2019 are in line with the Dividend Policy designed to balance the Company's and its shareholder interests. They seek to boost the Company's investment appeal and shareholder value:

- the target payout ratio is at least 50 % of the Company's IFRS net income;
- dividend payouts are to be made at least twice a year.

Dividends paid to the Company's shareholders in 2019 totalled RUB 283 bln.¹

283
billion roubles
of dividends paid
to the Company's shareholders
in 2019

Board of Directors

As part of the sustainability risk management process, the Board of Directors did the following:

- reviewed the report on the status of the Comprehensive Plan for the Enhancement of the Risk Management and Internal Control System;
- reviewed the HSE report;
- approved the report on the identification of company-wide financial and operational risks for 2020.

GRI 102-29

Every

5th
matter

considered by the Board of Directors or the Management Board in 2019 was related to the Company's sustainable development.

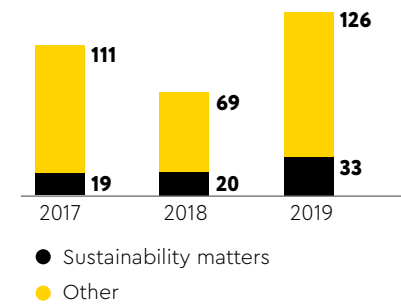
18%

of all recommendations issued by the Board of Directors committees focused on sustainable development

In 2019, every fifth matter considered by the Board of Directors or the Management Board was related to the Company's sustainable development. The share of the Board committees' recommendations on sustainable development stood at 18 %.

Over the year, the Board of Directors, its committees and the Management Board reviewed 378 items, with 72 (19 %) of them pertaining to sustainable development.

Number of items reviewed by the governing bodies



In June 2019, the Board of Directors welcomed a new member Hamad Rashid Al-Mohannadi who has an extensive expertise and administration experience in the oil and gas industry, as well as in strategic, risk and HR management.

For details on the experience and expertise of the Board members, see Rosneft's Annual Report 2019 and sustainability reports for the previous periods.



For details on the experience and expertise of the Board members, see Rosneft's 2019 Annual Report.

Management Board

Key sustainability decisions made by the Management Board:

- approved the expansion of a retail distribution network of compressed natural gas to be used as motor fuel;
- approved seven charity transactions aimed at implementing social projects;
- approved the following Company's internal regulations, including their updates and amendments:
 - IT Policy;
 - Regulations on the Energy Efficiency Commission;
 - Standard on Insurance of Corporate Risks, Regulations on the Technological Council of Rosneft;
 - Regulations on the Conflict Resolution Commission;
 - Standard on Staff Skill Assessment and Development.

In 2019, the Management Board focused on the following sustainability objectives:

- enhancing IT management, including the automation and digitalisation of business processes;
- improving the corporate-wide risk management system (CWRMS);
- upgrading the staff skill assessment and development system;
- developing eco-friendly technologies;
- boosting energy efficiency and energy saving;

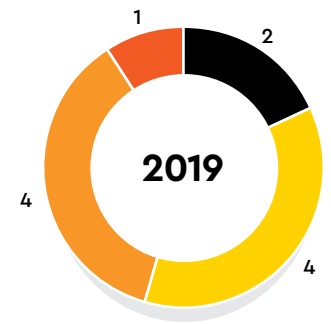
- social development of the Company's regions of operation. GRI 102-29

Key sustainability performance indicators

To propel the Company towards its 2022 strategic goals, the Board of Directors annually approves KPIs for the Management Board and top executives, which include the following sustainability performance metrics:

- implementing strategic objectives and initiatives;
- achieving environmental targets, including the reduction of emissions and discharges, waste and the area of contaminated lands;
- reducing the injury rate;
- fuel and energy saving;
- making innovative activities more effective;
- enhancing labour productivity;
- delivering on personnel training targets and integrating professional standards in the Company's operations;
- educating stakeholders on the Company's sustainable development initiatives.

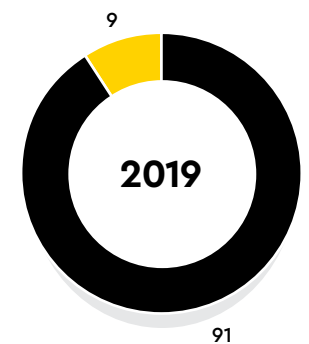
Age Diversity on the Management Board, breakdown



- Under 45 years
- 46-55 years
- 56-65 years
- 66 or over

Gender Diversity on the Management Board, %

GRI 405-1



- Men
- Women

¹ Dividends paid to Rosneft's shareholders in 2019 in line with the resolutions of the Annual General Shareholders Meeting (for 2018) and the Extraordinary General Shareholders Meeting (for the first six months of 2019).



Sustainability Risk Management

The objectives of the Risk Management and Internal Control System (RM&ICS) are set out in the Company's Policy on the Risk Management and Internal Control System drawing on recommendations of international firms engaged in risk management, internal control and audit services. **GRI 102-15**



For details on the RM&ICS, see Rosneft's 2019 Annual Report.

Key risks inherent in the Company's business

Integrated in the CWRMS, sustainability risk analysis relies on the relevant corporate methodology. The following sustainability risks are classified as strategic:

- toughening of environmental regulations: government regulation, promoting energy saving standards and initiatives;
- health, safety, and environment (HSE) risks: these risks are managed throughout the facility life cycle, including design, construction, operation, reconstruction, re-engineering, development, mothballing and shut-down. At each stage, the results are documented in reports described in the Company's internal regulations. The HSE risk management system covers at least four

levels: units, Group Subsidiaries, businesses and the Company;

- HR and social risks: based on the assessment the Company identifies risks related to honouring its social commitments and talent shortage in certain niche areas. Rosneft manages these risks through a variety of measures, as set down in its HR and social strategy, designed to recruit and retain highly qualified personnel, and develops and improves the existing policies and procedures covering HR management, social development, and corporate culture.

- human rights-related risks: if identified by the management, these risks are subject to assessment and mitigation as part of the RM&ICS;



For details on the observance of human rights, see the Approaches to Promoting Human Rights section of this Report.

- Risks related to climate change and carbon regulation (energy transition): the Company analyses climate-related risks as part of the CWRMS, with the results submitted to the Board of Directors' Audit Committee and the Company's management;



For details on climate-related risks, see the Climate-related Risks and Opportunities section of this Report.

The Company also adapts to new coronavirus-caused challenges and takes steps to prevent the spread of infection.



Protecting Health and Staying Efficient

Rosneft was one of the first businesses to respond to the new crisis and related challenges. We took urgent measures to prevent the spread of the COVID-19, protect our employees, their families, local communities, customers and contractors and ensure the continuity of all production processes.

Within the shortest possible time, we rolled out a number of initiatives to reduce the risk of contagion at our production sites and shift camps. These include restrictive organisational and epidemiological measures, longer shifts, setting up isolation wards, introducing additional health checks, and maintaining virus vigilance. We increased the number of medical staff during shifts and created more mobile teams, while also providing our production staff with ample supplies of personal protective equipment (gloves, masks and respirators). Working spaces and corporate vehicles are subject to frequent disinfection, and our staff undergo regular temperature screening.

We toughened control over pre-shift medical check-ups

and engaged mobile medical teams to perform ad-hoc examinations in dormitories at shift camps and production sites. Our experts developed various scenarios to evacuate people from remote shift camps, including acute cases. We introduced longer shifts to reduce staff rotations and travel associated with a risk of contagion. In most regions employees stay under pre-shift medical observation for a fortnight prior to going to the oil field.

We pay special attention to disease prevention at our sites and offices. We introduced contactless temperature measurements, installed touchless hand sanitiser dispensers in all areas (site gates, floors, entrance lobbies and shared facilities), arranged for daily disinfection of premises and other protective measures.

Importantly, despite some real difficulties caused by the lockdown and the industry's slowdown, we managed to retain all our staff, timely pay salaries in full and honour our commitments to partners.



In these unprecedented circumstances we did our best to protect our people's health and prevent the spread of the coronavirus, while also ensuring business continuity and maintaining high efficiency of business processes. Our team showed a high degree of responsibility in dealing with new challenges. Every day, they proved capable of acting fast on any problem, promptly and effectively dealing with all difficulties and helping those in need to ensure social stability and security."

Alexey Artemyev

Vice President for HR and Social Policy of Rosneft



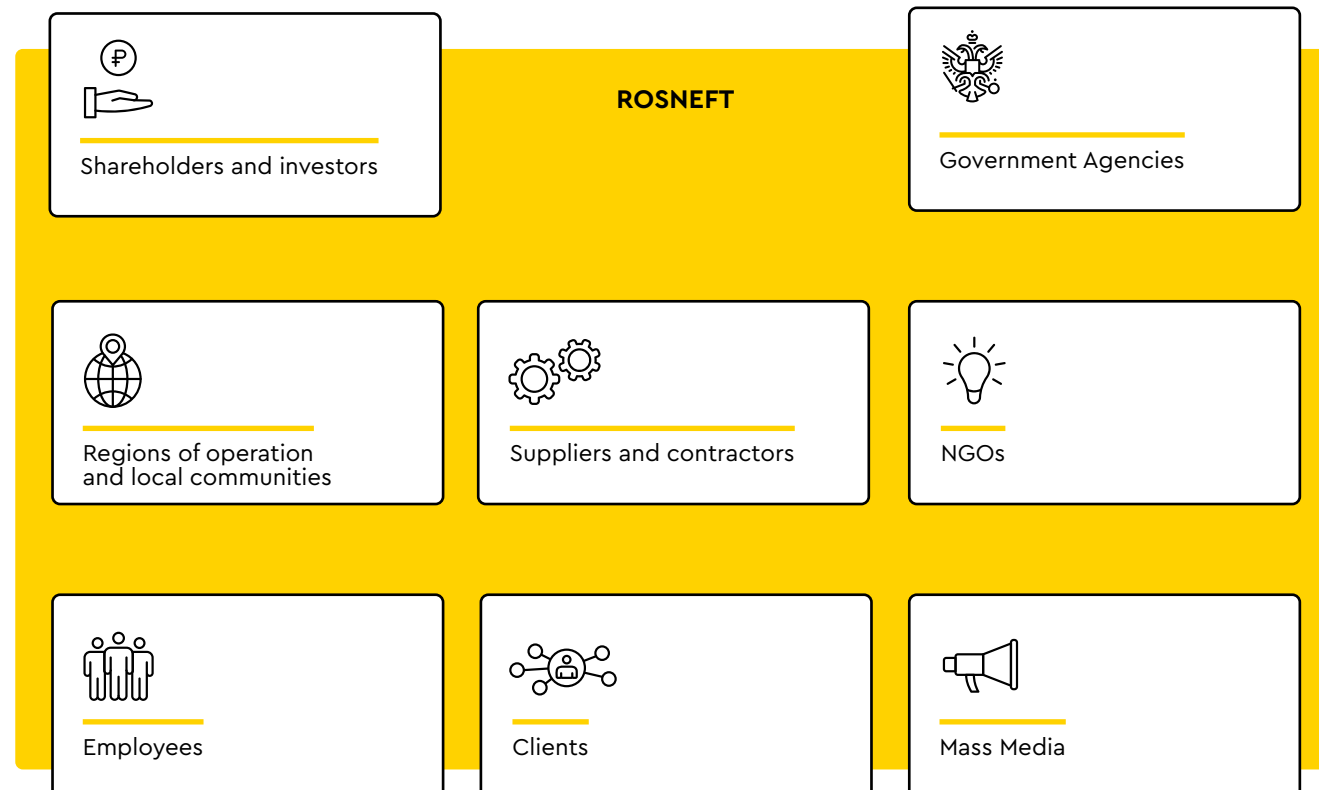
Stakeholder Engagement

Rosneft is focused on building a transparent, productive and mutually beneficial partnership with a wide range of stakeholders and sees it as the basis for accomplishing strategic goals and growing the business.

GRI 102-43

In its relations with stakeholders the Company is guided by the law and high business ethics standards. Rosneft has in place the Company Policy on Sustainable Development and the Code of Business and Corporate Ethics. The Company organises its dialogue with stakeholders around various formats and mechanisms that are geared towards the effective achievement of sustainable development goals.

Stakeholders GRI 102-40



Key Stakeholders and Interaction Highlights for 2019 GRI 102-15



Shareholders and investors

Over 97 thousand individual and corporate shareholders and more than 500 GDR holders.

Interaction

- Strategic speeches by the CEO at major international investment forums;
- participation in one-on-one and group meetings, including those on ESG matters;
- conference calls involving heads of finance, economics, and operations;
- publication of press releases, presentations, reports, and material facts on resolutions of the Company's Board of Directors and Management Board on the corporate website;
- work with rating agencies on ESG.

Points of Interest

Increase in capitalisation, growth and sustainable development of Rosneft, transparency of operations.

Achievements in 2019

- In 2019, the Company's capitalisation added +17 % (LSE);
- dividend payouts amounted to RUB 283 bln¹;
- inclusion in FTSE4Good Emerging Index;
- leading positions in international ESG ratings among Russian oil and gas companies CDP, Bloomberg, CHRB.



For details, see the subsections Shareholder Relations (p. 251) and Institutional Investor Relations (p. 254) of the 2019 Annual Report.



Government Agencies

As a major Russian taxpayer, Rosneft helps ensure budget stability and contributes to the nation's social and economic development.

Interaction

- Production operations;
- payment of taxes to the federal and regional budgets;
- cooperation with regional authorities;
- supplying fuel to strategic government functions;
- legislative improvement efforts.

Points of Interest

- Compliance with laws;
- timely tax payments;
- investments in regional development;
- generation of jobs for the region;
- development of urban infrastructure.

Achievements in 2019

- Presence in 78 regions;
- RUB 3.6 trln total amount of taxes, fees and duties;
- Rosneft is the sole fuel and lubricant supplier for the majority of government-owned companies.

¹ Dividends paid to Rosneft's shareholders in 2019 in line with the resolutions of the Annual General Shareholders Meeting (for 2018) and the Extraordinary General Shareholders Meeting (for the first six months of 2019).



Regions of operation and local communities

Interaction

- Round tables and public discussions;
- charity and sponsorship programmes;
- support of environmental initiatives;
- development of infrastructure across the regions of operation.

Points of Interest

Jobs, development of local communities, social support.

Achievements in 2019

- 16 round-table discussions held in the regions;
- 13 community meetings on off-shore projects;
- RUB 7,138 mln spent on social projects in the regions of operation;
- RUB 1,842 mln spent on sponsorship activities;
- 1 mln trees planted as part of forest conservation initiatives;
- RUB 2,265 mln allocated to charitable aid in education and science;
- RUB 2,312 mln invested in the development of infrastructure across regions, districts and municipalities;
- help with transport infrastructure development;
- RUB 404 bln in tax payment to regional budgets.



NGOs GRI 102-13

Interaction

Rosneft takes active part in social, scientific, sport and education development, collaborates with educational, non-profit and non-governmental organisations, and works with environmental NGOs. The Company is also a member of a number of professional associations and business unions.

- Social initiatives;
- stewardship support of educational organisations and cultural and sports institutions;
- partnership with the Leaders of Russia competition;
- cooperation with associations of indigenous peoples of the North;
- membership in professional associations and unions.

Points of Interest

- Attention to socially important issues, including sustainable use of natural resources;
- support of social and cultural domains;
- corporate social responsibility.

Achievements in 2019

- Six employees of Group Subsidiaries made it to the finals and three became winners of the nationwide Leaders of Russia competition that honours the best managers in the country.

The event is hosted by the Russia – Land of Opportunity autonomous non-profit organisation.

- Institute of Oil and Gas Technology Initiatives autonomous non-profit organisation established;
- the Company's employees won prizes in six out of eight categories of the national WorldSkills championship;
- Vankorskoye UTT (a subsidiary of Rosneft) was included in the National Gas Vehicle Association;
- Rosneft is among the leaders of RSPP's¹ Sustainable Development Vector index;
- For a third time running, Rosneft was named the best socially-oriented company as part of a Russian Ministry of Energy competition;
- over 2.5 thousand visitors attended the ECOARCTIC environmental forum staged by Rosneft in the Nenets Autonomous Region;
- The Company took part in the Earth Hour campaign: external lighting was turned off at the Company's headquarters and at administrative buildings of 177 Group Subsidiaries;
- The Company made and published atlas titled Russian Arctic. Space, Time, Resources.



Suppliers and Contractors

Interaction

- Consistently high volumes of procurement of goods, works and services from small and medium enterprises (SMEs);
- implementation of category management, development of category and procurement strategies;
- improvement of contractors' competencies, including in terms of occupational health and safety;
- posting workshops and round tables for suppliers and contractors.

Points of Interest

Responsible business practice;

- openness;
- competitiveness and effectiveness;
- proper performance under agreements;
- compliance with ethical standards and non-discrimination.

Achievements in 2019

- RUB 2.6 trln – the volume of procurement;
- 18 workshops for SMEs (jointly with SME Corporation);
- SMEs account for 76 % of potential suppliers accredited with Rosneft;
- over 102 thousand procurement procedures initiated by the Company;
- the Company's health and safety requirement apply to counterparties;
- the project to establish a Shared Service Centre in Samara entered the active phase – regional inventory management and quality control functions have been transferred from the Company's Head Office to the centre;
- Corporate Internet Shop for minor purchases (up to RUB 500 thousand) was launched on the TEK-Torg electronic trading platform;
- over RUB 2 bln – completed procurement through the Corporate Internet Shop, with over 14 thousand registered suppliers (more than 10 thousand being SMEs).



Employees

Interaction

- Ensuring occupational safety;
- providing remuneration;
- organising education, training and professional development;
- social policy implementation: establishing optimal workplace conditions, voluntary insurance, development of the health protection system and pension plan.

Points of Interest

Stable and competitive salary, professional growth, social protection.

Achievements in 2019

- RUB 88,609 – average monthly salary;
- RUB 18,7 bln – the amount of social payments, benefits and one-off bonuses included in the payroll;

- 19 million man-hours of training;
- 74% of the headcount covered by collective bargaining agreements;
- 56% of staff represented by trade unions²;
- more than 330 thousand employees of Rosneft and Group Subsidiaries covered by personal insurance programmes;
- over 280 thousand employees covered by the corporate pension plan;
- over 290 heads of Group Subsidiaries' social and HR functions participated in an annual conference, which was also attended by the Company's overseas partners.

¹ Russian Union of Industrialists and Entrepreneurs.

² Of those Group Subsidiaries that have trade unions.



Retail Chain Customers

Interaction

- Sales of petroleum products and associated complementary goods through a filling station chain, wholesale of petroleum products from oil depots;
- a comprehensive solution for businesses with cashless payment functionality;
- Rosneft loyalty programmes; Family Team, BP Club, and Bashneft loyalty programme;
- development of remote fuel payment services for individuals;
- B2B fuel payment service via a mobile app.

Points of Interest

- Uninterrupted supply;
- fuel supplies to remote and poorly accessible areas;
- guaranteed petroleum product quality control;
- simplified business processes for legal entities;
- loyalty programme for individuals;
- higher service speed at filling stations;
- high customer service standards;

- development of customer value proposition;
- expansion of the range of goods and services around filling stations.

Achievements in 2019

- Over 3 thousand filling stations¹ in Rosneft's retail network across Russia;
- Leading position on one of the key regional markets thanks to growth at over 100 filling stations in St Petersburg and the Leningrad Region;
- The number of Family Team, BP Club and Bashneft loyalty programme members reached 13.6 mln people;
- higher sales of complementary goods at filling station shops and cafés – over 45 mln cups of hot drinks sold;
- Rosneft stations provide compressed gas refilling for nearly 2.5 thousand vehicles daily;
- 12 charging stations for electric vehicles.



Mass Media

Interaction

- Ensuring high transparency of information in accordance with the Company's Information Policy²;
- discussions of topical issues at round table meetings in the regions of operation;
- discussions at public events (conferences, forums);
- publications on the website and official social media accounts;
- the Company's statements in response to media publications;
- website posts containing official reports and the Company's position on various issues.

Content of website publications:

- rational use of APG;
- technology and innovation;
- environmental protection activities;
- energy saving and energy efficiency;
- credit and ESG ratings;
- HR and social matters;
- financial and operating performance;

- contribution to the social and economic development of local communities.

Points of Interest

Regular updates with reliable, relevant and complete information.

Achievements in 2019

- More than 400 news items and press releases published on the Company's website;
- media representatives invited to round table meetings on sustainable development in the Company's regions of operation;
- updating the public statement "Rosneft: contributing to implementation of the UN Sustainable Development Goals";
- publication of Rosneft's 2018 Sustainability Report;
- strong presence in social networks (Twitter, VK, Facebook, Instagram).

Approaches to Promoting Human Rights

Human rights are rights inherent to all human beings, whatever their nationality, place of residence, sex, ethnic origin, colour, religion, language or any other status is. All people are equally entitled to their human rights without discrimination. These rights are all interrelated, interdependent and indivisible¹.

GRI 103-1

Respecting human rights and freedoms is the fundamental principle of any business guided by sustainability and the UN Sustainable Development Goals. Aware of the impact its operations may have on the rights of the employees, customers, business partners, and local communities, Rosneft strives to adhere to the best corporate practices and procedures in everything it does. **GRI 102-15**

Human rights were officially approved by the Universal Declaration of Human Rights dated 10 December 1948.

Respecting Generally Accepted Principles

Rosneft recognises and respects the importance and value of the fundamental human rights and freedoms set forth by international declarations and conventions on human rights, including freedom of association and collective bargaining, labour rights, right to a healthy environment, right to health care, and rights of indigenous minorities.

Rosneft operates in strict compliance with the Constitution and laws of the Russian Federation and adheres to socially responsible business practices as set out by the Social Charter of the Russian Business. The Company also complies with applicable laws across the countries and territories it operates in.

KEY INTERNATIONAL DOCUMENTS ON HUMAN RIGHTS THAT THE COMPANY USES AS A GUIDANCE:

Universal Declaration of Human Rights

United Nations Declaration on the Rights of Indigenous Peoples

UN Global Compact

OECD Guidelines for Multinational Enterprises

Declaration on Fundamental Principles and Rights at Work of the International Labour Organisation (ILO)

ILO Right to Organise and Collective Bargaining Convention No. 98

ILO Freedom of Association and Protection of the Right to Organise Convention No. 87

ILO Discrimination (Employment and Occupation) Convention No. 111

¹ Oil depot.

² Rosneft's Information Policy is posted on the website: https://www.rosneft.com/upload/site2/document_file/BP3-01-04_P-01_V-3-00_UL-001_ENG.pdf

¹ For details, see the website of the United Nations Office of the High Commissioner for Human Rights: <https://www.ohchr.org/RU/Issues/Pages/WhatAreHumanRights.aspx>



Human Rights Management

The Company's human rights management practices are in line with the principles and approaches stipulated by high-level public documents: Code of Business and Corporate Ethics of Rosneft and the Company Policy on Sustainable Development. The documents are published on Rosneft's website and are binding on all the employees regardless of their level or position.

Principles of respecting human rights are also detailed in the Company's internal regulations, are integrated into corporate business processes and apply to all controlled Group Subsidiaries.

Also, in 2019, Rosneft started developing its public statement on human rights, which covers the key aspects of the area:

- respect for the freedom of association and collective bargaining;
- respect for the equality of human rights and freedoms and non-discrimination;
- unacceptability of child and forced labour;
- health protection efforts, measures to provide a safe working environment

and create favourable social conditions and a healthy environment;

- supporting family and children;
- respect for cultural heritage, traditions and rights of indigenous peoples.

The public statement also describes the role of the compliance and anti-corruption system, details methods of risk management relating to human rights protection, and provides information on feedback mechanisms and awareness raising in this area.

Rosneft is committed to promoting human rights across the supply chain. The Company has a roadmap on implementing approaches to promoting human rights as part of interaction with suppliers of goods, works and services. As part of the roadmap, the Declaration on Respecting Human Rights was developed to be used when interacting with suppliers of goods, works and services throughout procurement, with phased awareness raising and training activities planned for suppliers and contractors. **GRI 103-2**

Personal Data Management

In December 2019, the Company approved its Policy on Personal Data Processing aimed at protecting human and civil rights and freedoms, including the right to privacy, in this area.

The document is binding on the Group's business units and controlled Group Subsidiaries and applies to any processing of personal data, even if it took place before the Policy was implemented.



The Company's Personal Data Processing Policy is posted on the Company's official website.



Tools to Respond to Violations of Human Rights

The Company has the necessary tools to collect and process complaints and claims relating to human rights. The Company's employees and any stakeholders, including those from the Company's regions of operation abroad, may contact the Security Hotline or the Ethics Hotline (written requests are accepted in all local languages across the footprint). The Company guarantees confidentiality and security of any requests it receives.

Matters related to human rights can also be raised by the Company's employees with Rosneft's Council for Business Ethics and ethics champions available in most of the Group Subsidiaries.

The Company investigates all the cases and takes measures to rectify violations whenever any are identified in the area of human rights. **GRI 103-3**

The best Russian company in the CHRB (Corporate Human Rights Benchmark) international human rights index

In 2019, the Corporate Human Rights Benchmark not for profit company (CHRB) improved Rosneft's score on human rights by 11 p.p. to 32.7%. This is one of the highest growth rates among international and Russian mining companies. The Company now ranks above the industry average, outperforming Russian peers.

CHRB recognised the Company's transparency and responsibility in respecting human rights throughout its operations.

The benchmarking is based on publicly available information and its compliance with the UN Guiding

Principles on Business and Human Rights. In 2019, a total of 200 companies were benchmarked.



Personnel Training on Human Rights

For its employees, the Company provides regular training on human rights matters, with respective modules integrated into a variety of corporate training courses. The training covered 42.4 thousand employees (577.3 thousand man-hours).

In 2019, training programmes on human rights included the following key focuses:

- human rights: approaches, terms and definitions;
- civil society and rule of law;
- human rights protection;labour law;
- cross-cultural communication;
- business ethics;
- cultural change management;
- designing effective social communications. **GRI 412-2**

Trained, total

42.4
thousand
employees

or

577.3
thousand
man-hours



Compliance Framework Development

Compliance Framework

Rosneft recognises the importance of maintaining high professional and ethical standards of doing business and improving transparency of its operations. [GRI 103-1](#)

The corporate compliance framework is a system of preventive actions and pro-active measures aimed at ensuring no violations of applicable laws, industry legislation and internal regulations of the Company with a view to setting high professional and ethical standards, minimising compliance risks, and avoiding major financial losses or reputational damage. [GRI 102-15](#)

The corporate compliance system is designed to make sure the Company succeeds in the long run by:

- acting as a guarantee of the Company's reputation;
- enhancing the Company's investment case;
- preventing and minimising compliance risk;
- establishing clear and reasonable rules of the game, enabling the personnel to do their job effectively and with confidence.

Rosneft's corporate compliance system relies on ISO 19600:2014 Compliance Management Systems and ISO 37001:2016 Anti-Bribery Management Systems and contains all the basic components.

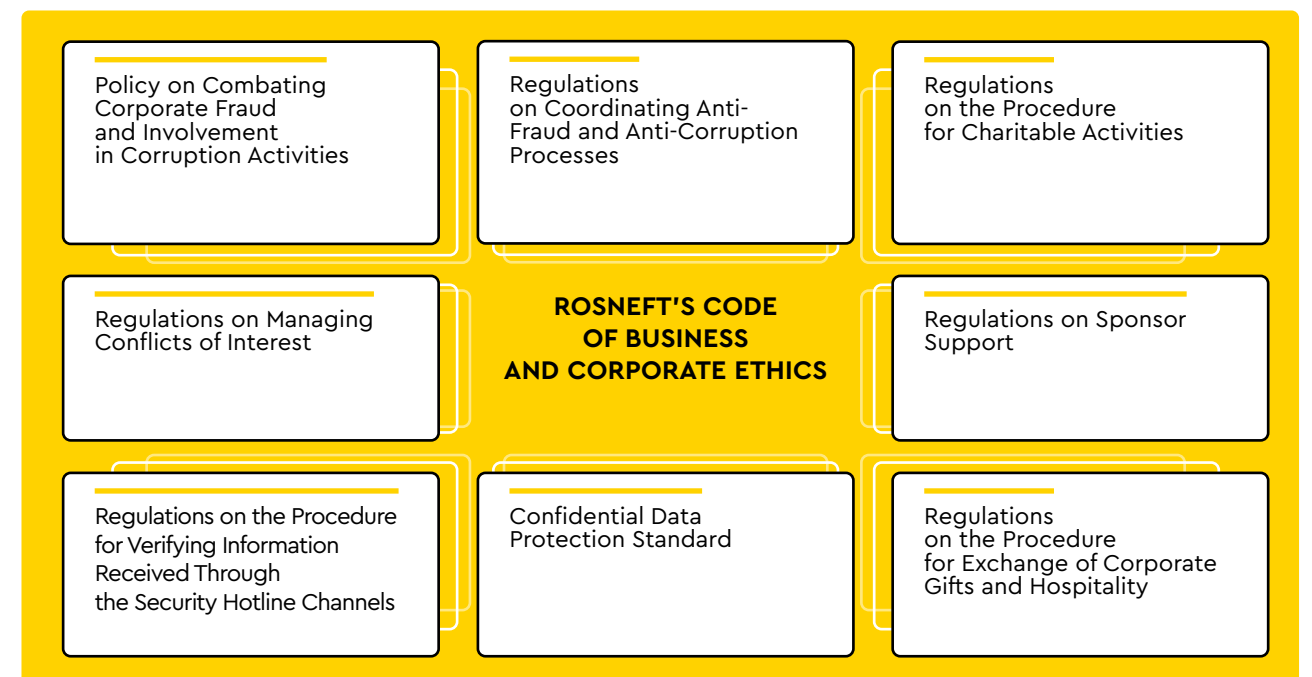
COMPONENTS OF AN EFFECTIVE COMPLIANCE FRAMEWORK:



PRIORITIES OF ROSNEFT'S COMPLIANCE FRAMEWORK¹ ARE APPROVED BY THE COMPANY'S COUNCIL FOR BUSINESS ETHICS



Key internal documents governing ethics management and compliance activities



Rosneft's Council for Business Ethics is a standing collegial body. As part of its activities, the Council reviews matters of ethical behaviour, human rights and conflicts of interest and monitors compliance activities and adherence to the Code of Business and Corporate

Ethics. The body is composed of senior managers responsible for respective areas and managers overseeing related areas. The Council for Business Ethics develops the methodology and corporate position on business ethics and compliance. Enforcement

of corporate compliance rules is the responsibility of senior managers and heads of functions and business units. [GRI 103-2](#)

¹ As per Rosneft's corporate compliance risk matrix.

² Approved by Presidential Executive Order No. 378 dated 29 June 2018.



Countering Corporate Fraud and Corruption

As a party to the UN Global Compact guided by its principle to work against corruption, the Company continued its efforts in 2019 to improve the efficiency of its existing anti-fraud and anti-corruption framework. In line with the National Anti-Corruption Plan for 2018–2020², this commitment covers all levels of the Company's governance:

- strategic management is the responsibility of Rosneft's Board of Directors (Audit Committee);
- current day-to-day management of the framework is within the remit of the Company's executive bodies (Management Board and Chief Executive Officer) and the Council for Business Ethics;
- heads of businesses, functions and units are responsible for operational management;
- an independent and unbiased annual review of the risk management and internal control performance in the area of anti-corruption efforts is carried out by the Internal Audit Service.

The key documents¹ and principles of preventing corporate fraud and involvement in corruption activities are approved by Rosneft's Board of Directors, which also reviews the efficiency of efforts in this area on a regular basis. In 2019, the Board of Directors considered and approved the results of a review of the anti-corruption risk management and internal control process.

In addition, the Council for Business Ethics held four meetings in 2019, considering, inter alia:

- report on the progress against the Consolidated Corporate Compliance Programme (Roadmap) for 2018–2019;
- report on implementation, execution and operating efficiency of RM&ICS procedures in anti-fraud and anti-corruption areas for 2018;
- approval of the review of ethical declarations submitted by Rosneft's officers during 2018.

In the reporting period, Rosneft's Chief Executive Officer approved internal documents that included the Company's Regulations on Coordinating Anti-Fraud and Anti-Corruption Processes providing for:

- assessing corporate fraud and corruption risk;
- protecting employees who reported on corporate fraud and corruption cases;
- reporting on violations showing signs of corporate fraud and corruption, and checking these reports;
- organising trainings and communications on countering corporate fraud and corruption;
- monitoring and controlling the process of countering corporate fraud and corruption. **GRI 103-2**

The Company's Security Service oversees the entire anti-fraud and anti-corruption process. All of the Company's subsidiaries operate in line with the Policy on Combating Corporate Fraud and Involvement in Corruption Activities. **GRI 103-2**

CORRUPTION RISK AREAS IDENTIFIED BY THE COMPANY



Conflict of interest risk



Bribery risk



Counterparty risk and risk of ultimate beneficiary non-identification



Commercial bribery



Facilitation payments



Risk associated with inappropriate use of funds



Risk associated with third parties failing to comply with anti-corruption laws

The Company has a system in place to control the contracting, pricing and discounting procedures. This ensures efficiency in identifying signs and facts of affiliation, personal interest, or potential corruption schemes. The Company investigated 163,813 prospective bidders and turned down 5,975 of them.

Rosneft encourages counterparties and JV partners to adhere to similar measures to prevent corporate fraud and involvement in corruption activities.

The Company continues its ongoing efforts to identify commercial schemes based on abuse, including abuse of power, by the Company's management and third parties.

Under the 2013 Agreement on Cooperation with the Ministry of Internal Affairs, Rosneft engages in joint efforts as part of five-year action plans to help reduce the crime rate in the regions of the Company's operation and improve the efficiency of measures to identify, prevent, expose, and investigate crimes in fuel producing industries. In 2019, law enforcement agencies initiated 739 criminal cases based on materials compiled by the security functions of the Group Subsidiaries.

All new hires and employees appointed to new positions sign an anti-corruption clause, which forms part of their employment contracts. The clause specifies a number of limitations, prohibitions and requirements aimed at preventing conflicts of interest.

Measures as part of the Comprehensive Anti-Fraud and Anti-Corruption Programme for 2019–2020¹ included:

- drafting the Concise Guide to Compliance, including anti-fraud and anti-corruption provisions governing, including exchange of corporate gifts and hospitality. The Guide was communicated to all employees;
- quarterly updating the Company's employees on typical violations of anti-fraud and anti-corruption rules (including the management of conflicts of interest). In May 2019, the Company developed methodology support on frequently asked questions related to conflicts of interest. The materials were circulated to employees of Rosneft and the Group Subsidiaries;
- drafting recommendations on anti-fraud and anti-corruption measures and communicating the same to the Group Subsidiaries and joint ventures;
- conducting ongoing anti-corruption audits of draft internal regulations;
- publishing the All about Compliance information bulletin on a quarterly basis. **GRI 205-2**

¹ The Company's Policy on Combating Corporate Fraud and Involvement in Corruption Activities was approved by resolution of Rosneft's Board of Directors on 21 May 2018 (Minutes No. 19 dated 21 May 2018).

² Minutes No. 19 dated 1 April 2019 (resolution dated 29 March 2019).

¹ Approved by Rosneft's Council for Business Ethics (Minutes No. 7 dated 10 December 2018).



Security Hotline

The Company operates a 24/7 Security Hotline to report on cases of corporate fraud and corruption, which helped to identify and prevent a total of RUB 40.46 mln of damage in 2019.

Members and Chairman of the Company's Board of Directors are updated on the Security Hotline performance on a quarterly basis. Also, to prevent wrongdoings, the Company

provides regular updates to its employees about how the Security Hotline is performing.

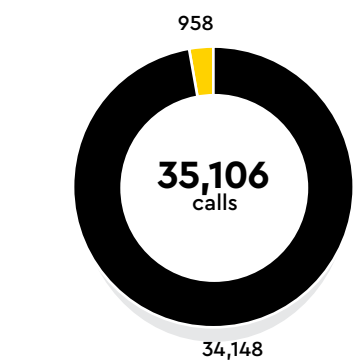
The Company has a practice of rewarding whistleblowers.

Rosneft guarantees confidentiality of all whistleblowers, whether employees or not, and protection of any other form of pressure, prosecution or discrimination. [GRI 102-17](#)

35,106
calls
received by the Security Hotline
in 2019

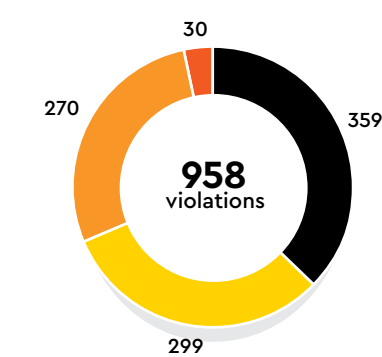
PERFORMANCE OF THE SECURITY HOTLINE

Calls received by the Security Hotline



- Explanations/consultation provided
- Inquiry/corporate investigation conducted

Areas of violations



- Fraud/corruption/embezzlement
- Ethical standards, labour laws, conflict of interest
- Retail sales of petroleum products
- Procurement procedures

40.46
million roubles
of damage identified/prevented

Ethics Management Framework Development

MAIN OBJECTIVES AND VALUES



LEADERSHIP

We strive for leadership in all aspects of our business. In planning the future of the Company, we employ the most novel ideas and bleeding-edge technology and avoid any damage to people and the environment.



INTEGRITY

We take on responsibility for everything we do and say. We act openly and consistently towards our colleagues, clients and partners, strictly honouring our commitments.



EFFECTIVENESS

We achieve the targets we set and undertake new ambitious tasks relying on professionalism, discipline and teamwork and ensure an appropriate balance of interests between each employee and the Company.



SAFETY

Our highest priority is to preserve life and health and ensure the safety of work and the environment.

In 2008, Rosneft introduced a Code of Business and Corporate Ethics. In 2015, the Company adopted a new version of the Code aligned with best domestic and global practices. [GRI 102-16](#)

The Code is a common reference document that sets out the standards of behaviour expected from employees in their routine work and criteria of good practices in cases of ethical risk. It applies to each and every employee, regardless of their level or position.

In the reporting year, the Company continued to build awareness of the Code by translating it into the languages of the countries of operation: German, Kyrgyz, Portuguese, Spanish, Ukrainian and Vietnamese.



The Code of Business and Corporate Ethics is posted on the Company's official website.

The Code is Rosneft's fundamental document underlying its corporate culture and compliance framework.

Ethics champions are a key element of the system that puts the Code of Business and Corporate Ethics to life. They have the following duties: explaining the requirements of business ethics documents, principles, policies and procedures to employees;

- providing employees with advisory support on the implementation and application of the Code;
- resolving ethical conflicts;
- organising the registration of business ethics messages;
- informing employees about business ethics decisions made;
- developing feedback mechanisms.

Results of the Ethics Hotline

The Company has the Ethics Hotline in place to collect feedback on ethics issues. All queries are registered, analysed and sent for review to the Company's relevant units. In 2019 the ethics hotline received 51 queries relating mostly to ethics or human rights violations (21%), requests for additional information about business ethics (18%) and compliance with labour laws (19%). Other themes included living and working conditions, social programmes, corruption and conflict of interest, feedback, etc. [GRI 102-17](#)

In 2019, hotline received

51
queries



Personnel Training

Rosneft runs ongoing corporate training programmes in the field of countering corporate fraud and corruption, compliance and business ethics.

We held an employee survey on combating corporate fraud and corruption that showed that the overwhelming majority of employees know the contents of the key local regulations and requirements in this area, and understand what needs to be done should any violations be detected.

In 2019, more than 18 thousand employees of Rosneft and Group Subsidiaries completed internal training programmes either in class or online.

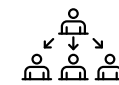
In the reporting period, the Company held in-person trainings for the representatives of the Group Subsidiaries in Brazil in Anti-Corruption Compliance: Managing Conflicts of Interest in the context of local anti-corruption laws. On top of that, we staged a panel discussion on compliance to discuss approaches to combating corruption, including the management of conflicts of interest. The event took place as part of a joint conference with BP, our strategic business partner.

Employees of Rosneft regularly take part in training programmes and conferences arranged by third parties in the area of anti-corruption, fraud and compliance. [GRI 205-2](#)

ROSNEFT 'S TRAINING PROGRAMMES IN COMBATING CORRUPTION, COMPLIANCE, AND BUSINESS ETHICS



CORPORATE TRAINING EVENTS FOR EMPLOYEES IN ANTI-CORRUPTION, COMPLIANCE AND BUSINESS ETHICS



A corporate training programme on building an effective system of applying Rosneft's Code of Business and Corporate Ethics was organised for 147 ethics champions in 125 Group Subsidiaries



A lecture to review anti-fraud and anti-corruption activities in the Group Subsidiaries was delivered to 119 employees



A multimedia training course on countering corporate fraud and corruption was updated

Training Programme for Ethics Champions

In 2019, we held a discussion session on today's business ethics challenges of the Company and the role of ethics champions. The session was organised as part of the annual conference for the leaders in charge of personnel and social programmes at the Group Subsidiaries, with BP representatives among attendees.

The event saw discussions on current business ethics challenges and a presentation on business ethics and compliance (E&C) from BP. At the end of the event, the participants proposed to organise a comprehensive training for ethics champions at the level of deputy

CEOs responsible for personnel and social programmes.

Based on the feedback received, a programme to build an effective system of applying Rosneft's Code of Business and Corporate Ethics was designed. Its three modules include:

- establishing a system to respond to challenging ethical situations;
- communication skills of ethics champions and feedback management;
- developing business ethics in the Company and creating an expert community. [GRI 103-3](#)





#2



CLIMATE ACTION



The photo features a red-breasted goose, a rare species from the family Anatidae, protected by the IUCN and regional red lists, as well as several international conventions on environmental protection. The species is also documented in the Red Data Book of Evenkia published in 2020 as part of the grant programme of East Siberian Oil and Gas Company



"We understand our responsibility as one of the world's largest energy producers to incorporate sustainability principles across our operational activities.

In 2019, Rosneft strengthened its carbon management governance processes at the Executive level. These have been supported by a dedicated carbon management subcommittee which has been established to develop further actions to minimise the Company's overall carbon footprint.

Our partnership with other oil and gas producers as a member of the Methane Guiding Principles initiative will also help to drive industry best practices in methane management across our value chain."

Didier Casimiro

First Vice President, Chairman of the Carbon Management Subcommittee

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- 44 Carbon Resilience Ratings



Carbon Management Goals and Approaches

Strategic Targets to Prevent Climate Change

As part of the Rosneft–2022 Strategy, the Company announced its commitment to the United Nations Sustainable Development Goals, which include two Goals which are directly linked to energy management, emissions reduction and management of physical climate risks. These are: **GRI 103-1** **GRI 103-2**

- SDG 7 Affordable and Clean Energy: enabling access to clean energy, increasing the share of renewables and enhancing energy efficiency.
- SDG 13 Climate Action: integrating climate measures into strategies, reducing emission intensities, and strengthening resilience to climate-related risks.

These priority UN Goals clearly articulate Rosneft's ambition to continue to contribute to meeting the world's growing energy demands but doing so with a commitment to significantly reduce GHG emissions across the value chain.

These commitments are underpinned by actions across ten elements of Rosneft's carbon management framework:

- Carbon management governance;
- Supporting the energy transition direction by growing natural gas production;
- Reducing operational CO₂ emissions and improving energy efficiency;
- Reducing operational methane emissions;
- Aligning GHG indicators and metrics for the ongoing industry benchmarking;
- Monitoring GHG performance and targets;
- Improving carbon management disclosure;

- Delivering company education programs on carbon-management;
- Strengthening partnerships on carbon-management approaches;
- Understanding climate-related risks and opportunities for the Company.



The Company's Policy on Health, Safety and Environment is posted on the Company's official website

Strategic GHG Reduction Targets and Performance Indicators

We also set relevant targets and KPIs to drive these improvements:

- Growing the Company's natural gas production to over 100 bcm per annum ;
- Reducing per unit GHG emissions by 5% by 2022;
- Avoiding 8 mmt of CO₂ equivalent emissions by through the Gas Investment Programme and the Energy Saving Programme;
- Achieving a top quartile indicator in GHG emissions intensity (Upstream oil and gas production, t CO₂ eq. / production, kt) comparable with leading global peers;
- Developing and producing new products that allow consumers to reduce emissions through the use of the Company's more eco-friendly products.



For details on the management system and guidelines on combating climate change, see the Company's website

Rosneft has taken a number of steps to reduce both direct and indirect GHG emissions generated by its operations or through the use of the Company's products.

These GHG reduction targets are supported by an internal 'Green Investments' capital investment program which includes funding for projects to reduce associated petroleum gas (APG) flaring and energy efficiency projects. The total expenditure for 'Green Investment' projects for the period of 2018–2022 will be around 300 billion rubles² which will also include funding for pipeline reliability, water management and land remediation projects. 'Green investment' expenditure between 2020 - 2022 will average around 7% of the annual capital investment budget.

Carbon Management Governance **GRI 103-2**

The Company established a Carbon Management Subcommittee led by Didier Casimiro, First Vice President of Rosneft to focus delivery on the carbon-reduction goals embedded in the Rosneft–2022 Strategy. The Subcommittee is made up of the Company's top management and heads of operations, as well as heads of energy, economic and environmental functional units.

The Subcommittee is responsible for developing the Company's position on reducing the carbon footprint of its assets, overseeing the development of relevant annual and longer-term plans and tracking progress on existing programmes, such as the Gas Investment Programme and Energy Saving Programme. The Subcommittee has held several meetings in 2019, delivering a carbon management framework and a carbon management plan, which was reviewed by the CEO as well as the Strategy and Sustainable Development Committee of the Rosneft Board of Directors.¹

The Company has also strengthened its internal capabilities in the area of carbon management by recruiting highly qualified and experienced professionals. In particular, we introduced the position of an advisor to Vice President for HSE on sustainable development and climate action.

Exchange of Carbon Management Experience

In 2019, Rosneft held a seminar on corporate carbon management practices, which focused on strategic GHG and methane reduction initiatives, energy efficiency programmes, and technological developments in carbon management.

The participants included the Company's top managers, President of BP Russia David Campbell, President of Equinor Russia Elizabeth Birkeland Kvalheim and vice presidents of relevant functions at these companies².



¹ Due to its chemical composition, natural gas produces the lowest amount of carbon dioxide when burned compared to other hydrocarbons.

² Over USD \$4 billion

¹ Strategic Planning Committee before April 2020.

² For details on the seminar, see the Company's website <https://www.rosneft.com/press/news/item/197983/>



Development of Global Energy Markets

Scenario Forecasts Related to the Global Energy Transition and Climate Action

«Rosneft considers various outlooks and projections of global energy demand, and develops long-term global economic and energy scenarios for the strategic and business planning process. The development and analysis of forecast scenarios is part of the KPIs for the Company's top management. The Rosneft 2022 strategy was tested using three key scenario forecasts.

The forecast results indicate that the Company's business model for the period until 2040 for both products and geographical spread are expected to be stable and resilient to the challenges assessed.

Projections based on the base-case and low-carbon scenarios imply an increase in global demand for primary energy up to 2040.

According to the base-case scenario, by 2040, global energy consumption will increase by 29% from the level of 2018. The share of fossil fuels will decrease from 81% in 2018 to 76% in 2040 with a shift in primary energy consumption towards a larger share of gas (from 23% in 2018 to 25% in 2040) and a smaller share of coal (from 27% to 22%). The share of liquid hydrocarbons in global energy consumption will decrease from 31% in 2018 to 29% in 2040, but will remain the largest among all energy resources. At the same time, the total share of liquid hydrocarbons and gas will remain flat at around 54%. The share

of renewable sources in global energy consumption will increase from 2% in 2018 to 6% in 2040.

In the low-carbon scenario, global energy consumption will increase by almost 23% to 2040 compared with 2018. In 2040, global demand for fossil energy sources will increase by a mere 9% from 2018 levels with consumption of non-fossil energy surging by more than 80%. However, fossil fuel sources will still retain a dominant role in global consumption of primary energy (72%). In total, liquid hydrocarbons and gas will account for more than half (52%) of the energy mix. Consumption of renewable sources in 2040 will increase five-fold against 2018 with a share of 9%.

The Sustainable Development Scenario (SDS): the IEA SDS (set out in the 2019 World Energy Outlook) focuses on efforts to limit temperature growth to 1.8°C and achieving other sustainable development goals. It assumes that a decrease in the global economy's energy intensity will accelerate at more than twice the rate of 2000–2018. Global primary energy consumption is expected to reach its peak in the near future, with a subsequent decrease by 7% by 2040 against 2018. Global consumption of liquid hydrocarbons and coal will go down by 32% and 61%, respectively, compared with 2018. Gas consumption is projected to increase and then stabilise by 2025–2030,

SCENARIOS

BASE CASE:

the forecast is based on the study of existing energy demand patterns, impact of technological progress, globalisation and the energy policy

LOW-CARBON SCENARIO:

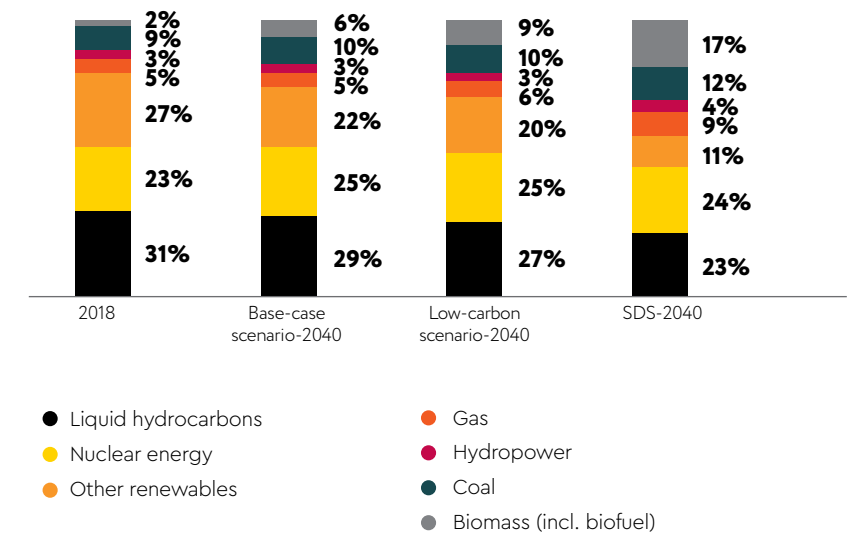
the forecast is based on the assumption that the maximum shift towards low-carbon technologies and renewable energy will not exceed the total effect of national contributions made by the Paris Agreement member countries².

SUSTAINABLE DEVELOPMENT SCENARIO:

the scenario is based on the International Energy Agency forecast on the global power industry development, which seeks to limit global temperature growth to 1.8°C, and achieve other UN Sustainable Development Goals.

after which it will decline by 3% by 2040. The consumption of non-fossil energy in 2040 will increase 2.1 times compared with 2018, with energy consumption from renewable sources growing nearly eight-fold to reach almost 17%. Thus, even under the SDS, with the expected technological and economic limitations, fossil energy sources are projected to remain the backbone of the global energy industry, with their share hitting 58% by 2040, though associated with much lower GHG emissions.

World primary energy consumption³



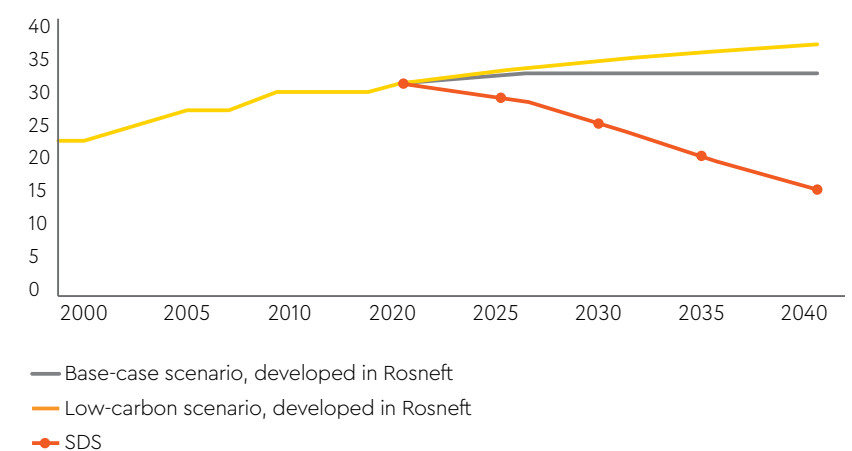
Given the forecast of energy markets and product demand, the Company continues to grow its gas production while also improving the quality and range of its products and marketing more environmentally friendly products.

Carbon Dioxide Emissions

Scenario projections show that global CO₂ emissions are expected to increase under the base-case scenario, while in the low-carbon scenario they will start decreasing after 2030.

The SDS assumes that CO₂ emissions will decrease by over 2.1 times to 2040 compared with 2018.

Global CO₂ emissions from burning fossil fuels, bt CO₂¹



¹ The scenario assumes limiting global warming to 1.8°C above pre-industrial levels by 2100 (66% probability), which is in line with the Paris Agreement goal of holding the increase in the global average temperature to “well below 2°C ... and pursuing efforts to limit [it] increase to 1.5°C.” <https://www.iea.org/commentaries/understanding-the-world-energy-outlook-scenarios>

² Paris Agreement member countries have identified their climate impact mitigation commitments in the form of voluntary national contributions.

³ Sources: actuals – International Energy Agency (IEA), forecast – estimates of Rosneft and IEA.

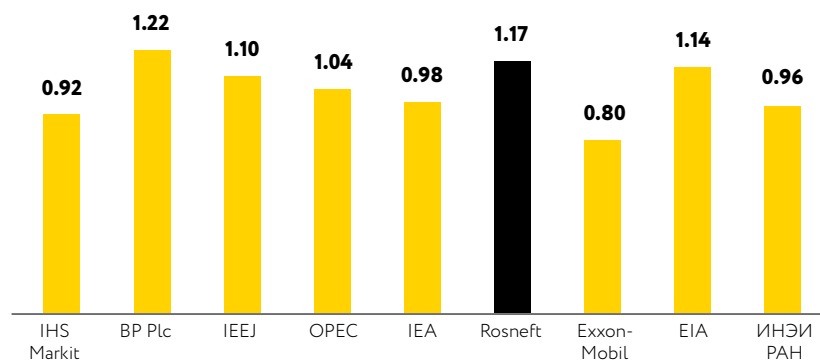


International Agency Forecasts

The comparison of the Company base-case scenario with similar ones from the world's leading agencies and industry peers showed that the Company's projections do not contradict those of international agencies. Our basic forecast takes into account trends in energy demand, consumption and development of energy markets in the coming decades.

According to experts, global energy demand will increase from 18% to 28% by 2040. They assume a 1.0% CAGR for all sources, with the lowest and highest rates of 0.8% and 1.2% projected in the ExxonMobil scenario and the BP and Rosneft forecast, respectively.

CAGR of global primary energy consumption towards 2040¹



¹ The comparative analysis relies on the following basic forecasts from the leading energy agencies and oil and gas producers (company-forecast-source):

IHS Markit. IHS Rivalry Scenario (2019–2040) – IHS Markit // 2019 Energy outlook to 2050.

BP. BP Evolving Transition Scenario (ET) (2018–2040) – BP // BP Energy Outlook 2019.

IEEJ – The Institute of Energy Economics, Japan. IEEJ Reference Scenario (2018–2040) – The Institute of Energy Economics, Japan // Global Energy Supply and Demand Outlook 2019.

OPEC. OPEC WOO (2019–2040) – The only scenario – Organisation of the Petroleum Exporting Countries // 2019 World Oil Outlook 2040.

IEA – International Energy Agency (IEA). IEA Stated Policies Scenario (SP) (2019–2040) – International Energy Agency // World Energy Outlook 2019.

Rosneft Base Case (2019–2040) – Rosneft // Rosneft Energy Outlook 2020.

ExxonMobil (EM). ExxonMobil (2018–2040) – The only scenario – ExxonMobil // 2019 Outlook for Energy.

EIA US – U.S. Energy Information Administration. EIA Reference Case (2019–2040) – U.S. Energy Information Administration // International Energy Outlook 2019.

Energy Research Institute of the Russian Academy of Sciences (ERI RAS), SKOLKOVO Energy Centre. ERI RAS Conservative scenario (2016–2040) – ERI RAS, SKOLKOVO // Global and Russian Energy Outlook 2019.

Climate-related Risks and Opportunities

GRI 102-15 GRI 103-2 GRI 103-3

The Company takes steps to understand potential strategic threats and opportunities associated with climate change and the global energy transition and reviews climate-related risks as part of the annual corporate-wide risk management process. These risks are assessed for possible negative impacts on the Company's strategic indicators. The results are submitted to the Audit Committee of the Board of Directors and the senior management.

When considering the risks and opportunities associated with climate change, the Company is guided by recommendations issued by the Task Force on Climate-related Financial Disclosures (TCFD).

The Company supports climate research and has organised more than 20 large-scale Arctic expeditions since 2012. These provided a much deeper insight into the climate and the environment of this unique region. In 2019, the Kara-Summer 2019 research expedition conducted hydrometeorological observations in the Barents, Kara, Laptev and Chukchi seas, with Atlases of Russian Arctic Seas published following the research.¹ Hydrometeorological and climate information is used to design offshore oil and gas platforms and ensure the safe navigation and operation of these facilities.

Further assessment of physical climate risks in related to the production facilities and activities of the Company will also be done taking into account the National Action Plan adopted in Russia in December, 2019 outlining the first stage of climate change adaptation to 2022.²

OVERVIEW OF POTENTIAL STRATEGIC THREATS RELATED TO CLIMATE CHANGE AND THE COMPANY'S ACTIONS

Introduction of Greenhouse Gas Emissions Charges

- Active participation in the working group on carbon regulation under the Russian Ministry of Economic Development
- Monitoring and analysis of international legislative initiatives related to the regulation of greenhouse gas emissions
- Testing a medium-term business plan using various greenhouse gas emissions charges
- Implementation of the Energy Saving Programme, Gas Investment Programme and the Programme to Monitor and Optimise Losses and Energy Consumption
- Adoption of a corporate target to reduce unit greenhouse gas emissions
- Development and implementation of a carbon management plan

Increase in air temperature and sea level, permafrost thawing, extreme weather phenomena

- Infrastructure design and operation based on hydrometeorological and climate data and production safety measures
- Climate research in the regions of operation

Changes in the structure of energy consumption due to technological breakthroughs

- Monitoring of technologies affecting the global energy mix
- Implementation of the Innovation Development Programme
- Upgrade of the corporate production and energy consumption framework
- Digitalisation and accelerated technical development across operations

Investor and other stakeholder sentiment towards investment in the oil and gas industry

- GHG emission reduction (Gas Investment Programme, Energy Saving Programme and the Programme to Monitor and Optimise Losses and Energy Consumption)
- Transparent disclosure, integration of climate change issues into corporate governance
- Active interactions and communications with the key audiences



For details on our research activities, see the Scientific Research in the Arctic section of this Report.

¹ For details on the Atlases of Russian Arctic Seas, see: <https://www.rosneft.ru/press/news/item/197449>

² Resolution of the Russian Government No. 3183-r dated 25 December 2017.



Achievement of Climate Goals in 2019

Greenhouse gas emissions reduction

The UN Sustainable Development Goal 13 Climate Action is a priority goal for Rosneft. To achieve this goal, the Company runs two large-scale programmes: the Gas Investment Programme focused on reducing APG flaring, and the Energy Savings Programme aimed at curbing GHG emissions by over 8 mmt (CO₂ equivalent) by 2022. [GRI 103-2](#)

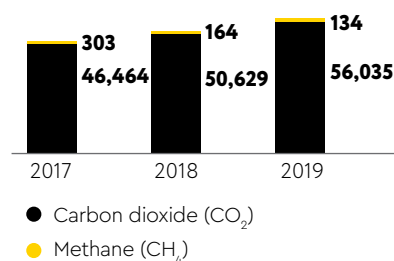
The Company has historically disclosed greenhouse gas emissions as recommended by the TCFD¹.

In 2019, GHG emissions from the Company's operations totalled 81.2 mmt (CO₂ equivalent), with direct emissions² and indirect emissions from electricity and heat procurement accounting for 59.4 mmt and 21.8 mmt (CO₂ equivalent), respectively³. Indirect (Scope 3) emissions from the use of products manufactured by the Company in 2019 were 243.0 mmt (CO₂ equivalent), based on petroleum product sales. [GRI 305-1](#) [GRI 305-2](#) [GRI 305-3](#)

The increase of the absolute emissions in 2019 was largely due to increased flaring of APG at greenfield sites where the APG utilisation infrastructure has not yet been commissioned. [GRI 305-5](#)

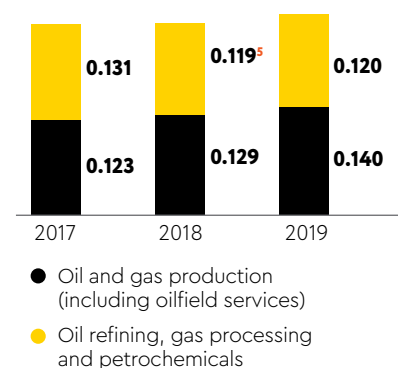
In 2019 Rosneft reduced methane emissions by 18% compared with 2018, with fugitive⁴ emissions in oil and gas production down 73% due to improved processes.

Direct GHG emissions, kt

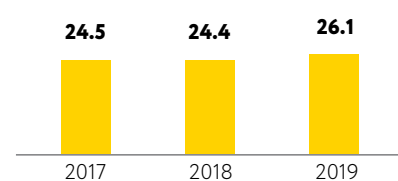


GHG emissions, t CO₂ eq. / ktce

[GRI 305-4](#)



Total Company GHG emissions, t CO₂ eq. / thousand boe



Natural Gas Production

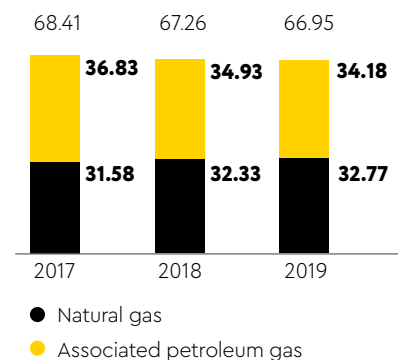
The Rosneft–2022 Strategy targets an increase in gas production to 100 bcm per annum to achieve a 20% share of domestic sales. Expanding the Company's gas production is in line with the global trend of utilising gas as a low-carbon energy source.

The Company has also identified the following strategic objectives related to its gas production:

- Improving the economics of domestic gas sales, among other things by implementing projects on time and budget;
- Improving gas production processes and technological competences.

In 2019, gas production totalled 66.95 bcm, including 32.77 bcm of natural gas and 34.18 bcm of associated petroleum gas, which is generally in line with the previous year's figures.

Natural gas production, bcm⁶



APG Utilisation



"Rosneft places a special focus on improving efficiency of using associated petroleum gas (APG). Bashneft pursues its strategy and made great progress in this area in 2019. At Bashneft-Dobycha, the APG utilisation rate topped 95% with over 40% of the produced APG used in the subsidiary's own processes. Furthermore, Rosneft's Gas Programme enabled the Company to use APG to enhance recovery and generate heat and electricity. 14% of APG produced by Bashneft becomes feedstock for the petrochemical industry."

Sergey Nonyava
CEO, Bashneft-Dobycha

In 2019, the Company continued to implement its Gas Investment Programme. Capital investment in the construction of gas infrastructure exceeded RUB 22 bln. One of the key investment areas is the utilisation of Associated Petroleum Gas (APG).

The programme to increase APG utilisation helps to reduce GHG emissions (both CO₂ and CH₄) through reduced flaring, and improves the air quality in producing regions. Actions include the use of cutting-edge technologies that allow for gas injection to maintain reservoir pressure, its accumulation in underground storage facilities for further use, and utilisation for electricity generation and supply to processing plants and consumers.

As at the end of 2019, the APG utilisation rate averaged 93.8% for mature assets (up 1.0% year-on-year), and 77.8% including fields under development (Suzunskoye and Srednebotubinskoye) and greenfield projects at early stages of development (Tagulskoye, Vostochno-Messoyakhskoye, Yurubcheno-Tokhomskoye, Severo-Komsomolskoye, and Trebs and Titov).

In 2019, the Company's capital investment in the construction of gas infrastructure exceeded

**>22
RUB bln**

Rational use of APG [GRI OG6](#)

Period	2017	2018	2019
APG utilisation capex, RUB bln	20.1	16.3	21.5
APG production in Russia (resource), bcm	41.6	41.8	44.3
APG production in Russia, excluding flared gas (use), bcm	37.1	35.3	34.5
APG utilisation rate, %	89.2	84.4	77.8 ⁷

¹ The established targets for reducing greenhouse gas emissions cover the entire perimeter of the Company in line with the recommendations of the Task Force on Climate-Related Financial Disclosures (TCFD).

² Scope 1 as defined in the GHG Protocol Corporate Accounting and Reporting Standard developed by the World Business Council on Sustainable Development (WBCSD) and World Resources Institute (WRI).

³ Scope 2 as defined in the GHG Protocol Corporate Accounting and Reporting Standard developed by the World Business Council on Sustainable Development (WBCSD) and World Resources Institute (WRI).

⁴ Atmospheric CH₄ and CO₂ emissions from stationary and fugitive sources resulting from production, transportation, storage and processing of oil and natural gas (see Order No. 300 of the Russian Ministry of Natural Resources and Environment dated 30 June 2015).

⁵ The 2018 metric was adjusted following the update on fuel consumption by certain Group Subsidiaries.

⁶ Excluding flared gas and gas used in liquid hydrocarbon production.

⁷ Including fields under development and greenfield projects at early stages of development.



A year-on-year reduction in the APG utilisation rate in 2019 was due to:

- An increase in APG production at greenfield sites (Suzunskoye, Tagulskoye, Vostochno-Messoyakhskoye, Yurubcheno-Tokhomskoye, Severo-Komsomolskoye, and Trebs and Titov) where the gas infrastructure is still under construction;
- Oil production cuts at Brownfield sites as part of the Company's commitment under the OPEC+ agreement and limited oil acceptance by Transneft's Druzhba pipeline.

In planning new developments and greenfield infrastructure, Rosneft fully integrates the required solutions at the engineering and design documentation stage to maximise APG utilisation.

In 2019, the Company completed the construction of 23 APG utilisation facilities, including:

- 18 MW gas turbine power plant commissioned at Kondaneft's Zapadno-Erginskoye field;
- A compressor station and a vacuum compressor station at the Dvurechenskoye field operated by Tomskneft VNK;
- A compressor station at the Pravdinskoye field; a low-stage compressor station at the Malobalykskoye field; and a low-stage compressor station at well pad 354 of the Priobskoye field operated by RN-Yuganskneftegaz;

- Other APG gathering, treatment and transportation facilities.

In 2020–2024, the Company plans to complete the construction and commissioning of natural gas power plants and injection facilities at the Yurubcheno-Tokhomskoye, Srednebotuobinskoye, and Trebs and Titov fields. These projects are crucial for delivering on the strategic goals of increasing APG utilisation and reducing GHG emissions.

KEY ACHIEVEMENTS UNDER APG UTILISATION IMPROVEMENT PROJECTS IN 2019

Bashneft-Dobycha achieved a 95% utilisation rate

RN-Vankor delivered the 30 billionth cubic meter of gas to the Unified Gas Supply System of Russia after the launch of the Vankor field

Energy Saving and Energy Efficiency

Rosneft is one of Russia's major consumers of fuel and energy resources. Its Energy Saving Programme includes initiatives that help reduce energy consumption and cut GHG emissions in the following business segments:

- In oil and gas production by using energy efficient equipment and optimising the operation

of artificial lift and ground infrastructure;

- In oil refining, gas processing and petrochemicals by optimising thermal processes and electrical load and enhancing fuel efficiency;
- In marketing and distribution and in-house services by using energy saving technologies and equipment in supplying heat and electricity to production and administrative facilities.

Rosneft's energy efficiency performance has improved by 14% over the past two years, which helped prevent 3.1 mmt CO₂-equivalent emissions.



For details on energy saving and energy efficiency, see the R&D and Digital Transformation chapter of the Energy Saving and Energy Efficiency section.

Climate Cooperation

Paris Climate Agreement

The Paris Agreement

The Paris Agreement was adopted in December 2015 at the 21st session of the Conference of the Parties to the UN Framework Convention on Climate Change held in France. Its purpose is to hold global average temperature increase "well below 2°C above pre-industrial levels, pursue efforts to limit the temperature increase to 1.5°C above pre-industrial

levels", and achieve a balance between anthropogenic emissions by sources and removals by sinks of greenhouse gases in the second half of this century. 189 Parties have ratified or acceded to the Agreement¹. Together with governments, more than 18 thousand representatives of cities, regions, the business and the civil society participate in implementing the Paris Agreement².

Rosneft is a party to the UN Global Compact and supports the government's efforts at the national level following the ratification of the Paris Agreement in September 2019.

The Company's contribution to reducing greenhouse gas emissions and adapting to climate change will assist the Russian Federation in meeting its commitments under the Paris Agreement.

Stakeholder Engagement on the Climate Agenda GRI 103-3

The global scale of the climate action calls for an extensive cooperation at the national, international and industry levels.

The Company actively interacts with government agencies and sits on various interdepartmental consulting and coordinating bodies on climate change, including:

- The Interdepartmental Working Group on the Economic Aspects of Environmental Protection and Regulation of Greenhouse Gas Emissions under the Ministry of Economic Development;
- The Working Group on Energy and Environment of the Interdepartmental Commission to Support Russia's G20 Participation under the Ministry of Energy;

- The Working Group on Energy Efficiency and Greenhouse Gases of the Committee on the Energy Strategy and Fuel and Energy Development under Russia's Chamber of Commerce and Industry.

In 2019, Rosneft and the Ministry of Natural Resources and Environment signed a cooperation agreement to implement the climate action agenda as part of the national Environment project.

Rosneft pays great attention to reforestation, thus improving biodiversity, reducing our environmental footprint and supporting the removal of CO₂ from air.

In 2019, the Company's subsidiaries planted around 1 million trees as part of forest restoration initiatives, including around 5 thousand trees as part of the Green Spring-2019 nationwide clean-up campaign.



For details on the cooperation with the Ministry of Natural Resources and Environment, see the Preservation of Biological Diversity of this Report.

On the industry level, Rosneft joined forces with BP and Equinor to support efforts to take action on climate change as part of environmental protection working groups.

¹ United Nations Framework Convention on Climate Change, данные по состоянию на 09 июля 2020 года: <https://unfccc.int>

² The Non-state Actor Zone for Climate Action (NAZCA): <https://climateaction.unfccc.int>



Joining the Guiding Principles on Reducing Methane Emissions across the Natural Gas Value Chain

Minimising emissions is the key priority of the Rosneft–2022 Strategy. We aim to become one of the global energy companies with the lowest carbon footprint and rank in the first quartile among global peers in terms of unit GHG emissions. To achieve this goal, we also focus on reducing methane emissions from our operations. These emissions can contribute over 28 times the atmospheric warming of carbon dioxide.

In 2019, we joined the Methane Guiding Principles industry initiative, to show our commitment to strengthening industry partnerships on methane management. Other participants from among oil and gas companies include BP, Equinor, Eni, ExxonMobil, Shell, Total, and Gazprom. Eric Liron, Vice President for Internal Services at Rosneft, is Rosneft's representative on the Steering Committee of this partnership initiative.

This industry partnership will enable the parties to share best practices in methane management, align metrics and reporting, apply detection and quantification technologies and harmonise approaches to the global methane policy. The Company and other industry players also agreed on a number of actions related to remote identification of methane sources, development of methane intensity indicators and workforce training in methane management. In 2020, we plan to have the Reducing Methane Emissions Best Practice Guides translated into Russian, with training to be provided to both management and field specialists.



“In 2019, Rosneft signed the Guiding Principles on Reducing Methane Emissions across the Natural Gas Value Chain – an initiative of oil and gas majors. We will continue to implement advanced technologies, including those allowing for remote methane detection, quantification, and leakage prevention. We will also organise relevant training for our staff. As one of the world's largest hydrocarbon producers, Rosneft understands the contribution of anthropogenic sources of methane to climate change impacts and will do its part to reduce methane emissions from its operations.”

Eric Liron

Vice President for Internal Services, official Rosneft representative in the Steering Committee of the Methane Guiding Principles

GUIDING PRINCIPLES ON REDUCING METHANE EMISSIONS ACROSS THE NATURAL GAS VALUE CHAIN²



Continually reduce methane emissions



Advance strong performance across gas value chains



Improve accuracy of methane emissions data



Advocate sound policies and regulations on methane emissions



Increase transparency

Carbon Resilience Ratings

Rosneft's efforts in sustainable development and carbon management received high recognition from national and international rating agencies.

CDP Rating

CDP (formerly the Carbon Disclosure Project) is the most reputable non-profit organisation that assesses the processes and initiatives in managing a company's carbon footprint and resilience to climate related risks, as well as its forest and water stewardship, and energy transitioning. Following an independent assessment, Rosneft received a “B” rating in the Climate Change category¹.



In 2019, Rosneft received a “B” CDP rating in the Climate Change category, which is the best score among Russian oil and gas producers and two notches higher than the average score of European members.



For details on the Company's ESG ratings, see the Strategic Vision of Sustainable Development section of this Report.



Our ESG news is posted on the Company's official website.

“Commersant Initiatives Award” in the Environment Category

In 2019, Rosneft's large-scale project to reduce APG flaring won an annual “Commersant Initiatives Award” in the Environment category. In the past five years, Rosneft has made APG utilisation one of its top environmental priorities, with relevant investments exceeding RUB 125 bln.



¹ For details see: <https://www.rosneft.com/press/news/item/195339/>

² Подробнее о Руководящих принципах на сайте инициативы: <https://methaneguidingprinciples.org/methane-guiding-principles/>

¹ CDP works with 525 institutional investors managing USD 96 trillion worth of assets. In 2019, over 8.4 thousand companies, including 62 from Russia, with more than 50% of the global market capitalisation disclosed environmental data through CDP. www.cdp.net

² For details on the Commersant Initiatives Award, see <https://www.rosneft.ru/press/news/item/198031/>



#3

ENVIRONMENTAL CONSERVATION



"Rosneft focuses on minimising environmental impacts during the design of new projects and applying best available technologies using our green investment programme to continuously improve the environmental performance of existing facilities.

The Company also works closely with stakeholders to support resource conservation and biodiversity protection across its operations to align with its sustainable development commitments."

Christoph Nehring

Vice President for Health, Safety and Environment at Rosneft

Rosneft implements a series of measures aimed at preserving and restoring forests. In 2019, the Company planted about 1 mln seedlings. For details, see [p. 84](#)

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Managing Our Environmental Impacts

The Company has the dual accountability of providing energy to global populations to drive socio-economic development as a means of improving the quality of life for many, while being guided by the principles of sustainable development.

As a member of the United Nations Global Compact (UNGC), Rosneft has committed to support the achievement of the United Nations Sustainable Development Goals (UN SDGs) with its environmental protection activities and initiatives linked to the following UN SDGs: **GRI 103-1** **GRI 103-2**

- SDG 3 – Good health and well-being
- SDG 6 – Clean water and sanitation
- SDG 11 – Sustainable cities and communities
- SDG 12 – Responsible consumption and production
- SDG 13 – Climate action
- SDG 14 – Life below water
- SDG 15 – Life on land
- SDG 17 – Partnership for the goals.

The Company therefore works to identify and avoid or minimise any negative impacts to the environment from its activities as part of this commitment to maintaining sustainable operations.

One of the most important areas of this work is the interaction and cooperation with key stakeholders including local communities, state authorities, environmental organizations and scientific institutions to incorporate feedback, recommendations and sound scientific guidance for carrying out the Company's projects and activities.

Rosneft has also developed its 2022 environmental goals based on the ongoing implementation of its 2025 Environmental Efficiency Improvement Programme. This programme consists of four focus areas each with an annual delivery plan with actions across all Group Subsidiaries.

The implementation of improvement actions to achieve environmental goals is carried out within an Integrated HSE Management System (IMS), which has been in place across Rosneft and Group Subsidiaries since 2006¹.

In 2019, this HSE IMS was again independently assessed as being in conformance with the requirements of ISO 14001:2015 "Environmental Management System".

The requirements of the HSE Integrated Management System (IMS) apply to all Group Subsidiaries and employees as well as to contractors working at the Company's production facilities. Employees are trained to improve their knowledge and understanding of the ISO 14001:2015 requirements.

Across the Group, the selection of subsidiaries to be certified against the requirements of ISO 14001:2015 is based on the specific type of business activities. The criteria include the nature of environmental risks, as well as the requirements of investors, partners, customers and other stakeholders. The number of certified companies within the Group increases annually increased from 57 to 63 in 2019.

When planning and implementing production processes, Rosneft is guided by the principles of sustainable use of natural resources as well as reducing the level of environmental impact. These principles are enshrined in the Company's Policy on Health, Safety and Environment.



Rosneft's Policy on Health, Safety and Environment is available on the official website of the Company

Environmental Protection Monitoring **GRI 103-3**

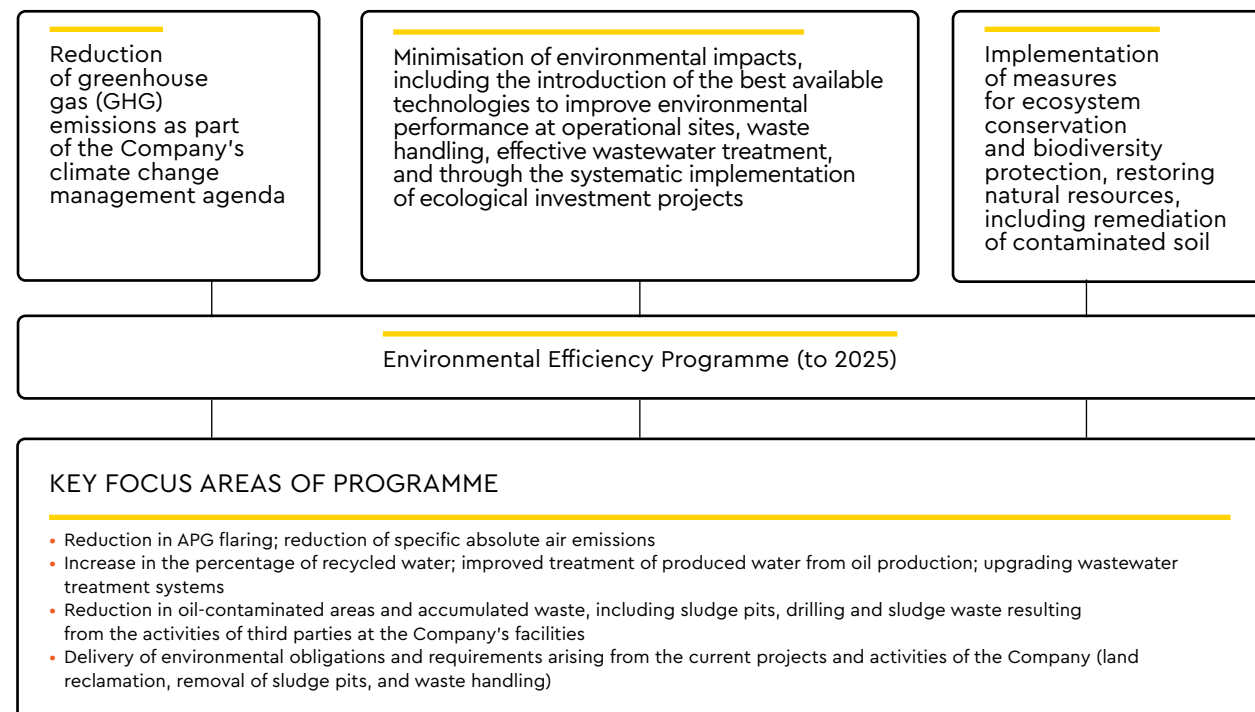
In accordance with the legislative requirements of the Russian Federation, evaluation of potential environmental impacts is required when planning business activities including the nature and frequency of impact to ecosystems and biodiversity, including animals, birds, fish, and flora. At each stage in the project life cycle, compliance with applicable international, national and regional legislation is monitored including those processes conducted by contractors for Rosneft.

Across various levels of the Company, from special divisions to top management, performance against the Company's environmental goals is reviewed to determine the level of progress achieved and to identify risks to delivery. This review of environmental performance trends, external and internal risk factors and best international practices guides decision-making at management levels.

The Company continually invests in professional and technical capability development of its environmental specialists, keeping informed of changes in environmental regulation and discussing the most urgent environmental issues. One of the mechanisms for these discussions is through an annual corporate environmental congress which is attended by prominent experts and key stakeholders.

The Company carries out monitoring to assess the effectiveness of environmental controls and to determine the level of actual environmental impact. This is done by conducting field measurements to analyse air emissions and the quality of surface and ground water, as well as to monitor potential impacts to soil and biodiversity, including the preservation of animal migration routes.

ROSNEFT'S 2022 ENVIRONMENTAL GOALS



¹ The HSE Management System is regulated by the Company's Standard on Integrated Health, Safety, and Environment System No. P3-05 S-0009, version 3.00, approved by resolution of Rosneft's Management Board and put into effect by order No. 647 dated 16 October 2018.



Congress of Ecologists

In December 2019, Rosneft hosted the 6th annual Congress of Ecologists. It was attended by environmental leaders and specialists from the corporate office and from 135 Group Subsidiaries, as well as representatives of Rosneft's international partners – Equinor and BP.

During eight thematic sessions, presentations were made on the key aspects of environmental

management activities of the Company. A special session on carbon management was held and included discussions on climate-related risks; a carbon management framework for the Company and best practices for managing emissions from associated petroleum gas (APG) flaring and reducing methane emissions.

As part of the Congress, a Technology Conference was also held where emerging technologies

and best practices were presented for waste management (recycling), drilling waste injection and beneficial uses for drilling and oil refining waste by both the Company itself and third parties.

A number of proposals to improve environmental practices at operational sites and to assist decision making on the management of emerging environmental risks were developed from the Congress.



Environmental Cooperation

Rosneft collaborates with state authorities to assess the impact of draft regulations on environmental management. The Company actively participates in a number of discussions within coordinating bodies of the federal government and public organizations. These organizations include the Scientific and Technical Council of Rosprirodnadzor and the Working Group on Energy

and Ecology of the Interdepartmental Commission for participation of the Russian Federation in the Group of Twenty (G20), etc.

In 2019, Rosneft and the Ministry of Natural Resources and Environment of the Russian Federation signed a cooperation Agreement to support a number of environmental projects under the framework of the national Environment project.



For details on this cooperation Agreement with the Ministry of Natural Resources and Environment of the Russian Federation, see the section Preservation of Biological Diversity.



In December 2019, Rosneft and the Ministry of Natural Resources and Environment of the Russian Federation signed a cooperation Agreement to support a number of environmental projects under the framework of the national Environment project.

Environmental Protection Investments

Every year, the Company invests in reducing environmental risks through its 'green investments' programme which targets both long-term capital construction projects aimed at environmental protection and projects which reduce environmental impacts from existing operations. As part of implementation of the Rosneft-2022 Strategy, around RUB 300 bln have been allocated to these 'Green investments' to drive improvements.

During the period from 2020 to 2022, Green investments will represent around 7% of the Company's annual capital expenditure. **GRI 307-1**



Management system

- Target indicators of the Rosneft-2022 Strategy in ecology defined.
- Ecological indicators are integrated into the Company's management system and included in annual

KPIs of top managers and middle managers.

- Activities to achieve the Environmental goals are integrated, planned and funded under the Environmental Efficiency Improvement Programme.



Programmes, CAPEX events¹

- Gas Investment Programme.
- Energy saving programme.
- Pipeline Reliability Enhancement Programme.

- Investment projects to build infrastructure facilities for improving environmental performance



OPEX Events²

- Land remediation.
- Oily waste management.

- Development of environmental protection documentation and obtaining environmental permits.

Over the last three years, Rosneft has completed a number of major environmental projects, including those actively rolled out as part of the Year of Environment in 2017. This, coupled with rescheduling of some projects under the Gas Investment Programme, contributed to reducing the volume of green investment as at the end of 2019.

Investments in environmental protection, RUB mln **GRI 307-1**

Period	2017	2018	2019
Investments in fixed assets for environmental protection	67,240	45,605	34,544
Current environmental protection opex	28,642	31,697	29,244
Payments to budgets at all levels related to environmental protection and ecological management, including:	4,199	4,741	4,338
Environmental permits	913	1,159	1,348
Environmental compensation	1,705	1,040	1,296
Accumulated fines for environmental pollution	258	290	200
Non-financial sanctions, number of cases	0	1	0



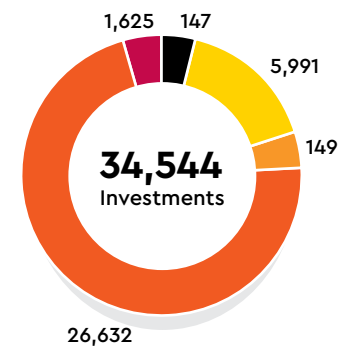
Fines related to environmental impact decreased by 31 % compared with 2018 showing the improvement in meeting compliance with environmental legislation.

In 2019, investments in R&D linked with environmental improvements totalled RUB 242.7 mln.

Rosneft has introduced an innovative project for the development of a corporate hydrogeological information system. This is expected to become a comprehensive solution for planning the withdrawal and use of groundwater as well as for monitoring and minimizing the impact on underground water bodies. This will improve the efficiency

of production processes and drive the implementation of measures aimed at the conservation of groundwater, Rosneft is also developing a number of technologies to increase water-flooding efficiency and reduce the volume of water required to maintain formation pressure. For example, a target innovative project is currently underway to develop high-viscosity oil reserves of the Pokurskaya suite formations in Western Siberia. To this end, the Company is developing polymer flooding technologies which can potentially reduce reused water consumption by more than a half.

Investments in fixed assets for environmental protection, RUB mln



- Targeted Ecological Programmes
- Capital construction of facilities related to environmental fixed assets
- Materials and equipment
- Associated investments
- Other



THE COMPANY IMPLEMENTS NEW TECHNOLOGIES FOR INTEGRITY CONTROL, INCLUDING THE USE OF UNMANNED AERIAL VEHICLES TO MONITOR REMOTE SECTIONS



Reducing Air Emissions

One of the priority areas of Rosneft's environmental agenda is to reduce air quality impacts resulting from air emissions released during operational activities.

The Company achieved a 3% reduction in non-GHG emissions in 2019.



For more information on this subject, see the Climate Action chapter

In addition to its contribution to greenhouse gas reductions by decreasing the quantity of APG that is flared, the Gas Investment Programme also contributes to the reduction of other gaseous emissions into the atmosphere.

GRI 103-1 **GRI 103-2**

As part of the Gas Investment Programme, three compressor stations were completed at RN-Yuganskneftegaz.

Also, in 2019, work on the construction of a gas treatment unit in the East Urengoy licence area continued under an Agreement between Rosneft, the Russian Ministry of Natural Resources and Environment, and Rosprirodnadzor, at a cost of more than RUB 11 bln. This construction is planned to be completed and commissioned in Q4 2020.

In oil refining, gas processing and petrochemicals, atmospheric emissions decreased by 1% due to the implementation of a number of controls including installation of pressurised aluminium internal floating roofs on tanks at Syzran Refinery and Novokuibyshevsk Refinery. In 2019, floating roofs were mounted on three tanks. It is planned to install another eight vertical steel tanks with floating roofs in 2020.

Last year, the Company continued the construction of a desulphurisation plant and production of granular sulphur as part the construction of the hydrocracking complex at Achinsk Refinery. The open oil separator of the reverse water supply system at Saratov Refinery was sealed in December 2019 to reduce emissions by 85 tonnes/year.

3 %
reduction in non-GHG air
emissions in 2019

Structure of non-GHG emissions into atmosphere¹, kt **GRI 305-7**

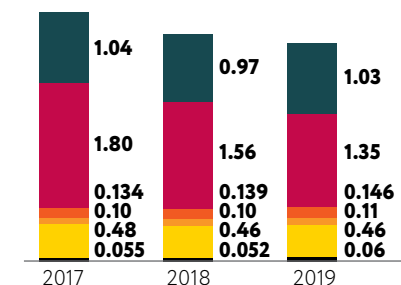
Period	2017	2018	2019
Gross air emissions, including:	1,846	1,835	1,773
solids	82	87	85
sulphur dioxide (SO _x)	87	86	86
carbon monoxide (CO)	743	822	841
nitrogen oxide (NO _x)	57	60	66
hydrocarbons (without volatile organic compounds)	500	379	303
volatile organic compounds	355	391	384
benz(a)pyrene	0.00003	0.00002	0.00002
other	22	9	8

¹ Сумма цифр может не совпадать с общим итогом вследствие округления.



Overall across air emissions, there were significant reductions in non-VOC hydrocarbons (20%); benz(a) pyrene emissions (18%) and other air emissions (12%) but increases in the emissions of carbon monoxide and nitrogen oxides because of greater quantities of flared APG (for details see chapter Climate Action).

Specific air emissions by type, t/ktce



Specific SO₂ emissions

- oil and gas production
- oil refining, gas processing and petrochemicals

Specific NO_x emissions

- oil and gas production
- oil refining, gas processing and petrochemicals

Specific hydrocarbon emissions (including volatile organic compounds)

- oil and gas production
- oil refining, gas processing and petrochemicals



Conserving Water Resources

The environmental efficiency improvement programme drives an increase in the percentage of recycled water, improvements in the treatment of produced water from oil production as well as upgrades of wastewater treatment systems. [GRI 103-1](#) [GRI 103-2](#)

Rosneft complies with regulations on the use of water resources, and the Company takes measures to protect fresh water bodies by increasing the efficiency of water usage; employing best available treatment technologies for produced water; increasing the percentage of recycled and re-used water and introducing modern wastewater treatment systems.

The Company assesses environmental risks, including water resource risks. The assessment methodology is based on the ISO 31000 standard; baseline conditions of water bodies and ecosystems in regions of the Company's footprint, and laws of the Russian Federation. In 2019, among risks related to water bodies, the assessment identified accidental pollution risks, including risks of pipeline failure. To mitigate the risks, comprehensive management solutions are being implemented including the reconstruction, overhauls, diagnosis, inhibition and cleaning of pipelines.

Most of the Company's operations are carried out in areas with sufficient fresh-water resources, though some international operations are in areas of water stress, as classified by the Aqueduct programme. Despite this, the actions taken to reduce demand and conserve fresh-water are similar whether the region is classified as water scarce or not. Within the Russian Federation, access to water bodies for direct or indirect use by the Company is carried out in accordance with the country's legislation and approval of local regulatory bodies.

[GRI 303-2](#)



For details on the Company's support of regional initiatives for providing locals with fresh water, see chapter Community Engagement.

Rosneft strives to minimise the water resources consumed, used and discharged to reduce the impact on the aquatic environment and ecosystems in the areas where the Company operates.

The Company ensures that it does not violate the right of any local inhabitants and other stakeholders to fresh-water access and also invests in a number of infrastructure initiatives to improve the local water supply in support of regional populations in areas of its footprint.

In Brazil, RN-Brazil, a Rosneft subsidiary, there are strict operational controls to ensure the sources of water withdrawn and the quality of waste-water discharged are in compliance with local discharge regulations. The monitoring of waste-water discharges from these operations confirm that there is no adverse impact on the Amazon river system.



Rosneft was ranked among the best oil and gas companies in the Water Resources category of the Global CDP Rating.





Water Consumption

In 2019, fresh water consumption increased by 3% compared with 2018. This was mainly due to an increase in water withdrawn from surface sources.

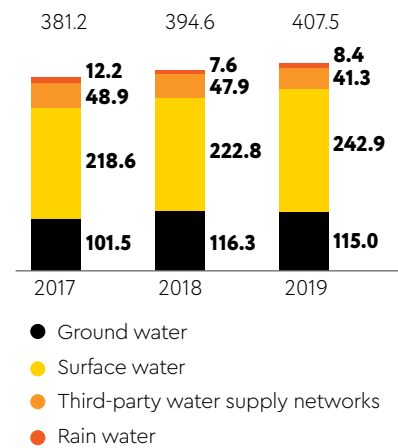
IGroup Subsidiaries reduced water consumption and water withdrawal from natural sources by implementing the following improvements:

- Treatment and reuse of water from individual petrochemical plants of Angarsk Petrochemical Company and section No. 1 of CHP-9 of Irkutskenergo;
- Increase in the share of recycled and reused water for the Kuibyshev Refinery and reconstruction of Volga water conduit sections;
- Reduction of the water intake due to the recycled water supply of produced water by RN-Severnaya Neft;
- Installation of water meters for the purpose reducing water consumption.

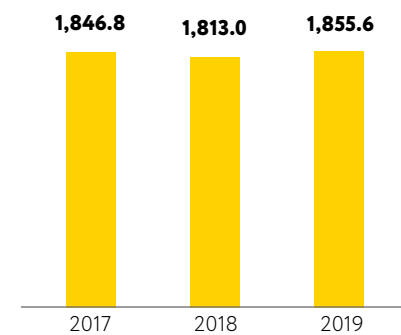
The increasing volume of water-use is due to the associated increase in production and in addition higher withdrawal rates to maintain reservoir pressure.

Fresh water withdrawal, mmcm

GRI 303-1

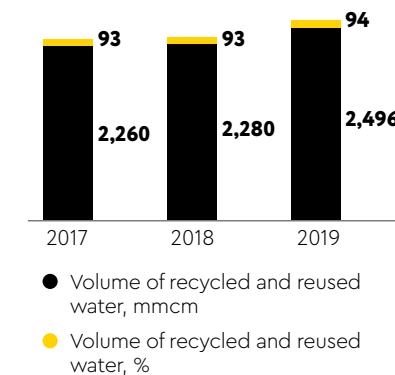


Use of water from all sources, mmcm



The volume of reused water increased by 9% year-on-year to 2,496 mmcm due to improvements in the quality of wastewater treatment and the upgrades of waste-water systems.

Volume of recycled and reused water GRI 303-3



>90 %

of water used in the Company's operations was reused and recycled, minimising Rosneft's fresh water intake

The volume of reused water was up

9 %

year-on-year

Water Disposal

The most significant potential impact from waste-water discharges is from their discharge into surface water bodies with around 68% of the Company's total water discharges into these systems in 2019. To minimise this potential impact, the Company has implemented a series of improvement measures including investments in the upgrade of treatment facilities at the Company's refineries. These include:

- Construction of a unit for neutralising acidic and alkaline effluents at the Kuibyshev Refinery;

- Reconstruction of mechanical and biological wastewater treatment plants at the Ryazan Refinery.

The total costs for the modernisation of treatment facilities at the Company's refineries in 2019 exceeded RUB 626 mln with the Company making good progress in this area by:

- Increasing the volume of water disposed for reuse into the network of other organisations by 16%;
- Decreasing domestic wastewater disposed by 5%;

- Decreasing disposal of industrial effluents to surface water bodies by 4%;
- Decreasing contaminated wastewater discharges by 4%.

Contaminated wastewater discharges in 2019 reduced by

4 %

Formation water treatment

Period	2017	2018	2019
Total produced water, mmcm	1,587.8	1,588.1	1,658.3
Injection into formation without treatment, mmcm	26.5	13.6	189.3
Injection into formation with treatment, mmcm	1426.0	1471.6	1356.2
Disposal of formation water, mmcm, including:	98.4	97.7	110.04
discharge into formations	98.4	97.7	110.02
discharge into soils	0.043	0.054	0.026
Total hydrocarbons in waste formation water, kt	16.54	22.36	17.63

Total water disposal, thousand cub m GRI 306-1

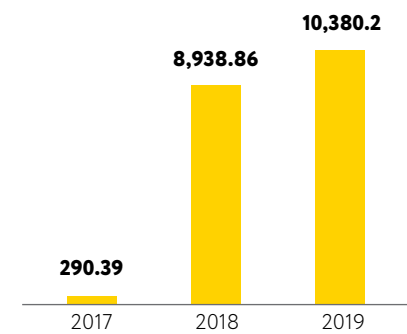
Period	2017	2018	2019
Domestic wastewater discharges	75,731	74,937	71,511
Industrial wastewater discharges, including:	193,161	186,883	184,366
into surface water bodies	133,192	127,904	122,666
into formations	59,870	58,881	61,654
into soils	99	98	45

Industrial wastewater discharges, thousand cub m GRI 306-1

Indicator	2017	2018	2019
Standard-treated and standard-clean wastewater	110,152	108,715	109,060
Polluted and insufficiently treated wastewater	83,009	78,168	75,305



Wastewater discharges into third-party networks for reuse, thousand cub m **GRI 306-1**



A number of measures for the construction and reconstruction of wastewater treatment plants in the Group Subsidiaries were implemented in accordance with the tripartite Agreement concluded between Rosneft, the Russian Ministry of Natural Resources and Environment, and Rosprirodnadzor as part of commitments made in 2017 – the Year of the Environment.



IN 2019, THE BASHNEFT-UFANEFTEKHIM BIOLOGICAL TREATMENT PLANT COMPLEX REACHED ITS DESIGN THROUGHPUT TARGETS.

WATER CONSERVATION PROJECTS UNDER THE AGREEMENT ON COOPERATION WITH THE MINISTRY OF NATURAL RESOURCES OF RUSSIA AND ROSPRIRODNADZOR

reconstruction of the unified complex of biological wastewater treatment plants at Bashneft-Ufaneftekhim (commissioned)

construction of a complex of facilities for the disposal of treated wastewater from the Valanginian deposit of the Vostochno-Urengoy sky licence area (startup in progress)

construction of a post-treatment unit at the existing treatment facilities of Novokuibyshevsk Refinery (commissioned)

construction of local treatment facilities and cooling water supply unit for additive production at Novokuibyshev Oils and Additives Plant (commissioned, startup in progress)

construction of a wastewater treatment plant for industrial and storm sewage on the left bank of RN-Morskoi Terminal Tuapse (to be completed in 2023)

reconstruction of a sewage treatment plant of production and storm sewage discharged into the Nobitsky bay (to be completed in 2026)

This facility has a capacity of 84 thousand cub m per day and has reduced the volume of water intake from water bodies by 250%. This is not only one of the key environmental investment projects of the Company but also the largest facility in Eurasia among those implemented using membrane bioreactor technology. Biological treatment facilities can significantly improve the quality of wastewater treatment, as well as increase the use of purified water in technological processes.



For details on regional initiatives to improve water supply, see the Supporting Social and Economic Development of the Regions section

Rosneft received a "B-" rating in the "water resources" category of the international CDP ranking

In 2019, Rosneft received a «B-» rating based on its CDP Water submission (previously Carbon Disclosure Project). A total of 2,435 companies were rated from their submissions in this category including 109 oil and gas companies from 28 countries. Rosneft's rating is equivalent to the global international average ranking among global oil and gas majors and showed that the company's water conservation activities were continuing to identify and manage water scarcity risks.

According to the United Nations, fresh water accounts for only 2.5% of total water resources and by 2030 global water scarcity can reach 40%. In this context, the CDP rating in the water category is becoming increasingly important to investors. It also stimulates companies, financial markets and governments to ensure continued growth without compromising fresh water supplies and to assess water scarcity when making project investments. Also, Rosneft implements a number of infrastructural initiatives to improve the local water supply in support of regional populations in areas where the Company operates. **GRI 103-3**



Prevention of and Response to Oil Spills

The Company assesses the extent of its ecological footprint across the areas where it operates and, as a result, takes a number of actions to both prevent oil spills, as well as to reduce the severity of environmental impacts if any spills occur.

The existing corporate Oil Spill Response System is designed to mitigate potential environmental impacts. Rosneft strictly adheres to a policy of immediate and transparent reporting and closely cooperates with relevant state authorities. **GRI 103-3**

and the first phase resulted in a 30% decrease in the rate of pipeline failures compared with 2013. The volume of oil spilled from pipeline failures across the Company also reduced by 2% in 2019.

The total volume of spilled oil across the Company showed a continuous reduction from 2017 to 2019.

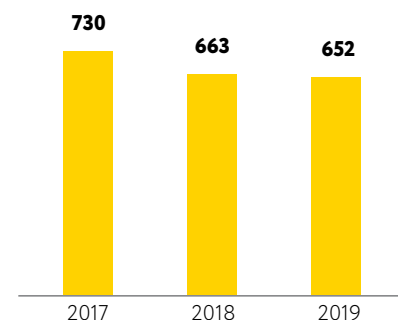
The Syzran Refinery has commissioned a digital system for monitoring pipelines. This digital equipment allows operational personnel to accurately identify the location of pipeline ruptures and halt the pumping of hydrocarbon products if any failure is detected.

A number of measures were taken to improve the reliability of production facilities and equipment. These include:

- Improvement of the corporate system for the localisation and elimination of oil and petroleum product spills;
- Completion of the Pipeline Reliability Enhancement Programme for 2015–2019;

This Programme is now in its second 5-year phase from 2020 to 2025 and covers the activities of 28 Group oil and gas producing subsidiaries. It uses a risk-based approach aimed at ranking and identifying critical processes with potentially high environmental impact. It targets over 120 thousand km of the Company's pipeline network

Total volume of spilled oil and oil products across the Company, tonnes **GRI 306-3**



Rosneft actively cooperates with its international oil and gas strategic partners, BP International and Equinor, with the aim of sharing experience and best practices as well as application of best available technologies for preventing oil spills. In April 2019, a three-day workshop on best practices in the area was conducted jointly with BP International.



“RN-Yuganskneftegaz prioritises environmental safety and protection and invests in state-of-the-art equipment and sustainable technologies. Daily 24-hour drone monitoring has become an important step towards improving the reliability of production facilities, primarily pipelines. They currently cover all field pipeline transport network of the asset. This improved the ability to detect process upsets and incidents, and significantly reduced response times. It also enhanced monitoring of protected areas of the Company's assets.”

Igor Tabachnikov
CEO, RN-Yuganskneftegaz



For details on the Pipeline Reliability Enhancement Programme, see the Equipment Integrity section of this Report



Land Remediation and Waste Management

Land Remediation

When planning and executing production activities, the Company strives to improve its environmental performance and reduce potential environmental impacts, taking the necessary measures to remediate any disturbed or contaminated land and using the most applicable waste treatment technologies. **GRI 103-1** **GRI 103-2**

The Company has a Remediation and Waste Management Standard in place to regulate land remediation, sludge pits and waste handling. Timely implementation of these procedures is one of the goals of the Environmental Efficiency Improvement Programme.

In 2019, these measures resulted in a 14% reduction of the contaminated land area compared with 2018.

The rate of land remediation decreased in 2019 due to new legislative changes and the enactment of Decree No. 800 of the Government of the Russian Federation of 10 July 2018 (as amended on 7 March 2019) On Land Reclamation and Conservation”, which introduced new approval requirements and permits for land remediation projects. Nevertheless, the Company continued its efforts and progress towards reducing the area of contaminated land.

Area of contaminated lands, ha **GRI 304-1**

Period	2017	2018	2019
Area of contaminated land at the beginning of the year	3,617	3,738 ¹	3,219
Area of contaminated land specified during the pre-project survey	306	123	183
Newly contaminated land	321	204	232
Area of contaminated land at the end of the year	3,348	3,219	2,710
Area of natural restoration of disturbed lands	157	86	202
Area of remediated land	19,866	19,001	17,471

¹ Data for 2018 reflect the area of land contaminated by bottom water.



Land Remediation in the Khanty-Mansi Autonomous Area

The Khanty-Mansi Autonomous District – Yugra is strategically important to Rosneft's activities. The Group Subsidiaries that operate in this region strive to reduce their environmental impact and coordinate annual environmental protection programmes and ecological restoration activities with the regional office of Rosprirodnadzor. The approach used by Rosneft is to remediate contaminated lands at the same time as introducing pipeline integrity improvements. This reduces the risk of new leaks and ensures there is an improved spill reporting and response system to minimise the potential for future contamination.

In 2018–2019, Rosneft invested over RUB 35 bln in environmental protection and remediation activities in the Khanty-Mansi

Autonomous District. Annually, in licence areas of the Khanty-Mansi Autonomous District, it is estimated that around 400–500 ha of disturbed lands are restored. A number of Company's operations in the district, such as the Nizhnevartovsk Oil and Gas Producing Company and Varyeganneftegaz, have remediated 100% of land which was historically contaminated by third parties.

In 2019, the Company remediated over 800 ha of land in its licence areas in the Khanty-Mansi Autonomous District. According to decisions of Yugra Prirodnadzor, 763.4 ha of land was certificated as excluded from the list of contaminated lands.

An effective method of carrying out work in the Khanty-Mansi Autonomous District is winter

reclamation. Given the high water levels and boggy areas of the region, the winter reclamation method is more practical for cleaning these areas, which cannot be accessed in the warmer seasons. Using the winter restoration method allows the increase in volumes of soil that can be accessed and remediated every year. This process involves an integrated approach, using amphibious excavators, large-capacity all-terrain vehicles, floating swamp buggies, snowmobiles, and mini-all-terrain vehicles.



For details on Rosneft's environmental initiatives in the Khanty-Mansi Autonomous District – Yugra, see our website.

Waste Management

One of Rosneft's activities aimed at minimising its environmental footprint is waste management. Every year, oil sludge and drill cuttings are disposed, decontaminated, recycled and safely buried. These practices are regulated by the Company's Waste Management Standard.

Rosneft pays close attention to waste management by both Group Subsidiaries and third-party supervisors.

The Company builds new and reconstructs existing industrial waste landfills, furnishes facilities with modern oil sludge treatment equipment.



"As early as in 2017, Varyeganneftegaz became the region's first producing company to eliminate "legacy" lands which were contaminated during the Soviet period of field development in Western Siberia. Nevertheless, protection of environment is still one of the key aspects of our operations, and as of today we have shifted to drilling waste disposal directly from the rig."

Alexey Sinyakov
CEO, Varyeganneftegaz

Waste management, kt GRI 306-2

Period	2017	2018	2019
Waste at the beginning of the year as adjusted	14,122	14,374	15,642
Waste generated and accepted (from third parties) during the year	8,769	7,167	6,097
Waste used during the year	4,355	4,339	3,612
Waste neutralised and recycled	533	504	445
Waste buried	499	451	420
Waste transferred in ownership to third parties	3,439	1,312	592
Waste at the end of the year	14,064	14,934	16,670

Minimisation of newly generated waste and the continuous reduction of accumulated waste are key principles of waste management. The increase in accumulated waste in 2019, however, was due to a reduction in waste handling caused by extended procurement procedures which are being improved.

In 2019, the Group Subsidiaries implemented the following improvements as part of the waste management process:

- Acquisition of a mobile oil sludge disposal unit at Bashneft-Ufaneftekhim branch of Bashneft;
- Recycling of oil-containing wastes of the Kuibyshev Refinery and construction of a spent sulphuric acid recovery unit continues to progress. Once commissioned this unit will stop spent sulphuric acid from being transferred to third parties for treatment;
- Construction of concrete paved and fenced platforms on all production sites of RN-Lubricants and a platform for the recycling of oil-contaminated soils delivered from Samaraneftegaz;
- Acquisition of facilities for the decontamination of production and consumption wastes of RN-Severnaya Neft.

When handling waste, the Company adheres to the principle of sustainable use of natural resources and preservation of the environment. To this end, the following initiatives are being implemented

INITIATIVES

Reuse

of materials which were generated during production, work, services or in the process of consumption

Separate accumulation and storage

of waste in designated areas in compliance with environmental, sanitary, epidemiological laws and other applicable regulations

Waste transfer

to special points for decontamination and disposal

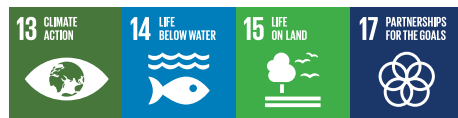
At the design stage,

selection of technological processes that generate the lowest quantities of waste possible

GREEN OFFICE

In pursuance of the Green Office Principles, the Group Subsidiaries arranged for the separate accumulation and storage of waste in designated areas for subsequent disposal. In particular, the Syzran and Achinsk refineries, RN-Morskoi Terminal Tuapse, Bashneft-Roznitsa, and others have this process in place for plastic waste; the Achinsk and Novokuibyshevsk

refineries, RN-Volgograd, RN-Morskoi Terminal Tuapse, Tomsknefteprodukt VNK, RN-Rostovnefteprodukt, Saratovnefteprodukt, RN-GRP, VNIPNefte, and others use the method to collect and recycle paper waste. The Company also has a process for the decontamination and disposal of hazardous waste (batteries, ink cartridges, etc.) generated by its offices.



Biodiversity Conservation

Managing the Company's Biodiversity Conservation Efforts

The Company takes all possible measures to preserve ecosystems and biodiversity across its operating areas and has worked together with scientific and environmental organisations to develop the most effective biodiversity conservation programmes. **GRI 103-1** **GRI 103-2**

Rosneft strictly complies with the environmental legislation of the Russian Federation and implements biodiversity conservation projects subject to expert guidance and approvals

from authorised bodies, including state ecological experts, and the public. The Company is also guided by international recommendations and standards that govern production and economic activities. All new

These programmes are aimed at protecting certain species of animals and birds with a focus nationally and internationally protected, as well as replenishing the biological resources of ecosystems

projects of the Company are assessed for potential environmental impacts, with action plans being developed to minimise such impacts.

At all stages of the life cycle of operational processes, the Company carries out environmental monitoring and takes measures to prevent environmental impacts, protect ecosystems and habitats. These monitoring results are used for scientific purposes and are taken into account when planning further environmental protection measures. All employees of the Company and contractors are banned from hunting and fishing in the areas of the Company's projects.

GRI 103-3



Rosneft's Policy on Health, Safety and Environment is available on the official website of the Company

BIODIVERSITY CONSERVATION MEASURES



development of methodological approaches and environmental programmes for monitoring and conservation of biodiversity



development of instructions to minimise the impact of economic activity during exploration



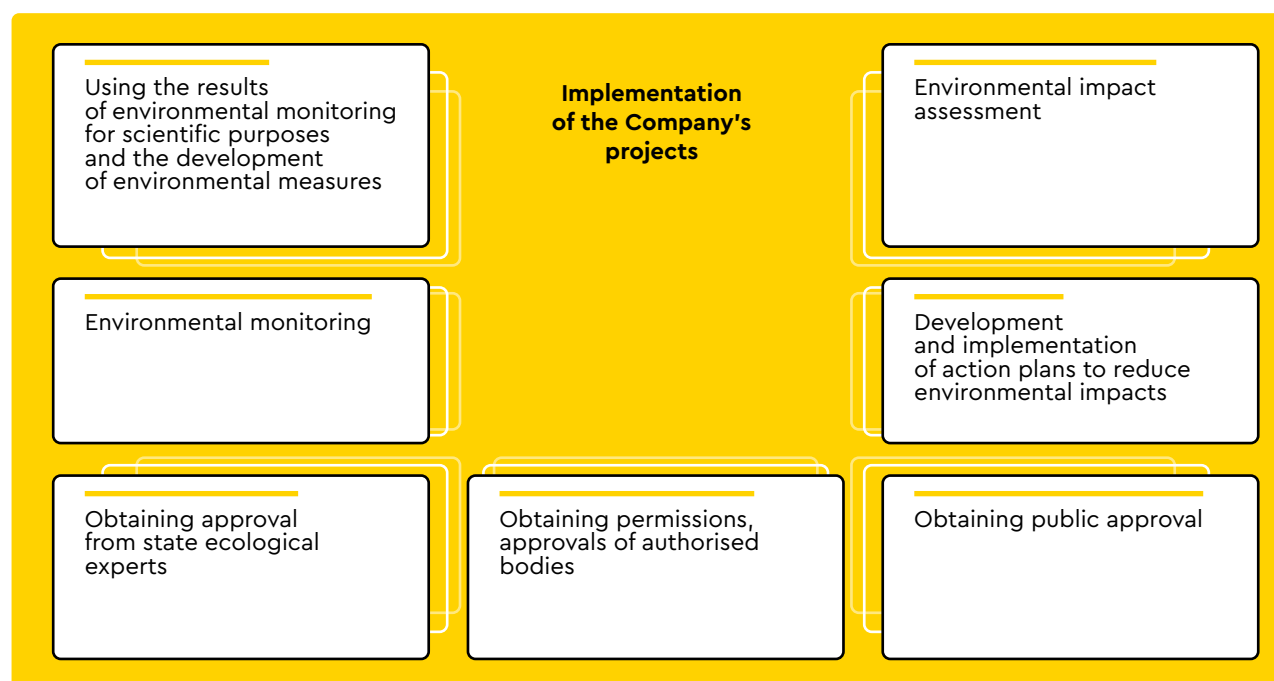
comprehensive field research



monitoring of the health of ecosystems, including methods of aviation, ship and coastal surveys



research and development



Biodiversity Conservation in the Arctic Region

The Arctic ecosystems are known to be highly sensitive and vulnerable, and the Company focuses on activities aimed at preserving biological diversity in this region.

In the period from 2015 to 2019, the Company implemented a marine ecosystem biodiversity conservation Programme in the licence areas of Rosneft in the Arctic zone of the Russian Federation, with the main focus to ensure the safe development of the Arctic and biodiversity conservation. The Company engaged specialised Institutes and scientific organisations to render environmental support for exploration, R&D and methodological work, environmental monitoring of indicator species of Arctic ecosystems and their habitats. Over the five years, more than RUB 870 mln were allocated to implement this work.

To build on the Programme of marine ecosystem biodiversity conservation in the licence areas of Rosneft in the Arctic zone of the Russian Federation, the Company plans to implement a large-scale target innovative project to assess stability of Arctic ecosystems based on studies to understand the health of key indicator species populations between 2020–2023. The research will be carried out under the Agreement between the Company and the Russian Ministry of Natural Resources and Environment as part of the national Environment project.

The project is focused on assessing the current condition, size, and dynamics of populations of indicator species such as wild reindeer and species from the Red Data Book of Russia – white gull, Atlantic walrus and polar bear. These provide an indication of the health and stability of the Arctic's marine and terrestrial ecosystems.

In the period from 2015 to 2019, the Company allocated more than RUB 870 mln to implement the Programme of marine ecosystem biodiversity conservation in the licence areas of Rosneft in the Arctic zone of the Russian Federation



AS PART OF ITS NEW
PROJECT TO ASSESS
STABILITY OF ARCTIC
ECOSYSTEMS IN 2020, THE
COMPANY PLANS TO:



Develop a comprehensive research programme for the study and monitoring of key species as indicators of the stable health of marine Arctic ecosystems (polar bear, walrus, white gull) and ecosystems of the northern territories of Siberia (wild reindeer)



Prepare a review of materials to assess the scientific knowledge of key species



Conduct further field research

For its part, the Russian Ministry of Natural Resources and Environment will provide scientific, methodological and data analytical support for this Programme. The Company will use the project deliverables for safe operations in the Company's licence areas and for assessing the environmental impact of planned operations, as well as to develop monitoring methodologies for these species.

The Company plans to allocate approximately

~295
RUB mln
to this Programme.

Since 2012, the Company regularly conducts comprehensive research expeditions to study the health of marine Arctic ecosystems. Particular attention is paid to rare and protected species, including those listed in the Red Data Book of the Russian Federation, regional Red Books, and the Red List of the International Union for Conservation of Nature and Natural Resources.

The data obtained from such expeditions are used to prepare environmental atlases of Russian seas published by the Company since 2016. The atlases contain extensive information on oceanography and biodiversity in the regions. They are unique regional reference books for Russia which highly appreciated by the scientific and expert community. The Company has published the following atlases:

- Kara Sea. Environmental Atlas in 2016,
- Laptev Sea. Environmental Atlas in 2017,
- Marine Mammals in Russia's Arctic and Far East in 2017,
- Black Sea and Sea of Azov. Environmental Atlas in 2019.



For details on the environmental atlases published in 2019, see the section Research and Monitoring of Indicator Species of Ecosystem Health.

Research and Monitoring of Indicator Species of Ecosystem Health

Polar Bear

During field expeditions and ship voyages, polar bear sightings are recorded and biological samples collected to contribute to scientific studies. Bears are tagged with satellite transmitters and identification numbers for tracking.

In 2019, two expeditions were arranged in the licence areas of the Company on the Arctic shelf. The Russian Academy of Sciences (RAS) evaluated the habitats and conditions of polar bears in three licence areas.

The Central Siberian Reserve also conducted studies on the size and distribution of polar bear populations, their habitats and food sources within and around the Company's licence areas. The research is also focused on the seasonal distribution of polar bears on islands during an ice-free period, and also on the population of bears in the Yamalo-Nenets Autonomous Okrug.

Evenki Reindeer

Monitoring the state of the Taimyr-Evenki deer population as the main biological resource of the Arctic territory is extremely important for science and the local indigenous population. In 2019, specialists of the Siberian Federal University recorded new data on the condition of the Taimyr-Evenki wild reindeer population. The main objective of the expedition was to compare data obtained from satellites with ground-based observations and previous population numbers.

The scientists used modern satellite technologies to show that the increase in migration distances together with the significant shift of the start and end dates of seasonal animal migrations have had a significant effect on the population size of this species.

Black Sea Dolphin

In 2019, scientific research of mammals of the Black Sea continued with scientists from the Institute of Oceanology of the Russian Academy of Sciences conducting studies on more than 2 thousand dolphins within the territorial waters from Sochi to Anapa.

They used detailed digital photography to collect extensive scientific data and photos across more than 1000 km of the marine route and also compiled photo and acoustic catalogues of the Black Sea cetaceans of this region. In addition, coastal studies were also conducted and samples taken for further laboratory studies.

Data collected from these studies indicates that increasing anthropogenic impacts have made the Black Sea dolphins very vulnerable. Scientists are preparing recommendations on measures to preserve these unique animals, as some of them are listed in the Red Data Book of Russia.

Laptev Walrus

In 2019, the research on the Laptev walrus was carried out in the Pechora Sea together with specialists from the Nenetsky State Nature Reserve. The daily activities of walruses were monitored by installing 13 autonomous photo recorders. Species composition and population abundance were assessed visually both in the rookery and in the waters around the island.



Conference on Environmental Safety of Offshore Operations

In September 2019, with the support of RN-Exploration - a subsidiary of Rosneft, a scientific and practical Conference titled 'Conference on Environmental Safety of Offshore Operations' was held in Astrakhan. The event was attended by over 50 representatives of the scientific and business community.

The Conference addressed the issues of ensuring safe work in Southern seas. In particular, topics of marine seismic surveys were discussed; meeting HSE requirements; elimination of oil spills, environmental studies, etc.

Participants of the conference shared experiences, discussed priorities, developed solutions and approaches to ensure the safe development of the Russian Sea shelf. At the end of the event, the Conference participants and city residents released sturgeon fingerlings in the river of Volga to contribute to maintaining the sturgeon population in the Caspian Sea.



ACTIVITIES FOR THE REPRODUCTION OF AQUATIC BIOLOGICAL RESOURCES

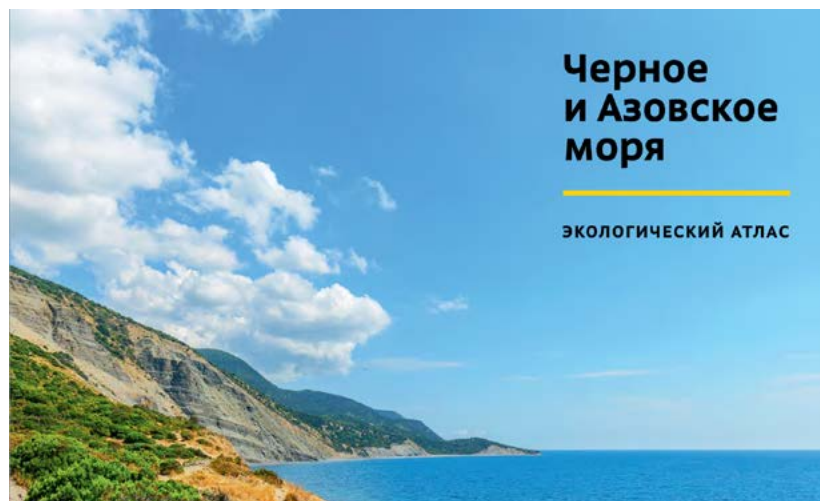
Every year, Rosneft takes measures to both conserve and support the increase in natural populations of aquatic species.

In 2019, in support of this objective, 29 Group Subsidiaries released more than 37 mln fingerlings of peled, sturgeon and other fish into the waters of the regions where the Company operates. The largest peled fingerling releases were held at Kondaneft (5 mln), RN-Purneftegaz (8.2 mln), Sorovskneft (2.5 mln), and RN-Yuganskneftgaz (2.6 mln). Around 2 mln sturgeon fingerlings were released at RN-Yuganskneftgaz, while around 2.7 mln whitefish fingerlings were released at Sibneftegaz.

Environmental Atlases
of Russian Seas

Together with the Foundation for Support of Scientific and Project Activities of Students, Graduate Students and Young Scientists "National Intellectual Development", the Company publishes environmental atlases of the Russian seas.

In 2019, the Environmental Atlas of the Black Sea and the Sea of Azov was published. This is the fourth volume in a series, which was nominated for the Crystal Compass



Prize, established by the Russian Geographical Society. The Atlas provides original data on the condition of the environment, which were obtained in the course of many years of research on the marine ecological state in the licence areas of Rosneft.

The atlas titled Russian Arctic. Space, Time, Resources includes 15 thematic sections and is a collection of scientific data on physical geography, ecology, research history and economic potential of the Arctic zone of the Russian Federation.



"Environmental initiatives have long been an integral part of our corporate culture. The Company places emphasis on the safety of environment, environmental compliance, and encouraging responsible approach to nature. The Volga is a symbol of Russia, and we are committed to protecting and preserving its biodiversity. In 2019, Samaraneftgaz released over 80 thousand fry of sterlet, hypophthalmichthys, and common carp. Similar activities are also scheduled for 2020.

Sergey Anzhigur
CEO, Samaraneftgaz



Public Consultations

Conducting Public Discussions on the Results of Environmental Impact Assessment of Planned Activities

In accordance with Russian legislation, Rosneft ensures that stakeholders actively participate in discussions about the Company's new developmental projects and plans for constructing new operational facilities to provide input and feedback. These discussions take place at the design stage of the project and contribute to the environmental impact assessments for these activities.

GRI 103-3 GRI 413-1

THESE STAKEHOLDER
CONSULTATIONS
ARE ORGANISED TO:

Inform the local population about the planned project or activity of the Company



Review project documentation (project documentation, G&G programmes, etc.) to get feedback from local inhabitants



Consider specific concerns, needs and interests of stakeholders to be incorporated into the planning and design stage



Provide explanations and detailed responses to questions from the public about these activities

In 2019, 226 consultations were held with representatives of the local population with assistance from regional and municipal governments. The events were organised in 21 regions where the Company operates including the Yamal-Nenets and Khanty-Mansi autonomous districts, the Republic of Bashkortostan, Buryatia, Tatarstan, Sakha (Yakutia) and the Chechen Republic, Krasnodar, Krasnoyarsk, Primorye and Khabarovsk Territories, as well as in the Arkhangelsk, Astrakhan, Murmansk, Samara, Saratov, Sakhalin, Tomsk and Tyumen regions.

In 2019, 13 meetings with stakeholders were held regarding work scheduled in licence areas situated in the Barents, Pechora, and Kara seas, and the Sea of Okhotsk. The following issues were the most important for public stakeholders:

- Compensation for damage to aquatic biological resources (raised at three meetings);
- Experience and practice of the Company in implementing similar projects (raised at three meetings);
- The impact of work on soil cover and fish resources (raised at four meetings).

Following these consultations, the Company provides responses to questions asked including specific questions on the environmental impact assessment. The Company then modifies the documentation in alignment with agreed changes requested prior to receiving approval for carrying out the planned work.

Discussions were held in the following regions: the Sakhalin, Astrakhan, Arkhangelsk, and Murmansk regions, the Yamal-Nenets Autonomous District, and the Krasnoyarsk Territory. The documents from these meetings were submitted to state ecological experts where three had a positive outcome. The projects also received the support of the public.



Improving Environmental Awareness

Rosneft strongly supports the rational use of natural resources and environmental conservation and continuously works to build the environmental awareness of its employees. As a result a number of Company environmental initiatives are implemented, including environmental education programmes and involvement of employees, contractors and local people in environmental activities.

Group Subsidiaries initiate and participate in regional projects to improve environmental literacy, not only among employees of the Company and contractors, but also among young people and children. An example of such a programme was the School of the Ecological

Leader, a regional project conducted by the Achinsk Refinery. This was the first stage of a long-term programme to improve the environmental awareness of the Achinsk community by developing a natural resource conservation mind-set and deepening research skills among schoolchildren who were also involved in environmental lessons and discussions on public environmental initiatives.

Rosneft conducts various events to improve the level of environmental awareness among employees of the Company and contractors, as well as among young people. The Ryazan Refinery initiated an environmental lesson for pupils of school No. 47 in the village of Turlatovo. The event was timed to coincide with the Earth Day, and young ecologists, together with employees of the Ryazan Refinery, planted spruce seedlings.

Bashneft-Polyus contributed significantly to the implementation of environmental protection measures on the territory of the Nenets Autonomous District and also held extensive educational programmes on environmental protection. The company actively participated in the Russian environmental campaigns "Clean Shores to Our Rivers and Lakes!" and «Forest, Live!» which was highly appreciated by the Governor of the Nenets Autonomous District, who thanked the Company formally for its efforts in conducting these events.

~1
mln trees

were planted by Group Subsidiaries in 2019 as part of forest conservation initiatives.

Green Office

The Group Subsidiaries are actively implementing the principles of the Green Office, which are aimed at the sustainable consumption of resources; reducing heat and electricity usage, improving the quality of working conditions and environmental enhancement. Subbotniks (Saturday clean-ups) are held to improve the ambiance of the territory, and annual competitions are held for landscaping industrial sites at the Company's operating facilities.

Reforestation Efforts

Rosneft highlights its commitment to achieving the UN Sustainable Development Goals by implementing a series of measures including those aimed at preserving and restoring forests. In 2019, the Group Subsidiaries planted about 1 mln seedlings. In total, over 60 Subsidiaries planted trees in the regions where the Company operates.



RN-Yuganskneftegaz is rolling out the Keeper of the Cedar Forests of the Khanty-Mansi Autonomous Area – Yugra, a target programme where more than 475 thousand seedlings of Siberian pine (cedar) were planted in 2019. For these purposes, the Company allocated more than RUB 70 mln.

Tomskneft planted approximately 28 thousand seedlings in Strezhevoy in honour of the Russian Environmental Protection Day. Siberian pine seedlings were also planted in the territory of the Izluchensky natural boundary of the Nizhnevartovsk forestry as part of activities to restore cedar plantations.

Annually, Group Subsidiaries join the Russian Forest Planting Day. As part of this activity, employees of RN-Uvatneftegaz and the Tyumen Oil Research Centre took part in the programme for the restoration of the Uspenskoye forestry which was ravaged by fire in 2015. As part of the campaign, more than 75 thousand seedlings were planted.

Employees of the Koltsovo refueling facility contributed to the preparation of the Universiade-2023 in the Sverdlovsk region, by planting large seedlings of pine and spruce in the forestry area in the vicinity of the Novosverdlovsk CHP in Yekaterinburg. Employees of Bratskeogaz took part in the planting of Siberian pine on the territory, which was destroyed in a recent fire in the Bratsk District of the Irkutsk Region.

Acknowledgement of the Group Subsidiaries' Achievements

Green Spring-2019 nationwide clean-up campaign

In 2019, Rosneft employees took part in Green Spring-2019 nation-wide clean-up campaign. Over 15 thousand employees from more than 80 Group Subsidiaries took part in these activities. Company employees planted trees, cleaned up garbage, and improved urban areas and production facilities. In total, more than 930 ha were cleaned up, which is equivalent to 1,870 football pitches; nearly 1 thousand tonnes of garbage was removed, and about 5 thousand trees were planted.

For participation of employees in the event, Rosneft was awarded with a commemorative badge For the Initiative and Significant Contribution to the Environmental Protection.



In 2019, Rosneft was awarded the Kommersant Initiative Award in the Ecology nomination. For details, see the Carbon Ratings section

Group Subsidiaries actively contribute to environmental protection in the regions of their operational footprint and initiate their own actions to improve environmental well-being and awareness, while also supporting initiatives of regional and local authorities.

In 2019, Samotlorneftegaz, Samaraneftegaz, Tomskneft, Achinsk Refinery, Angarsk Petrochemical Company, RN-Komsomolsk Refinery, and Novokuibyshevsk Refinery took an active part in the competition for environmental activities and received awards and certificates as winners of the 15th Jubilee Russian contest Leader of Environmental Activities in Russia 2019.

The School of the Ecological Leader, a project conducted by the Achinsk Refinery, became the first stage of a long-term programme to improve the environmental awareness of the Achinsk community. For details, see the Improving Environmental Awareness section.

Samotlorneftegaz took part in removing oil contamination from the bottom of water bodies using the new Aeroshchup contactless flotation technology as part of the International Project Ecological Culture, Peace and Concord, as well as in the landscaping of Nizhnevartovsk. The Company was awarded certificates and prizes for both projects.





#4

OCCUPATIONAL HEALTH AND SAFETY



« The goal of the Company is to ensure a safe working environment for all employees and contractors, delivered through an Integrated Health, Safety and Environmental management system which is built on robust operating processes aligned with industry best practices, and with clear accountabilities and priorities. »

Zeljko Runje

First Vice President, Oil&Gas and Offshore
Business Development, Rosneft



For details on safety culture, see **p. 91**

- 90** Industrial and Labour Safety Management
- 93** People safety
- 100** Industrial and Process Safety
- 105** Transport safety



Industrial and Labour Safety Management

Strategic guidelines GRI 103-1

As a leader of Russia's oil industry and one of the largest global energy companies, Rosneft recognises the nature and scale of its business influence and its responsibility to provide a safe working environment for its employees, partners and contractors and to maintain the smallest possible environmental footprint across all spheres of business activity.

HSE STRATEGIC OBJECTIVE AND ITS PRIORITY IMPLEMENTATION AREAS GRI 102-15

To become a global leader in HSE performance, ensuring a safe working environment for employees, conducting incident-free operations, preserving health of population in the regions of the Company's operations, and minimising the Company's environmental footprint

HSE priority areas:

- Leadership and Safety Culture
- Competency and Capability Development
- Safety Management System
- Internal Controls
- Risk and Integrity Management
- Reporting and Performance Analysis

The Company's ambition of incident-free operations is driven by implementing the highest process safety, personal safety and environmental management standards with a strategic HSE objective, indicators and priority development areas set out in Rosneft-2022 Strategy.

DEVELOPMENT OF THESE HSE PRIORITY AREAS IMPROVES GRI 103-2



Personal safety



Facility and Process Safety



Driving and Transportation safety

The Company's Health, Safety and Environment Policy clearly articulates its strong stand on HSE and sets out the goal, commitments and common HSE principles that are in place across all Rosneft's operations for all employees and contractors.

HSE governance is provided by the Strategy and Sustainable Development Committee of the Board of Directors and Rosneft's Executive Team who guide the delivery of strategic improvement programmes towards continuous improvement of HSE performance and the achievement

of the Rosneft-2022 Strategic goal.

GRI 103-2

The Company has an HSE Committee, a standing collective body made up of a number of senior executives in charge of the production and support functions. Representatives of an Inter-regional Trade Union organisation also take part in this Committee's meetings.

The Committee reviews key HSE risks, HSE programmes implementation, follows up on the corrective actions in case of repeated incidents, recommendations and solutions to improve safety culture, communications, personnel motivation and HSE performance. GRI 403-4 GRI 103-3



For details on the governance structure see the "Sustainable development management" section of this Report.



More information on labour safety management system can be found at our site

Health, Safety and Environment Integrated Management System GRI 103-2

Rosneft's HSE Integrated Management System (IMS) was developed to deliver the goals, commitments and intent of the Company's HSE Policy through the implementation of industry best practices and standards.

In 2019, the Company's HSE IMS was once again certified to the requirements of the International OHSAS 18001:2007 standard "Occupational Health and Safety Management Systems – Requirements". The requirements of the HSE IMS apply to all Company subsidiaries as well as to all contractor staff who provide services at corporate production facilities. Staff are trained in knowledge of and compliance with the standard.

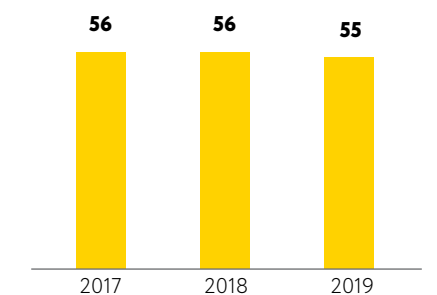
In 2019, the number of certified Group Subsidiaries increased from 57 to 63.

The certification of Group Subsidiaries to the requirements of the OHSAS Standard 18001:2007 is prioritised on the basis of the type of operations, including hazard class of the production facilities, as well as the requirements of investors, partners, clients and other stakeholders.

Rosneft and 63 Group Subsidiaries are certified to OHSAS 18001:2007 "Occupational Health and Safety Management Systems – Requirements".

The Company has developed a multi-pronged approach to safety management, placing major emphasis on strengthening industrial or process safety barriers, developing safety management programmes consistent with higher risk activities and increasing staff competence and capability on safe practices and controls. Over RUB 55 bln were allocated to these activities in 2019.

Costs of labour safety, industrial, blowout and fire safety, RUB bln



In 2019, the Company invested

**~55
RUB bln**

in its process and personal safety programme development.

¹ Prior to April 2020, Strategic Planning Committee of Rosneft's Board of Directors.



Managing Health, Safety and Environmental Risks

The Company is implementing procedures and regulations on HSE risk management with specific focus on:

- Risk identification;
- Risk assessment;
- Planning and risk management actions; and
- Monitoring and analysis

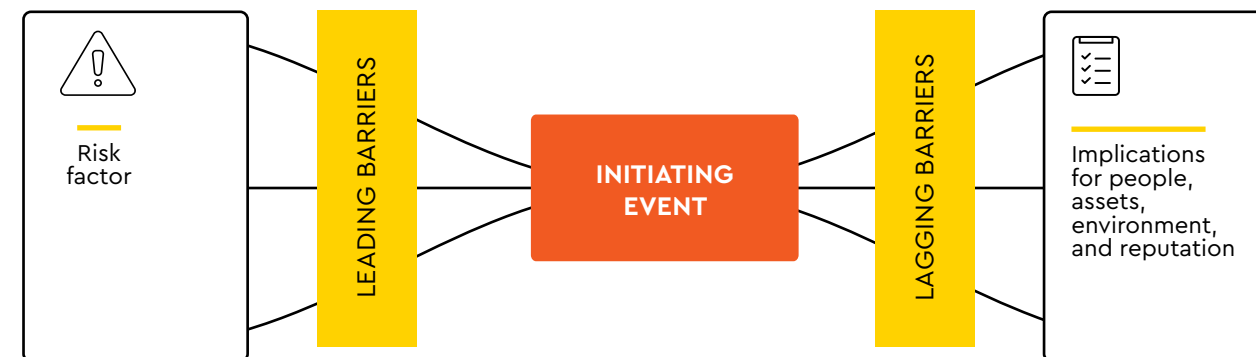
Work has also continued to implement risk management best practices

on managing process, integrity and transportation risks as well environmental and occupational health risks.

The main goal of the Company's HSE risk assessment and management process is to take adequate, proactive and resourced measures for identifying, quantifying and managing identified risks as well as strengthening risk barriers.

The outcomes of this work are inputs for prioritising and planning for risk mitigation efforts across operating assets including budgets. In 2019, this process was implemented across 72 Group Subsidiaries.

RISK «BARRIERS» PREVENT OR REDUCE NEGATIVE EVENTS OR RISK FACTORS



Industrial safety control system

As part of HSE Control Department a separate unit was created to implement consistent and independent HSE control procedures and methodologies. This unit carries out random audits to assess the extent of successful implementation of HSE controls as well as the efficiency of HSE management

systems at Group Subsidiaries and also develops corrective actions for achieving systemic HSE improvements.

In-process control Commissions made 80 scheduled inspections of Group Subsidiaries in 2019

with inspection reports provided to the leadership of Group Subsidiaries. These reports highlight any identified inconsistencies with HSE requirements, actions to mitigate operational and environmental risks and recommendations for improving the HSE Management System.

People safety

Safety culture

As one of the foundation blocks of improving and sustaining HSE performance towards the strategic goals, strong focus is placed on strengthening the Company's safety culture based on the commitments and principles outlined in the HSE Policy.

The priority of the Company is to take proactive actions based on the belief that all accidents can be prevented.

THE COMPANY'S SAFETY CULTURE IS BASED ON THE PRINCIPLE THAT ALL EMPLOYEES ARE ACCOUNTABLE FOR SAFETY, AND EACH EMPLOYEE HAS PERSONAL ACCOUNTABILITY FOR IT



«YOU ARE SAFE»

Corporate accountability



«I AM SAFE»

Personal accountability



«WE ARE SAFE»

Collective accountability

>83
thousand
employees
were trained in Golden Safety
Rules in 2019

The Golden Safety Rules have been one of the most effective means to communicate this personal and collective accountability across the Company since they are simple and user-friendly requirements for mitigating risks associated with performing the most hazardous activities. These Rules have been communicated to all employees and training programmes are ongoing, with over 83 thousand employees trained in 2019.

Each employee is accountable for:

- Knowing and applying the Rules;
- Suspending operations where these Rules are not being observed;
- Immediately reporting hazardous situations.

Since sector contractors carry out work for oil & gas companies across Russia and their workforce is relatively constant, the Company believes it will be beneficial to launch an initiative jointly with BP and other oil and gas companies in the country to develop a common Golden Rules of Safety standard across this industry. This will have the positive effect of reducing injuries at the federal level.

Overseas subsidiaries of the Company successfully apply best international practices to support safety interventions in their operations, for example, RN-BVK, RN-Vietnam, RN-Brazil and other companies use STOP cards (may have different names in other subsidiaries). A STOP card is a standardised form used by all employees for recording their safety observations including equipment condition, PPE use and compliance with Golden Rules of safety. If an employee is able to stop or eliminate a hazardous situation, this is recorded on this form. Employees use this STOP system to ensure that the situation is resolved and corrective actions are implemented.

This practice also helps to identify safe practices contingencies and highlight minor violations before they escalate.



Leadership and safety culture

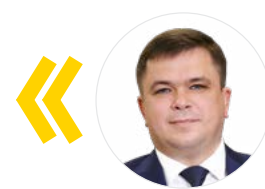
Rosneft places special focus on improving the direct communication between leadership and employees to create a safe working environment. Senior executives of the Company and Group Subsidiary leaders are the driving force in promoting a strong safety culture by personally demonstrating appropriate safe behavior.

In 2019, the Company's senior executives took on personal safety leadership commitments that were earlier taken on General Directors of Group Subsidiaries Commitments are based on the following principles:

- Belief - holding "safety minutes" prior to starting operational meetings, participation in employee behavioral safety audits of Group Subsidiaries and contractors;
- Authority - personal participation in various commissions, including in-process control commissions; leading by example in observing safety rules;
- Action - holding HSE meetings with teams of employees or contractors, employee polls regarding HSE actions;
- Support - motivating and rewarding employees who prevented incidents, suspended unsafe operations or achieved excellence in H&S performance.

Being a major employer, the Company has partnered with the state, as well as public and commercial organisations, to develop joint solutions for creating a safe working environment. Representatives of the Company participate in the Petroleum Complex Facility Safety Section of the Research and Development Board of the Federal Service for Environmental, Technological and Nuclear Supervision, and in the Industrial Safety Committee of the Russian Union of Industrialists and Entrepreneurs.

In cooperation with other stakeholders, representatives of the Company review draft H&S legislative acts for subsequent modification and approval, participate in off-site meetings to share experience or to visit industrial production facilities of the leaders of the petroleum industry.



"The use of best practice and modern standards and, most importantly, the principles of responsibility and care for the lives and well-being of each and every employee, is key to Samotlorneftegas JSC strategy."

Valentin Mamayev

Director General,
Samotlorneftegas

Contractor interaction

As outlined in the principles of the Company's HSE Policy, Rosneft's approach to ensuring safe operations does not differentiate between Company employees and contractor employees as HSE expectations and requirements are the same for anyone performing operating activities at the Company facilities.

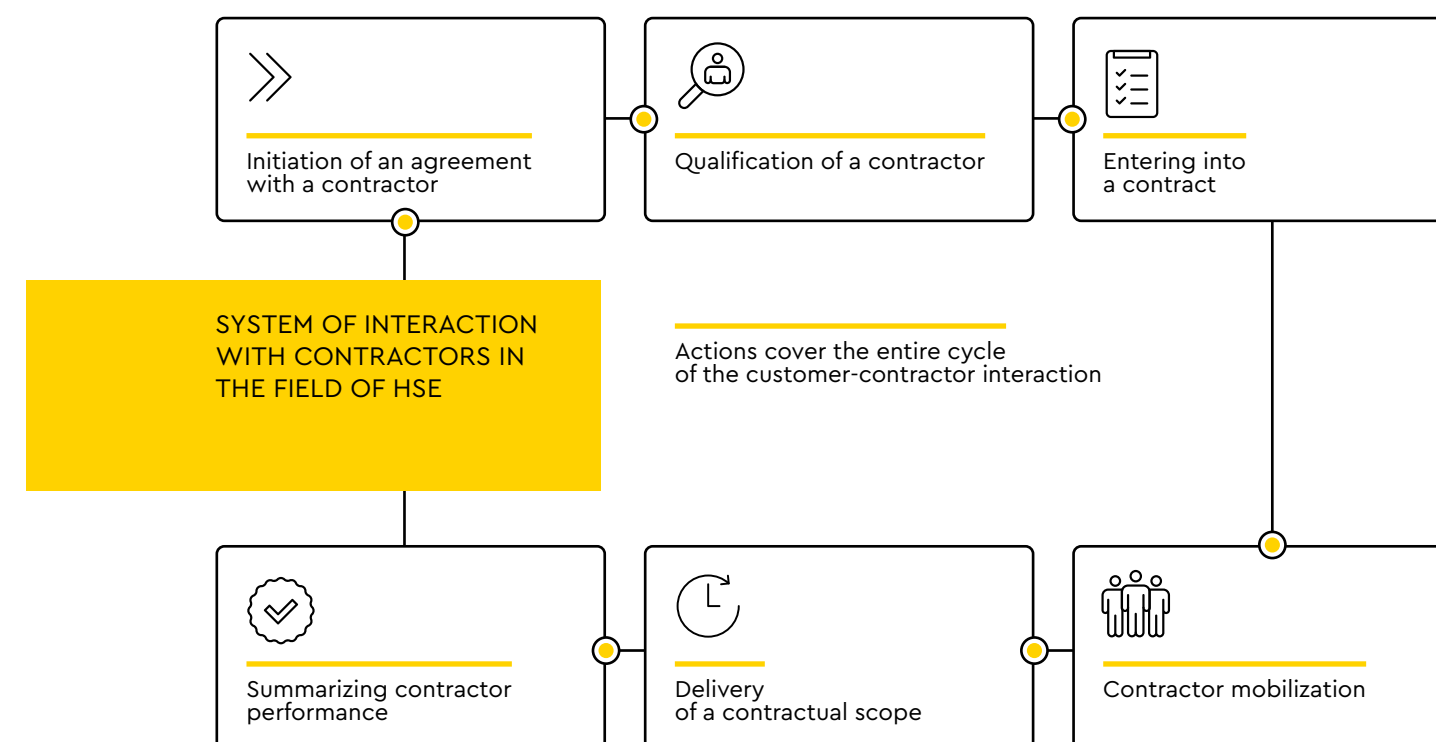
A significant number of contractor and subcontractor employees work at the Rosneft production and refining facilities; contracted entities vary in terms of their headcount and the range of services that they

provide. This is the reason why Rosneft made the important decision to include the HSE performance indicators related to contractors and subcontractors in the strategic HSE goals.

Rosneft maintain high-grade requirements to the transparency level of contractors' reporting. Reporting of all incidents, whether minor or significant, is a mandatory requirement for all contractors.

As part of the process to implement a systematic approach to improve contractor management standards

and engage contractors committed to improved HSE performance, a new contractor safety management procedure was approved and implemented in 2019. This procedure included strengthened HSE qualification and selection criteria and audits for specific work activities; the need for mandatory risk assessments; clarification of contractor capability requirements and the conduct of control activities and performance reviews. One important capability provision included in all Rosneft contracts is the requirement for contractors to train all of their employees in the "Golden Safety Rules".



An implementation plan to 2022 was developed for each element. Meetings were also held with contractor company leaders to discuss these requirements and also agree ways to improve contractor

site safety leadership and HSE performance. Over 29 thousand contractor audits were carried out in 2019 to verify compliance with state rules and regulations as well as the Company's HSE requirements.

>3,200
employees

attended the Company's "HSE leadership" training programme in 2019.



Arranging a dialogue with contractors

Prior to starting turnaround operations, representatives of Rosneft and Angarsk Polymer Plant held a "Turnaround 2019. Operations management and safe performance" meeting to discuss

health and safety issues with over 40 contractor companies who provide services to the Angarsk Cluster. The discussion included topics such as PPE standards, contracts performance, equipment

certification and preparation, timely issuance of work permits, unification of preventive maintenance activities on sites.



"The Company's leadership does not differentiate between contractors and employees on its operational sites. The life, safety and health of every person working at the Company's facilities, irrespective of the company to which they belong, is the most important priority valued as a priceless resource."

Vyacheslav Kurenkov

Director of Downstream HSE
Department, Rosneft



For details on the Company's engagement with contractors see the "Contractor Cooperation" section of this Report.

Health and Safety training

Developing a strong, proactive and mature safety culture requires highly capable and competent employees and contractors. The Company's investment in HSE training for its employees has been increasing each year, with 725 in-house coaches conducting additional programmes for over 93 thousand employees at its Headquarters and Group Subsidiaries in 2019.

The training principles of the Safety Academy make it possible to efficiently link theory with practice in the operations; apply individual approaches to the learning process and ensure maximum engagement of leaders in the process.

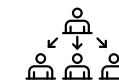
More than 1,100 employees were trained on improved incident investigations techniques linked to an updated "Incident investigation procedure" in place. This will help to improve learning from incidents and reduce repeat accidents.

A number of Group Subsidiaries have been actively introducing a "Safety Academy", an open platform for training, communicating and sharing knowledge and experience related to Health and Safety. Courses provided through the academy assist participants to develop and exhibit their safety leadership qualities and to build the leadership culture at their sites, with the main objectives for participants to:

**>93
thousand**

employees have taken part in health and safety training in 2019.

HSE TRAINING



HSE in-house coaches in 2019

725

HSE in-house coaches trained over 93 thousand employees

COURSES:



Golden Rules of Safety



Investigation of safety events



HSE risks management



HSE Leadership

THE MAIN OBJECTIVES FOR PARTICIPANTS TO:



Learn to systemically use the H&S training and control tools



Prevent non-compliance with labour safety rules and requirements



Master the HR management methods related to H&S



Understand and incorporate approaches to risk assessment



Health and Safety performance results

2019 injury rate

The Company recognises its responsibility for the safety of both its employees and the contractor workforce while conducting work at its operations. The Company's views any injury as being unacceptable and has set clear strategic goals to reduce injury rates to top quartile industry performance levels.

As a result, each Group Subsidiary works to eliminate operating risks and hazardous conditions at sites, improve the competencies of employees and implement programmes and measures to reduce the risk of injuries. The new contractor management procedure will also be critical to assist in improving HSE performance of existing and new contractors working at Rosneft's sites each year.

The number of high severity incidents among the Company employees has decreased by 23%, resulting from the implementation of strategic Health and Safety programmes, including those focused on safety leadership and strengthening the Company's safety culture. At the same time, the employees have shown improved awareness in reporting even low severity injuries, appreciating the importance of the steps the Company is taking to analyse and prevent such incidents. Consequently, the Company's Lost Time Incident Frequency in 2019 was 0.36 (compared to the previous year's 0.34), primarily due to the increase in reporting of low severity injuries resulting from slips, trips, and minor road accidents.

The Company has targeted preventive measures and programmes to reduce accidents associated with fall from heights and road accidents (Road Safety Concept (BDD)-2022), which are two of the identified high risk areas. These programmes are based on a risk-oriented approach, identifying risk factors for each area and strengthening technical or organisational risk-prevention barriers and controls associated with these risks.

In the area of road safety, a number of controls including speed monitors and new requirements were introduced to reduce driving speed by 10 km/h lower than the established speed limit. This was designed for specific high risk road sections during hazardous conditions including darkness, rainfall and reduced visibility.



Accident Rate among Rosneft's Employees GRI 403-2

Period	2017	2018	2019
Ratio of the number of lost-time work-related injuries (including fatalities) of the Company's employees to one (1) mln man-hours worked (LTIF)	0.36	0.34 ¹	0.36 ¹
Ratio of the total number of the Company's work-related fatalities to one hundred (100) mln man-hours worked (FAR)	1.87	2.47 ¹	1.04 ¹
Ratio of the number of lost-time work-related injuries (including fatalities) and work-related injuries of the Company's employees involving medical treatment or first aid to one (1) mln man-hours worked (TRIR)	–	0.96	0.78
Total number of employees suffering from work-related injuries	211	190 ¹	208 ¹
including fatalities	11	14 ¹	6 ¹
Ratio of occupational diseases (total number of professional diseases identified to one (1) mln man-hours worked)	0.11	0.06 ¹	0 ¹

Accident rate among contractors GRI 403-2

Period	2017	2018	2019
Ratio of the number of lost-time work-related injuries (including fatalities) of the contractors' employees to one (1) mln man-hours worked (LTIF)	–	–	0.38
Ratio of the total number of the contractors' work-related fatalities to one hundred (100) mln man-hours worked (FAR)	–	–	4.14
Ratio of the number of lost-time work-related injuries (including fatalities) and work-related injuries of the contractors' employees involving medical treatment or first aid to one (1) mln man-hours worked (TRIR)	–	–	1.11
Total number of contractors' employees suffering from work-related injuries	140	135 ²	148 ²
including fatalities	13	28 ²	16 ²

¹ The figures for 2018–2019 are presented in accordance with the IFRS accounts and the new calculation methodology, which does not include injuries as a result of participation in sports events, unlawful activities of third parties, and road accidents caused by third parties in the total injury rate.

The indicators for 2017 cover a wider range of subsidiaries. The injury rate includes injuries as a result of participation in sports events, unlawful activities of third parties, and road accidents caused by third parties.

LTIF for 2018 and 2019 calculated in accordance with the methodology used by the Company until 2018 would be 0.41 and 0.38, respectively, with a FAR of 3.00 and 1.04 respectively; total number of employees suffering from work-related injuries – 219 and 220 respectively, including 18 and 6 fatalities respectively; ratio of occupational diseases – 0.06 and 0 respectively.

² The figures for 2018–2019 are presented in accordance with the IFRS accounts and the new calculation methodology, which does not include injuries as a result of participation in sports events, unlawful activities of third parties, and road accidents caused by third parties in the total injury rate.

The indicators for 2017 cover a wider range of subsidiaries. The injury rate includes injuries as a result of participation in sports events, unlawful activities of third parties, and road accidents caused by third parties.

LTIF for 2018 and 2019 calculated in accordance with the methodology used by the Company until 2018 would be 138 and 150 contractors' employees suffering from work-related injuries respectively, including 29 and 16 fatalities respectively.



Industrial and Process Safety

Integrity of equipment

The Company applies internationally recognised standards and industry best practices to maintain the technical integrity of operational facilities and equipment and manage the risks of internal and external factors that could increase equipment failures.

Equipment integrity assurance, defined operational standards and timely decommissioning of production facilities all significantly increase the level of protection from major process safety accidents and reduce the risk of serious injuries and negative environmental impacts. Integrity management programmes are therefore risk-based to focus on the critical “safety barriers”. **GRI 103-1**
GRI 103-2

In 2019, the Company started the first year of accounting and analysis of process safety events and tracking specific PSE-1¹ and PSE-2² indicators in accordance with ANSI / API RP 754³ recommendations and IOGP report No. 456⁴. Following analysis of PSE-1 and PSE-2 results for 9 months 2019, the safety barrier approach and risk assessment were used to develop and include into the 2020 business plan a set of activities based on practical recommendations for improvement in safe operations, integrity and reliability of operational facilities. **GRI 103-3** **GRI OG 13**

Additionally, a new Company regulation – “Procedure for the organisation and implementation of work on energy sources isolation” – has been put in place for controlling work on isolating energy sources.

Pipeline Programme implementation

Due to the success of the previous 5-year Pipeline Reliability Programme which ended in 2019, a new Programme has been approved by the Upstream Business Block to continue this work for the period 2020–2025.

The Objectives of the Pipeline Reliability Programme are to:

- Reduce failures and incidents related to field pipelines;
- Increase in-line pipeline inspections;
- Select, test and incorporate new technologies and materials that provide protection against corrosion and technical failures; and
- Develop and implement tools for operational control and analysis of pipeline condition.

ACHIEVEMENTS IN THE AREA OF EQUIPMENT INTEGRITY

There were no well control events and blowouts during exploration and development drilling over the past 2 years with a continuous reduction in workover and sidetracking incidents as well.

There have been no process safety incidents across over 61,000 units of vessels and devices operating under excess pressure

No accidents occurred across 7,200 tank units

The risk of depressurisation (leaks) of tube bundles of feedstock heat exchangers of hydrotreatment units has significantly decreased

Field Pipeline failures and associated oil spills in the Upstream Block

index	2017	2018	2019
Spilled oil and gas condensate volume as a result of pipeline failures, tonnes	684.3	647.2	642.9
Spilled oil and gas condensate volume as a result of pipeline failures per 1 million tonnes of produced oil and gas condensate	3.00	3.00 ⁵	2.98

Pipelines in Upstream Block, km

index	2017	2018	2019
Total length of existing production pipelines at the end of the period (excl. inner wellpad pipelines)	82,513	83,155	83,563
Field pipelines corrosion inhibition	27,319	25,326	25,842
Pigging of pipelines	13,703	14,305	15,337
Reconstruction and repair of field pipelines	1,426	1,584	1,607
Diagnostics and safety expert evaluation of field pipelines (excl. inner wellpad pipelines)	23,998	24,825	26,490

In the Group Subsidiaries of the Oil Refining and Petrochemicals Business Blocks, pipeline integrity programmes delivered a number of improvements in 2019:

- 166 of the most critical pipelines were replaced;
- 496 dead-end sections of technological pipelines were eliminated;
- 4,244 units of elements with reduced material performance were replaced;
- U-bends in 26 furnaces were eliminated.

In 2019, survey and design work was performed for 14 Group Subsidiaries of the Regional Sales block making up the first phase of the special programme for equipping oil tanks with hydrocarbon vapour meters and ventilation systems. The installation of the equipment is scheduled for 2021.

Pipeline monitoring technologies

The Company is actively introducing new pipeline monitoring technologies to examine hard to access, dangerous areas and to avoid the exposure of workers at hazardous locations.

As part of implementation of the Comprehensive Accelerated Digitalisation Plan under the Rosneft–2022 Strategy, the first tests of unmanned aerial vehicles for refinery pipeline integrity control were successfully carried out at Syzransky Oil Refinery Plant.

Data processing is carried out on modern advanced analytics platforms, which allow rapid detection of pipeline issues and prevent the occurrence of major emergency situations on pipeline routes.

Scanning is carried out in the visible and thermal imaging ranges with live video transmission to the operator’s mobile station for detection of infrastructure failures. Illegal tie-ins are identified by thermal illumination of the image using artificial intelligence technologies.

Use of the advanced analytical platforms makes it possible to quickly map emerging situations, monitor changing dynamics of the situation, guide search teams on actions required, monitor progress and conduct forecast analysis taking into account spatial and temporal factors.



For details on using drone monitoring in Exploration and Production, see p. 189 of the 2019 Annual Report

¹ PSE (Process Safety Event) is a reportable man-made incident resulting from an uncontrolled, unregulated and unintended release of any material (including non-toxic) and energy from primary containment. PSEs are categorised into 4 tiers: from Tier 1 incidents with severe consequences to Tier 4 hazard IDs when it is not an incident but a certain pre-condition that is reported.

² PSER (Process Safety Event Rate) shows how efficient are the steps taken to ensure system integrity and process safety with respect to on-site management of hazardous substances. It is calculated by dividing the number of incidents categorised as PSE-1 or PSE-2 by millions of man-hours worked.

³ ANSI/API RP 754 is the second edition of API Recommended Practice “Process Safety Performance Indicators for the Refining and Petrochemical Industries” issued in April 2016.

⁴ IOGP Report 456 – Process safety – recommended practice on key performance indicators, November 2011.

⁵ 2018 data changes are due to changes in calculation methodology



Integrity Management System Seminar

HSE risk assessment and integrity are the priority areas of the Rosneft-2022 Strategy implementation.

In June 2019, Rosneft together with BP held a seminar focused on the development of an Integrity management system for production facilities and equipment. The participants improved their understanding of the Integrity Management System implemented

at BP as well as the experience and lessons learned during the process. They also presented a vision for organising a similar system at Rosneft.

Experts discussed a number of topics including:

- The key elements of the production management system and their relationship with process safety and integrity management;

- Hazard assessment and production risk management (life cycle, mechanisms, methods and tools of risk assessment and management, risk matrix);
- The structure of regulations, standards and practices of integrity management.



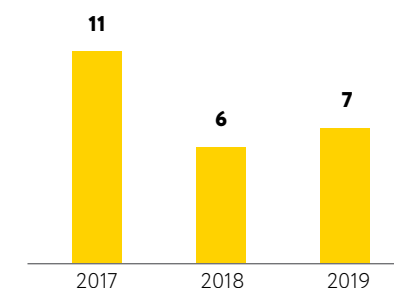
Accidents at the facilities

Implementation of the pipeline integrity and reliability programme is aimed at preventing equipment and pipeline failures.

In 2019, across more than 261,000 equipment units in the Company's operations, there were 7 accidents which were mainly related to depressurisation of individual elements. These accidents were contained and did not result in production process shutdowns. Each of these accidents was investigated and detailed "Lessons learned" were prepared and incorporated into revised safety standards and updated procedures. **GRI 103-3**

Accidents at Rosneft facilities

Number of accidents, cases



The information is posted in places accessible to employees and communicated at meetings of all units of subsidiaries. In 2019, priority activities and "Lessons learned" included the following areas of work:

- Unscheduled inspections of technological sites;
- Development of design documentation for the technically obsolete equipment replacement to include instruments and control systems that ensure the process shutdown or transfer to a safe mode in the event of a critical deviation from parameters provided by the technological regulations;
- Additional analyses of operating conditions, state of equipment corrosion, tightness, technological parameters measurement;
- Analysis of emergency response plans for descriptions of personnel actions in emergency situations and safe implementation of work.

CORRECTIVE ACTION SYSTEM INCLUDES THE FOLLOWING COMPONENTS:



"Lessons learned" are developed and communicated to employees



Investigations with not only direct, but also systemic causes identified



Interaction with design organisations to update the design documentation and improve equipment performance



Additional process safety training and certification of employees



Extraordinary inspections of the equipment condition



Activities of Emergency rescue teams

The Company has a sufficient amount of resources and a high level of preparedness and mobilisation to immediately respond to accidents.

Blowout safety

Drilling activities and operation of wells may pose a number of risks including gas, oil, water inflows, which under certain conditions, can turn into dangerous open gas and oil blowouts. These complications occur in many fields of the country, but their frequency of occurrence depends on the specific technical and technological details of the drilling process and the geological situation of the region.

To address this issue, the Company has developed a blowout safety management system to manage these risks using the approved Company Regulation "Prevention and liquidation of gas, oil, water inflows and open blowouts". The document defines:

- Staff competencies;
- Work design and planning procedure;
- Internal and external control system;
- Target cost financing;
- Requirements for the gas, oil, and water inflows liquidation activities.

Approximately 7,000 persons who are part of the Company's emergency rescue teams provide operational readiness and response to any incidents. At all Company facilities associated with hazardous operations, Emergency Response Plans and Emergency Oil Spill Response Plans have been developed and approved. The Company's personnel receive the necessary training including emergency drills, to respond to different situations.

Across the Company's facilities, more than 10,000 training sessions and drills were held to respond to localised fires, accidents and other emergency situations.

Fire safety

Rosneft and its Group Subsidiaries take consistent steps to ensure fire safety at production facilities in strict accordance with legislation and the Company's regulations.

The Company continues to implement the 2018–2021 programme «Main areas of fire protection at the Company's facilities» to modernise and re-equip the technical fleet and reconstruct fire stations to improve the working conditions of staff.

In 2019, the Company facilities were equipped with fire-fighting vehicles and equipment in accordance with the planned performance indicators including the purchase of 46 fire trucks and 497 units of fire-fighting equipment with enhanced technical specifications. These will improve the ability to respond to fires and eliminate them in a shorter time, thereby improving worker protection and reducing company losses.

**~400
fire teams**

provide round-the-clock fire protection at the Company's facilities

**>50,000
inspections**

of compliance with the fire safety requirements were carried out by fire protection teams and the Group Subsidiaries

Transport safety

Transport safety is one of the main areas of safety management in the Company since employees are driving about two billion kilometers per year. The risk of road accidents is managed through approved Company procedures, defensive driving training, provision of technical safety and speed monitoring equipment in vehicles and close interaction with state authorities.

The Company's vehicle safety management system is aimed at reducing risks for employees, contractors and third parties and it sets the requirements for both Company and Contractor vehicles as well as for drivers. More than 50,000 drivers have been trained under the defensive driving programme and more than 52,000 vehicles have been equipped with on-board speed monitoring systems.

Specific actions to reduce the number of road traffic accidents at the Group Subsidiaries include:

- The improvement of vehicle models used to provide a higher degree of protection;
- Implementation of a number of targeted preventive programmes such as "Safe road - 2019", "We are for road traffic safety - 2019", "Winter road", "Caution, children!";
- The display of road safety information for pedestrians and drivers at all Group Subsidiaries;

- Regional forums on road traffic safety. These were held in Nefteyugansk, Ufa and Samara with the participation of representatives of the Group Subsidiaries, contractors, road traffic police and the administration of state vehicular control. Presentations reported about current results in transport safety and best practices in this area.

"Dome" Innovative Digital Transport Safety System in Uvatneftegaz

In 2019, specialists of Tyumen Oil Research Center developed and commissioned the "Dome" which is an innovative mobile application for improving drivers' safety.

This application allows dispatchers of the data center at any time to know both the condition of the driver and the vehicle as well as the road traffic situation. It can also transfer data, if necessary, to the technical assistance services, to inform drivers about the location of important stopping areas or to help find necessary solutions to emergency situations. Through

the mobile application, the drivers also receive up-to-date maps and alerts about changes in the road traffic situations as it accumulates data on the road traffic situation and the weather conditions. These updates help to reduce downtime and can provide detours which are especially helpful during the winter and flood months and can also prevent drivers from traveling to high risk areas where weather conditions are changing.

The application connects to the on-board systems of more than 2,000 vehicles, which send signals to a single data center. All motor vehicles on the road or working in the fields are displayed on the data center monitors. In the event of a loss of signal from the vehicle, speeding or unauthorised driving on a winter road, an incident is recorded on the system.



"Caution, children!" preventive days

In order to prevent injuries to children from road traffic accidents from August to September 2019, the Group Subsidiaries held the traditional preventive days called "Caution, children!".

The Group Subsidiaries took an active part in this programme with leaflets, brochures and memos issued with a reminder of the importance of observing the speed limit when driving near children's pre-school and general education institutions and courtyards.

Teams and schoolchildren attended meetings with the Road Traffic Police of Russia, where they were able to refresh their knowledge on the basic requirements of road and vehicle safety.



Air flights safety

Air transportation of personnel is an important part of the Company's transportation logistics and to avoid aviation accidents, the Company continuously analyses the causes of industry accidents, reviews lessons learned and develops solutions to prevent such accidents within Rosneft.

Rosneft strictly ensures that Contractor employees have the necessary training and skills in flight safety.

In 2019, Rosneft joined the new Customers Committee of the Russian Helicopter Industry Association. Management of the Association includes airline heads, aircraft division heads – experienced and honored pilots, representatives of major enterprises. The Committee was created to support the work of the flight safety, technical, flight and economic committees.

The following are the key tasks of this new Committee:

- Integration of the best global flight safety risk management practices;
- Provision of pricing transparency;
- Development of common approaches for customers to interact with the helicopter services market;
- Creation of uniform requirements for provision of services and technical specifications of helicopters and level of personnel training, as well as infrastructure requirements.

Work in the committee will allow the helicopter service customers to collect and analyse data that is not available in the public space, but necessary for making strategically important decisions while working with the helicopter industry.

Transportation of shift crews to fields of the Uvat group

Rosneft has been consistently implementing a policy to improve the aviation safety across its business in service of its operating facilities. The Company has set higher standards for both aviation equipment and the qualifications and training for aviation personnel. The Company's aim is to have the most modern domestic aviation equipment equivalent to high global standards, capable of providing the quality of services required at a competitive price.

Every month, about 3,000 shift personnel from RN-Uvatneftegaz and contractors are carried to the fields by helicopters from the cities of Surgut, Tyumen and Tobolsk.

In 2019, new domestic Mi-171A2 class helicopters launched flights for transportation of the shift personnel to the fields of the Uvat group of RN-Uvatneftegaz LLC.

The Mi-171A2 class is equipped with a modern digital

flight-navigation system with display indication, an increased power unit with a digital control system, enhanced transmission, as well as an effective tail rotor and a new rotor with all-composite blades of an improved aerodynamic layout. These features allow an increase in helicopter flight speed, expansion of the scope of application and reduction in the cost of flight hours.



#5

EMERGENCY RISK MANAGEMENT



« The Company has put in place a comprehensive emergency prevention and response system and adheres to the highest corporate safety standards to eliminate even the slightest risk of emergency.

**Christoph
NEHRING**

Vice President of Rosneft for Health,
Safety and Environment

- 111 Emergency Risk Management
- 112 Emergency Prevention
- 114 Emergency Response
- 115 Employee Training in Emergency Response



3 GOOD HEALTH
AND WELL-BEING



To achieve production safety, it is essential to minimise the risk of accidents that can escalate into emergencies. Emergencies may result from natural hazards (natural disasters) seriously affecting the Group Subsidiaries, such as wildfires, hurricanes, heavy rains, floods (freshets), snowstorms, abnormal frosts, and earthquakes. [GRI 102-15](#) [GRI 103-1](#)

ROSNEFT'S EMERGENCY PREVENTION AND MANAGEMENT OBJECTIVES INCLUDE:



Mitigating emergency risks at the Company's sites



Maintaining the guaranteed level of staff safety in case of a potential or actual emergency



Ensuring the life safety of local communities across the Company's footprint in case of a potential or actual emergency as required by Federal Law No. 68-FZ on Protection of Population and Territories from Natural and Man-Made Disasters dated 21 December 1994



Making the Company's assets and environment better protected against emergencies



Minimising emergency consequences, including related damage and losses



Results of 2019

As a result of the efforts taken, the Company's sites had no natural or man-made emergencies.

Emergency Risk Management

Emergency prevention and response activities are part of the corporate risk management system.

A two-tier regulatory framework plays an important role in emergency risk management. At the corporate level, we have introduced company-wide requirements, approaches and objective to implement, coordinate and improve emergency prevention and response measures. The Group Subsidiaries take all steps to ensure compliance with these requirements.

One of the Company's priorities is to update and align its internal regulations on emergency prevention and response with the Russian laws and regulations. We also arrange for a timely revision of SOPs, forms and timelines for submitting the required information.

The Company has put in place all the essential regulations to identify and assess potential threats, and develop measures to mitigate and eliminate them.

The Company manages emergency risks using a corporate subsystem made up of the Group Subsidiaries' on-site teams. The subsystem is part of Russia's Single State Disaster Management System.

The head of the corporate subsystem is Rosneft's Chief Executive Officer. On-site teams are headed by CEOs of the respective Group Subsidiaries.

On the corporate level, the Emergency Response Centre is in charge of coordinating emergency prevention and response activities. The Group Subsidiaries have set up permanent units responsible for protecting employees and the business in case of emergencies. These units operate as part of the corporate emergency management subsystem and respective on-site teams.

The Group Subsidiaries' on-site teams report to emergency prevention and response and fire safety commissions, with duty dispatch services also put in place for the day-to-day management, 24/7 situation monitoring and a timely response to any arising threats. In doing so, they may be assisted by temporary bodies (task forces and teams).

Emergency (incident) response operations are carried out by the on-site teams' constant readiness forces represented by specially equipped in-house and outstaffed professional squads.

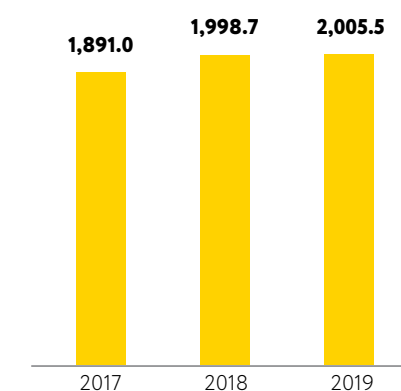
To provide information support of the corporate emergency management subsystem, the Company operates communication, alarm and automated management systems. We use corporate satellite connection to ensure prompt and reliable communication with the Group Subsidiaries through telephone and video channels. All Group Subsidiaries have set up local and on-site alarm systems

In 2019, the Company-wide emergency reserves exceeded

2
RUB bln

and put aside financial and non-financial reserves for emergency prevention and response. These reserves are channelled to carry out rescue and other response activities, organise and maintain accommodation and food supply for accident victims, provide one-off financial aid and take other urgent measures to ensure stable operations in case of an emergency. [GRI 103-2](#)

Financial and non-financial reserves for emergency prevention and response, RUB mln





Emergency Prevention

In 2019, the Company put into effect an action plan to make its employees, equipment and assets and the environment better protected in case of emergencies. The steps include:

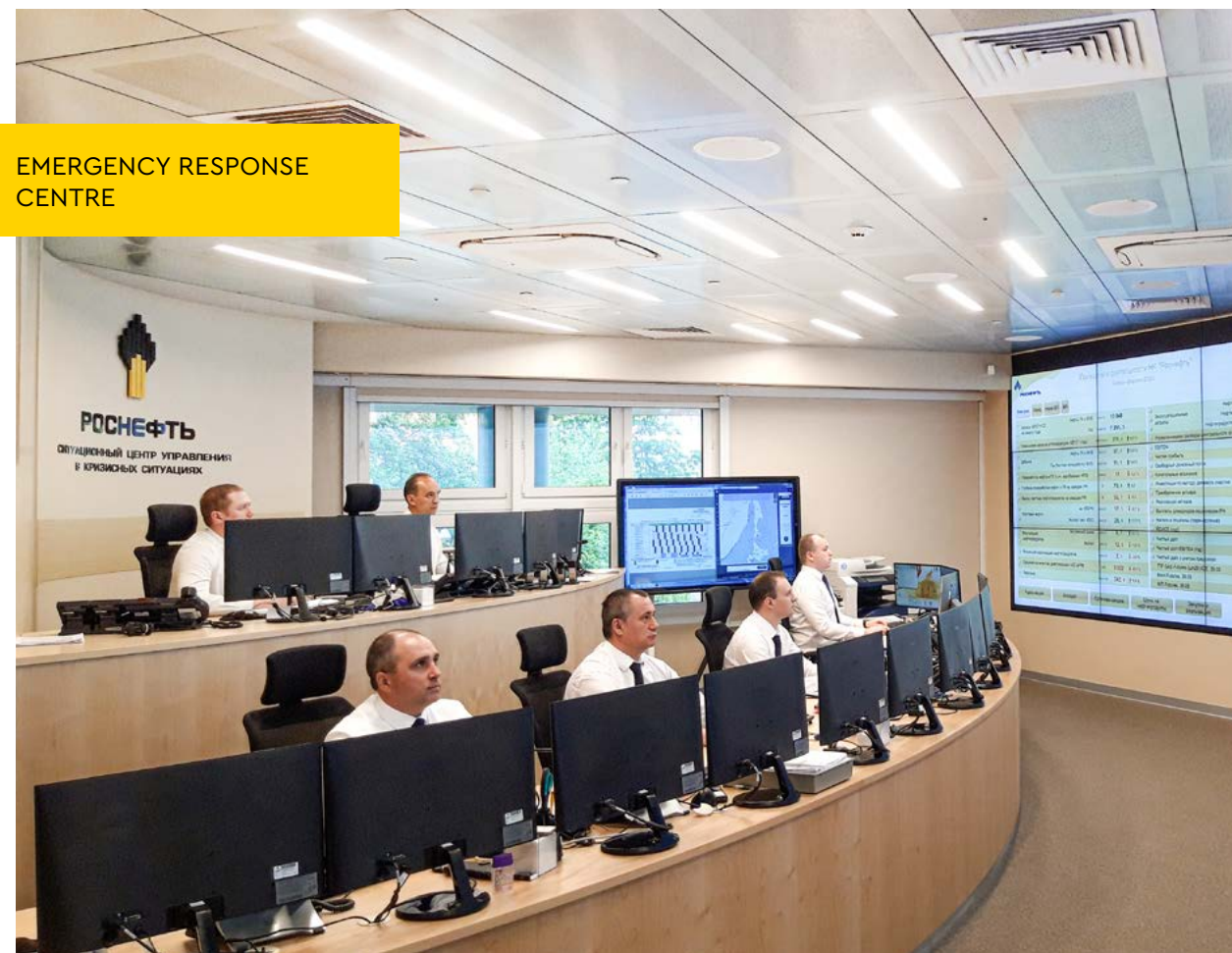
- updating the Company's internal regulations on emergency prevention, management, and prompt response in case of a potential or actual emergency;
- mitigating the potential risks of fatalities and negative effects of emergencies, fire prevention, introducing advanced fire-fighting and rescue techniques;
- improving staff knowledge and skills and ensuring emergency preparedness of the relevant emergency response bodies and on-site teams of the Group Subsidiaries;
- effective use of information resources for emergency prevention and response;
- set-up, training and certification of in-house and outstaffed professional rescue teams in the Group Subsidiaries;
- establishing and ensuring the operability of local and on-site alarm systems to inform Group Subsidiaries employees about potential and actual emergencies;
- strengthening communications between the Group Subsidiaries' on-site emergency teams and the management bodies and units of the functional and regional emergency subsystems.

As part of the Company's social guarantees in case of an emergency, all employees of the Group Subsidiaries have compulsory and voluntary accident insurance.

The reporting year saw the creation and launch of the Emergency Response Centre's risk management information system.

Four Group Subsidiaries are running a pilot project to integrate their dispatchers into a shared crisis response service.

EMERGENCY RESPONSE
CENTRE



Prevention of Man-Made Disasters

In 2019, the Company's sites took the following key steps to minimise the risk of accidents and prevent their escalation into man-made disasters:

- assessing potential threats of man-made accidents to take preventive actions and mitigate the impact on Company's assets;
- ongoing monitoring of compliance with process flow requirements;
- employee training in emergency prevention and response;
- keeping emergency containment and fire-fighting equipment in constant readiness;
- upgrade of technical infrastructure, engineering networks and equipment, routine preventive repairs of the core equipment;
- furnishing production units with automatic systems to monitor the accidental release of hydrogen sulphide, hydrogen chloride and organic substances.

Prevention of Natural Disasters

Every year, the Group Subsidiaries take a number of preventive and mitigating steps to ensure accident-free operation of assets, preparedness and prompt response of relevant bodies to natural disasters.

During the 2019 spring flood season, Rosneft and the Group Subsidiaries planned preventive measures, prepared river breakup outlooks by federal district, developed and distributed the guidelines to mitigate the effects of summer and autumn freshets.

The Group Subsidiaries created flood response bodies, implemented preventive action plans to get ready for the accident-free operation in spring freshets, updated the list of facilities most exposed to floods, and established communications with regional and municipal commissions for emergency prevention, response and fire safety. They also checked the preparedness of the relevant bodies and on-site teams, reviewed financial and non-financial reserves and arranged for a proactive build-up of resources at locations with high flood risks.

In March 2019, the Company organised tabletop exercises and training for the emergency management bodies and on-site teams of the Group Subsidiaries to prevent accidents and protect employees, production sites and other facilities against spring freshets.

Thanks to the preventive measures, the Group Subsidiaries had no accidents during the flood season.

In 2019, the Group Subsidiaries developed and implemented measures to ensure fire safety and timely prevention of wildfires near oilfields and production sites. They also teamed up with Russia's local forest protection squads to monitor fire risks in the Group's regions of operation. The Group Subsidiaries' facilities were kept safe from wildfires in 2019.



Emergency Response

The Group Subsidiaries took the following steps to ensure a prompt and effective response to potential emergencies:

- updated action plans on emergency prevention and response based on the study of natural and man-made risks;
- improved the alarm systems designed to notify the Group Subsidiaries' response teams and constant readiness forces in case of an emergency;

- provided for the set-up, certification and operation of 71 emergency rescue squads;
- signed agreements with external professional response teams to protect facilities that have no dedicated in-house services.

Both in-house squads and emergency response contractors have all the necessary vehicles, equipment and tools in place to ensure an effective response to any emergency as required by federal laws.

In 2019, the Group Subsidiaries responded fast to the warnings from municipal dispatch services by transitioning its specialist forces and teams into high alert mode, which helped prevent on-site emergencies.



THE COMPANY IS IMPROVING THE ALARM SYSTEMS DESIGNED TO NOTIFY THE GROUP SUBSIDIARIES' RESPONSE TEAMS IN CASE OF AN EMERGENCY

Employee Training in Emergency Response

The Company focuses on staff training in emergency response and ensuring the preparedness of the Group Subsidiaries' dedicated bodies and teams. Nearly 300 thousand employees took the training in 2019.

To assess the emergency preparedness, the Company held 79 comprehensive, 264 tabletop and 205 tactical training exercises, along with 42,605 on-site training sessions.

June 2019 saw the Company hold an instructional meeting on civil defence, emergency prevention and response measures in Samara. The event was attended by ca. 200 heads of civil defence and emergency units from the Group Subsidiaries as well as heads of the Company's sites located in the Samara Region.

The participants reviewed the reporting year's emergency prevention and response activities and defined short-term objectives.

To improve their professional knowledge, they also took part in a training session on the best practices in maintaining the facilities ready for use and theoretical classes on the response to various emergencies.

Every year, the Company holds competitions to recognise and award the achievements of its subsidiaries in civil defence, emergency prevention and response.

In 2019, the Russian Ministry for Civil Defence, Emergencies and Elimination of Consequences of Natural Disasters conducted 25 audits of the Group Subsidiaries' emergency prevention and response activities, with gaps identified only with respect of two sites (no penalties imposed).

The Company's Head Office consistently monitors the measures taken to eliminate the identified gaps and provides methodological support to relevant units. The reporting year also saw the audits of emergency prevention and response systems in 36 Group Subsidiaries. **GRI 103-3**

In the reporting year,

155
facilities

took part in the competition



IN 2019, ABOUT 300 THOUSAND EMPLOYEES OF ROSNEFT WERE TRAINED IN EMERGENCY PREVENTION AND RESPONSE



#6

R&D AND DIGITAL TRANSFORMATION



"Developing new technologies and implementing digital innovations is key to boosting the efficiency of all business processes, from production and refining to sales to the end consumer. As part of its development strategy, Rosneft is undergoing a full-fledged transformation aimed at increasing its competitiveness in the oil market."

Andrey Shishkin

Vice President for Informatisation, Innovation and Localisation, Chairman of the Energy Efficiency Commission

- 118 Innovation Management
- 120 Key Achievements in Innovative Development
- 123 Energy Saving and Energy Efficiency
- 125 Digital Transformation
- 129 Development of R&D Capabilities
- 138 Exploration of the Arctic Shelf and Operational Safety on Shelves of Freezing Seas



The Company implements innovative projects in various areas, including oil and gas production, oil refining, and petrochemicals. For details, see p. 118



Innovation Management

Strategic Objectives in Innovative Development

Rosneft carries out its innovative activities in accordance with the Innovation Development Programme approved by its Board of Directors. The Programme aims to achieve the Company's strategic goals drawing on its priorities, such as efficiency, sustainable growth, transparency, social responsibility, and innovations. [GRI 103-1](#)

The Company uses the Programme to build a portfolio of innovative projects, with every new technology developed under a separately financed target innovative project (TIP). TIP is the main tool used by the Company

to deliver on its innovation strategy. Key projects are selected from the TIP portfolio for approval by the Company's Scientific and Technical Council. [GRI 103-2](#)

OBJECTIVES OF THE INNOVATION DEVELOPMENT PROGRAMME



Development and deployment of new technologies



Development, production, and launch of new world-class innovative products

In 2019, Rosneft's R&D costs amounted to RUB 30.05 bln, including RUB 3.4 bln spent on target innovative projects.



Enhancement of the Company's shareholder value and competitive edge in the global market



Support to the Company's modernisation and technological advancement through high-impact improvements in key performance indicators for business processes

30.05
RUB bln.
spent on R&D in 2019

Technological Council

In 2018, Rosneft set up a Technological Council to manage its innovative initiatives. The Council reviews promising technologies and oversees their effective implementation to help the Company deliver on its innovative

development strategy and ensure technological growth in key areas. [GRI 103-3](#)

The Council comprises heads of Rosneft's shareholder companies and technology partners, including

members of the Board of Directors, researchers, industry experts, and top managers of the Company.

Implementation of Advanced Technologies

The reporting year saw 22 Group Subsidiaries test 152 technologies. Over the year, the Company conducted a total of 511 tests as part of pilot projects, which yielded 299 kt in incremental oil production. We reviewed the results, assessed the economic

viability of proposed solutions, and prepared plans for their roll-out.

In 2019, the Company implemented and rolled out 116 new technologies which proved their viability following prior tests.

Rosneft spent RUB 3.2 bln to deploy and roll out 6.7 thousand solutions.

Testing and adoption of innovations in 2019

Area	Number of technologies	Total incremental oil production, kt	Total economic effect, RUB mln
Technology testing	297	130	463
Technology roll-out	78	283	659

As part of implementing Target Innovative Projects, the Company signed over 50 licence and sub-licence agreements for the transfer of its software and solutions (RN-KIN, RN-GRID SS) worth over RUB 90 mln, among other things to provide training to students at the industry-related departments of the leading Russian universities.

In 2019, the combined proven economic effect from the innovative technologies implemented over the last three years exceeded RUB 36 bln.

152
new technologies tested



For details on software suites, see the Long-term Leadership in Mathematical Modelling section of this Report.

116
technologies implemented and rolled out in 2019



RN DIGITAL, Rosneft's reservoir engineering software

>36
RUB bln
combined proven economic effect from the innovative projects implemented over the last three years

¹ Software suite.



Key Achievements in Innovative Development

Efficient Implementation

The Company implements innovative projects in various fields, including oil and gas production, refining and petrochemicals.

63
patents
received in 2019

61
applications
for patents and software
certificates submitted

735
patents
recorded on the Company's
balance sheet in 2019

ACHIEVEMENTS IN KEY AREAS OF INNOVATIVE DEVELOPMENT IN 2019



Exploration and Production

The Company tested the technology for using horizontal production and injection wells with multi-stage hydraulic fracturing to develop low-permeability reservoirs at a pilot area of the Prirazlomnoye field. The solution proved to be effective. RN-Yuganskneftegaz continued to deploy the technology at the Priobskoye field, with over 80 wells drilled in total.

Rosneft developed a technology to tap into the Berezovskaya suite and submitted the respective intellectual property application. The technology was tested to localise deposits at the Berezovskaya suite. As a result, the Company booked over 150 bcm of in-place reserves and 60 bcm of recoverable reserves of natural gas at the Berezovskaya suite.

Rosneft partnered with the National Intellectual Development Foundation to test the integration technology for multi-scale studies of the Jurassic high-carbon formation.

The Company developed technologies for core analysis on hard-to-recover reserves. Once implemented, the technology is expected to deliver an economic effect of over RUB 10 bln for gas and gas condensate deposits in the Yamalo-Nenets Autonomous Area and the Khanty-Mansi Autonomous Area – Yugra.



Research-intensive Technology Software

New software modules were added to RN-SMT, an integrity monitoring system for oilfield pipelines.

The Company issued more than 30 commercial licences and over 40 trial licences to 25 oilfield service companies and oil and gas companies as well as over 140 academic licences to four partner universities.

In 2019, the Company developed an RN-KIM version that allows for a quick modelling of oil and gas condensate fields that require computation-intensive analysis. As a result, about 80 % of digital field modelling works were performed using RN-KIM.

RN-Geosim added software modules for building vertical and tilted faults for structural surfaces, visualising seismic cubes, multipoint statistics, basic reports on geological models, and parallel computations. RN-Geosim is anticipated to cover up to 80% of the Company's needs for geological modelling.

RN-Simtep added software modules for modelling oil and gas production processes. Going forward, RN-Simtep will cover up to 80 % of the Company's needs for production process modelling.

The Company developed a concept for RN-PetroLog, a corporate software suite for interpretation of core samples and well log data.



HSE Technologies at the Company's Sites

Tyumenneftegaz obtained initial data required to procure the equipment for a modular preliminary water discharge unit.

At Bashneft-Ufaneftekhim, the biological treatment facility with a membrane bioreactor was ramped up to design capacity, reaching the highest productivity in Europe.

The Saratov Refinery sealed the open oil separator of the water recycling system.

The Novokuibyshevsk Oils and Additives Plant commissioned a water recycling unit and a wastewater treatment plant.

The Syzran Refinery conducted the first tests of unmanned aerial vehicles for pipeline integrity monitoring.



Associated Petroleum Gas Monetisation

Rosneft developed a laboratory-level GTL¹ technology which allowed for mixing synthetic and mineral oil to produce commercial petroleum products compliant with the existing quality standards.

Rosneft partnered with the National Intellectual Development Foundation

to design, manufacture and deliver a pilot APG desulphurisation plant based on microporous membranes for the preliminary water discharge facility.



Oil Refining, Gas Processing and Petrochemicals

Rosneft developed a laboratory-level technology to regenerate xyleneol and butylated fire-resistant oil wastes intended for high-powered turbines, including at nuclear power plants.

The Company successfully tried the hydrogenation technology for converting acetone into isopropanol at its pilot testing facility and ran endurance tests on a catalyst batch used in the process.

The Company arranged for independent tests at its refineries with a view to streamlining dispersant and depressor additives for diesel fuels. It also developed the composition thereof and a process to produce the same.

Rosneft developed a laboratory-level technology to produce isopropylbenzene using heterogeneous catalysts.

It also developed the composition and a process to produce heterogeneous catalysts for benzene alkylation with propylene and transalkylation.

Rosneft ran endurance tests on a pilot batch of hydrotreating catalysts for diesel mixtures.

The Company developed and patented Russia's first-ever additive package for all-season hydraulic oils.

The Company developed its own line of guard catalysts and materials for catalytic reactors

Energy Saving and Energy Efficiency

Rosneft is one of Russia's major consumers of fuel and energy. In 2019, it consumed a total of 612 million GJ of energy worth RUB 240 bln. **GRI 302-1**

GRI 103-1

Due to high consumption volumes, the Company pays much attention to reducing and optimising the use of fuel and energy resources. Rosneft's energy management system is based on principles and approaches set forth in the Company's Energy Efficiency and Energy Saving Policy. In 2013, the Company established its Energy Efficiency Commission, which implements advanced solutions and approaches to energy efficiency management and development of the energy management system in line with ISO 50001. The cornerstone

of the energy management system is Rosneft's Energy Saving Programme drafted for every five-year period and updated annually. **GRI 103-2**



The Company's Energy Efficiency and Energy Saving Policy is available on its website

Every year, the Company takes steps to ensure reliable and uninterrupted energy supply of the existing and prospective production assets.

41 Group Subsidiaries accounting for over 95 % of the Company's total energy consumption were certified to ISO 50001 for Energy Management Systems

8

technical audits of the quality of power facility management

908

remedial actions completed

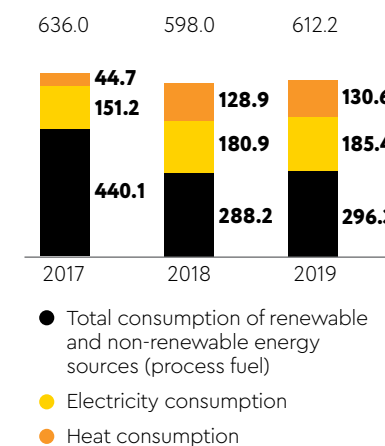
5%

reduction in oil production shortages caused by power failures

GRI 103-3

Energy consumption, mln GJ

GRI 302-1



Employee Training in Energy Efficiency

To increase awareness about energy efficiency and energy saving among the Company's workforce, four corporate training programmes were launched in 2019 at Group Subsidiaries:

- Maintaining formation pressure in a more energy-efficient manner;
- Improving energy efficiency of the systems for gathering, treatment, and transport of production fluids;
- Better energy efficiency for oil refining and gas processing facilities;
- Enhanced energy efficiency of the energy supply, heat supply and power generation facilities.

The training programmes are delivered through Rosneft-Termneft (a subsidiary of Rosneft), which possesses the expertise, competencies and practical skills in improving energy efficiency, and regularly inspects all Group Subsidiaries certified to ISO 50001 for energy efficiency. The Company plans to train ca. 500 employees of the Group Subsidiaries annually.

¹ Gas-to-Liquid.



WHAT STEPS WERE TAKEN DURING THE REPORTING PERIOD TOWARDS SAVING FUEL AND ENERGY AND DEVELOPING THE ENERGY MANAGEMENT SYSTEM GRI 302-4

SUCCESSFUL IMPLEMENTATION OF THE ENERGY SAVING PROGRAMME

- 877 ktce or 26 mln GJ of fuel and energy were actually saved, 14% above the target approved by Rosneft's Board of Directors for 2019
- RUB 10.9 bln – in energy savings
- RUB 2.05 bln – spent on the programme

DEVELOPMENT OF ROSNEFT'S ENERGY SAVING PROGRAMME FOR 2020–2024

- 2.69 mln tce or RUB 38.8 bln expected to be saved on fuel and energy within the next five years

DEVELOPMENT AND IMPLEMENTATION OF NEW COMPANY REGULATIONS

- Regulations on Planning and Measuring the Actual Energy Saving Effect from Energy Saving Programmes at In-House Service and Marketing and Distribution Group Subsidiaries and Marine Terminals

INTERNAL ENERGY EFFICIENCY ASSESSMENT

- 19 Group Subsidiaries assessed in both upstream and downstream

ESTABLISHMENT OF CORPORATE TRAINING CENTRE FOR ENERGY EFFICIENCY

- 352 employees of the Group Subsidiaries trained
- 20 employees of Rosneft completed energy efficiency internships at China National Petroleum Corporation (CNPC)

ISO 50001 CERTIFICATION

- Six Group Subsidiaries were certified: Sorovskneft, Bashneft-Polyus, Ufaorgsintez, branches of Bashneft – Ufaneftekhim, Bashneft-Novoil, and Ufa Refinery
- 41 Group Subsidiaries accounting for over 95% of the Company's total energy consumption in 2019 were certified to ISO 500050001

As part of technical audits, the Company also checks if its sites operate equipment in compliance with health and safety requirements.

Rosneft's Energy Saving Programme for 2019–2023 provides for saving more than RUB 49 bln on fuel and energy resources with RUB 16 bln invested. 81 Group Subsidiaries

will be covered by the Programme. The Company plans to reduce energy consumption by streamlining its processes and using energy efficient equipment and technologies in its core operations.

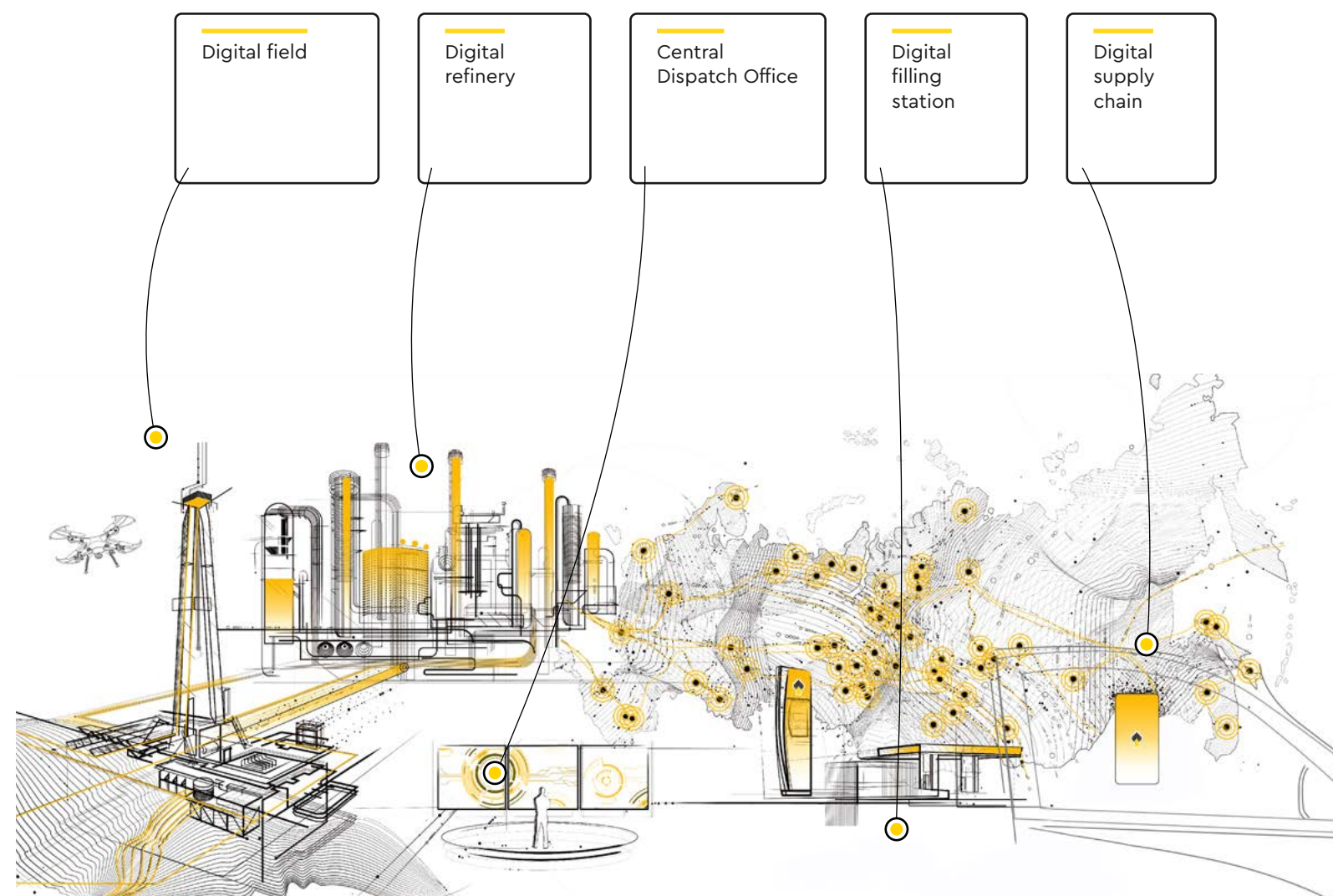
Digital Transformation

Accelerated Digital Transformation Programme

Technological advances, improved workplace safety, accident-free operations, and low environmental impact are crucial for the Company's sustainable operational performance. GRI 103-1

As part of the Rosneft–2022 Strategy, the Company approved its Comprehensive Accelerated Digital Transformation Plan, which is currently deployed across the Group Subsidiaries and expanded to new businesses and functions.

ROSNEFT: DIGITAL TRANSFORMATION MAP





Group Subsidiaries develop and implement end-to-end technologies, including predictive analytics, advanced visualisation, machine learning, big data, and industrial internet of things, applicable to all Company's processes.

Powered by an internal IT integrator, Rosneft operates a Digital Transformation Centre and Digital Cluster created to enable digital programme implementation by searching and assessing innovative products, adapting solutions to business needs, and testing them at Group Subsidiaries.

GRI 103-2

The Digital Cluster consists of: analytical centre to monitor trends in the Russian and international technology and solution markets;

- prototyping site facilitating faster deployment and testing of proprietary and partners' solutions;
- in-house digital development centres;
- partnership centre;
- acceleration and customer experience design centre;
- business transformation centre responsible for target process design and culture transformation when implementing digital solutions;
- digital development showroom to display digital solutions for interacting with customers and partners.

Within the cluster, around 20 product teams work across the whole range of end-to-end technologies. There is also an acceleration platform for interacting with the innovative start-up market. Eight external start-ups shifted to the prototype and testing phase as part of digital transformation programmes for functions and businesses.

In 2019, the Company participated in major digital transformation events and presented its digital solutions at key industry and technology fora. In particular, the 23rd St Petersburg International Economic Forum saw Rosneft presenting its ten developments which will be piloted by Group Subsidiaries.

With clear progress on its digital maturity journey, in 2019 the Company updated the initial range of digital scenarios to intellectualise the Group Subsidiaries' existing operations, create digital products within a short timeframe, and assess the effect of their implementation for deciding whether they should be rolled out in other Group Subsidiaries.

Today, the digital transformation programme offers more than 120 scenarios factoring in the nature and management maturity of the Group Subsidiaries to be digitalised.

On average, 70 % of the key digital programmes were completed with a 23 % increase in 2019, laying groundwork for successful delivery on all of the Company's digital transformation targets.

Digital transformation and UN Sustainable Development Goals

Rosneft is guided by the UN Sustainable Development Goals and takes them into account when developing and implementing its digital solutions.

To support the Company's climate change targets (SDG 13 *Climate action*), we work hard to develop solutions for safe and accident-free operation of our productions facilities. For example, the Gas business started piloting an initiative to prevent natural gas – primarily methane – leakages.

Working towards SDG 3 *Good health and well-being*, the Company is developing comprehensive digital HSE solutions. For example, Group Subsidiaries have already piloted technologies that use computer vision and neural networks to find people in hazardous areas, track PPE availability and alert to dangerous situations.

Key Achievements in 2019



Exploration and Production



For details on drone monitoring in Exploration and Production, see p. 189 of the 2019 Annual Report

Artificial intelligence was tested to analyse video stream from production facilities of the Varyeganneftegaz and RN-Yuganskneftegaz drilling sites. The monitoring promotes discipline, protects life and health of employees, helps to comply with technical regulations and reduce environmental risks.

A drone monitoring system successfully passed flight tests at RN-Krasnodarneftegaz and Varyeganneftegaz, including in winter conditions. It consists of a proprietary unmanned aerial vehicle which can be equipped with a video camera, IR imager and laser gas sensor for methane leakages, as well as a charging and storage station and flight mission

management software. The system will autonomously monitor infrastructure facilities and oil pipelines, thus significantly reducing human involvement. It relies on a computer vision technology to automatically scan protected areas to identify whether people or machinery are present there, and notify of petroleum product spills and methane leakages.



Gas

Sibneftegaz installed a multi-functional device with an IR imager at a gas well cluster for remote monitoring and gas leak control. This solution helps to prevent dangerous accidents and breakdowns as well as provides efficient control over emissions of methane, one of key greenhouse gases generated by hydrocarbon production.

Sibneftegaz has been piloting a machine learning-based solution for online interpretation of telemetry data collected from a gas well and for determining whether any extra survey is required.

ROSPAN INTERNATIONAL started testing of a solution for remote monitoring of abandoned and suspended wells. The Company expects to use this solution to monitor well pressure, detect dangerous gas concentrations in areas adjacent to its facilities and significantly reduce the need for engaging its staff and helicopters for regular inspections of isolated assets



Oil Refining

Rosneft piloted a system for optimised blending of petroleum products at the Syzran Refinery and initiated its rolling out at other Group Subsidiaries.

- A pilot project to improve the efficiency of process equipment performance management is in progress at Ryazan Oil Refining Company.

Technologies were tested for the following projects:

- using IR imagers to monitor equipment;
- robotised oil tank cleaning;
- mobile solution for inspections in the course of maintenance and repair;
- comprehensive staff monitoring (inspections of operators, contractor tracking) with wearable devices and beacons.

Technologies tested:

- drone-based monitoring of refinery perimeters and product leakages;
- energy efficiency monitoring;
- energy balance and optimisation.



For details on the use of unmanned aerial vehicles by the Refining Business, see the Pipeline Inspection Technologies section of this Report.



Petrochemicals

Novokuibyshevsk Petrochemical Company tested a safety monitoring and employee control technology using a combination of computer vision, neural networks and conventional video analytics. This solution helps to identify risks of incidents.

parameters (air temperature and atmospheric pressure), monitoring of production routines such as regular inspections of process equipment and production facilities both inside and outside

Ufaorgsintez piloted a prototype hardware and software solution for the comprehensive monitoring of production staff, including employee tracking on site, monitoring of employees' physical condition, measurement of environmental

Information Security

Recognising the current information security challenges and threats posed by accelerated automation and digital transformation of the business and production processes, Rosneft at all times keeps focus on ongoing improvement of information security management, real-time monitoring and assessment of its IT assets security.

The Company has developed and is implementing a set of projects geared towards delivering on its information security strategy. One of the Company's priorities is to roll out a mechanism of proactive response to and prevention of cyberattacks.

Another important task is to promote corporate culture, awareness, and skills related to information security. All in-house users are updated about existing computer threats, while the IT staff are trained in prompt computer incident response. In 2019, over 1.5 thousand employees of both Rosneft and Group Subsidiaries took part in IT staff drills.

Development of R&D Capabilities

Corporate Research and Design Complex

Rosneft's corporate research and design cluster boasts powerful infrastructure and research capabilities with its products covering all business areas – from field development to retail operations.

RANGE OF SERVICES AVAILABLE AT THE CORPORATE RESEARCH AND DESIGN CLUSTER



SCIENCE IN EXPLORATION AND PRODUCTION

- Laboratory research
- Exploration
- Design and support of hydrocarbon development
- Drilling support
- Production engineering



DESIGN IN EXPLORATION AND PRODUCTION

- Conceptual design
- Engineering survey
- Design and working documentation
- Construction



DIGITAL SERVICES (IT SERVICES)

- Design automation
- Import substitution of research intensive specialist software
- Advanced data analysis methods (Big Data)



SCIENCE IN OIL REFINING, GAS PROCESSING AND PETROCHEMICALS

- Petrochemicals
- Oil Refining
- Gas processing and conversion
- R&D support



DESIGN IN OIL REFINING, GAS PROCESSING AND PETROCHEMICALS

- Feasibility study
- Pre-FEED
- Engineering services
- 3D engineering
- Consulting
- Improving economics of oil refining, gas processing and petrochemicals



GEOGRAPHY OF THE CORPORATE RESEARCH AND DESIGN CLUSTER

29

corporate R&D and design
institutes

43

specialised
institutes

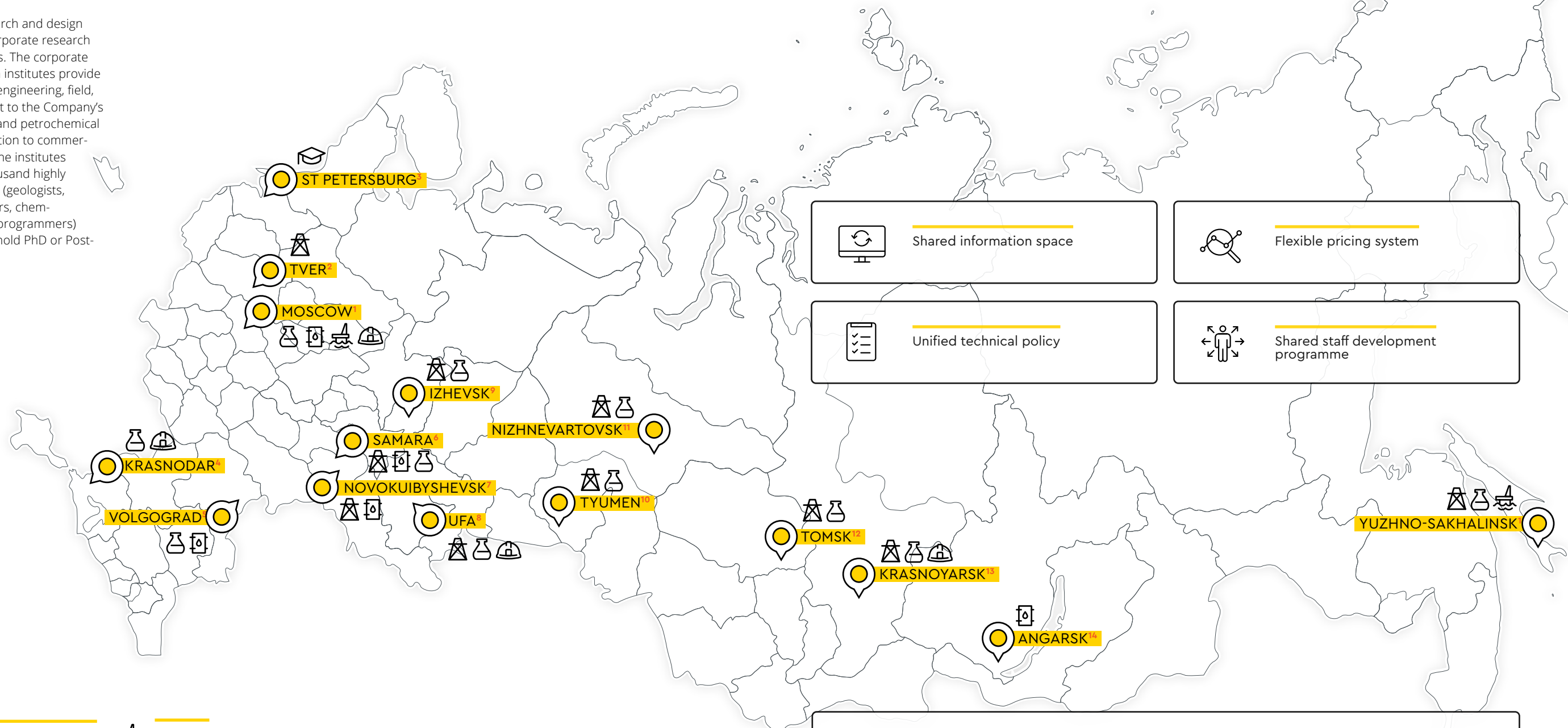
>15
thousand

highly skilled employees

>100

customers

The corporate research and design cluster unites 29 corporate research and design institutes. The corporate research and design institutes provide the entire scope of engineering, field, and in-office support to the Company's oil, gas, oil refining, and petrochemical assets from exploration to commercial end-products. The institutes employ over 15 thousand highly skilled professionals (geologists, developers, designers, chemists, physicists, and programmers) of whom about 4% hold PhD or Post-Doc degrees.



Shared information space



Flexible pricing system



Unified technical policy



Shared staff development
programme



Exploration and Production,
gas



Shelf



Laboratory research



Construction
supervision



Oil Refining, Gas Processing
and Petrochemicals



Process equipment

- VNIPIneft¹
- VNII NP
- RN-TsIR
- INIRGI
- Burovaya Technika
- ANTs
- RN-Stroykontrol
- TsIR
- Slavneft-NPTs²
- Sapphire³
- Rosneft-NTC⁴
- VNIKTineftekhimoborudovaniye⁵
- SamaraNIPneft⁶
- Samaraneftekhimproekt VOIG and RGI
- SaNIINP⁷
- RN-BashNIPneft⁸
- Bashgiproneftekhim
- INNts⁹
- TNNTs¹⁰
- Giprotymenneftegaz

- SibNIINP
- NizhnevartovskNIPneft¹¹
- TomskNIPneft¹²
- RN-KrasnoyarskNIPneft¹³
- Angarskneftekhimproekt¹⁴
- RN-Sakhalin¹⁵
- NIPImoreneft SNGT
- RN-MTsIR (Doha, Qatar)¹⁶



Rosneft manages its research and design institutes in a centralised manner. Lead institutes are in place for each of the Company's businesses to monitor and improve R&D activities at the corporate research and design

institutes. Specialised institutes focus on developing niche technologies, including research, development, testing, and commissioning of new technologies and design solutions.

SamaraNIPneft – corporate institute specialising in ecology

Since 2016, Rosneft has been operating a corporate institute specialising in ecology to facilitate the Company's target of minimising its environmental impact across its footprint. In 2019, the following was completed:

- a drilling waste volume estimation methodology was developed to underpin the Company's guidelines introduced in the reporting year. Applicable to all Group Subsidiaries, the document sets algorithms used to estimate drilling waste volumes when drafting design and environmental compliance documentation;
- quantitative assessment of the Company's GHG emissions was carried out;

- feasibility studies were developed to support the use of certain technologies and methods of managing waste generated by construction and installation operations at the Kuibyshev Refinery;
- development of comprehensive environmental permits was launched for the Group's upstream Subsidiaries such as RN-Yuganskneftegaz, Samaraneftgaz, and Orenburgneft.

The institute also delegated its experts to Rosprirodnadzor's Scientific and Technical Council task forces engaged in updating environmental regulations. In addition, SamaraNIPneft hosted the 2nd conference on environmental

safety, important law enforcement trends, and improvement of environmental practices. The conference was attended by 105 representatives of 40 Group Subsidiaries, including seven corporate R&D institutes. The participants discussed some of the most pressing issues related to new environmental law requirements and enforcement mechanisms; the Company's scientific and practical waste management solutions; regional environmental agenda and comprehensive resource management. The guests described the discussions and exchanges as highly useful, and appreciated the practical aspect of the conference.

CENTRALISED MANAGEMENT SYSTEM OF CORPORATE RESEARCH AND DESIGN INSTITUTES

LEAD INSTITUTES OF THE CORPORATE RESEARCH AND DESIGN CLUSTER BROKEN DOWN BY SEGMENTS

43

specialised institutes



Science in exploration
and production



Science in oil refining,
gas processing
and petrochemicals



Design in exploration
and production



Design in oil refining,
gas processing
and petrochemicals

Standard Design and Standardisation

Standard design solutions

Rosneft is deploying a system of standard design solutions to improve efficiency of capital investments and design processes by using the best possible solutions, technologies, materials, and equipment.

The system of standard design solutions reduces costs and minimises risks of project delay, improves the quality, reliability and safety of installations and equipment, increases the level of mechanisation and automation, and reduces operating expenses.

One of the objectives pursued by the system is to set technical requirements for equipment used by the Company's diverse operations. In addition to studying and analysing equipment and inventory used by the Company or the Company's need for them, this means minimising the risks of lobbying any specific suppliers/manufacturers by stating any specific parameters or manufacturing techniques.

In 2019, the system of standard design solutions helped to achieve the following targets:

83%

83% of the Company's oil and gas production facilities covered by standard design solutions

65%

65% of the Company's centralised inventory requirement standardised

maximum standardisation degree achieved for storage tanks:

83%

and for modular units:

80%

Standardisation System

In 2019, the Company continued to contribute to the development of the oil and petroleum product standardisation system. Working hand in hand with technical committees for standardisation at the Federal Agency on Technical Regulation and Metrology (Rosstandart), the Company's experts reviewed over 120 draft regulations and standards, both national and international.

In 2019, the Company took part in an initiative to establish an industry-wide system for voluntary certification of products and suppliers in the Russian Federation. The initiative prioritises process safety in oil and gas industry, reducing the percentage of counterfeit products, and streamlining SMEs' access to the market of oil and gas sector suppliers.

The following events were successfully implemented in 2019:

- jointly with the Russian Ministry of Industry and Trade, proposals were prepared for the concept of regulating the voluntary compliance certification;
- as a result of the initiative, Institute of Oil and Gas Technology Initiatives was established jointly with the Russian Ministry of Energy and other vertically integrated petroleum companies;
- a scientifically validated evidence base was built with respect to changes in hydrogen sulphide content in marketable oil to reduce deposits on heat exchangers of refining facilities.



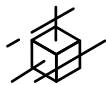
Automation of Planning and Surveying

Working towards the targets set by Rosneft–2022 Strategy for the use of digital solutions, the corporate research and design cluster rolls out the Digital Technologies for Institutes programme aimed to facilitate automation.

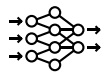
THE FOLLOWING EFFORTS ARE MADE TO AUTOMATE THE DESIGN OF CAPITAL CONSTRUCTION FACILITIES:



Import substitution and software range optimisation



Development of integrated design automation technologies (upgrading to 3D design and information modelling solutions)



Development of geodata management solutions

Import Substitution and Software Range Optimisation

To promote import substitution, RN-BashNIPneft developed a research-intensive specialist software for the areas including geology, exploration of gas and oil fields, oil and gas production.

TomskNIPneft works to create a unified software range to be used for design automation.

In 2019, 80% of software (over 20 items) was Russian.

Long-term Leadership in Mathematical Modelling

The Company develops and implements proprietary software for field modelling, hydraulic fracturing design, management of field development, drilling operations of any complexity, etc.

A wide range of corporate software was developed, including:

- RN-KIN, a workplace for specialists in geology and oil and gas field development. The software suite has an edge over its international peers, provides production data, and conducts proxy modelling from calculation of well interventions to surface network components;
- RN-KIM is a reservoir simulator, a comprehensive high-performance solution for digital 3D modelling of hydrocarbons development with a 77 % increase in the use for modelling the Company's hydrocarbon fields over the last five years;

- RN-SMT is a prototype and a set of software modules of an integrity monitoring system for oilfield pipelines, a promising information system for monitoring and controlling the Company's oilfield pipelines with a real-time decision-making support system, which assesses the technical condition of pipelines, generates pipeline reliability improvement programmes, and automates production processes;
- RN-GRID is a next generation hydraulic fracturing simulator, which provides the most precise picture of hydraulic fracture geometry;
- RN-Geosim is an integrated geological modelling platform building full-scale geological models based on high-performance computing. The platform includes up-to-date visualisation tools to assist a modelling geologist and display components of the geological models in 1D (correlation pattern), 2D, and 3D projections. The software suite will cover up to 80% of the Company's geological modelling needs by 2020;
- additional software modules were developed for RN-Simtep import substituting software to model processes of transportation and preparation of production fluids;
- RN-PetroLog prototype was created as part of import substituting petrophysical software to interpret well logging and carry out laboratory-based core analysis.



RN DIGITAL, Rosneft's reservoir engineering software

Machine Learning Open

The Corporate Research and Design Complex strives to establish partnership with leading research teams, including numerical modelling of physical processes. In 2019, the Company held Rosneft

Seismic Challenge, Russia's largest machine learning open championship with the focus on seismic data interpreting.

The event attracted about 500 teams from nine countries. The contestants

proposed solutions for automating manual processes in seismic exploration where cognitive services of corporate software will carry out monotonous tasks.



ROSNEFT SEISMIC CHALLENGE ATTRACTED ABOUT 500 TEAMS FROM NINE COUNTRIES.



Integrated Design Automation Technologies

The Company leverages digital technologies to design major construction projects. Currently, all projects with capex exceeding RUB 1 bln are based on 3D modelling.

The target innovative project for developing design automation technologies produced the following results in 2019:

- 17 unified automated designer workplaces for disciplines supporting the 3D design technology, thus reducing the time for carrying out certain design operations by a half;
- information modelling technology for the design stage, including modelling modules for FEED, and technical and economic feasibility study;
- geotechnical monitoring system for assets located in the permafrost zone.

Drilling Support Technologies

The Company keeps developing its in-house high-tech service of well drilling (geosteering). In 2019, the Corporate Research and Design Complex introduced geomechanical modelling to minimise drilling accidents and started the piloting of automatic geosteering and use of drill bits to study lithology based on machine learning. These focus areas complement the existing services of geosteering, log data interpretation, and geotechnical survey during well drilling.

Therefore, the comprehensive approach and available technologies ensure a 24/7 support for all of the Company's horizontal and multilateral wells, and for priority directional wells.

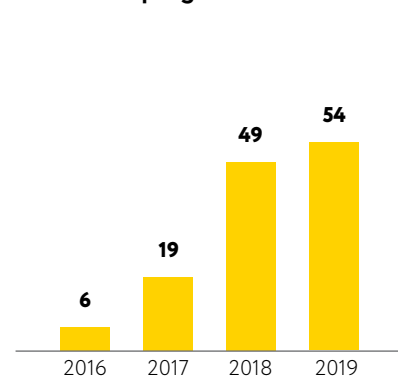
The development of in-house geological support of well drilling had a positive effect on both operational and economic efficiency of drilling. In 2019, the in-house geosteering services helped to drill 750 new wells and complex sidetracks, adding to a total of more than 11 thousand wells.

The high-tech services helped the Company to drill its deepest multilateral well of 12,792 m at the Srednebotuobinskoye field.

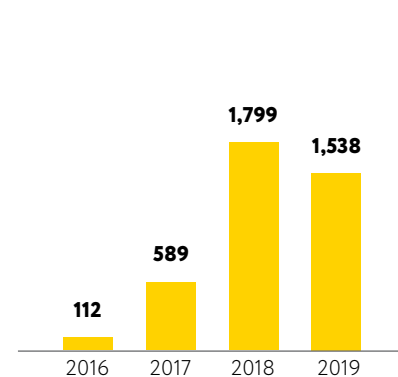
Corporate Training Centre

Sapphire Applied Engineering and Training Centre was established to facilitate Rosneft's projects using a wide array of General Electric products and technologies, including basic technical solutions, equipment localisation, and training of oil and gas professionals. In the premises of Sapphire Applied Engineering and Training Centre, the Company created a licensing and training centre. In 2019, the centre rolled out 54 training programmes covering over 1.9 thousand employees of the Company.

Number of programmes



Number of students



International Cooperation of the Corporate Research and Design Complex

The Corporate Research and Design Complex cooperates with major international engineering companies.

In 2019, RN-TsIR and Germany's ART Photonics signed a memorandum of cooperation in the development and implementation of remote process control devices and methods. In addition, RN-TsIR entered

into an agreement with Rosneft International Centre for Research and Development QSTP-LLC for developing a polyketone synthesis stand at the Qatar Science and Technology Park. In 2019, VNIPIneft continued

the construction of EP-600 olefin production complex at the request of Linde, a German company.

Proprietary Technologies

Autonomous Preliminary Water Discharge and Power Generation System

To prepare greenfields for pilot production and streamlined operation, Sapphire Applied Engineering and Training Centre (Sapphire) developed a solution for the autonomous preliminary water discharge and power generation system using separated associated petroleum gas, with its first batch of equipment manufactured in 2019 and pilot operation planned for 2020.

Azimuth Thruster for Icebreakers and Large Capacity Ice-Class Vessels

Sapphire developed an electric 7.5 MW azimuth thruster for multi-purpose supply icebreakers currently under construction at the Zvezda Shipyard.

The Centre also developed a 15 MW azimuth thruster for large capacity high ice-class tankers and LNG carriers.

Oilfield Chemicals

RN-BashNIPIneft developed a range of oilfield chemicals that includes a corrosion inhibitor, a scale inhibitor, a tar and paraffin sedimentation inhibitor, etc. Oilfield tests demonstrated that the chemicals have a higher performance than any of their known peers. In-house manufacture of chemicals will reduce the cost of chemicals required in production processes by 15 %.

Oil Refining Catalysts

RN-TsIR corporate institute developed hydrotreating catalysts for producing Euro5 diesel fuel. All proprietary hydrotreating catalysts for diesel fuels, hydrogenation of vacuum gas-oil, hydrocracking, and guard catalysts will be manufactured by RN-Kat, a subsidiary of Bashneft.

Resin-Coated Proppant for Hydraulic Fracturing

Ultra-lightweight resin-coated proppant was piloted at the Samotlor field. The material is designed to improve well productivity when using hydraulic fracturing and enhance oil recovery by producing oil in previously undeveloped field areas.



Exploration of the Arctic Shelf and Operational Safety on Shelves of Freezing Seas

Scientific Research in the Arctic

Rosneft places a particular emphasis on environmental research and biodiversity conservation in the Arctic region.

The Arctic Scientific Centre (part of Rosneft's research and design cluster) conducts comprehensive environmental studies, including biological, hydrological, hydrochemical examinations as well as modelling and monitoring of Arctic ecosystems.

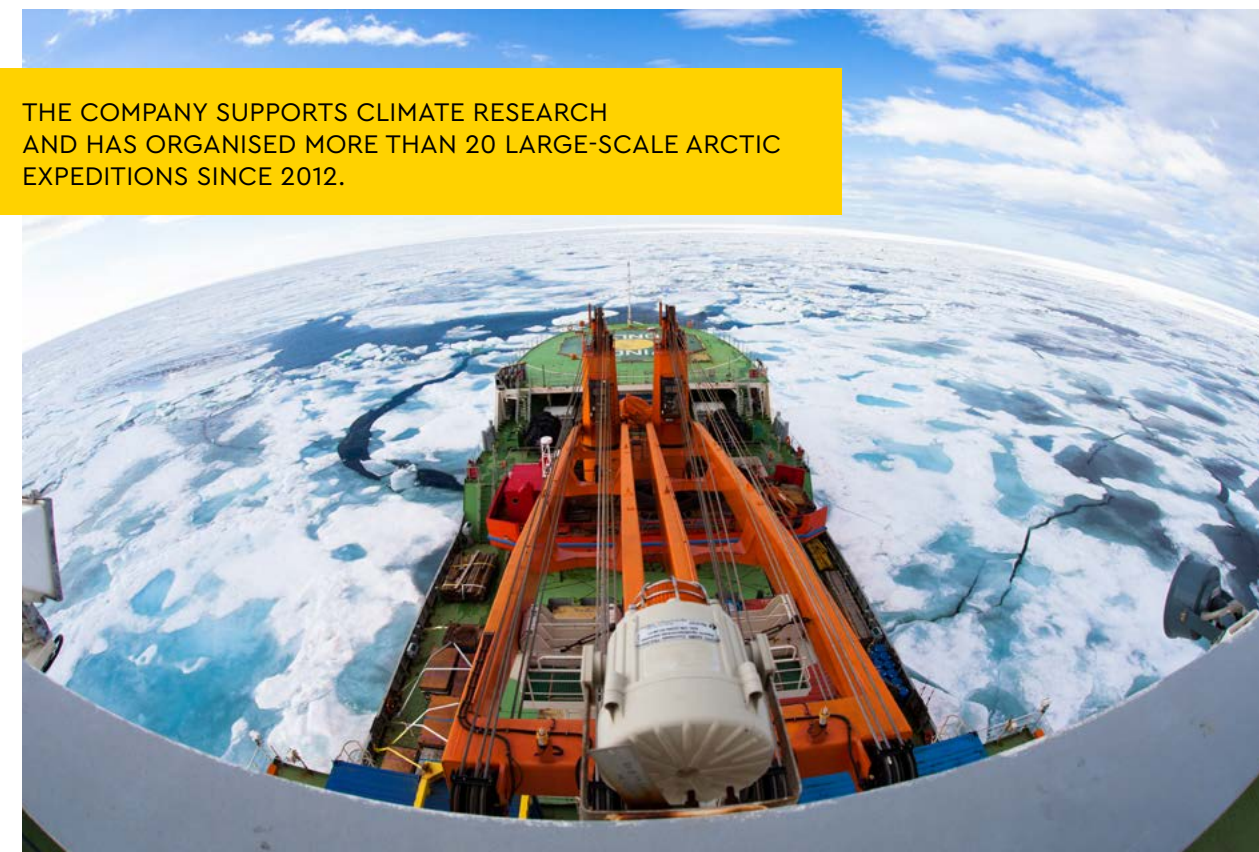
To monitor the Arctic shelf environment, the centre leverages a year-round observation network of automatic weather and seismic stations and autonomous buoy stations

Kara Summer 2019 research expedition

November 2019 saw the end of the Kara Summer 2019 research expedition organised by the Arctic Scientific Centre with the assistance of the Arctic and Antarctic Research Institute of the Russian Federal Service for Hydrometeorology and Environmental Monitoring.

The expedition collected hydrological data for the Kara, Pechora

and Laptev seas (sea level fluctuations, sea state, direction and speed of currents, sea ice draft and drift velocity) over a one to two year period. This information is needed to develop an offshore exploration drilling strategy and ensure safety and effectiveness of marine operations, design drilling rigs and hydro-technical facilities.



THE COMPANY SUPPORTS CLIMATE RESEARCH AND HAS ORGANISED MORE THAN 20 LARGE-SCALE ARCTIC EXPEDITIONS SINCE 2012.

Below are the projects completed by Rosneft as part of its Arctic shelf research programme in the reporting year:

- Kara Summer 2019 research expedition to the Kara, Pechora and Laptev seas;
- biological agent to clean the coastline and waters of northern seas from oil and petroleum product spills;
- digital archive of metocean and ice conditions based on a mathematical model;
- study of predictability of sea ice extent parameters during the open-water period in Russian Arctic seas;
- jointly with the Far Eastern Federal University examining the structural properties of deformed ice;
- ice management system.

On top of that, the intellectual efforts of the Arctic Scientific Centre yielded 20 patents of the Russian Federation for inventions in biotechnology, microbiology, ecology, and environment protection.

Digital Archive of the Arctic Ocean Data

The Arctic Scientific Centre created a digital archive of metocean and ice data based on mathematical modelling (reanalysis) that contains key meteorological, oceanographic and ice information from 1966 through to 2017. The data resolution is 15x15 km for the Arctic Ocean and 5x5 km for Russia's Arctic seas.

The models were set up and verified using the Company's historical data and observations of 2012–2017.

The results of the modelling predictions are used to define theoretical metocean values. Moreover, presented in a reanalysis, these data may benefit a number of projects relating to modelling various processes such as:

- the spread of accidental spills of hydrocarbons and pollutants, development of an accidental oil spill prevention and response plan;
- determining the loads on vessels and offshore facilities in various metocean scenarios;
- sediment transportation;
- drifting of ice and various ice formations.



For details on the preservation of the biodiversity of marine ecosystems in Rosneft's licence areas in Russia's Arctic region, see the Biodiversity Conservation section of this Report.

Iceberg Safety

Since 2016, the Company and the Arctic Scientific Centre have been testing iceberg towing in the Barents and Kara seas to assess the possible changes in iceberg drift trajectory and prevent the collision with offshore oil and gas facilities.

These activities have resulted in a holistic approach to ensuring iceberg safety. The Company also conducted a research to examine the morphology and formation of outlet glaciers in the Russian Arctic and study metocean and ice conditions in Russia's Arctic seas.

In 2019, employees of the Company and the Arctic Scientific Centre received a government award in science and technology. **GRI 103-3**

Atlas "Russian Arctic. Space, Time, Resources"

In 2019, Rosneft together with Innopraktika, a non-governmental development institute, published atlas titled Russian Arctic. Space, Time, Resources. The atlas is organised into 15 topical sections and constitutes a collection of valuable scientific data on the physical geography, environment, history of exploration, and economic potential of Russia's Arctic Zone.

The edition contains unique pictures of majestic ice landscapes and spectacular fauna that were shown in the Magnetic Arctic exhibition held in Tsvetnoy Boulevard, Moscow.





#7

PERSONNEL



“Rosneft's main asset is its highly skilled employees driving the Company's development. We have always been committed to social responsibility and protection of human rights. In 2019, Rosneft was recognised as the best performing Russian company in the CHRB (Corporate Human Rights Benchmark) international human rights index, which is in line with the Company's priorities in achieving the UN goals. We will continue this work going forward.”

Alexey Artemyev

Vice President for HR and Social Policy
of Rosneft



For details on approaches
to promoting human rights,
see **p. 35**

- 142** Management Framework and Personnel Profile
- 146** Personnel Training and Development
- 156** Social Policy



Management Framework and Personnel Profile

Management Framework

Highly skilled and motivated employees are the Company's core asset. Rosneft is focused on effective personnel management, offering professional and personal growth opportunities, as well as social support for its employees. [GRI 103-1](#)

In its employment practices, Rosneft complies with applicable Russian and international laws and never uses forced, compulsory or child labour. The Company takes a zero tolerance approach to discrimination on the basis of gender, age, ethnic origin, religion, race, or any other grounds. Rosneft and Group Subsidiaries never use child labour in whatever circumstances¹. Foreign assets operate in line with the corporate procedures and local legislation. [GRI 102-15](#)

The Company recognises the importance and value of fundamental human rights and freedoms at workplace: the freedom of association, the right to collective bargaining, labour rights and the right to health.

Rosneft abides by authorities' directives and actively supports the government's social policy.

The Company's main publicly available regulations related to personnel management:

- Code of Business and Corporate Ethics of Rosneft;
- Company Policy on Sustainable Development.

In December 2019, the Company approved its Personal Data Processing Policy aimed at protecting human and civil rights and freedoms in this area. [GRI 103-2](#)



The Company's Policy on Personal Data Processing is available on the website.

THE COMPANY'S PERSONNEL MANAGEMENT PRIORITIES INCLUDE:

Enhancing labour productivity and organisational effectiveness

Continuous self-improvement and high efficiency of the HR service

Developing effective incentives, benefits and compensations

Cooperation with executive authorities and vocational institutions to support the government's personnel training policy

Talent management, development of staff through the continuous corporate education and training

HR records management in strict compliance with labour laws and other regulations applicable to labour relations

Providing personnel with required skills and expertise for the Company's projects

Personnel Structure

Rosneft is one of Russia's largest employers. In 2019, its average headcount stood at 315.4 thousand people, up 2.4% year-on-year. The increase was driven by production development, acquisition of new assets or their inclusion in the business plan². Most of the workforce is located in Russia (98.8 %), Ukraine (0.5 %) and Belarus (0.2 %), with 0.5% of the employees working in other countries³.

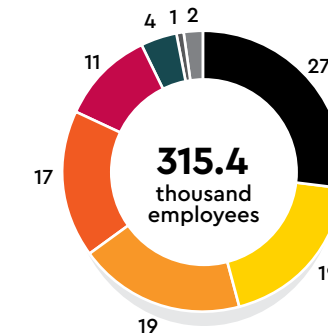
The average employee age remained mostly unchanged at 40.3 years. Managerial positions were held by 40.8 thousand employees. Employees categorised as managers made up 12.2 % of the total average headcount in 2019.



For more details on the Company's personnel structure, see Appendix 1 to this Report.

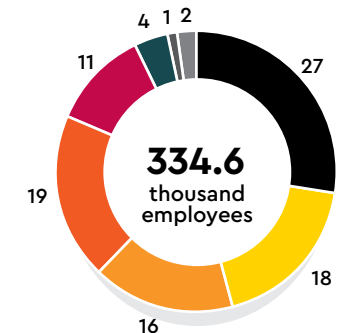
The share of female employees remained virtually flat at 32.7 %. As at the end of 2019, women accounted for 23.9 % of all managers and 14.9 % of top and senior managers of the Group Subsidiaries.

Average headcount in 2019 (as per the business plan), % [GRI 102-7](#)
[GRI 102-8](#)



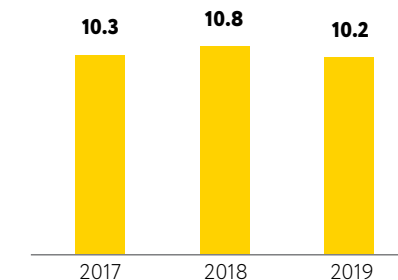
- Exploration and Production, including gas
- In-House Services (Oilfield Services)
- Commerce and Logistics
- Oil Refining, Gas Processing and Petrochemicals
- Corporate Services
- Research
- Head Office (Rosneft)
- Other

Headcount as at 31 December 2019 (as per the Business Plan), %

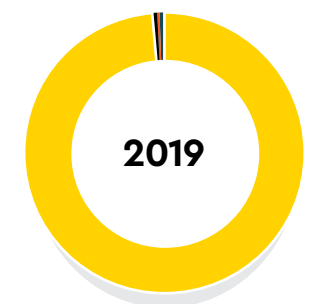


- Exploration and Production, including gas
- In-House Services (Oilfield Services)
- Commerce and Logistics
- Oil Refining, Gas Processing and Petrochemicals
- Corporate Services
- Research
- Head Office (Rosneft)
- Other

Employee turnover, % [GRI 401-1](#)



Personnel by country (average headcount) in 2019, % [GRI 405-1](#)



- 98.8 | Russia
- 0.5 | Ukraine
- 0.2 | Belarus
- 0.5 | Other countries³

¹ An employment agreement with a minor may only be made in strict compliance with applicable laws of the country where Rosneft or its respective Group Subsidiary operates.

² NizhnevartovskNIPIneft, Bashgiproneftekhim, Petersburg Fuel Company, PTK-Terminal, Trans-Time, Samaraneftegeofizika, Alaniyanefteprodukt.

³ Abkhazia, Armenia, Brazil, UK, Venezuela, Vietnam, Germany, Egypt, Iraq/Kurdistan, Kazakhstan, Canada, Qatar, Cyprus, Kyrgyzstan, Cuba, Mongolia, Myanmar, Norway, Poland, USA, Switzerland.



Improving HR Processes for Better Protection of Labour Rights

It is important to improve HR processes for minimising the risks of labour rights violations. Rosneft is making consistent efforts to unify and automate its processes as well as unify the organisational structures of Group Subsidiaries' functions.

Unification and Automation

Key HR business processes are performed in line with the uniform corporate HR, compensation and social development standards. The standards apply to personnel accounting, recording of working hours, organisational management, remuneration system, and payments to the staff and third parties.

In 2019, we continued to roll out the methodology based on two corporate IT platforms, which, as at the end of the reporting period, were used

by 129 Group Subsidiaries with more than 197 thousand employees.

Unification of the Organisational Structures of the Group Subsidiaries' Functions

The Company seeks to optimise its processes and reduce labour costs. In 2014, we began to unify the functions and organisational structures of Group Subsidiaries. Over five years, 30 corporate-wide functions (80 %) were standardised.

In 2019, five typical organisational structures were developed and circulated among the Group Subsidiaries. They covered industrial safety; health, safety and environmental protection (for Commerce and Logistics businesses); HR and social programmes; energy supply (for Gas businesses);

mine surveying and land use (for Exploration and Production and Gas businesses); and work with internal regulations. Their phased implementation is planned until the end of 2022.

Rosneft also unified the structure and functions of Chief Engineer and Prospective Development production units of the Company's upstream businesses. **GRI 103-3**

HR Management Performance

Remuneration

Rosneft provides comfortable work environment and development opportunities for every employee. The Company has transparent approach to remuneration, evaluation, motivation and promotion, and follows the principle of equal pay for work of equal value. Employees in the same positions and professions are paid equally, and there is no pay gap between men and women performing identical functions.

The Company adheres to the principles of high social responsibility in terms of remuneration and ensuring a decent standard of living for its employees and seeks to maintain wages above the regional average and perform annual indexation.

The average monthly salary for all Group Subsidiaries in 2019 reached RUB 88,609 which, for most of the Group Subsidiaries, is traditionally above not only legal minimum wage but also the actual average salary in the respective regions.

For comparison of average monthly salary in the Group Subsidiaries with the average salary by the region, see Appendix 1 to this Report.

In 2019, social payments, regular benefits, and one-off bonuses included in the payroll amounted to an average of RUB 59.2 thousand per employee.

To ensure increase in real wages and offset the inflation, Rosneft adjusted the salaries in Group Subsidiaries located in Russia by 4 % in 2019.

Key Performance Indicators

Rosneft has a system of key performance indicators (KPIs), which forms an integral part of the management incentives and remuneration.

The KPI system includes a number of sustainable development indicators, including the saving of fuel and energy resources, injury rate, environmental indicators, and the efficiency of procurement from SMEs.

Environmental indicators include reduction of emissions and discharges, as well as waste and the area of contaminated lands. The injury rate includes such generally accepted international indicators as LTIF¹ and FAR². The Company's top managers are personally responsible for injuries of any employees of Rosneft, its contractors and subcontractors.

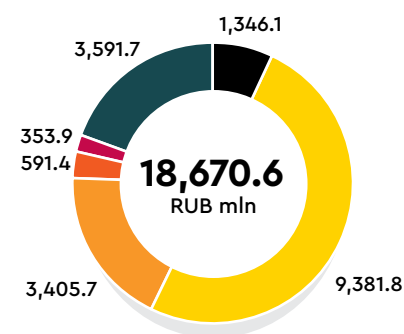
The management bonuses depend on KPIs. KPIs of each top manager include both specific indicators directly

related to their function, which cascade down to their subordinates, as well as a number of general corporate indicators.



For details on sustainable development KPIs, see the Sustainability Management section of this Report.

Breakdown of social payments, benefits and one-off bonuses included in the payroll in 2019, RUB mln **GRI 201-3**



- Wellness of employees and their children
- Benefits and one-off bonuses included in the payroll
- Voluntary health insurance contributions
- Retirement
- Severance
- Other social payments

THE COMPANY HAS A TRANSPARENT APPROACH TO REMUNERATION, EVALUATION, MOTIVATION AND PROMOTION



¹ Lost Time Injury Frequency is the ratio of the number of lost-time work-related injuries (including fatalities) of the Company's employees to one (1) mln man-hours worked.

² FatalityRate (FAR), the ratio of the total number of the Company's work-related fatalities to one hundred (100) mln man-hours worked.



Personnel Training and Development

Personnel Training System

Training and development of our personnel are strategic priorities at Rosneft. We make every effort to offer our employees opportunities for continuous professional and personal growth and development. **GRI 103-1**

The corporate training system covers all business areas and staff categories. We engage experts from educational and consulting companies to train our people in line with our current and strategic needs. **GRI 103-2**

The corporate training and development system aims to:

- develop professional skills of the employees;
- improve managerial skills and create an internal talent pool;
- provide qualified personnel for the Company's strategic projects;
- ensure that all employees are competent in HSE matters;
- guarantee compliance with mandatory state requirements for personnel training in the fuel production industries.

Results in Personnel Training

In 2019, we continued working consistently on enhancing the professional skills of the Company's employees. Rosneft delivered 635.9 thousand man-courses in mandatory vocational and management training, which is 33% more than the 2019 target.

Personnel training and development, thousand man-courses **GRI 404-1**

Indicator	2017	2018	2019
Total for year, including by category:	533	535	636
managers	100	106	119
talent pool	3	2	2
white-collar workers	121,198	125	146
young professionals	4	3	4
blue-collar workers	306	299	365

Personnel training and development in 2019 **GRI 404-1**

Indicator	
Average duration of training per employee per year, man-hours	60
Total duration of training, thousand man-hours	18,979
By category:	
managers	3,439
white-collar workers	4,232
blue-collar workers	11,308
By gender¹:	
men	15,767
women	3,213

¹ The different number of training hours for men and women is due to the large amount of mandatory training for hazardous jobs that are mostly done by men.

TRAINING AND DEVELOPMENT PROGRAMMES **GRI 404-2**



Leaders of Russia Nationwide Competition

In 2019, some of the Company's employees took part in the Leaders of Russia competition for a new generation of leaders. The competition seeks to identify people with a strong managerial potential and contribute to the development of their skills.

Six Rosneft employees qualified to the finals and three of them became winners of the competition. All finalists received educational grants from the organisers, while the winners were included in Russia's leadership talent pool programme. They will be able to spend a year working under the supervision of a mentor from among Russia's best corporate and public sector executives.

In 2019, we significantly expanded the range of management courses to include:

- MBA programmes for managers, talent pool and high-potential employees;
- series of Director Club workshops;
- Leader of the Future programme;
- The University of CEO and the School of Management for CEOs of the Group Subsidiaries and their deputies.

We provide the following professional education opportunities:

- training for young engineers from exploration and production facilities;
- training of shop managers from the exploration and production facilities under a professional retraining programme designed to improve performance and production methods;
- professional retraining in oil refining and petrochemicals;
- training of specialists involved in coaching line personnel at oil depots and filling stations of oil distribution facilities.

In HSE, we implemented the following programmes: training in corporate approaches to carbon management for top managers and heads of departments in the Company's Head Office, and courses in leadership, internal incident investigation, risk assessment and management for heads of the Group Subsidiaries.

In 2019, Rosneft launched a professional retraining programme for HR managers and employees of the Group Subsidiaries. It builds on the innovative master's programme in organisational development and personnel management in the oil and gas industry that opened in 2018 through joint efforts of Rosneft and Ufa State Petroleum Technological University.



Internal Training System

At Rosneft, we have built an internal training system to preserve and transfer knowledge within the Company. We leverage our in-house training centres, coaches, experts and workplace mentors to provide 62 % of training (395.8 thousand man-courses).

In 2019, internal coaches conducted 688 training sessions and 15,570 man-courses. On top of that, over 71 thousand man-courses were available in the distance learning format.

In the reporting period, we launched a targeted training programme for in-house coaches made up of 15 modules, with 163 groups trained (2,126 man-courses).

All in all, there are 63 training centres operating as part of the Group Subsidiaries or local educational institutions across our footprint.

In 2019, we set up corporate training centres in the following Group Subsidiaries: RN-Tuapse Refinery (Tuapse), RN-Uchet (Samara), and Rosneft-Termneft (Krasnodar). In the reporting period, we worked to create the following facilities:

- an electrical engineering and testing site at the Samaraneftegaz training centre;
- a corporate training centre at Bashneft-PROFI;
- a training centre at Zvezda Shipbuilding Complex.

Corporate Mentoring Programme

The Company has been implementing a corporate mentoring and development programme for workers and young professionals. It aims to facilitate employee onboarding and build up their skills to professional standards. The programme is offered to the newly hired blue-collar workers and young professionals with higher education in a relevant field. The duration of the programme is three to nine months for blue-collar workers, depending on the occupation, and 12 to 36 months for young professionals, depending on individual competence level.

Rosneft has over 15 thousand mentors. In 2019, they helped train 4,876 new workers and 3,994 young professionals.

The Company holds an annual Best Mentor contest, which has become an important element of its corporate culture, serving to promote the programme among employees and helping to identify the best mentoring and experience sharing practices.

The contest is held in stages, with winners selected in two categories: The Best Worker's Mentor and The Best Mentor of Young Professionals. In 2019, the first round welcomed 5,226 mentors of blue-collar employees and 649 mentors of young professionals from 74 Group Subsidiaries.

The second round was conducted for the first time in the reporting period, with contestants including 53 worker mentors and 47 young talent mentors, as well as 40 HR managers in charge of mentoring.

IN 2019, THE BEST MENTOR CONTEST WAS HELD FOR THE FOLLOWING BUSINESSES AND FUNCTIONS:



Exploration and Production



Oil Refining, Gas Processing and Petrochemicals



In-House Services (Oilfield Services)



Marketing and distribution



Corporate Services (R&D and design institutes)

Professional Standards

As part of efforts to support the government policy to improve labour legislation, Rosneft is working consistently to implement professional standards in the Group and its Subsidiaries. Of the nearly 1.3 thousand professional standards currently approved in Russia, more than one fourth of them can be implemented in Rosneft, including the 54 that are classified as mandatory qualification requirements. The qualification standards apply to more than 13 % of employees (44.6 thousand people), of whom over 95 % have an educational background meeting the requirements.

Rosneft representatives take part in the National Council for Professional Qualifications in the Oil and Gas Industry¹. In 2019, as part of its involvement in the Council, Rosneft drafted four industry standards and submitted them for approval to the Ministry of Labour and Social Protection. In the reporting period, the Ministry also approved three industry standards that had been developed by Rosneft.

In 2019, 755 employees received additional professional education and vocational training thanks to the implementation of professional standards.

First Geo-Steering Championship

Over the past decade, Rosneft has been steadily increasing the volume of horizontal drilling. However, as projects become exceedingly complex both geologically and technologically, the Company needs to continuously focus on maintaining and developing professional expertise in planning and drilling. In 2019, Rosneft held its first corporate championship in geo-steering to help improve employee professional skills and facilitate their involvement in geological support for drilling high-tech horizontal wells.

Over 40 people representing 20 Group Subsidiaries and the Company's Head Office competed in the tournament. Using a virtual simulator they had to drill three horizontal wells of various degrees of complexity to penetrate an oil reservoir as far as possible.

Many of the participants, including those who work in well planning, gained unique experience in horizontal drilling support in real geological environments across the Company's footprint.

All actions by the contestants were analysed to focus on the best solutions and provide guidance to employees on specific steps to be taken in a given situation.

According to the event organisers, the championship will help broaden the employees' professional horizons and develop relevant skills and expertise. A representative of the Institute of Geology and Development of Fossil Fuels came out on top. All medallists will compete for Rosneft at the 2020 national geo-steering championship.

WorldSkills Championship of Vocational Skills

In 2019, Rosneft held the fourth WorldSkills corporate championship to promote blue-collar occupations and improve vocational training based on international requirements. Contestants competed in the Laboratory Chemical Analysis category and the new Occupational Safety category.

The tournament was held at the Novokuibyshevsk production site. Participants included 40 technicians and 44 experts in chemical analysis from 44 Group Subsidiaries, along with 11 specialists and 11 experts in occupational safety from 11 Group

Subsidiaries. Winners of the corporate championship represented Rosneft at the 6th WorldSkills Competition of High-Tech Cross-Industry Blue-Collar Professionals in Yekaterinburg. Composed of 21 contestants and 17 experts from 16 Group Subsidiaries and the Head Office, the Rosneft team competed in eight categories and won prizes in six of them. Rosneft championship in geo-steering.



¹ Created by the resolution of the Presidential National Council for Professional Qualifications dated 27 March 2015.



Best in Profession Corporate Festival and Competition

At the core of Rosneft's corporate culture and its further development and enhancement lies sharing of best practices and work culture, raising the prestige of blue-collar occupations, and identifying and incentivising pro-active and talented employees. To further promote these goals, the Company holds an annual Best in Profession festival and competition.

The event covers blue-collar occupations in oil and gas production, oil refining and gas processing, and oil marketing and distribution, as well as engineering

occupations (geologists and technologists) of oil and gas companies. Annually, over 20 thousand employees take part in various stages of the competition.

In 2019, the event's finals were held at Bashneft's sites in Ufa, with over 1.1 thousand employees from 100 Group Subsidiaries taking part and 28 categories contested. Apart from the winners in each category, a winner was also named in the Safe Work area – a contestant with the best result in HSE and fire safety.



Skills assessment framework

Rosneft has a unified skills assessment framework covering all personnel categories (managers, white- and blue-collar employees) and focusing on three key areas:

- creating a talent pool and expert communities;
- planning competency training;
- recruiting or changing job descriptions.

The assessment of professional skills uses materials drafted in the course of the target innovative project to introduce a skills-based approach to personnel development across all business segments. In 2019, more than 20.83 thousand people were assessed for compliance with the professional and technical skill requirements.

The corporate and management skills model is a local regulation used as a basis for personnel assessment.

In 2019, the Company applied the model to evaluate

23.65
thousand people

Talent pool

Rosneft's talent pool programme focuses on the identification of promising employees, their special-purpose training and promotion to the key management positions. For the Company, the talent pool programme serves as a guarantee of business efficiency, while the staff view it as an opportunity for development and career growth.

The programme helps create the talent pool for the first-, second- and third-level management positions, with first-level successor candidates eligible for target positions in several Group Subsidiaries. The Company paves the way for professional development of its talent pool members by offering them job rotations, making them first-choice candidates for promotion to target positions and enabling them to participate in the Company's key projects.

The Company has a multi-tier independent assessment framework to evaluate management skills of employees included in the talent pool. In 2019, the selection process included assessment of 5,295 employees to determine growth priorities for them, with 1,224 participants ending up with individual development plans.

An external young talent pool includes school and university students attending Rosneft's training programmes and is designed to help the Company achieve its objectives in the long run.

International projects

As part of comprehensive staff training, Rosneft sets up partnerships with global oil and gas companies and educational institutions to promote joint internships, conferences and training programmes.

In 2019, the Company continued delivering on its arrangements with international partners focusing on projects offering foreign students an opportunity to pursue higher education at Russian universities with financial and organisational support provided by Rosneft.

Under an educational cooperation agreement between Rosneft and ONGC Videsh Ltd. (India), 41 employees of the Company's Head Office and Group Subsidiaries received training in India in the reporting year.

As part of an educational and training cooperation agreement between Rosneft and CNPC, 20 CNPC employees did internship at Group Subsidiaries in Samara and 20 employees of Rosneft were dispatched to China as interns in 2019.

Under an agreement signed between Rosneft and the Qatar Foundation, 49 employees of the Company took training offered in 2019 by an expert from the Qatar National Research Fund (part of the Qatar Foundation) at the Gubkin Russian State University of Oil and Gas.

In the reporting year, Rosneft and BP PLC took the following steps to strengthen their long-standing partnership:

- Rosneft and BP signed an agreement on cooperation in the field of HR management and social responsibility;
- created a joint working group in this area;
- developed a partnership road map for 2019–2020;
- staged events to exchange experience in personnel assessment and HR e-workflow management.

Comprehensive personnel assessment framework, thousand people GRI 404-3

Skills assessed	2017	2018	2019
Professional and technical	Over 13	Over 14	Over 20
Corporate and management	Over 15	Over 17	Over 23





HR Conference Attended by International Partners

2019 was the first year when the annual Conference of Heads of Rosneft's Social and HR Functions was attended by the Company's international partners.

The Conference brought together more than 290 employees of Rosneft's Head Office and Group Subsidiaries, with speakers including representatives of the world's leading oil and gas corporations.

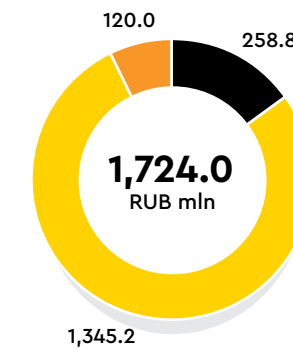
The participants shared experience in personnel management and corporate culture, discussed avenues for further cooperation and established working contacts between the HR functions. The Conference also shone the light on best global practices in personnel management.



Youth Policy

Rosneft's youth policy aims to ensure a steady influx of young professionals. To that end, the Company is building an external talent pool comprised of students from Rosneft's regions of operation. The youth policy largely relies on a school-to-workplace approach, benefiting from the advantages of continuous corporate training.

Youth Policy Funding in 2019, RUB mln



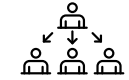
- Promotion of pre-university training
- Cooperation with universities (equipment upgrades, internship opportunities, scholarships for students and grants for professors)
- Work with young talent

YOUTH POLICY HIGHLIGHTS IN 2019



>80
thousand

school and university students covered by youth policy projects



122
class programmes

supported by Rosneft Group Subsidiaries across the Company's footprint



25
specialised university departments

opened by Rosneft



~4
thousand
young professionals



163

partnerships set up with educational institutions

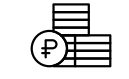


61
partnerships
set up with universities



38
partnerships

set up with colleges



1.7
RUB bln

invested by the Company in youth policy projects



Master's Programme in Oil Engineering

In 2019, Rosneft partnered with BP Russia to create a dedicated Master's programme in Oil Engineering at Kazan (Volga) Federal University.

The programme allows enrollees to gain advanced knowledge of oil production, development system streamlining, and well and oilfield management. In October 2019, 10 students enrolled on this Master's programme, having passed a complex selection procedure. Upon the programme's completion in 2021, the graduates will be hired by eight Group Subsidiaries.



Development of Young Talents

WORK WITH YOUNG TALENTS HAS A NUMBER OF FOCUS AREAS.



Onboarding



Training and Development



Financial and social support



Identifying and development of potential leaders

To fast-track the onboarding of young professionals, we have set up 71 young specialist councils and introduced mentorship programmes across the Group Subsidiaries. In 2019, 105 Group Subsidiaries employed 4 thousand young professionals.

As part of an effort to develop the professional, technical, corporate and managerial competencies of young specialists, we put in place training programmes (approximately four thousand man-courses organised) and arranged for 2.6 thousand young professionals to participate in regional and cluster R&D conferences.



Progress assessment

Young Professionals at Rosneft, people

Indicator	2017	2018	2019
Number of young professionals hired upon graduation	1,437	1,459	1,360
Number of young professionals in the Company, people	4,161	3,994	4,001
Number of young professionals participating in R&D conferences	2,072	2,391	2,607
Financing of the young talent programme, RUB mln	102.7	116.1	120.0

Strategic young talent pool

The Company pays special attention to the development of a strategic young talent pool, staging regular assessment business games for young professionals in their third year of employment.

In 2019, 374 young specialists from 74 Group Subsidiaries participated in the assessment games,

with 189 employees from 58 Group Subsidiaries selected to be considered for inclusion in the strategic pipeline of young talent and offered further training under the Three Steps programme. In the reporting year, we trained a total of 114 young professionals who had topped in the 2018 assessment games.

Furthermore, in 2019 we held an annual conference for chairs of young professionals' councils to help boost the efficiency of their work. The event saw 58 participants.

Cooperation with Universities

The Company actively leverages cooperation agreements to promote partnerships with 61 Russian and foreign universities from the regions where it operates. In the reporting year, the following steps were taken in this direction:

- a new specialised university department was established and 24 existing departments continued to operate, with 74 employees of the Company involved in their activities;
- work continued on projects aimed at enhancing curriculum via more sophisticated university infrastructure; Rosneft Days were held with more than 20 thousand students attending;
- more than 7 thousand students and 47 university academics completed internships in the Company;
- the Head Office arranged a long-term internship for 179 Master's students of Rosneft's partner universities.

University Cooperation Highlights

Indicator	2017	2018	2019
Number of partner universities	58	60	61
Number of students doing internship	6,661	7,014	7,088
Financing of university cooperation initiatives, RUB mln	1,049.8	1,147.7	1,345.2

Pre-University Training

Rosneft classes are a part of pre-university training programmes designed to help the Company create an external young talent pool. Rosneft classes

are available at educational institutions across the Company's regions of operation and offer school students secondary education with a strong focus on technology and natural sciences to enable them to continue engineering

studies at universities. Upon graduation, the best students are employed by the Group Subsidiaries.

Rosneft Classes Highlights

Indicator	2017	2018	2019
Number of Rosneft classes	111	117	122
Number of students trained	2,615	2,762	2,839
Number of regions	25	26	27
Investments in Rosneft classes, RUB mln	191.1	224.4	258.8

In 2019, the Company sponsored 122 Rosneft classes in partnership with 64 secondary schools from across 27 Russian regions. The classes had a total attendance of 2,839 students.

With a lot of Rosneft classes graduates employed by the Company, the project has proved its efficiency. In 2019, 32 Group Subsidiaries hired 107 Rosneft classes graduates.

2019 saw the creation of a new dedicated Rosneft class designed to supply talent for the Company's operations focusing on Arctic and offshore oil and gas exploration and development, including environmental support and protection and biodiversity preservation. The class is hosted by AESC MSU – Kolmogorov's boarding school, a department of Moscow State University.

Charitable Support for Educational Institutions

Rosneft and the Group Subsidiaries provide charitable assistance to educational institutions taking part in projects and programmes of the corporate School–University–Company framework for continuing education. In the reporting year, total charitable aid allocations amounted to RUB 1,126.8 mln for vocational and higher education institutions and RUB 237.9 mln for partner schools.



Social Policy

Rosneft's management has always been committed to maintaining high social security standards for our employees. For many years, the Company has been one of the most socially responsible employers in Russia.

In 2019, the Company continued to implement the Rosneft-2022 Strategy to ensure better motivation and social security for its employees and retirees.

ROSNEFT-2022 STRATEGY INCLUDES SOCIAL INITIATIVES



MODERN MEDICINE

Expansion of industrial healthcare facilities network, promotion of telemedicine technologies, implementation of a brand new programme for preventive medical examination



ACTIVE LONGEVITY

Regular indexation of corporate pensions from the investment income of the Company's pension fund

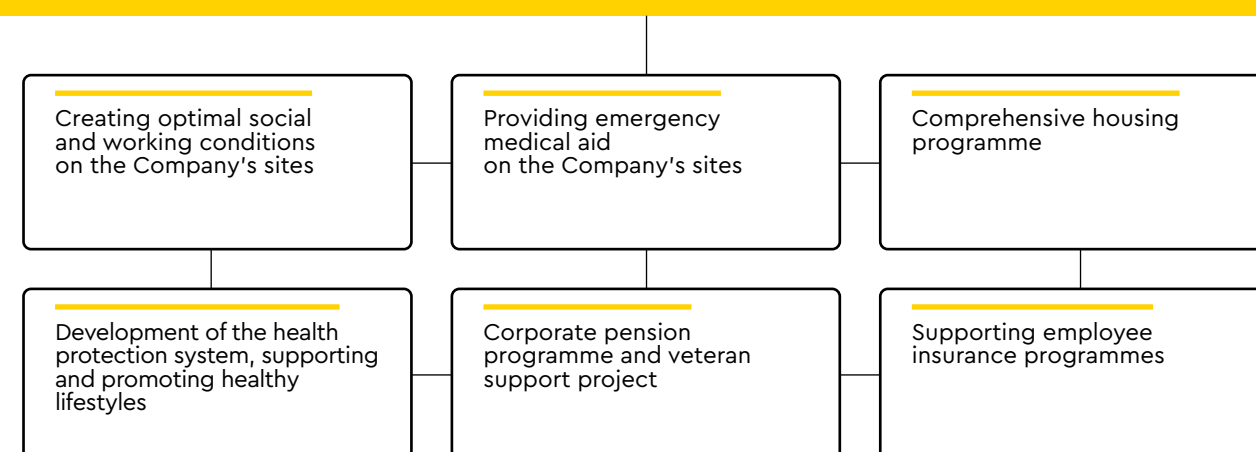


AFFORDABLE HOUSING

Enabling employees to improve their living conditions by using concessional special-purpose non-interest-bearing loans granted by the Company and lower mortgage rates offered by partner banks

In 2019, the Company allocated RUB 35.4 bln for creating optimal social and working conditions, promoting healthy lifestyles, and providing healthcare and social guarantees for its employees.

SOCIAL POLICY COMPONENTS GRI 401-2



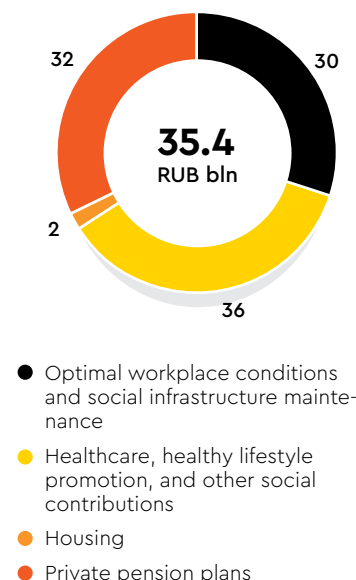
In 2019, for the third year in a row, Rosneft was rated the Most Socially Responsible Oil and Gas Company of the Year in a contest organised by the Russian Ministry of Energy.

The panel of judges gave high praise to the Company's achievements in fostering the corporate culture and developing professional and personal skills of its employees. The judges also noted considerable work done by the Company to promote the principles and develop new formats of social partnership, as well as to propagate healthy lifestyles and ensure occupational safety.

Furthermore, Rosneft was awarded for the best public non-financial report among oil and gas companies.



Key social policy costs in 2019, %



Employee Satisfaction Survey

Rosneft conducts a biennial socio-logical survey of employee satisfaction with HR and social programmes that covers the Group's Subsidiaries and the Company's Head Office. At the end of 2018, the survey encompassed some 70 Group Subsidiaries and included over 16,000 respondents, around 300 focus groups, and more than 170 in-depth interviews with company managers.

The survey showed that the employees were content with the Company's social policy and the quality of corporate initiatives. Among the things mentioned by the respondents were Rosneft's prestigious brand as an employer, better internal communications

and access to information, and vast opportunities for growth thanks to corporate training programmes.

The survey also identified several areas for improvement. Based on the results, a discussion session was held in 2019 that was attended by representatives of the Company's HR and social function, as well as deputy HR and social programme directors of the Group Subsidiaries. Following the meeting, each Company compiled its own action plan to improve employee satisfaction. A survey that is scheduled for 2020 will assess the progress under these initiatives. [GRI 103-3](#)

Social and Working Conditions at Production Sites

Over the reporting year, Rosneft continued to implement its comprehensive programme to ensure favourable social and working conditions for the Company employees stationed in remote regions and adverse climatic conditions. The programme's key focus is the development and fit-up of 349 shift camps (including 119 shift and trailer camps, and 230 trailer camps for the drilling crews of RN-Bureniye), which in 2019

accommodated close to 52 thousand employees of the Company and its contractors.

In 2019, RUB 8.7 bln was spent on providing favourable social and working conditions. Capital investment in the construction, reconstruction, development and fit-up of shift camps, field support bases, sites and workshops amounted to RUB 8.1 bln.

**8.7
RUB bln**

was spent by the Company on ensuring good social and working conditions in 2019



Quality Living Conditions

One of the core areas of the Company's Social Policy is its comprehensive housing programme that facilitates long-term cooperation with highly-qualified and valuable employees.

The cornerstone of the programme is corporate mortgage, which consists in the Company's giving an employee

an interest-free 20-year loan to cover 25–35 % of the flat's cost. The employee then enters into a mortgage agreement for the remaining amount with partner banks at a below-market interest rate.

In addition, relocated professionals are provided with corporate housing for a period of up to five years.

1,112
families

of Rosneft employees saw
their living conditions improve
in 2019

Education Support for Employees and Members of Their Families

Rosneft continues to invest in training of the Company's employees and their children who attend universities on a full-time basis by issuing student loans.

In the reporting period, these
loans were taken out by

307
employees



Rosneft Vector – Camp for Employees' Children

In August 2019, corporate children's camp Rosneft Vector opened its doors for the first time to children from all over Russia whose parents are employed by the Company.

This pilot project brought together 135 kids from 59 Group Subsidiaries in the picturesque Republic of Khakassia, at the Lake Shira children's health resort that is supervised by the Achinsk Refinery.

The first shift was comprised of children who had actively participated in competitions and Olympiads organised by Rosneft and regional

associations, supported cultural and volunteer activities, and won awards at municipal, regional, federal and international levels in sports, culture and education.

The girls and boys enjoyed colourful and exciting pastimes such as Future Oil Worker and Spitting Image talk shows, Rosneft Lights Up the Nights tryouts and gala concert, a Spartakiad, the Live Longer quiz, Rosneft Plants multiple-stage quiz, business and takeover days and much more. The kids also went on excursions to the Shirinsky Museum of Local History

and Khakassia Nature Reserve. The camp also welcomed renowned guests who came to speak to the children – Guinness World Record holder Sergey Burlakov and legendary CSKA ice hockey player and Olympic champion Yuri Blinov. The shift ended with an award ceremony that celebrated the best group and sports team, as well as a music concert and fireworks.

Employee Health Management

The Company views keeping employees in good health as one of the strategic priorities of its Social Policy that serves to shape conditions for better labour productivity.

To improve the quality of medical services at remote worksites, provide healthcare for its employees, and carry out the Modern Medicine strategic initiative, Rosneft is implementing a number of measures along the following lines:

- development and improvement of an emergency aid and evacuation system at the production facilities of the Group Subsidiaries; creation and development of a corporate telemedicine network;
- introduction of a brand new programme for preventive medical examination of employees aimed at early detection of life-threatening conditions;
- disease prevention and promotion of healthy lifestyles.

Occupational Medicine Advisory Board

In order to boost the efficiency of the healthcare system and effectively provide emergency medical aid, the remote production facilities of the Group Subsidiaries have an occupational medicine advisory board in place that consists of highly experienced occupational medicine specialists from the Group Subsidiaries and the Company's Head Office.

In 2019, the board's experts conducted comprehensive audits of the healthcare and emergency aid system at six Group Subsidiaries and also assessed the organisation and quality of pre-shift medical check-ups at ten of the Group's Exploration and Production Subsidiaries.

Emergency Medical Aid at Production Facilities

All occupational medical stations of the Company are equipped with state-of-the-art medical equipment for emergency care and professional-grade training equipment for the development of emergency medical care skills.

The Group has established regular training sessions on prehospital emergency care in accordance with modern international standards (both in-person and using telemedicine).

To assess the readiness of the emergency medical response, the Group holds regular medical drills at various levels. In 2019, large-scale drills were hosted by 50 Group Subsidiaries.

Creation and Development of a Corporate Telemedicine Network

As part of a strategic initiative, a project is being implemented to establish a corporate telemedicine network that will bring together 90 healthcare facilities from remote production sites of 18 Group Subsidiaries and large federal and regional medical centres from across eight Russian regions to improve the availability and quality of medical care in the hard-to-reach regions of the Company's operation.

Implementation of a Brand New Programme for Preventive Medical Examination

Ensuring good health of its employees and maintaining their long-term professional engagement are the priorities of the Company's new programme for preventive medical examination aimed at early-stage diagnosis and treatment of life-threatening conditions.

As part of the programme, employees get access to additional medical services intended to effectively diagnose cardiovascular diseases and cancer.

In 2019, the programme saw over 30 thousand employees from 11 Group Subsidiaries (pilot project) and Head Office of the Company.

All employees who went through the prevention programme received health passports containing the results of the check-ups and detailed individual recommendations on further monitoring and treatment. As part of the existing voluntary medical insurance ("VMI") programme, employees received follow-up examinations and all types of treatment, including high-tech ones.

The results confirmed the new format of the prevention programme to be highly effective, especially when it came to early diagnosis of life-threatening diseases at pre-clinical stages. The programme has been extended into 2020.

Additionally, there are various initiatives under the healthy lifestyle propagation programme that include promotion of examinations for early diagnosis of cancer. On the World Cancer Day (4 February), Rosneft prepared a special newsletter on cancer risk factors and life-saving benefits of early diagnosis.



Disease Prevention and Promotion of Healthy Lifestyles

The Company continues running its 2018–2022 Live Longer! programme that promotes healthy living in order to prevent diseases and keep its employees in good health.

With more and more employees of the Company's Head Office and the Group Subsidiaries participating, they not only take more interest in monitoring their physical condition, but also take active steps to find out more about ways to maintain their health, live a more active life, and thus make it more fulfilling.

The programme includes online lectures and training sessions on healthy behaviours, which bring the latest and greatest in healthy living and disease prevention to the regions

of the Company's operation courtesy of leading Russian experts from the relevant fields.

Measures for preventing non-infectious diseases include a special focus on mental health issues.

On the World AIDS Day (1 December), the Company holds an information campaign on the disease. One of its goals is to reiterate the guidelines on how to act in connection with these issues and to protect those living with HIV against discrimination.

Personal Insurance Programmes

One of the Company's key measures aimed at fostering a favourable social environment is the implementation of employee personal insurance programmes, which include:

- VHI, where more high-tech and multidisciplinary clinics with state-of-the-art equipment were included into the coverage to provide services in excess of those guaranteed by the government;
- voluntary accident insurance, which ensures round-the-clock coverage for employees in case of death and total or partial disability as a result of an accident. The Group Subsidiaries are moving towards increasing individual insurance coverage amounts that determine maximum payouts to employees;
- personal insurance programmes covering more than 330 thousand employees of Rosneft and Group Subsidiaries.



EMPLOYEE ENGAGEMENT IN THE LIVE LONGER! PROGRAMME TO PROMOTE A HEALTHY LIFESTYLE CONSISTENTLY GROWS.

Promotion of a healthy lifestyle, sports, and culture

Rosneft has a long history of promoting a healthy lifestyle and extensively supporting sports. Rosneft corporate events facilitate sports activities and give employees an opportunity to demonstrate their athletic achievements.

The "LIVE LONGER!" Programme to Promote a Healthy Lifestyle

The project is set to promote a healthy lifestyle, disease prevention, and involving employees of various ages and fitness levels in athletic events.

As part of the programme:

- the Company's staff competed in a number of major Russian athletic events, including a series of races of the Moscow Marathon, Pioneer Cup biathlon race, All-Russian Ready for Labour and Defence Festival for employees;

- Rosneft was represented by its athletes on the half ironman and sprint distances at IRONSTAR, an international triathlon race held in Kaliningrad;
- a large-scale running event Run 10 km to Celebrate the Oil Worker Day was held;
- family sports events were arranged, including Spring Athletics Festival at CSKA and Summer Running Festival in Moscow.

For the second year in a row, Rosneft's triathlon team became the corporate team of the year and won a commemorative award – a symbolic crystal.

Our triathlon team consists of more than 250 employees representing over 20 Group Subsidiaries.

In the Sport and Russia national award, Rosneft's "Live Longer!" programme was awarded a diploma and a cup in the nomination The Best Project in Corporate Mass Sports and Promotion of Healthy Lifestyle among Employees.

In 2019, Rosneft won a contest held by the Russian Ministry of Energy among oil and gas companies in the nomination titled Promoting Healthy Lifestyle Culture and Standards among Employees.



OUR TRIATHLON TEAM CONSISTS OF MORE THAN 250 EMPLOYEES REPRESENTING OVER 20 GROUP SUBSIDIARIES.



In addition, the Company arranges internal events to promote corporate culture and support creativity among its employees.

9th Winter Spartakiad and 15th Summer Spartakiad of Rosneft

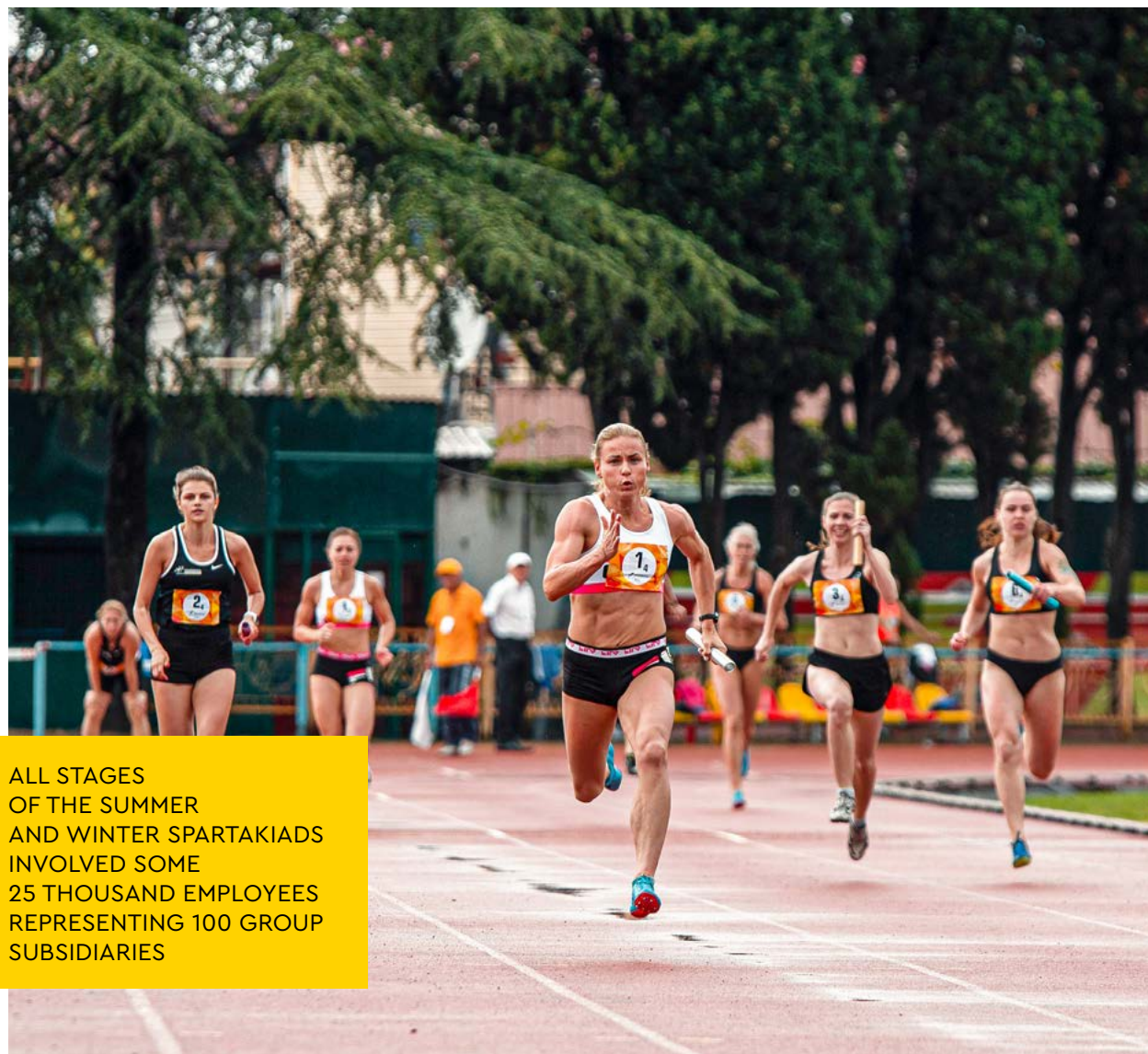
The Company places great importance on its winter and summer Spartakiads.

The 9th Winter Spartakiad was hosted by Ufa and featured competitions in four sports – ice hockey, skating, cross-country skiing, and luge relay. 560 athletes and 32 corporate teams participated in the event. Bashneft became

an overall winner, Angara were runners-up, while Samaraneftgaz took the bronze.

In autumn 2019, the Company awarded prize-winners of the 15th Summer Spartakiad in Sochi with competitions held in twelve disciplines, including futsal, volleyball, basketball, kettlebell lifting, tug of war, table tennis,

athletics, billiards, and bowling. 800 athletes and 20 teams took part in the event with Angara celebrating the victory, Samaraneftgaz winning silver, and Novokuibyshevsk Refinery coming third.



ALL STAGES
OF THE SUMMER
AND WINTER SPARTAKIADS
INVOLVED SOME
25 THOUSAND EMPLOYEES
REPRESENTING 100 GROUP
SUBSIDIARIES

Rosneft Lights Up the Nights

In 2019, Rosneft held its 9th annual corporate festival Rosneft Lights Up the Nights, which brought together more than 6.5 thousand employees from 125 Group Subsidiaries.

Individual performers and groups which qualified after regional contest stages got a chance to win in one of the following nominations: choreography, vocal, instrumental, circus, and performance arts, artwork (painting and photography) in three age groups – 7 to 12, 13 to 17, and 18 and older.

The concert programme featured the best performances of the festival's final phase and those put up by participants together with professional artists and Russian pop stars – Dmitry Malikov, Natalia Podolskaya, Mitya Fomin, Levon Oganezov, Pizza, and JukeboxTrio. Rosneft Lights Up the Nights is famous for its rousing dances, sophisticated instrumental compositions, and the unique nature of each performance.

This traditional festival reveals new talents and every year confirms its status as a notable cultural event attracting performers from the Group Subsidiaries across Russia.



IN 2019, ROSNEFT LIGHTS
UP THE NIGHTS BROUGHT
TOGETHER MORE THAN
6.5 THOUSAND EMPLOYEES
FROM 125 GROUP
SUBSIDIARIES
AND THEIR CHILDREN



Corporate Pensions and Support for Veterans

Since 2000, the Company cooperates with Non-State Pension Fund Evolution¹ to implement a pension programme set to improve the social security of retired employees of Rosneft and Group Subsidiaries. As at the end of 2019, the programme covered 280 thousand employees, and some 80 thousand former employees received corporate pensions. RUB 3.3 bln was paid in pensions during the year.

In 2019, private pension schemes cost the Company RUB 8.9 bln, including RUB 461.6 mln spent on the social support of veterans.

Under the collective bargaining agreement, retirees receive extra one-off financial aid or enjoy health resort treatment free of charge. These expenditures came to RUB 522 thousand in the reporting year. Rosneft also held holiday celebrations for veterans on the occasion of Victory over Nazism in WWII, Oil and Gas Workers' Day and New Year's Day.

The Active Longevity Programme is implemented as part of the Rosneft-2022 Strategy and designed to improve the social security of retirees. In 2019, RUB 2.5 bln was invested in the programme. This helped to:

- apply one-time indexation to ca. 18 thousand pensions awarded in or before 2010, with the average pension amount increasing by 17.5 %;
- top up personal pension accounts of ca. 41 thousand retirees to ensure a 6.18 % indexation of corporate pensions financed from the investment income of NPF Evolution.

The Active Longevity Programme to be completed in 2021 is aimed to ensure the annual indexation of all corporate pensions from the investment income of NPF Evolution, thus maintaining their purchasing power over the whole payment period. [GRI 201-3](#)

80
thousand former
employees
received corporate pensions
in 2019

Private pension schemes

Period	2017	2018	2019
The Company's contributions to NPF Evolution under the pension scheme, RUB mln	6,843	11,577	11,402
Number of people receiving corporate pensions	72,841	76,892	79,836
Pension payments, RUB mln	2,196	2,786	3,287
Total value of personal pension plans with NPF Evolution, RUB mln	6,868	8,833	10,806
Number of people with personal pension plans (cumulative total)	76,460	91,124	96,358
Employees contributing to the fund, thousand people	Over 233	Over 266	Over 280

Collective Bargaining Agreement and Labour Rights

Rosneft respects employees' right to freedom of association and collective bargaining. The Company never prevents its employees from joining associations and trade unions.

The Rosneft Interregional Trade Union Organisation (Rosneft ITUO) is a partner that plays a key role in the Company's HR and social policies. [GRI 103-2](#)



For details on Rosneft ITUO

As at the end of 2019, there were more than 200 trade unions in Rosneft ITUO representing the Group Subsidiaries, with more than 160 thousand members (ca. 50 % of the total headcount as at the year-end).

Collective bargaining agreements cover more than 74 % of the headcount. [GRI 102-41](#)

To facilitate the social partnership programme, we continued the tradition of annual meetings of Rosneft's HR and social segment and other functions with leaders of Rosneft ITUO trade unions in 2019. In November 2019, they met in Moscow to discuss a number of burning issues for employees – wages, their indexation, pension schemes, subsidised vouchers, and local topics that needed to be taken care of by the Company. [GRI 103-3](#)

Traditionally, Rosneft ITUO places a special focus on industrial safety. In particular, a meeting of the Health, Safety, and Environment Committee held in 2019 highly appreciated the performance of the Orenburgneft trade union's labour safety officer and recommended to expand the practice of setting up the position of such Rosneft ITUO officers in other Group Subsidiaries. [GRI 403-4](#)

Liaising with the Russian Association of Oil and Gas Employers.

The last year saw a closer partnership with the Russian Association of Oil and Gas Employers (the Association). There are more than 200 cooperation agreements between the Association and Group Subsidiaries.



For details on the Association

The Association consistently liaises with the Russian Federal Service for Labour and Employment for the unambiguous interpretation of labour laws.

In 2019, in addition to entering into cooperation agreements, another 16 Group Subsidiaries became full-fledged members of the Association.

Industry Agreement between Oil and Gas Companies

In 2019, Rosneft actively contributed to drafting of and entering into a new Industry Agreement between oil and gas and construction companies (the Industry Agreement). For the first time since 1992, the Industry Agreement promotes the interests of the oil and gas sector. The long-lasting negotiations resulted in amending 56 clauses of the Industry Agreement with 24 new clauses added.

Employees of the Group Subsidiaries will enjoy the industry standard that guarantees minimal social benefits and compensations. The new Industry Agreement will enhance social security for employees, support sustainable development of the Company, and mitigate the risks of social strain and conflicts among employees. Another benefit of joining the Industry Agreement is the capability to apply specific provisions of the Russian Labour Code conditioned upon the presence of relevant provisions in the Industry Agreement.

¹ Formerly known as NPF NEFTEGARANT.



#8

SUPPORTING SOCIAL AND ECONOMIC DEVELOPMENT



As a socially responsible business, Rosneft consistently implements a policy to facilitate comprehensive social and economic development across its regions of operation. We build long-term partnerships with local communities, take steps to protect social and cultural heritage and support key infrastructure projects aimed at advancing healthcare, education, culture, mass and youth sports. The Company respects the traditions of indigenous minorities and local ethnic diversity. We have gained a unique experience in addressing challenges related to preserving the identity, lifestyle and households of indigenous people, while also helping provide quality education and healthcare."

Elena Zavaleeva

State Secretary – Vice President of Rosneft



For details on Vostsibneftegaz's grant programme to preserve the Evenki language, see **p. 181**

168 Supporting Social and Economic Development
181 Support for Indigenous Minorities of the North



Supporting Social and Economic Development

Rosneft is committed to promoting sustainable development of local communities by bolstering related industries and creating added value and new jobs across the entire production and sales chain. We implement socially significant infrastructural projects that serve to improve the quality of life for local communities. **GRI 102-15**

Economic Development

As a major Russian taxpayer, Rosneft helps ensure budget stability and contributes to the nation's social and economic development.

In 2019, the Company paid RUB 3.6 trln in taxes, duties and insurance contributions to the budgets of all levels and non-budgetary funds, which makes up 18 % of federal budget revenues.

3.6
trillion roubles

in taxes, duties and insurance
contributions paid by Rosneft
in 2019

Investment Programme

Rosneft's investment programme comprises high-quality projects across all business segments and seeks to help the Company deliver on its strategic goals, including an increase in profitability, enhancing operational and investment efficiency, and minimising the environmental footprint.

The existing investment portfolio management and project ranking process make the investment programme flexible enough to respond quickly to changes in the macroeconomic environment and business, as it boasts high resistance to adverse external factors.



For details on the investment programme, see the 2019 Annual Report.

Most of Rosneft's investment projects are based in Russia that accounts for 92% of the Company's total investments in 2019, of which about 20% are projects in Eastern Siberia and the Far East. We invest in projects that bring about social and economic improvements and boost the quality of life in Russian regions.

Rosneft's investment management process is designed in line with international best standards and practices, including initiation, pre-study, approval, monitoring of investment projects, and management of the Company's investment portfolio. The investment process is integrated with all related processes, including strategic and business planning, budgeting, reporting and financial control, project management and corporate governance.

GRI 103-2 **GRI 103-3**

INVESTMENT PROCESS: PRINCIPLES AND OBJECTIVES



Focus on UN Sustainable
Development Goals



Honouring the Company's strong
social responsibility commitments,
including its contribution
to the social and economic
development of local communities



Increasing efficiency across all
operating segments



Robust business growth



Improvement of the investment
discipline

Equipment Localisation

In 2015, Rosneft launched an Import Substitution and Equipment Localisation Programme designed to help the Company achieve its goals in line with its strategic priorities.

OBJECTIVES UNDER THE IMPORT SUBSTITUTION AND EQUIPMENT LOCALISATION PROGRAMME

Rosneft development as a high-tech oil and gas company

Technological leadership in the core competencies: oil and gas
production, oil refining and gas processing

Technologically sustainable position in the hydrocarbons market

Increasing the share of Russian-made products and implementing
projects to localise the manufacturing of foreign oil and gas
equipment in Russia in cooperation with leading global producers

Sustainable infrastructure development

Running upstream and downstream projects

As part of the programme, Rosneft keeps investing in proprietary solutions and products with a view to sustaining its technological self-sufficiency.



For details on the proprietary research-intensive specialist software, see the Development of R&D Capabilities section of this Report.

Advancing Prospecting, Exploration and Development Technologies

In partnership with Rosatom, Rosneft creates instruments for measuring mineral composition of formations and logging¹ while drilling horizontal wells. This will help provide for high-quality insights into complex reservoirs² and ensure independence from expensive foreign services.

Rosneft and its another partner Rostec are working on a project to produce synthetic proppants using a jointly developed technology.

Promoting Russian-Made Catalysts

In 2019, Rosneft's subsidiary RN-Kat specialising in catalyst production and the Ufa Refinery conducted industrial tests on the first batch of the hydrotreating catalyst suitable for Euro5 compliant diesel fuel. This is a unique hydrotreating agent capable of fully replacing its foreign peers for the Russian refining industry. The tests proved that Rosneft's proprietary catalyst was fit for the production of diesel fuel compliant with all the latest technical requirements.

In 2019, the Novokuibyshevsk Catalysts Plant launched Russia's first-ever advanced pilot testing facility for hydrotreating catalysts. The new facility is designed to test technologies for manufacturing new oil refining and petrochemical catalysts with a view to ramping up large-scale production. Until now, Russia has been lacking technological capabilities of this kind. The cutting-edge platform will fast-track the implementation and commercialisation of Rosneft's R&D initiatives focusing on catalysis and catalysts for the said processes.

¹ A type of borehole measurement.

² Rock formation with voids (pores, vugs, cracks or fractures) that can host and filter fluids (oil, gas and water).



Zvezda Shipbuilding Complex

Upon instruction from the Russian President, Rosneft is running a programme to ramp up a shipbuilding cluster in the Far East. Zvezda Shipbuilding Complex (Zvezda Shipyard) in Bolshoy Kamen, Primorye Territory, is the core shipyard in the cluster and Russia's first-ever facility for the construction of large-capacity vessels.

In 2019, the shipyard has 42 vessels in pipeline, with orders for 28 vessels placed by Rosneft to secure pilot workload.

Zvezda Shipyard produces vessels of various class and purpose, including large-capacity Aframax tankers, MR product tankers powered by gas motor fuel, shuttle oil tankers and Arc7 ice-class gas carriers, nuclear and diesel-electric icebreakers, multi-purpose supply vessels, and also the world's most powerful nuclear Project 10510 "Leader" ice-breakers.

Zvezda is set to become a strong competitor to foreign shipyards, providing Russia with a maritime fleet to develop offshore oil and gas reserves and ensure seamless operation of the Northeast Passage – the shortest shipping route between Europe and Asia.

Zvezda Shipbuilding Complex is being built in two phases. Already commissioned are the facilities of the extended first phase, including a hull production block, painting workshops, an open heavy slipway equipped with unique cranes, an advanced ship moving system, and a transport-transfer dock.

With these facilities on stream, the shipyard was able to start building vessels, including the most sophisticated Aframax tankers, without waiting for the completion of the second-phase facilities.

Following the commissioning of its second phase, Zvezda will be able to build all types of vessels and marine equipment. Work is currently under-way to build a dry dock and additional full-cycle workshops for large capacity vessels and marine equipment. The shipyard will be fully operational in 2024.

WORKS COMPLETED AS PART THE FIRST AND SECOND CONSTRUCTION PHASES IN 2019:

Soil dumped
>700
thousand cub m

**Construction sites
developed**
>16.5
thousand cub m

Sheet piles installed
3.2 kt

Concrete poured
>136
thousand cub m

Steelworks assembled
~12 kt

Piles installed
7 thousand

Government Relations in Import Substitution and Localisation

In 2019, we continued to develop import substitution in cooperation with the following federal executive bodies:

- Russian Government;
- Ministry of Industry and Trade;
- Ministry of Energy;
- Ministry of Economic Development.

Rosneft is represented in various inter-governmental task forces and research groups established by federal executive bodies to look into ways to reduce the domestic fuel and energy sector's dependence on imported equipment, components, spare parts, as well as on foreign services and software.

Rosneft is also involved in public discussions of draft laws and regulations aimed at facilitating import substitution.

As at the end of 2019, the Company signed cooperation agreements with 48 Russian regions, which among other things set stage for localising equipment manufacturing across Russia.

Social and Economic Development of the Russian Far East

Building a cutting-edge industrial cluster requires a lot of investments in manufacturing, as well as in talent pool and social infrastructure. Thanks to the Zvezda Shipyard, the Primorye town of Bolshoy Kamen received a powerful impetus for growth.

The shipyard will be built by a Rosneft-led consortium in furtherance of instructions from the Russian President Vladimir Putin. Today, the shipyard has 39 vessels (59 including options) in its pipeline, with orders for 28 vessels placed by Rosneft to secure pilot workload. Zvezda product range will feature vessels with an up to 350 kt displacement, components of marine platforms, ice-class vessels, commercial vessels for cargo transportation, specialty vessels, and other types of marine equipment of any complexity, characteristics and purposes, including those not previously manufactured in Russia due to the lack of required launching and hydraulic structures. The new industrial cluster emerging in the Russian Far East has created thousands of jobs, contributing to the region's economic and social development. The shipyard currently employs as many as 3 thousand people, with its headcount expected to exceed 7.5 thousand by 2024.

Large-scale work is in progress to train and attract qualified workforce.

The Company runs a local school-to-workplace framework for continuing education, with three Rosneft classes opened to provide future talent with a deep insight into core subjects. Zvezda maintains close cooperation with local education institutions, providing training and jobs to their graduates. It also organises job fairs and open days for students. In 2019, we helped launch new specialisations in the Far Eastern Shipbuilding College, such as hull steel work assembly and electrogas welding.

Zvezda experts made a presentation at the Ufa State Petroleum Technological University and Bashkir College of Welding, Assembly and Industrial Production. Following the assessment of candidates, the shipyard made job offers to 21 welders.

Zvezda is also strengthening dialogue with employment centres countrywide. The company and the Agency for Human Capital Development in the Russian Far East are implementing a jointly developed roadmap.

A special focus is placed on improving social infrastructure in Bolshoy Kamen. To create a comfortable living and working environment, Zvezda helps build housing for its staff. November 2019 saw the commissioning of four new residential buildings intended for Zvezda employees. At the official ceremony, they received keys from 144 apartments fully ready for a comfortable living. By the end of the year, another 12 residential buildings with 528 apartments were commissioned, with two other buildings of 68 apartments each made available for living earlier as part of the project. By 2023, the Zvezda Shipyard contractors and Primorye Territory Administration will build a total of 788 apartments in seven Bolshoy Kamen microdistricts.





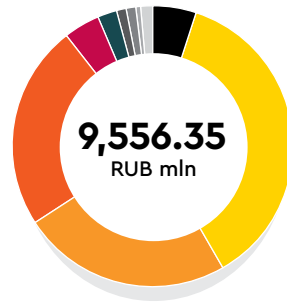
Supporting Social Development of Regions and Charity

Rosneft makes a significant contribution to the development of local healthcare, education, culture and infrastructure while also promoting mass sports in the regions of operation. In its charitable activities, the Company prioritises social investments in the regions as per social and economic cooperation agreements with regional authorities.

In 2019, we continued to honour our commitments under the relevant agreements with 48 Russian regions.

GRI 103-2

Allocation of Funds in 2019¹, % GRI 203-1



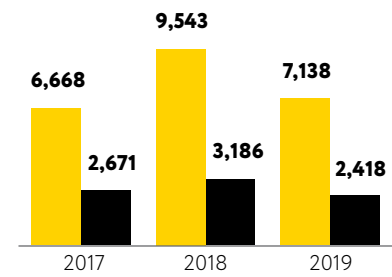
- 5.1 Healthcare
- 36.6 Physical education and sports, including children's, promotion of healthy lifestyles
- 24.2 Infrastructure development in regions, districts and municipalities
- 23.7 Education and science
- 4.1 Culture and revival of cultural heritage
- 2.2 Support for veterans, the disabled, and people in need
- 1.2 Pre-school institutions and orphanages
- 1.2 Charities, NGOs, humanitarian aid
- 0.4 Support for indigenous peoples of the North
- 1.3 Other expenses



¹ For charity expenses related to the support of education institutions and Veterans Council, see the Personnel and Social Programme section of our annual reports for 2017, 2018 and 2019.

Charity funding, RUB mln

GRI 203-1



- Social financing under signed agreements
- Individual charitable projects, total

9,556
million roubles

spent on sponsorship activities
in 2019

Support for Local Water Supply Initiatives

Rosneft sponsored a large-scale project to improve water supply in the Republic of Ingushetia. In 2019, water supply facilities were put into operation in Nazran and six rural settlements outside the town. Over 40 km of water pipeline, three water tanks and eight artesian wells were built to provide clean drinking water to local communities.

The Company also supports projects to secure water supply in the Tarqazy settlement and to repair water supply networks in 11 settlements of Yermekyevsky, Ishimbaysky, and Chekmagushevsky districts of the Republic of Bashkortostan.

In the Khanty-Mansi Autonomous Area – Yugra, discussions are underway to construct a modular water treatment plant in the settlement of Karkateyevy. It is also planned to erect engineering facilities for water supply networks in the district's urban and rural settlements. As part of the Clean Water federal project, the Achinsk Refinery

supported a project to provide clean drinking water to settlements located in the Bolsheulisk District of the Krasnoyarsk Territory. The programme is being implemented jointly with the district administration.

GRI 413-1

Charity

Rosneft provides charitable support to the regions across its footprint. The Company's charitable activities are carried out in accordance with the Federal Law On Charitable Activity and the Regulations on the Procedure for Charitable Activities in Rosneft and Group Subsidiaries.

GRI 103-2

KEY AREAS OF ROSNEFT'S CHARITY



Development of social infrastructure in the Company's regions of operation



Support for health care and disease prevention, promotion of a healthy lifestyle and improvement of the psychological climate



Support for education, science, culture, the fine arts, patriotic upbringing and personal development



Support for veterans and the disabled, including retirees, as well as employees and members of their families



Support for educational institutions and corporate training centres (School-University-Company)



Support for Indigenous Minorities of the North



Support for physical education and amateur sports

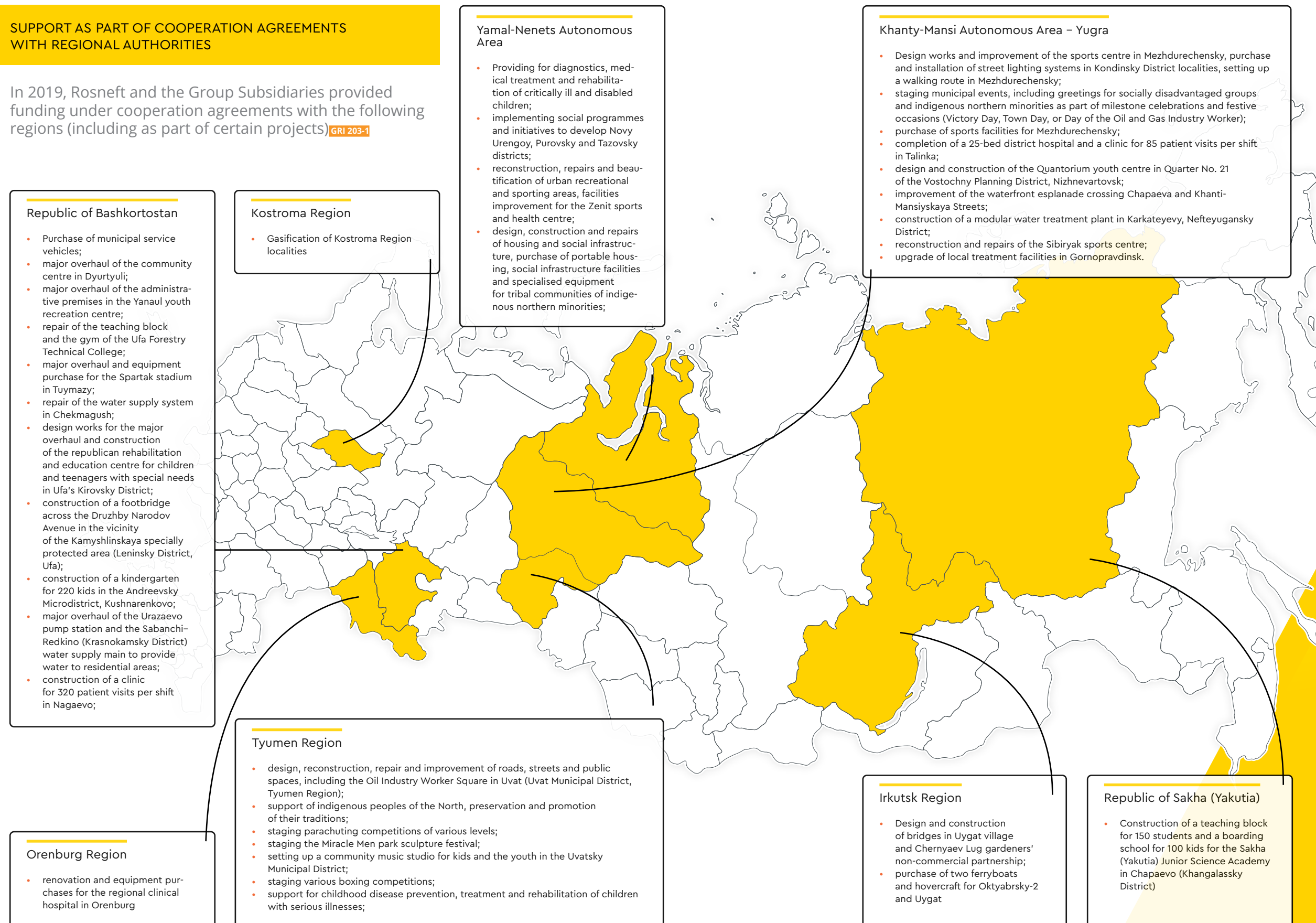


Environmental protection and wildlife preservation



SUPPORT AS PART OF COOPERATION AGREEMENTS WITH REGIONAL AUTHORITIES

In 2019, Rosneft and the Group Subsidiaries provided funding under cooperation agreements with the following regions (including as part of certain projects) **GRI 203-1**





2019 saw Rosneft allocate RUB 418 mln to support certain charity projects in addition to investments in the regions as per the agreements on social and economic cooperation. In the reporting period, Rosneft gave charitable support to the following activities and projects:

- improving social infrastructure of the Evenkiysky District (purchase of equipment for municipal needs, improvement of the rural settlements' living environment, overhaul of socially important facilities, including repairs of housing) and supporting the Surindinsky reindeer husbandry enterprise.
- purchasing diesel generators for the villages of Yerbogachen and Nepa (Irkutsk Region) and implementing a project to promote school forestry units in the villages of Yerbogachen, Preobrazhenka, Podvoloshino;

- performing design works and constructing bridges in the Uygat village of the Tulunsky District and in the Chernyaev Lug gardeners' non-commercial partnership of the Nizhneudinsky District (Irkutsk Region);
- providing financial support to overhaul a children's tuberculosis sanatorium in Saratov;
- purchasing medical equipment for the Novokuibyshevsk Central City Hospital and the Ryazan Regional Clinical Perinatal Centre, improving the technical infrastructure of the Angarsk Perinatal Centre;
- repairing the roof of Secondary School No. 7 named after Alexander Pushkin with advanced study of English, repairing heating, water supply and sewage facilities of Secondary School No. 48 located in Vladikavkaz (Republic of North Ossetia – Alania);

- upgrading social facilities in Achinsk;
- purchasing equipment for children's playgrounds and sports grounds in Strezhevoy;
- sponsoring holiday and after-school activities of orphans, children from disadvantaged and low-income families, organising New Year plays for disabled children and children from low-income families living in the areas of the Company's operations in the Tomsk Region;
- upgrading social facilities located in the Mirninsky and Lensky districts of the Republic of Sakha (Yakutia);
- reconstructing the stadium of the Children and Youth Sports School situated in the Parabelsky District (the Tomsk Region);
- providing financial support to veterans and disabled servicemen of the Great Patriotic War, home front workers, as well as persons of equivalent categories in the regions across the Company's footprint.

Round Table of the Group Subsidiaries in the Republic of Bashkortostan

Rosneft organises round tables with its stakeholders on a regular basis. April 2019 saw one of the events held in Ufa and attended by representatives of the Group Subsidiaries and the republic's government, contractors, and educational institutions. The agenda included the most pressing issues on sustainable development, regional impact of the Company and the Group Subsidiaries, as well as suggestions put forward during the previous event.

At the round table meeting, stakeholders presented their proposals and provided their assessment of cooperation on sustainable development. The participants' requests included the following:

- resuming joint scientific and technical councils

of the Company and the Ministry of Industry and Innovation Policy of the Republic of Bashkortostan;

- fostering the creation of the Rosneft – Ufa State Oil Technical University research and education centre;
- creating a mechanism for the out-of-court settlement of disputes arising during the Company's procurement activities;
- familiarising members of the Chamber of Commerce and Industry with Bashneft's procurement procedures through training seminars.

As the event came to a close, the stakeholders thanked the Company and other participants for organising a platform for a constructive dialogue. **GRI 413-1**

Rosneft supported certain charity projects by allocating

2,418
million roubles





Sponsorship

Rosneft pays special attention to sponsorship activities in the regions where it operates. The Company provides ample support to projects aimed at reviving spiritual and national values, developing culture, science, education, industry, and sports.

In 2019, Rosneft spent RUB 1,842 mln on sponsorship activities, including the following events:

- seven business forums and conferences held in Russia and abroad, such as the St Petersburg International Economic Forum, the Eastern Economic Forum, the Russian Energy Week International Forum, the Arctic: Territory of Dialogue International Arctic Forum;

- exhibition of the British artist Thomas Gainsborough held at the Pushkin State Museum, a permanent historical display Ancient Colonisation of the Northern Black Sea Region staged by the State Hermitage Museum;
- BraVo International Music Award, White Nights Festival, as well as events organised by the D. D. Shostakovich St Petersburg Academic Philharmonia;
- performances of the St Petersburg Eifman Ballet, Chamber Choir of the Moscow Conservatory, Mariinsky Orchestra conducted by Valery Gergiev, and other events as part of the Russian Culture Festival celebrated in Japan;

- Eifman Ballet performed Anna Karenina in Doha at the premises of the Qatar Foundation for Education, Science and Community Development;
- comprehensive programme to protect polar bears living in Russian zoos, which has been running since 2013: under the programme, Rosneft provides sustenance for 36 polar bears in 16 zoos across the country;
- financing of the CSKA Moscow Hockey Club and the Arsenal Tula Football Club;
- funding of the LADA Sport ROSNEFT racing team;
- acting as a general sponsor of the International SAMBO Federation.



Volunteering Activities

The Group Subsidiaries promote volunteering among its staff.

Rosneft's employees take part in a variety of volunteering initiatives such as supporting vulnerable population groups (veterans, disabled people, orphans, and older people who live alone), organising and holding sports, educational, social, and cultural events, implementing projects to protect the environment and address green issues.

Bashneft's Kind Hearts

It has become a New Year's Eve tradition for employees of Bashneft to stage festive events for children (A Gift From Father Frost) and for the Company's veterans (The Warmth of Our Hearts). The Kind Hearts volunteer programme began over eight years ago, adding in size and scale every year.

In 2019, volunteers held New Year plays for more than 1,000 children

from 25 sponsored institutions. They also donated thousands of children's gifts, as well as fitness and rehabilitation equipment, office and household appliances, carpets and furniture.

Volunteers visited veterans' homes to give presents to the those affected by the Great Patriotic War and former employees of the Company.





Donor Day

Every year, Rosneft's employees participate in Donor Day events and actively donate blood on an individual basis. Several dozens of them were recognised as Honorary Donors of Russia, which means they have made over 40 blood donations. In 2019, some 1.5 thousand employees of the Company took part in Donor Days and donated more than 650 litres of blood.

A corporate Donor Day has now become a good tradition for Bashneft's employees. The event is held right after the Oil and Gas Industry Workers Day. In 2019, it brought together over 60 employees of Bashneft and its subsidiaries. Those interested also applied for becoming bone marrow donors. Our employees are proactive people always ready to help those in need.



Support for Indigenous Minorities of the North

Respect for the cultural heritage, traditions and rights is a guiding principle of Rosneft's operations in the regions of indigenous minorities. [GRI 103-1](#)

When engaging with indigenous peoples, the Company is guided by the following international documents:

- United Nations Declaration on the Rights of Indigenous Peoples (UNDRIP);
- Indigenous and Tribal Peoples Convention (No. 169) of the International Labour Organisation. [GRI 103-2](#)

Rosneft strictly complies with the Russian laws on indigenous minorities of the North, ensuring they can exercise their rights to protect their natural environment, traditional way of life, economic activities, and crafts.

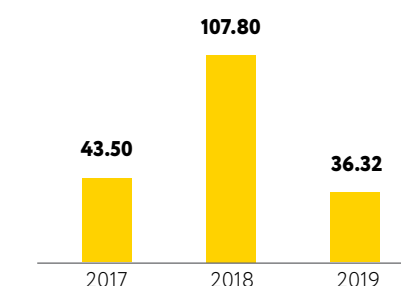
Representatives of indigenous peoples are involved in decisions that may affect their interests. In particular, they have the right to participate in the decision-making process during the assessment of environmental impact and public environmental reviews. [GRI 103-3](#)

Rosneft and the Group Subsidiaries support indigenous minorities in addressing social issues, running initiatives to improve the legal literacy of community leaders, purchasing equipment and materials for traditional economic activities and crafts. The Company promotes access to healthcare services in the remote areas of the North, purchases necessary equipment and supplies, and supports the activities of institutions that care for the health of indigenous children.

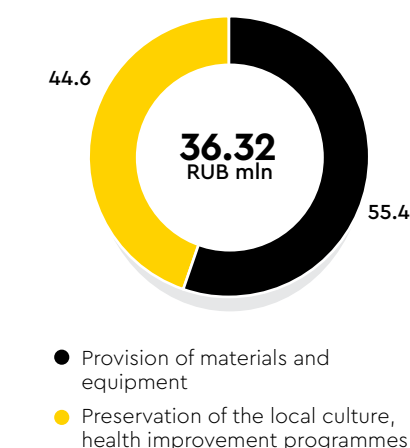
In 2019, the Company cooperated with indigenous peoples in a number of areas, including:

- developing social infrastructure in the Turukhansky and Taymyrsky Dolgano-Nenetsky districts, including support for indigenous minorities;
- supporting the Association of Indigenous Peoples of the North of the Yamal-Nenets Autonomous Area "Yamal for Descendants"
- sponsoring and hosting the Rossyipi Yugri regional festival of Northern peoples culture in the Khanty-Mansi Autonomous Area – Yugra;
- staging events aimed at preserving ethnic identity, culture and lifestyle of indigenous minorities of the Khanty-Mansi Autonomous Area – Yugra.

Support for the Indigenous Minorities of the North, RUB mln



Breakdown of expenditures to support the indigenous peoples of the North, %



ECOARCTIC Forum

March 2019 saw the ECOARCTIC environmental forum staged as part of cooperation between the administration of the Nenets Autonomous Area and RN-Shelf Arktika, a subsidiary of Rosneft. Attended by over 2.5 thousand people,

the event sought to establish an open and fruitful dialogue between scientists, government officials, major subsoil users, and local residents on matters relating to environmental protection and preservation of indigenous peoples' identity.

In 2019, the forum's key event was a round table on safe development of the Arctic and reduction of environmental impact. The dialogue also centred around the grant programme to study the Evenki reindeer. As part of the programme, scientists of the Siberian Federal University are studying reindeer migration routes. The scientists also presented the results of projects to study the polar bear and the Laptev Sea subspecies of the Atlantic walrus inhabiting the Russian part of the Arctic Ocean.

During the event, six career guidance lectures on ecology and geology were held for schoolchildren of grades 8 to 11 from three residential areas.

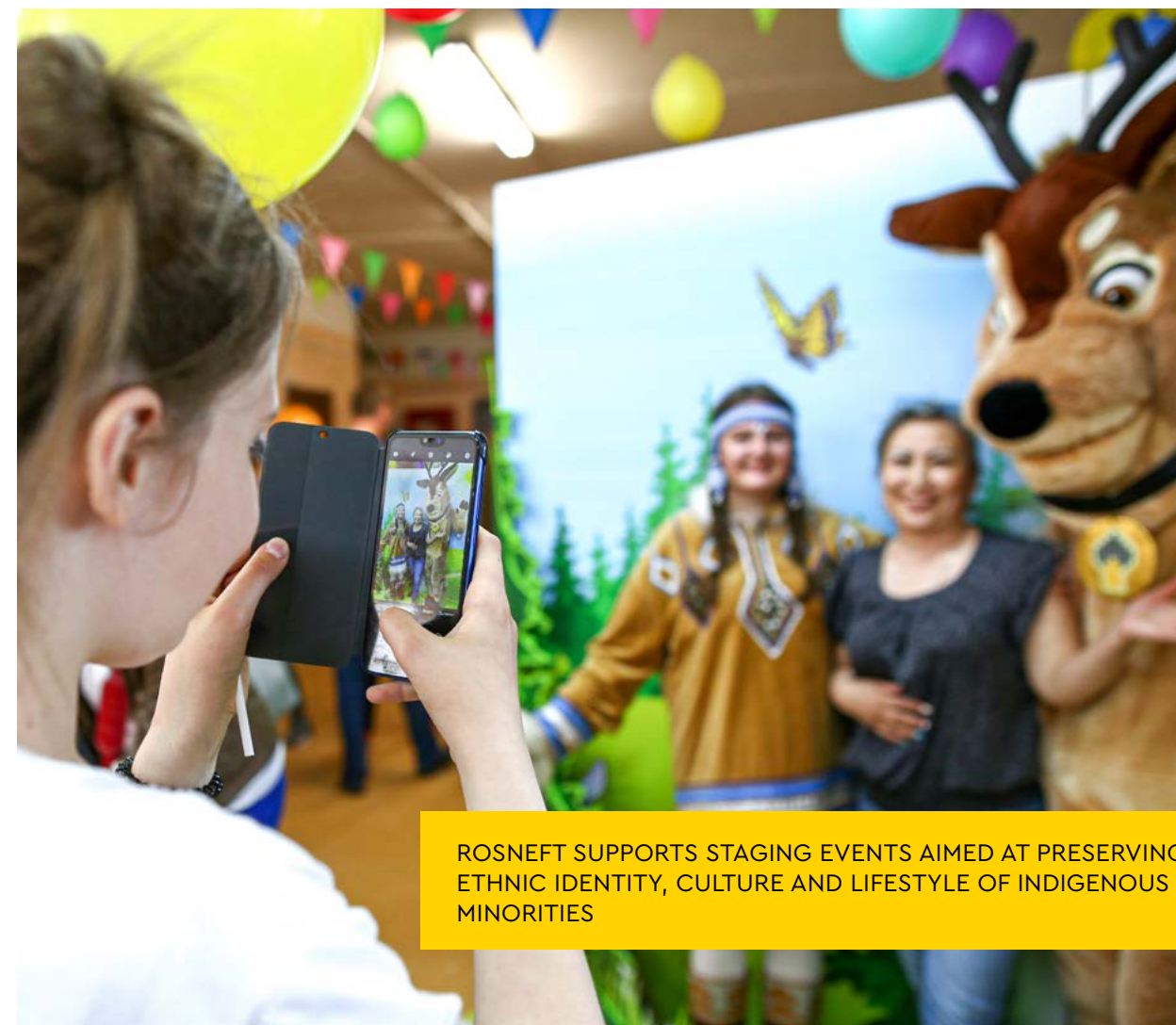
The forum was concluded by the Syamyankhat Mereta national holiday featuring reindeer races, national games, a national costume contest, and musical performances. More than 70 reindeer herders took part in Syamyankhat Mereta competitions.



For details on public discussion of environmental impact assessment with regard to planned operations, see the Environmental Protection section of this Report.



FOR DETAILS
ON THE GRANT
PROGRAMME OF EAST
SIBERIAN OIL AND GAS
COMPANY



ROSNEFT SUPPORTS STAGING EVENTS AIMED AT PRESERVING ETHNIC IDENTITY, CULTURE AND LIFESTYLE OF INDIGENOUS MINORITIES

Support for Indigenous People by Vostsibneftegaz

In 2019, Vostsibneftegaz, a subsidiary of Rosneft, took further steps to maintain traditions and preserve the culture of indigenous minorities of the Evenkiysky District (Krasnoyarsk Territory). Supporting domestic reindeer herding and craftsmanship is among the company's priorities.

Vostsibneftegaz is a traditional partner in celebrating the Reindeer Herder's Day. In addition to prizes for the winners, Surindinsky, the only reindeer husbandry enterprise in Evenkia, received 15 radio stations and a car on the basis of GAZ-73 with radio communication equipment suitable for the taiga

environment, making sure reindeer herders can coordinate the herding process and protect reindeers from wolves.

A new three-apartment house was built in the national village of Poligus. In the Ekonda village, municipal housing stock was renovated, while in the Mutorai village, school and kindergarten buildings were overhauled. The Union of Indigenous Communities of the North received support for traditional economic and cultural activities, training of students and healthcare services for the indigenous population.

Under the Vostsibneftegaz grant programme to support scientific

research of considerable significance for the residents of the Evenkiysky District, scientists of the Siberian Federal University continued to take steps to preserve the Evenki language. For this purpose, the first audio library of Evenki speech and folklore was created and used as a basis for the only website in Evenki.

In 2019, the Kuyumbinskoe Hunters Society was awarded its first grant for the project to preserve and reproduce the purebred Evenki Laika. When revived, the dogs of this genotype will help support traditional folk crafts as a key activity of the Evenks.



#9

RESPONSIBLE BUSINESS PRACTICE



“As an operator of the largest retail network of filling stations and oil depots in Russia, Rosneft has been putting significant effort into developing the marketing and distribution infrastructure. The Company is committed to responsible business practices when engaging with a wide range of contractors and builds relationships based on mutual interest, transparency, competitiveness and effectiveness. Stable supplies of environmentally-friendly and high-quality products and complementary goods coupled with high service standards make the Company a leader in the Russian retail market. On top of that, Rosneft contributes to the social and economic development across its footprint by contracting local SMEs.”

Avril Conroy

Vice President for Retail Business and Domestic Market Development



For details on fuels with improved environmental properties, see **p. 187**

186 Customer Engagement

193 Supplier and Contractor Relationships



Customer Engagement

Rosneft makes it a priority to build trust-based partner relationships with all its consumers, embrace a customer-driven approach and supply environmentally-friendly and high-quality solutions. Its products are sold in domestic and international markets. **GRI 103-1**

Retail Sales

As at the year-end, Rosneft's retail sales covered 66 Russian regions. We operate the largest and most geographically diverse retail chain in Russia, holding a leading position in most regions. The Company also has retail chains in Abkhazia, Belarus, Kyrgyzstan, Georgia and India. Rosneft is a leading Russian fuel brand in terms of recognition and quality perception.

As at 31 December 2019, the Company's retail chain comprised over 3 thousand filling stations in 66 Russian regions and over 5 thousand filling stations abroad. In 2019, the Company completed the acquisition of Petersburg Fuel Company to become a leader in the strategic market of St Petersburg and the Leningrad Region.

As at 31 December 2019, the Company had 132 oil depots (including two filling stations) and approximately a thousand

**>3
thousand
filling stations
in 66
Russian regions**

gasoline tanker trucks in operation.

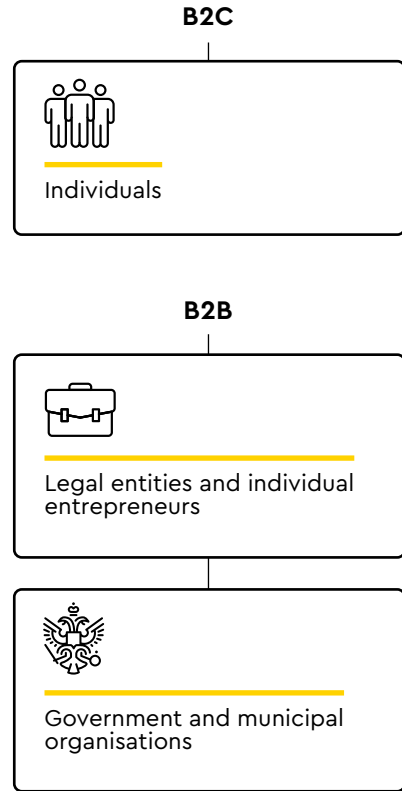
The Company continues to expand sales of complementary goods in convenience stores and cafés at its filling stations. As at the year-end, filling stations had 2,079 convenience stores, with 2,530 filling stations offering coffee service. In 2019, over 45 mln cups of hot drinks were sold at the Company's filling stations.

Rosneft aims to further develop the infrastructure at its filling stations to meet the market needs. To this end, it is implementing a programme to expand its sales of compressed natural gas (CNG). In 2019, its monthly CNG sales totalled 1.7–2 mmcm, with up to 2.5 thousand vehicles serviced daily at the Company's filling stations. Rosneft has 12 CNG modules at its filling stations and plans to expand further.



For details on the Company's domestic and export sales, see the Commerce and Logistics section of this Report.

**CUSTOMERS
OF THE COMPANY'S RETAIL
NETWORK, INCLUDING
FILLING STATIONS
UNDER THE ROSNEFT,
BASHNEFT, BP AND PTK
BRANDS, CAN BE GROUPED
INTO TWO SEGMENTS:**



ADVANTAGES OF THE COMPANY'S DIGITAL SOLUTIONS:



**Guaranteed high quality of fuel
from a reliable supplier**



**Extensive chain of filling stations,
including the partner ones**



Attractive flexible pricing



**Mobile app with a virtual fuel
card**



Quick contract execution



Electronic workflow



**Financial instruments
and additional services**



Round-the-clock hotline

New Digital Services for Customers

Rosneft seeks to improve the effectiveness of its retail business. In line with the Rosneft-2022 Strategy, the Company is introducing digital technologies to develop digital marketing channels, including new mobile apps, brand promotion in social networks, development of new distance learning courses for employees, automation of material flow measurements and a monitoring system keeping track of petroleum product inventories.

Rosneft is working on new solutions to offer online fuel payment services for individuals. The Company and its partners have launched a fuel payment service via a mobile app, allowing customers to pay for fuel without leaving their car. In 2019, the loyalty programme was updated, with a new Virtual Card service available in-app to phase out plastic cards. In the reporting year, the number of Family Team, BP Club and Bashneft loyalty programme members reached 13.6 mln people.



Family Team and BP Club websites have been updated.

The Company is also developing B2B services. Rosneft – Fuel Cards provides a comprehensive and practical solution for businesses. The product offers cashless payments for legal entities using virtual and plastic fuel cards.

In 2019, Rosneft was the first in Russia to launch a B2B fuel payment service via its RN-Card mobile app.

The Company is moving with the times, introducing advanced digital solutions to make the customers' business processes easier. Today, to gain access to virtual card payment and electronic accounting documents, a potential customer can download a mobile app from the website at www.rn-card.ru and sign a contract within just five minutes.

More Eco-Friendly Products

In 2019, Rosneft continued implementing projects to bring fuels with improved environmental efficiency and performance to the Russian market.

In 2019, Tulanefteprodukt, Ryazanefteprodukt, Kaluganefteprodukt and RN-Moscow (Rosneft's subsidiaries) switched to improved Euro-6 gasoline (AI-95-K5). Euro-6 gasoline is currently sold at 727 filling stations of the Company in the Republic of Bashkortostan (112 filling stations), Krasnodar Territory (205 filling stations), Republic of Adygeya (5 filling stations), Tula (40 filling stations), Kaluga (27 filling stations), Ryazan (42 filling stations) and Vladimir (3 filling stations) regions, in Moscow and the Moscow Region (293 filling stations), as well as in wholesale quantities from oil depots. **GRI 103-2**



Euro-6 gasoline



The new fuel contains less sulphur, benzene and aromatic hydrocarbons, resulting in lower corrosiveness and toxicity of exhaust gases. The gasoline helps decrease deposits by 12.5 % on intake valves and by 12.7 % in combustion chambers. In 2019, production of Euro-6 gasoline was launched at Ryazan Refinery. In November 2019, Euro-6 fuel received awards from the nationwide Top 100 Best Russian Goods programme.

Pulsar 100 gasoline



The gasoline is high-octane fuel with decreased deposit formation. Compared to AI-95-K5, Pulsar 100 has a different composition with a decreased content of aromatic hydrocarbons and an increased content of high-quality components ensuring low deposit formation. The fuel contains active cleaning additives for stable and reliable operation of the car fuel system. Pulsar 100 gasoline is sold at the Company's filling stations in the Moscow Region.

BP Fuels with ACTIVE technology



BP fuels with ACTIVE technology are specially designed to provide a high level of engine protection against deposits formation and remove existing deposits. ACTIVE fuel is a unique set of components developed specifically for the new BP fuel line to effectively prevent deposit formation on the main parts of the engine and contribute to greater fuel economy and restoration of the engine capacity.

Compressed natural gas



Gas motor fuel is more environmentally friendly and efficient type of fuel that allows car owners not only to considerably cut costs, but also benefit from a more efficient car while also reducing their environmental impact. In 2019, 12 filling stations in Russian regions served daily up to 2.5 thousand cars with this fuel.

Eco-Friendly Marine Fuel

In 2019, RN-Bunker (Rosneft's specialised subsidiary) started bunkering vessels in the Far East with RMLS40, fuel with improved environmental performance. It is characterised by a low sulphur content that does not exceed 0.5 % and fully meets the requirements of the International Convention for the Prevention of Pollution from Ships (MARPOL).

The first 200 tonnes of marine fuel were supplied to a bulk carrier in Nakhodka. The low-sulphur fuel is also used for vessels operating in the waters of Bolshoy Kamen as part of the Zvezda Shipbuilding Complex project.

The environmentally friendly marine fuel for the Far East is produced at Rosneft's Komsomolsk Refinery in the Khabarovsk Territory. The ability to produce this type of fuel testifies to the high technological level of the Company's refineries, while the use of this fuel helps reduce the transport's impact on the environment.

In 2019, RN-Bunker started fuelling vessels with eco-friendly LMF type A fuel (low-viscosity marine fuel) produced at Novokuibyshevsk Refinery. The sulphur content in the fuel is below 0.1 %.

Fuels with Improved Environmental Properties

Rosneft Deutschland GmbH (Rosneft's subsidiary) produces greener transportation fuels using both traditional components and HVO¹ additive made from vegetables, as required by German and European legislation. Its refineries and numerous terminals across Germany deliver over 500 kt of biofuels per annum. Rosneft Deutschland sells its bio-based fuel to customers in Germany, Poland and Austria.

As an equity holder in three German refineries, Rosneft promotes a variety of greener production initiatives, including:

- a feasibility study for the IH²® technology (Shell technology used by another shareholder in the PCK Refinery in Schwedt). The IH²® technology is a catalytic thermochemical process to convert biomass directly to high-purity hydrocarbon hydrocarbon fuel components. It helps achieve cost savings in turning forestry, agricultural and municipal waste into transportation fuels, reduces the hydrocarbon fuel consumption, and provides up to 72 % bio-energy recovery from organic wastes and up to a 92 % reduction in greenhouse gas (GHG) emissions;
- an initiative to produce regenerative fuels at MiRO Refinery. As part of the reFuels – Rethinking Fuels (regenerative fuels) project, MiRO Refinery together with Karlsruhe Institute of Technology (KIT), the Baden-Württemberg Ministry of Transport, other government authorities and partners from the automotive industry have been looking into efficient production and use of regenerative fuels, the so-called reFuels. The project focuses on the processes designed to significantly expand the production of gasoline and diesel fuels based on renewables and available raw materials. It also explores the impact of regenerative fuels on the level of pollution emissions and vehicle operation. The production of synthetic fuels using the existing refinery infrastructure will enable a phased transition to carbon-neutral fuels.



Electric Car Charging Stations

In 2019, to expand service offering at filling stations, Rosneft continued developing its electric car charging infrastructure. As part of these efforts, 50 kW fast charging columns were installed in the Moscow Region and the Primorye Territory, making it possible to charge a car in less than one hour.



¹ Hydrotreated Vegetable Oil.



Quality Management System

As a leader in the motor fuel market, the Company pays special attention to the compliance of its products with all applicable standards and customer expectations. The Rosneft trademark is one of the most recognisable for petroleum products across the regions where the Company operates and is associated with quality fuel on sale at filling stations. [GRI 103-2](#)

Product Quality Control

We have built a system to manage fuel quality at all stages of production, transportation and sales. The system seeks to ensure consistently high fuel characteristics all the way through from refinery to car tank. [GRI 103-3](#)

Motor gasoline and diesel fuel sold domestically meet the K5 class requirements outlined in Technical Regulations of the Customs Union CU TR 013/2011.

Fuel parameters are verified using cutting-edge equipment at stationary site labs and oil depot labs and specified in the quality certificate available at Rosneft filling stations.

The final link in this chain is 15 mobile labs equipped with high-tech analysers to perform tests at filling stations. Mobile labs control fuel quality, among other things by measuring and benchmarking its impact on consumer health and safety against the standards set out in the Technical Regulations (sulphur content, benzene in gasoline, diesel flash point, etc.). Each lab checks over 700 filling stations annually.

Rosneft's products are also subject to quality verification by the Federal Agency for Technical Regulation and Metrology (Rosstandart). In 2019, the watchdog conducted 32 scheduled and ad-hoc checks at the Company's marketing and distribution subsidiaries and analysed fuel samples from four oil depots and 74 filling stations across Russia. The checks confirmed the top quality of our motor fuel. [GRI 416-2](#)

In 2019, the testing conducted by NGOs at filling stations in the Kurgan Region (Ural Federal District) validated the high quality of our products.

Fuel sold in Abkhazia, Belarus and Kyrgyzstan complies with the Technical Regulations of the Customs Union and undergoes quality checks at independent labs.

Cooperation with Rosstandart on Fuel Quality

The reporting year saw Rosstandart's Interdepartmental Working Group on Countering the Illegal Turnover of Petroleum Products take the following steps in cooperation with Rosneft:

- develop and approve a risk-oriented quality preservation system for petroleum products;
- run a pilot project in St Petersburg to create a national traceability solution to prevent fuel surrogates from entering the market.



Customer Focus

Improving Customer Experience

High quality service is the key driver of our retail business. Our customer-centric culture hinges on professional staff at oil depots and filling stations, an effective training system, and customer satisfaction monitoring.

In 2019, the Company held training sessions for filling station managers and administrative staff in effective management, customer-centric behaviour and constructive customer relations, with a total of 414 employees from nine marketing and distribution facilities having been trained.

In 2019, the Company kept running its Mystery Shopper programme to assess the service quality at filling stations, with a score for the year² standing at 91.13 % (excellent level).

The Company has set up 24/7 hotlines for loyalty programme participants. The reporting year saw 783,522 and 103,189 queries under the Family Team and BP Club programmes, respectively. The average speed of answer on the line does not exceed 30 seconds, and the average talk time is 2–3 minutes. [GRI 103-3](#) [GRI 416-2](#)

Loyalty programme hotlines:

Family Team:
+7 800 775 7588

for the Far East:
+7 800 555 3723

BP CLUB:
+7 800 234 7550

¹ Data for October–November 2019.



Pricing Policy

Rosneft pursues a balanced pricing policy and takes steps to stabilise the fuel market. Our retail prices are on par with the competition, and we take action to prevent a sharp rise in prices at our filling stations. By doing so, we smooth out necessitated price hikes and prevent repercussions from high volatility on the exchange market, thus helping consumers get fair prices.

Fuel Availability in Remote Regions

We operate one of the largest and most extensive retail networks spreading from Russia's western borders to the Kamchatka Territory. Our network brings Rosneft petroleum products to 66 regions, including remote and poorly accessible areas.

Irkutsknefteprodukt's Ust-Kut oil depot is a key element in the petroleum product shipment by river under the Northern Supply Haul programme. The depot supplies Rosneft products to the Republic of Sakha (Yakutia) and the north of the Irkutsk Region.

RN-Vostoknefteprodukt uses its tanker fleet to transport motor fuels to the Magadan Region, Kamchatka Territory and Sakhalin.

Fuel Supply to Socially Significant Consumers

The Company's subsidiaries ensure uninterrupted sales of motor fuel, both wholesale from oil depots and retail via a network of filling stations. They also take part in public tenders organised in line with federal laws. Rosneft is the sole motor fuel supplier for the majority of large government-owned companies, such as agricultural producers. **GRI 203-2**

Launch of Filling Stations in Remote Regions

Rosneft runs low-cost projects to open fuel outlets in remote areas with low traffic volumes and relatively weak demand for gasoline.

The reporting year saw the Company launch Filling Station No. 51 in Lesosibirsk as part of the Krasnoyarsk Territory Governor's initiative to increase the number of filling stations along local highways.

By expanding its retail network, Rosneft contributes to the regional development and meets local demand for affordable quality fuel.



Supplier and Contractor Relationship Management

Strengthening Partnerships

Rosneft is one of the biggest consumers of goods, works and services in all of its geographies. The Company's model of partnership with suppliers and contractors meets high international standards on procurement organisation and efficiency. **GRI 103-1**

THE COMPANY'S PRINCIPLES IN SELECTING CONTRACTORS¹



Openness



Reasonableness



Competitiveness



Effectiveness



Non-discrimination

2.6

RUB trln

spent by Rosneft and the Group Subsidiaries on procuring goods, works and services in 2019

The Company is advancing partnerships with its suppliers and contractors by signing long-term agreements that facilitate stable development of the oil and gas industry, the machine building industry and the maintenance services market, while also helping create jobs in all industries and drive innovation. In 2019, long-term contracts accounted for over 70 % of the Company's production programme.

To ensure procurement transparency, increased competition and equal access for market participants, the Company manages and conducts its procurement procedures electronically via TEK-Torg's electronic trading platform.

In 2019, the Company and the Group Subsidiaries initiated more than 102 thousand procurement procedures with a total initial (maximum) value of over RUB 2.1 trln.

Corporate Internet Shop

To enhance the transparency and efficiency of minor procurement¹, TEK-Torg's electronic trading platform launched a Corporate Internet Shop.

As a result, the Company managed to attract new counterparties (mostly small and medium-sized enterprises (SMEs)). More than 14 thousand suppliers are registered in the Corporate Internet Shop, including over 10 thousand SMEs. In 2019, the Company initiated more than 29 thousand procurement procedures.

In 2019, TEK-Torg was named the third best electronic trading platform in Russia in terms of corporate customer satisfaction with the quality of services². **GRI 103-3**

¹ Minor purchases are those worth below RUB 500,000.

² Analytical materials "Electronic Trading Platforms in Russia. Active Development", RAEX-Analytics, February 2020, Moscow.

³ These principles are set forth in Federal Law No. 223-FZ on Procurement of Goods, Works and Services by Certain Types of Legal Entities dated 18 July 2011 and laid down in the Regulations on Procurement of Goods, Works and Services binding on both the Company and the Group Subsidiaries.



The Company is consistently working towards implementing the category management in procurement, with 18 category/procurement strategies developed and approved in 2019¹.

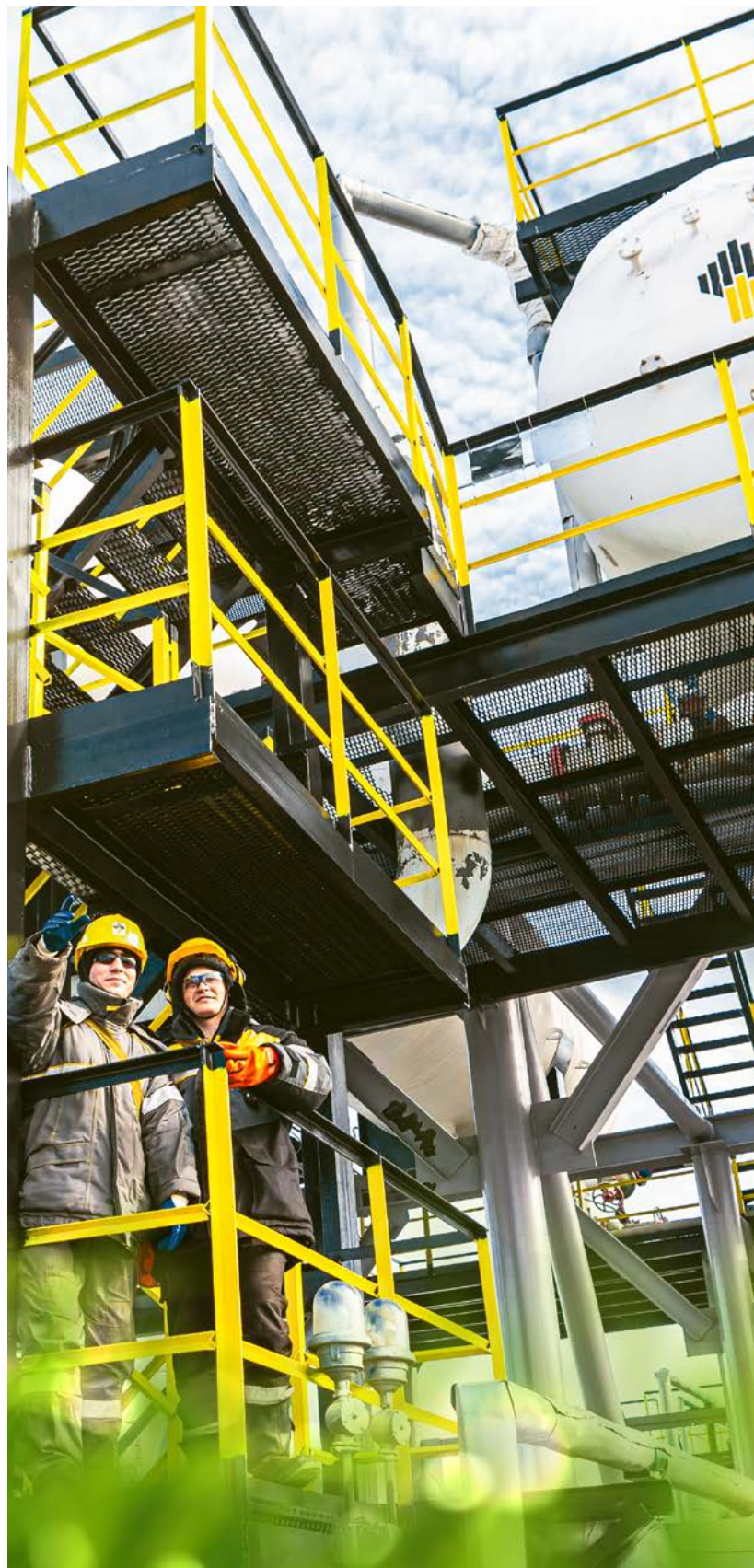
Category management makes it possible to move from single to consolidated purchases that are based on the specific characteristics of a given product category, standardise technical requirements, and use the advantages of the market environment and domestic demand forecasting, as well as establish and prioritise management approaches for categories of goods, works and services.

Category strategies are geared towards boosting procurement efficiency via the implementation of an optimal approach to purchasing materials and supplies, works, and services within given categories and the standardisation of the main parameters of procurement procedures along with reducing the time spent on preparation to carry them out. **GRI 103-2**

Category strategy is a local regulation determining the Company's unified approaches to managing a specific category of goods, works and services and setting out targets and objectives for the category and the most efficient procurement approaches.

Shared Service Centre

The Company is setting up a Shared Service Centre with a view to centralising and pipelining routine procurement operations and category management functions. In 2019, regional inventory management and quality control functions were transferred to the Shared Service Centre.



End-to-End System for Controlling Compliance

In order to pick reliable suppliers and contractors, the Company and Group Subsidiaries always employ a single end-to-end system for controlling compliance with corporate requirements. It consists of several elements.



Reliability testing (accreditation)

Before signing an agreement with the Company, candidates go through a test of their compliance with the minimum established requirements as regards the legal status, financial stability, reliability, and business reputation, which constitutes part of the measures to combat fraud and involvement in corruption activities.

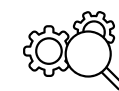
To establish long-standing relationships with suppliers, the Company's internal regulations provide for long-term (up to 18 months) accreditation



Qualification by product

Suppliers and contractors go through a test of compliance with special requirements confirming their ability to supply high-quality products of a certain kind (goods, works, services) in a timely manner, including requirements on specialised experience, resources, permits, as well as other requirements that are publicly available on the Company's website

on the TEK-Torg electronic platform. For the purposes of long-term qualification (for 18 months), standard criteria for centralised procurement of materials, supplies and equipment have been developed and approved



Technical audits

Technical audits examine suppliers' production and technical activities, technical capabilities, capacities, assess their ability to produce and supply the necessary amounts of products in accordance with the Company's technical requirements. The decision to hold this audit may be made as part of a procurement process or based on the Company's pre-approved schedule. All of the above requirements

are publicly available on the Company's website and on the TEK-Torg electronic platform so that potential suppliers and contractors could view them in advance. A total of 473 technical audits were completed in 2019.



Inspection control

The Company has developed and applies uniform requirements to inspection control of production and shipment of materials and supplies on the production sites of manufacturers/suppliers in order to evaluate their ability to follow through with their obligations

in terms of deadlines and quality of delivery. Technical inspections include control and assessment of whether technological processes of manufacture and shipment and the materials and supplies meet the requirements under the agreements with the Company

¹ The business plan for 2020 provides for 48 % of its needs to be covered by existing strategies.



Responsible Relationships with Suppliers and Contractors

CHECKING
OF PROCUREMENT/
QUALIFICATION SUBJECTS
FOR COMPLIANCE
WITH THE COMPANY'S HSE
REQUIREMENTS CAN BE
DONE IN TWO STAGES.

STAGE I (MANDATORY)

DESK AUDIT

- Review of documents/information submitted by the procurement/qualification subject as part of their application to confirm compliance with the HSE qualification requirements

STAGE II (OPTIONAL)

FIELD AUDIT

- Technical audit to verify the documents/information submitted by the procurement/qualification subject as part of their application to confirm compliance with the HSE qualification requirements

Contractor Compliance with the Company's Requirements on Health, Safety and Environment (HSE)

The Company strictly adheres to health and safety requirements. As part of the implementation of the comprehensive approach to uphold HSE requirements and in connection with the Company's Regulations on Procedure for Interaction with Contractors on Occupational and Fire Safety, Health and Environment Issues that came into effect in 2019 and introduced new HSE qualification criteria, standard criteria for HSE qualification by product, work, and service have been developed. The following requirements to contractors and suppliers are included in procurement procedures:

- a health and safety management system in place;
- well-educated personnel with duly certified knowledge on health and occupational, fire, and electrical safety;
- existence of the relevant services/divisions;
- provision of personal protective equipment to contracted personnel;
- compliance with laws in terms of mandatory pre-employment and regular medical check-ups for the employees of the supplier/contractor;
- availability of job-specific guidelines, briefing programmes;
- pre- and post-trip medical check-ups for contracted drivers.

To test contractors for compliance with health and safety requirements, the collective bodies responsible for procurement decisions, include HSE function representatives.

Rosneft treats its employees and the employees of the contractors that work at its facilities the same, applying universal HSE requirements to everybody.

All standard agreements on construction, installation and oil production works include provisions on the need to follow the Company's HSE rules. For oil production (drilling in particular), the agreement contains additional provisions on drilling waste management by contractors based on the applicable environmental and other laws.



For more information on contractor compliance with the HSE requirements, see the Health and Life Safety chapter of this Report.

Contractor Compliance with Human Rights Protection Requirements

In 2019, the Company approved a roadmap on implementing approaches to promoting human rights across the supply chain. The roadmap provides for the development of a Declaration on Respecting Human Rights to be used when interacting with suppliers and contractors, with phased awareness raising and educational round table discussions planned.



For more information on the Company's approaches to human rights protection, see the respective section of the Sustainable Development chapter of this Report.

Digital Transformation of Procurement

The Company is establishing a distribution centre for personal protective equipment on the premises of the regional procurement operator RN-Snabzhenie-Samara. Key project goals:

- Create advanced and hi-tech warehousing facilities using automated and robotised systems of processing and storing supplies;
- Transform key processes of supplying personal protective equipment to the Group Subsidiaries: requirements planning, supply logistics management (trials of new logistic models of delivery), inventory and quality management.

In 2019, pre-project study was completed and funds for the project were allocated. Commissioning is scheduled for 2023.

Automation of Procurement Processes

One of Rosneft's strategic priorities is procurement process automation. The Company is implementing the following automation projects:

- developing the information resource "SAP SRM 2-based automated system for supplier relationship management";
- vertically integrated procurement solution; robotisation of accounting and inventory management processes.

Support of SMEs in the Regions of Operation

To facilitate competition and development of SMEs, Rosneft seeks to partner with small and medium-sized businesses as part of its procurement activities.

The Company holds round-table discussions with suppliers and contractors on individual procurement items and provides information on:

- procedure and rules of engagement in procurement with the Company;
- minimum requirement to all procurement participants;
- benefits afforded to SMEs as part of procurement.

>76%

of potential suppliers accredited with Rosneft are represented by SMEs

In 2019, the total value of contracts made between Rosneft and SMEs amounted to RUB 16.3 bln, with RUB 4.1 bln worth of contracts awarded as a result of direct procurement from SMEs. To foster further development in this area, Rosneft and SME Corporation signed a cooperation agreement that in 2019 saw:

- 18 seminars held for contracted SMEs in Russia's regions;
- work on developing and improving Russia's regulatory framework in this field.

>122
RUB bln

of contracts signed by Rosneft and Group Subsidiaries with SMEs in 2019 GRI 204-1



#10

APPENDICES

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Translation of the original Russian version

Independent Assurance Report on the Sustainability Report 2019

To the Board of Directors and Stakeholders of Rosneft Oil Company

Subject matter

At the request of Rosneft Oil Company (the “Company”) we have completed an engagement to obtain a limited level of assurance on the qualitative and quantitative information disclosed in the Sustainability Report 2019 of Rosneft Oil Company (the “Report”), except for the following aspects:

- ▶ Forward-looking statements on performance, events or planned activities; and
- ▶ Correspondence between the Report and the Oil and Gas Industry Guidance on Voluntary Sustainability Reporting developed by the International Petroleum Industry Environmental Conservation Association and American Petroleum Institute, Task Force on Climate-related Financial Disclosures, and UN Global Compact principles.

Applicable criteria

The criteria for our engagement were the Global Reporting Initiative’s Sustainability Reporting Standards (the “GRI Standards”), the Company’s sustainability reporting principles and approaches to defining certain sustainability performance indicators as set out in section “About the Report” and the corresponding notes in the text of the Report. We believe that these criteria correspond to the objectives of our engagement.

Management's responsibilities

The management of the Company is responsible for the preparation of the Report and for ensuring that the information contained therein represents fairly, in all material respects, the Company’s sustainability policies, activities, events and performance for the year ended 31 December 2019 in compliance with the GRI Standards and the Company’s sustainability reporting principles and approaches to defining certain sustainability performance indicators as set out in section “About the Report” and the corresponding notes in the text of the Report. This responsibility includes designing, implementing and maintaining internal controls relevant to the preparation of a sustainability report that is free of material misstatements, selecting and applying appropriate reporting principles and using measurement methods and estimates that are reasonable in the circumstances.

Our responsibility

Our responsibility is to independently express conclusions that:

- ▶ The information in the Report is, in all material respects, a fair representation of sustainability policies, activities, events and performance of the Company for the year ended 31 December 2019;
- ▶ The Report is prepared ‘in accordance’ with the GRI Standards using the Core option.

We apply International Standard on Quality Control 1 and accordingly maintain a comprehensive system of quality control, including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

We have complied with the independence and other ethical requirements of the Code of Ethics for Professional Accountants issued by the International Ethics Standards Board for Accountants, which is founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behavior.

Summary of work performed

Our engagement was conducted in accordance with International Standard on Assurance Engagements (ISAE) 3000 (Revised), Assurance Engagements Other than Audits or Reviews of Historical Financial Information, issued by IFAC, and accordingly included the following procedures:

- ▶ Interviews with representatives of the Company’s management and specialists responsible for sustainability policies, activities, performance and relevant reporting;
- ▶ Analysis of key documents related to the Company’s sustainability policies, activities, performance and relevant reporting;
- ▶ Obtaining an understanding of the process used to prepare the information on sustainability performance indicators of the Company and other engagement circumstances by reviewing the reporting process used for the preparation of sustainability reports;
- ▶ Analysis of stakeholder engagement activities via reviewing minutes of stakeholder meetings conducted by the Company;

Translation of the original Russian version

- ▶ Benchmarking of the Report against sustainability reports of selected international and Russian peers of the Company and lists of sector-specific sustainability issues raised by stakeholders;
- ▶ Analysis of material sustainability issues identified by the Company;
- ▶ Identification of sustainability issues material to the Company based on the procedures described above and analyzing how they are reflected in the Report;
- ▶ Review of data samples on key performance indicators relating to human resources, energy use, environmental protection, industrial and occupational health and safety for the year ended 31 December 2019 to assess whether this data has been collected, prepared, collated and reported appropriately at the headquarters level;
- ▶ Visits to selected subsidiaries in order to (i) interview those responsible for human resources management, environmental protection, industrial and occupational health and safety, (ii) gather evidence supporting the assertions made by the Company on its sustainability policies, activities, events and performance, and (iii) observe the aspects of operations relating to industrial and occupational health and safety and environmental protection;
- ▶ Collection on a sample basis of evidence substantiating the qualitative and quantitative information included in the Report at the headquarters level;
- ▶ Assessment of compliance of the Report and its preparation process with the Company’s sustainability reporting principles; and
- ▶ Assessment of compliance of information and data disclosures in the Report with the requirements of the Core option of reporting ‘in accordance’ with the GRI Standards.

Our evidence gathering procedures are more limited than for a reasonable assurance engagement, and therefore less assurance is obtained than in a reasonable assurance engagement.

Conclusion

Based on the procedures performed and evidence obtained, nothing has come to our attention that causes us to believe that the information in the Report does not represent fairly, in all material respects, the sustainability policies, activities, events and performance of the Company for the year ended 31 December 2019 in accordance with the GRI Standards and the Company’s sustainability reporting principles and approaches to defining certain sustainability as set out in the Report.

Nothing has come to our attention that causes us to believe that the Report is not prepared ‘in accordance’ with the GRI Standards using the Core option.

D.E. Lobachev
Partner
Ernst & Young LLC

17 June 2020

Details of the subject of the independent assurance

Name: Rosneft Oil Company
Entered in the Unified State Register of Legal Entities on 12 August 2002 and assigned state registration number 1027700043502. Registered address and location: Russia, 115035 Moscow, Sofiyskaya emb., 26/1.

Details of the assurance provider

Name: Ernst & Young LLC
Entered in the Unified State Register of Legal Entities on 5 December 2002 and assigned state registration number 10277397072033.
Registered address and location: Russia, 115035 Moscow, Sadovnicheskaya emb., 77, bld. 1.
Ernst & Young LLC is a member of self-regulated organization of auditors Association «Sodruzhestvo» (“SRO AAS”). Ernst & Young LLC is included in the control copy of the register of auditors and audit organizations, main registration number 12006020327.



Appendix 1. Key Sustainability Indicators

Period	2017	2018	2019
Operating and economic indicators			
Proved SEC reserves of oil, gas condensate and hydrocarbon liquids, mmt	3,792	3,899	3,935
Proved SEC reserves of marketable gas, bcm	1,949	2,065	2,119
Production of hydrocarbon liquids, mmt	225.5	230.2	230.2
Natural gas production, bcm	68.4	67.3	67.0
Hydrocarbon production, mmboe	2,087	2,115	2,114
Refining, mmt	112.8	115.0	110.2
Petroleum product and petrochemicals output, mmt	109.1	111.7	107.5
Assets as at year-end, RUB bln	12,228	13,163	12,950
Revenues and equity share in profits of associates and joint ventures ¹ , RUB bln	6,011	8,238	8,676
Equity, RUB bln	4,183	4,677	5,152
Dividends ¹ , RUB bln	104	225	283
Direct economic value generated and distributed², RUB bln			
Direct economic value generated			
Income	5,951	7,968	8,670
Direct economic value distributed			
Opex	1,967	2,270	2,917
Payments to providers of funds	346	521	585
Personnel expenses, excluding compulsory insurance premiums	269	296	327
Insurance premiums	61	67	75
Accrued taxes and duties	2,614	3,879	3,576
Community investments	22	26	22
Economic value retained	672	909	1,168
Health, safety and environment performance indicators			
Number of lost-time work-related injuries (including fatalities) of the Company's employees to 1 mln man-hours (LTIF)	–	0.34 ³	0.36 ³
The ratio of the total number of the Company's work-related fatalities to one hundred (100) mln man-hours worked (FAR)	1.87	2.47 ³	1.04 ³
HSE training, thousand man-courses	413.0	414.3	477.3
Expenditure on health and safety, including fire safety and blowout prevention, RUB bln	56	56	55
Rate of pipeline failures (unit/kilometre per year)	0.101	0.095	0.101
Total volume of spilled oil and oil products across the Company, t	730	663	652
Spilled oil and gas condensate volume as a result of pipeline failures, tonnes	684.3	647.2	642.9

¹ Dividends paid to Rosneft's shareholders in the calendar year.² Data for 2017–2019 reflects more accurate calculation of payments to providers of funds, personnel expenses, and community investments under GRI 201-1.

Period	2017	2018	2019
Air pollutant emissions			
Gross air pollutant emissions, including:	1,846	1,835	1,773
oil and gas production	1,530	1,524	1,465
oil refining, gas processing and petrochemicals	254	250	248
gas business	31	30	28
marketing and distribution	20	22	23
service Group Subsidiaries	11	9	9
Air pollutant emissions from extraction activities, t/ktce	4.05	3.96	3.83
Air pollutant emissions from refining and petrochemical activities, t/ktce	1.90	1.77	1.83
GHG emissions			
Total emissions (Scope 1+2), mmt CO ₂ eq.	75.2	76.9	81.2
Direct emissions (Scope 1), mmt CO ₂ eq.	53.9	54.7	59.4
Indirect emissions (Scope 2), mmt CO ₂ eq.	21.3	22.2	21.8
Indirect emissions (Scope 3) from the use of the Company's products, mmt CO ₂ eq.	207.2	244.3	243.0
Direct GHG emissions, kt			
Carbon dioxide (CO ₂)	46,364	50,629 ⁴	56,035
Methane (CH ₄)	303	164	134
GHG emissions, t CO ₂ eq. / ktce			
Oil and gas production (including oilfield services)	0.123	0.129	0.140
Oil refining, gas processing and petrochemicals	0.131	0.119*	0.120
GHG emissions, t CO ₂ eq. / kboe			
Oil and gas production (including oilfield services)	24.0	25.1	27.3
Oil refining, gas processing and petrochemicals	25.5	23.2*	23.4
GHG emissions, t CO ₂ eq. / ktce			
Company-wide	24.5	24.4*	26.1
APG utilisation rate ⁵ , %	89.2	84.4 ⁶	77.8 ⁷
Water consumption and water discharge			
Water consumption (water intake from surface and underground sources) for extraction activities, cub m / tce	0.43	0.46	0.49
Water consumption (water intake from surface and underground sources) for refining and petrochemical activities, cub m / tce	1.47	1.43	1.50

³ The figures for 2018–2019 are presented in accordance with the IFRS accounts and the new calculation methodology, which does not include injuries as a result of participation in sports events, unlawful activities of third parties and road accidents caused by third parties in the total injury rate.

The indicators for 2017 cover a wider range of subsidiaries. The injury rate includes injuries as a result of participation in sports events, unlawful activities of third parties and road accidents caused by third parties.

LTIF for 2018 and 2019 calculated in accordance with the methodology used by the Company until 2018 would be 0.41 and 0.38, respectively, with a FAR of 3.00 and 1.04 respectively.

⁴ The 2018 metric was adjusted following the update on fuel consumption by certain Group Subsidiaries.⁵ The information and plans on APG utilisation relate to the Company's Russian assets.⁶ The changes in the APG utilisation rate are driven by higher oil and APG production at greenfields and production cuts at brownfields as part of the Company's commitment under the OPEC+ agreement.⁷ Including fields under development and greenfield projects at early stages of development.



Period	2017	2018	2019
Polluted water intake for treatment and use/discharge, mcm			
Wastewater	132.9	170.4	117.0
Produced water	1,587.8	1,588.1	1,658.2
Bottom water	1.0	0.5	2.9
Gross industrial wastewater discharges to surface waters, mcm	133.2	127.9	122.7
Wastewater discharges into third-party networks for reuse, thousand cub m	290.39	8,938.86	10,380.24
Wastewater discharges from extraction activities, cub m / tce	0.0006	0.0005	0.0003
Wastewater discharges from refining and petrochemical activities, cub m / tce	0.99	0.90	0.90
Polluted wastewater discharges from extraction activities, cub m / tce	0.000400	0.000100	0.000004
Polluted wastewater discharges from refining and petrochemical activities, cub m / tce	0.62	0.55	0.55
Environmental protection expenditures			
Environmental protection investments, including as part of production programmes with an environmental impact, RUB bln	67	46	35
Current environmental protection opex ¹ , RUB bln	29	32	29
Environmental fines payable, RUB bln	0.26	0.29	0.20
Payments to budgets of all levels related to environmental protection and sustainable use of natural resources, RUB bln	4.2	4.7	4.3
Emergency prevention and response performance indicators			
Financial and non-financial reserves for emergency prevention and response, RUB bln	1.9	2.0	2.0
Innovation performance indicators			
R&D expenses, RUB bln	29.90	32.10	30.05
HR indicators			
Headcount at year-end, thousand employees	318.0	325.6	334.6
Average headcount, thousand employees	302.1	308.0	315.4
Workforce by category at year-end, %			
Blue-collar workers	57.8	56.2	54.7
White-collar workers	30.0	31.5	33.1
Managers	12.2	12.2	12.2
Workforce by gender at year-end, %			
Women	33.5	32.2	32.7
Men	66.5	67.8	67.3
Employee turnover, %	10.3	10.8	10.2
Company average monthly salary per person, RUB	79,221	84,030	88,609
Payroll, including benefits and one-off bonuses as part of the payroll and annual remuneration, RUB bln	287	311	335
Social payments fund, RUB bln	7.7	8.6	9.3

¹ Data for 2017 were adjusted following updated information, including that on Novokuibyshevsk Petrochemical Company.

Period	2017	2018	2019
Social performance indicators			
Tax payments and customs duties ² , RUB bln, including:	2,575	3,971	3,528
federal tax payments and customs duties	2,180	3,503	3,042
regional tax payments	325	393	404
payments to non-budgetary funds	70	76	82
Expenditures on social programmes, social investments in the regions and charity, RUB bln, including:	37	46	45
optimisation of working conditions, RUB bln	8.5	8.2	9.4
social investments under cooperation agreements with regional authorities, RUB bln	6.7	9.5	7.1
charity, including charitable aid to educational institutions in furtherance of the government's education and science policy ³	2.7	3.2	2.4
other social investments	20	25	26
Anti-corruption performance indicators			
Calls received by the Security Hotline	20,486	27,081	35,106
Damage identified/prevented following the review of Security Hotline calls, RUB mln	103.7	34.5	40.5
Criminal cases opened, including following Security Hotline calls	735	751	739

² Taxes, customs duties and insurance contributions transferred to the budget of the Russian Federation.

³ For charity expenses related to the support of education institutions and Veterans Council, see the Personnel and Social Programme section of our annual reports for 2017, 2018 and 2019.



Salary ratios for certain Group Subsidiaries across Rosneft's footprint in 2019, RUB per month

Region	Group Subsidiary	Average salary at the Group Subsidiary, RUB	Average salary in the region, RUB (as per Rosstat's data for November 2019)	Average salary at the Group Subsidiary to average salary in the region, %
Primorye Territory	JSC Eastern Petrochemical Company	131,931.07	45,372.20	291%
	LLC RN-Morskoi Terminal Nakhodka	64,380.64	45,372.20	142%
Khabarovsk Territory	LLC RN-Komsomolsk Refinery	82,979.24	48,887.00	170%
Sakhalin Region	RN-Sakhalinmorneftegaz LLC	106,669.98	84,665.60	126%
Republic of Sakha (Yakutia)	LLC Taas-Yuryakh Neftegazodobycha	139,745.98	71,668.00	195%
Republic of Bashkortostan	LLC Bashneft-Dobycha	70,762.34	36,266.70	195%
	PJSC Ufaorgsintez	81,158.41	36,266.70	224%
	Ufa Refinery (branches of PJSC Bashneft)	79,618.83	36,266.70	220%
	LLC Bashneft-Roznitsa	41,093.68	36,266.70	113%
Udmurt Republic	JSC Udmurtneft	69,078.15	34,140.80	202%
Orenburg Region	JSC Orenburgneft	66,427.72	32,068.60	207%
Samara Region	JSC Samaraneftegaz	62,669.38	35,895.80	175%
	JSC Kuibyshev Refinery	66,521.01	35,895.80	185%
	Novokuibyshevsk Refinery	65,671.21	35,895.80	183%
	Syzran Refinery	67,724.75	35,895.80	189%
	JSC Novokuibyshevsk Petrochemical Company	49,500.85	35,895.80	138%
	LLC Novokuibyshevsk Oils and Additives Plant	58,482.54	35,895.80	163%
	JSC Samaranefteprodukt	33,634.74	35,895.80	94%
Saratov Region	PJSC Saratov Refinery	72,175.04	30,212.90	239%
	PJSC Saratovnefteprodukt	30,617.16	30,212.90	101%
Arkhangelsk Region	LLC RN-Arkhangelsknefteprodukt	47,217.64	48,100.60	98%
Republic of Komi	LLC RN-Severnaya Neft	120,238.24	50,416.80	238%
Nenets Autonomous Area	LLC Bashneft-Polyus	150,618.00	80,562.30	187%
Republic of Karelia	JSC Karelianefteprodukt	37,581.70	42,187.50	89%
Murmansk Region	PJSC Rosneft-Murmansknefteprodukt	44,821.29	62,516.60	72%
St Petersburg	LLC RN-Severo-Zapad	54,232.28	61,141.20	89%
Republic of Ingushetia	OJSC RN-Ingushneft	30,318.07	27,213.60	111%
	LLC RN-Ingushnefteprodukt	28,970.11	27,213.60	106%

Region	Group Subsidiary	Average salary at the Group Subsidiary, RUB	Average salary in the region, RUB (as per Rosstat's data for November 2019)	Average salary at the Group Subsidiary to average salary in the region, %
Chechen Republic	OJSC Grozneftegaz	35,458.51	29,297.30	121%
	LLC RN-Chechennefteprodukt	21,409.02	29,297.30	73%
Republic of Khakassia	JSC Khakasnefteprodukt VNK	34,372.92	40,073.70	86%
Krasnoyarsk Territory	LLC RN-Vankor	141,542.90	48,445.20	292%
	JSC Vostsibneftegaz	138,399.20	48,445.20	286%
	JSC Achinsk Refinery VNK	81,775.25	48,445.20	169%
	LLC RN-Krasnoyarsknefteprodukt	68,340.56	48,445.20	141%
Irkutsk Region	JSC Angarsk Petrochemical Company	72,720.87	45,891.60	158%
	JSC Angarsk Polymer Plant	70,355.61	45,891.60	153%
	JSC Irkutsknefteprodukt	45,690.79	45,891.60	100%
	JSC Verkhnechonskneftegaz	121,786.89	45,891.60	265%
	JSC Tomskneft VNK	99,212.12	42,353.90	234%
Tomsk Region	JSC Tomsknefteprodukt VNK	50,681.73	42,353.90	120%
	JSC Tyumenneftegaz	134,483.25	44,906.00	299%
Tyumen Region	LLC RN-Uvatneftegaz	139,256.21	44,906.00	310%
	LLC RN-Yuganskneftegaz	110,662.02	65,039.60	170%
Khanty-Mansi Autonomous Area – Yugra	PJSC Varyeganneftegaz	113,962.48	65,039.60	175%
	JSC RN-Nyaganneftegaz	181,701.65	65,039.60	183%
	JSC Samotlorneftegaz	110,360.15	65,039.60	170%
	LLC Krasnoleninsky Refinery	97,617.79	65,039.60	150%
	LLC Nizhnevartovsk Oil Refining Association	105,605.39	65,039.60	162%
	LLC RN-Purneftegaz	118,411.20	89,778.20	132%
Yamal-Nenets Autonomous Area	JSC Rospan International	202,648.00	89,778.20	226%
	JSC Sibneftegaz	202,305.58	89,778.20	226%
Yaroslavl Region	JSC RN-Yaroslavl	33,730.25	34,933.80	97%
Ryazan Region	JSC Ryazan Oil Refining Company	73,639.47	33,192.20	222%
	JSC Ryazannefteprodukt	37,136.71	33,192.20	112%
Moscow Region	CJSC TZK Sheremetyevo	97,808.09	54,006.20	181%
Rostov Region	JSC RN-Rostovnefteprodukt	32,169.12	33,716.00	95%
Krasnodar Territory	LLC RN-Krasnodarneftegaz	54,809.49	35,334.40	155%
	LLC RN-Tuapse Refinery	70,209.49	35,334.40	199%
	LLC RN-Morskoi Terminal Tuapse	50,433.34	35,334.40	143%
	PJSC Rosneft-Kubannefteprodukt	35,683.10	35,334.40	101%



Appendix 2. Report's Compliance with International Standards

No.	Name	Report section / references to other public documents	Omission	Page in the Report	External assurance
General disclosures					
General					
GRI 102-1	Name of the organisation	Contact Details		p. 238	✓
GRI 102-2	Activities, brands, products, and services	2019 Annual Report, Operating Results section, p. 36-113			✓
	Key products: oil, gas, and refining products				
GRI 102-3	Location of headquarters	The Company's Head Office is located in Moscow			✓
GRI 102-4	Location of operations	2019 Annual Report, Assets and Regions of Operation section, p. 8-9; Company Structure section, p. 14-15			✓
GRI 102-5	Ownership and legal form	2019 Annual Report, Share Capital section, p. 248			✓
GRI 102-6	Markets served	2019 Annual Report, Assets and Regions of Operation section, p. 8-9; Company Structure section, p. 14-15; Appendix 6: Financial Statements and Auditor's Report, note 26 Segment Information, p. 366			✓
GRI 102-7	Scale of the organisation	Management Framework and Personnel Profile Key Sustainability Indicators;		p. 142-145 p. 204-209	✓
GRI 102-8	Information on employees and other workers	Management Framework and Personnel Profile Key Sustainability Indicators;		p. 142-145 p. 204-209	✓
	Headcount as at the end of 2019, including: Permanent employment contract: women – 104,252, men – 206,281 Temporary employment contract: women – 15,310, men – 8,741 Full-time employment: women – 112,299, men – 221,125 Part-time employment: women – 466, men – 694				
GRI 102-9	Supply chain	2019 Annual Report, Business Model section, p. 12-13			✓
GRI 102-10	Significant changes to the organisation and its supply chain	2019 Annual Report, Company Structure section, p. 14-15			✓
GRI 102-11 UNGC Principle 7 IPIECA-EN5, HS4	Precautionary Principle or approach	The Company believes it important to carry out environmental impact assessments (EIAs) to use the outcomes as a basis to develop activities aimed at minimising the Company's environmental footprint. In conducting EIAs, the Company follows the precautionary approach laid out in The Rio Declaration on Environment and Development (Principle 15. The Rio Declaration on Environment and Development, UN, 1992)			✓

No.	Name	Report section / references to other public documents	Omission	Page in the Report	External assurance
GRI 102-12	Externally developed economic, environmental and social charters, principles, or other initiatives to which the organisation subscribes or which it endorses				✓
	In 2009, the Company joined the UN Global Compact and the Social Charter of the Russian Business. Since 2013, the Company has been supporting the Anti-Corruption Charter of the Russian Business. In 2018, Rosneft's Board of Directors approved the Company's strategic principles and public statement "Rosneft: contributing to implementation of the UN Sustainable Development Goals". The Company also shares and endorses the principles of the Universal Declaration of Human Rights, Declaration on Fundamental Principles and Rights at Work of the International Labour Organisation, and The Rio Declaration on Environment and Development. In 2019, Rosneft joined an international industry initiative by signing Guiding Principles on Reducing Methane Emissions across the Natural Gas Value Chain, confirming its commitment to partnerships in carbon management				
GRI 102-13	Membership of associations and/or national or international advocacy organisations	Stakeholder Engagement		p. 32-35	✓
	The Company is a member of the Russian-German Foreign Trade Chamber, Chamber of Commerce and Industry of the Russian Federation, Russian National Committee for Pacific Economic Cooperation, Petrochemical and Refiners Association, Russian Gas Society – association of oil and gas businesses, National Association for Subsoil Examination, Non-Profit Russian Corporate Counsel Association, and National Association of Technology Transfer (NATT)				
GRI 102-14	Statement from senior decision-maker	Message from the Chairman of Rosneft's Board of Directors Message from Rosneft's Chief Executive Officer		p. 4-5, p. 6-7	✓
GRI 102-15 IPIECA-HS4	Key impacts, risks, and opportunities	Message from the Chairman of Rosneft's Board of Directors Message from Rosneft's Chief Executive Officer Sustainability Management Stakeholder Engagement Approaches to Promoting Human Rights Compliance Framework Development Climate-related Risks and Opportunities Health and Safety Management Emergency Prevention and Response Management Framework and Personnel Profile Supporting Social and Economic Development		p. 4-5 p. 6-7 p. 25-31 p. 32-35 p. 37-39 p. 40-47 p. 55 p. 90-93 p. 110 p. 142-145 p. 168-180	✓
GRI 102-16 UNGC Principle 10	Values, principles, standards, and norms of behaviour	Strategic Vision of Sustainable Development Compliance Framework Development		p. 20-24 p. 40-47	✓
	Additional information is available on the Company's website at https://www.rosneft.com/Investors/Documents/ The Company's Policy on Sustainable Development: https://www.rosneft.com/upload/site2/document_file/development_policy_eng.pdf Code of Business and Corporate Ethics: https://www.rosneft.com/upload/site2/document_file/P3-0106_P-01eng.pdf				
GRI 102-17 UNGC Principle 10	Mechanisms for advice and concerns about ethics	Compliance Framework Development		p. 40-47	✓



No.	Name	Report section / references to other public documents	Omission	Page in the Report	External assurance
GRI 102-18 IPECA-HS4	Governance structure	Sustainability Management 2019 Annual Report, Corporate Governance section, p. 196–247		p. 25–31	✓
GRI 102-20	Executive-level responsibility for economic, environmental, and social topics	Sustainability Management		p. 25–31	✓
GRI 102-22	Composition of the highest governance body and its committees	Sustainability Management 2019 Annual Report, Corporate Governance section, p. 196–247		p. 25–31	✓
GRI 102-29	Identifying and managing economic, environmental, and social impacts	Sustainability Management		p. 25–31	✓
GRI 102-40	List of stakeholder groups	About the Report Stakeholder Engagement		p. 12–15 p. 32–35	✓
GRI 102-41 UNGC Principle 3 IPECA-SE15	Percentage of total employees covered by collective bargaining agreements	Social Policy		p. 156–165	✓
	74 % of the headcount are covered by collective bargaining agreements				
GRI 102-42	Identifying and selecting stakeholders				✓
	Rosneft interacts with all stakeholder groups that have an impact on, and are impacted by, the Company's operations				
GRI 102-43	Approach to stakeholder engagement	Stakeholder Engagement		p. 32–35	✓
GRI 102-44	Key topics and concerns raised, and how the organisation has responded to those key topics and concerns, including through its reporting	About the Report Stakeholder Engagement		p. 12–15 p. 32–35	✓
GRI 102-45	Entities included in the consolidated financial statements	About the Report 2019 Annual Report, Company Structure section, p. 14–15		p. 12–15	✓
GRI 102-46	Defining report content and topic Boundaries	About the Report		p. 12–15	✓
GRI 102-47	List of material topics	About the Report		p. 12–15	✓
GRI 102-48	Any restatements of information given in previous reports, and the reasons for such restatements	About the Report Key Sustainability Indicators		p. 12–15 p. 204–209	✓
	The key reasons for restatements of information in the Report are the development and improvement of the corporate reporting framework, fine-tuning of the indicators' boundaries and retrospective information				
GRI 102-49	Significant changes from previous reporting periods in the list of material topics and topic Boundaries	About the Report		p. 12–15	✓
GRI 102-50	Reporting period	About the Report		p. 12–15	✓
GRI 102-51	Date of the most recent report				✓
	Rosneft's 2018 Sustainability Report was published in June 2019				

No.	Name	Report section / references to other public documents	Omission	Page in the Report	External assurance
GRI 102-52	Reporting cycle	About the Report		p. 12–15	✓
GRI 102-53	Contact point for questions regarding the report	Contact Details		p. 238	✓
GRI 102-54	Claims of reporting in accordance with the GRI Standards	About the Report		p. 12–15	✓
GRI 102-55	GRI content index	This appendix			✓
GRI 102-56	External assurance	About the Report Independent Assurance Report on Rosneft's 2019 Sustainability Report This appendix		p. 12–15 p. 200–203	✓

Material topics

1. Economic performance

GRI 201 Economic Performance 2016

GRI 103 Management approach 2016

GRI 103-1	Explanation of the material topic and its Boundary	2019 Annual Report, Strategy section, p. 18–29			✓
GRI 103-2	The management approach and its components	2019 Annual Report, Mission and Values section, p. 10–11; Strategy section, p. 18–29			✓
GRI 103-3	Evaluation of the management approach	2019 Annual Report, Strategy section, p. 24–26			✓
GRI 201-1 IPECA-SE4, SE13	Direct economic value generated and distributed	Key Sustainability Indicators		p. 16–17	✓
GRI 201-3	Defined retirement plans and other benefit plans	Management Framework and Personnel Profile Social Policy		p. 142–145 p. 156–165	✓
GRI 201-4	Financial assistance received from government				✓
	The Company and Group Subsidiaries make use of tax benefits provided for by federal tax laws. In a number of regions of operation, the Company and Group Subsidiaries use income tax benefits and corporate property tax benefits under regional laws				

2. Indirect economic impact

GRI 203 Indirect Economic Impacts 2016

GRI 103 Management approach 2016

GRI 103-1	Explanation of the material topic and its Boundary	Supporting Social and Economic Development		p. 168–180	✓
GRI 103-2	The management approach and its components	Supporting Social and Economic Development		p. 168–180	✓
GRI 103-3	Evaluation of the management approach	Supporting Social and Economic Development		p. 168–180	✓
GRI 203-1 IPECA-SE7	Infrastructure investments and services supported	Supporting Social and Economic Development		p. 168–180	✓
GRI 203-2 IPECA-SE6	Significant indirect economic impacts, including scope of impact	Message from the Chairman of Rosneft's Board of Directors Message from Rosneft's Chief Executive Officer Customer Engagement		p. 4–5 p. 6–7 p. 186–192	✓



No.	Name	Report section / references to other public documents	Omission	Page in the Report	External assurance
GRI 415 Public Policy 2016					
GRI 103 Management approach 2016					
GRI 415-1 UNGC Principle 10 IPIECA-SE11, SE14	Total monetary value of political contributions by country and recipient/ beneficiary The Company does not provide financing for any political causes				✓
3. Procurement practices (including local suppliers)					
GRI 204 Procurement Practices 2016					
GRI 103 Management approach 2016					
GRI 103-1	Explanation of the material topic and its Boundary	Supplier and Contractor Relationship Management		p. 193-197	✓
GRI 103-2	The management approach and its components	Supplier and Contractor Relationship Management		p. 193-197	✓
GRI 103-3	Evaluation of the management approach	Supplier and Contractor Relationship Management		p. 193-197	✓
GRI 204-1 IPIECA-SE5	Proportion of spending on local suppliers in significant locations of operation With Russia as the key region of operation, Rosneft places special emphasis on supporting local suppliers. In its procurement activities, the Company prioritises goods, works and services made, provided and rendered by Russian entities, including by way of direct procurement from SMEs in line with applicable laws. The Company's procurement is based on principles of information openness, no unwarranted restrictions on bidders, and targeted and cost-efficient expenditures as set forth by Federal Law No. 223-FZ on Procurement of Goods, Works and Services by Certain Types of Legal Entities dated 18 July 2011. Suppliers (contractors) are selected as part of procurement (including bidding) procedures provided for by the above law, in order to meet the Company's demand for products, works and services	Supplier and Contractor Relationship Management		p. 193-197	✓
4. Combating corruption and non-competitive practices					
GRI 205 Anti-corruption 2016					
GRI 103 Management approach 2016					
GRI 103-1	Explanation of the material topic and its Boundary	Compliance Framework Development		p. 40-47	✓
GRI 103-2	The management approach and its components	Compliance Framework Development		p. 40-47	✓
GRI 103-3	Evaluation of the management approach	Compliance Framework Development		p. 40-47	✓
GRI 205-1 UNGC Principle 10 IPIECA-SE11, SE12	Total number and percentage of operations assessed for risks related to corruption, and significant risks identified In 2019, risks related to corruption were assessed on a quarterly basis at the level of the Company, businesses, and business functions (covering 100 % of all units). This risk is cross-functional and affects all business processes, requiring business process owners to develop control procedures aimed at preventing it. Anti-corruption is one of the components of the Code of Business and Corporate Ethics in place at Rosneft. The Company also has the Policy on Combating Corporate Fraud and Involvement in Corruption Activities approved by resolution of Rosneft's Board of Directors dated 21 May 2015, Minutes No. 19 dated 21 May 2015, and the Regulations on Coordinating Anti-Fraud and Anti-Corruption Processes providing for the algorithm and methodology to assess the risk. To implement the above documents, the Company ran programmes in 2019 as part of the Comprehensive Anti-Fraud and Anti-Corruption Programme				✓

No.	Name	Report section / references to other public documents	Omission	Page in the Report	External assurance
GRI 205-2 UNGC Principle 10 IPIECA-SE11	Communication and training about anti-corruption policies and procedures	Compliance Framework Development		p. 40-47	✓
GRI 205-3 UNGC Principle 10 IPIECA-SE11, SE14	Confirmed incidents of corruption and actions taken No confirmed cases of corruption were identified in 2019. Corruption prevention is the responsibility of the Company's Security Service and Internal Audit Service				✓
GRI 206 Anti-competitive Behaviour 2016					
GRI 206-1	Number of legal actions against the Company regarding anti-competitive behaviour and violations of anti-trust and monopoly legislation during the reporting period 2019 saw no court disputes related to the Company's alleged violations on monopoly laws that would result in court orders taking effect				✓
5. Energy					
GRI 302 Energy 2016					
GRI 103 Management approach 2016					
GRI 103-1	Explanation of the material topic and its Boundary	Energy Saving and Energy Efficiency		p. 123-124	✓
GRI 103-2	The management approach and its components	Energy Saving and Energy Efficiency		p. 123-124	✓
GRI 103-3	Evaluation of the management approach	Energy Saving and Energy Efficiency		p. 123-124	✓
GRI 302-1 UNGC Principles 7, 8 IPIECA-E2	Energy consumption within the organisation The Group Subsidiaries use various types of fuel, above all natural and associated petroleum gas, as well as fuel oil, diesel fuel, and oil	Energy Saving and Energy Efficiency		p. 123-124	✓
GRI 302-4 UNGC Principles 8, 9 IPIECA-E2	Reduction of energy consumption As a result of activities implemented under the Energy Saving Programme, the Company saved a total of 25.7 mln GJ of fuel and energy resources (heat, electricity, and fuel) in 2019	Energy Saving and Energy Efficiency		p. 123-124	✓
GRI OG3 IPIECA-E3	Total amount of renewable energy generated by source Currently, the volume of generated renewable energy accounts for an insignificant part of total energy volume	Partially disclosed. Information is unavailable due to insignificant volumes of renewable energy generation. Rosneft plans to start accounting for this type of energy after the Company's reliance on it grows			✓



No.	Name	Report section / references to other public documents	Omission	Page in the Report	External assurance
6. Water					
GRI 303 Water 2016					
GRI 103 Management approach 2016					
GRI 103-1	Explanation of the material topic and its Boundary	Conserving Water Resources		p. 71-75	✓
GRI 103-2	The management approach and its components	Conserving Water Resources		p. 71-75	✓
GRI 103-3	Evaluation of the management approach	Conserving Water Resources		p. 71-75	✓
GRI 303-1 UNGC Principles 7, 8 IPEICA-E6	Total volume of water withdrawal by source	Conserving Water Resources Key Sustainability Indicators;		p. 71-75 p. 204-209	✓
	According to the data collection methodology, the Company discloses data on total volume of water withdrawn, including rainwater, waste water, and recycled water				
GRI 303-3 UNGC Principle 8 IPEICA-E6	Percentage and total volume of water recycled and reused	Key Sustainability Indicators Conserving Water Resources		p. 16-17 p. 71-75	✓
	In 2019, the percentage of water recycled and reused stood at around 94 % (2,496 mmcm)				
7. Biodiversity					
GRI 304 Biodiversity 2016					
GRI 103 Management approach 2016					
GRI 103-1	Explanation of the material topic and its Boundary	Biodiversity Conservation		p. 71-75	✓
GRI 103-2	The management approach and its components	Biodiversity Conservation		p. 80-84	✓
GRI 103-3	Evaluation of the management approach	Biodiversity Conservation		p. 80-84	✓
GRI 304-1 UNGC Principle 8 IPEICA-E5	Operational sites owned, leased, managed in, or adjacent to, protected areas and areas of high biodiversity value outside protected areas				✓
	The Company engages in exploration in environmentally vulnerable and protected areas, including those in the Yamal-Nenets Autonomous Area, Krasnoyarsk Territory, Arkhangelsk Region, and Republic of Sakha, on the shelf of the Sea of Okhotsk, Barents, Pechora, and Kara seas, and produces, treats and transports oil near the Verkhnee Dvuobye wetlands, Yugansky Nature Reserve in the Khanty-Mansi Autonomous Area – Yugra, various protected areas in the Samara Region, including I.I. Sprygin Zhiguli State Nature Biosphere Reserve, More-Yu wildlife sanctuary, and Pym-Va-Shor nature monument in the Nenets Autonomous Area. The Company also operates in nature reserves and wetlands of the Krasnoyarsk Territory. In addition, the Company engages in activities related to oil and gas production, treatment and transportation in areas traditionally used by indigenous peoples of the North, and carries out retail sales of petroleum products near protected areas, including the Utrish State Nature Reserve, Losiny Ostrov National Park, Samarskaya Luka National Park, Tunkinsky and Pribaikalsky national parks, Baikal Nature Reserve, Teberda Nature Reserve, Kumysnaya Polyana park, and Vysokovsky Bor nature monument. The Company also operates in or near environmentally vulnerable and protected areas in strict compliance with applicable laws on environment protection. In 2019, the Company had 214 facilities that involved a significant impact on biodiversity. The percentage of existing significant facilities for which biodiversity risk was assessed totalled 8.4 % in 2019 (18 facilities)				

No.	Name	Report section / references to other public documents	Omission	Page in the Report	External assurance
GRI 304-2 UNGC Principle 8 IPECA-E5, HS4	Nature of significant impacts of operations, products, and services on biodiversity in formally protected areas and formally designated areas of special importance or sensitivity		Partially disclosed. The scale of the Company's operations makes it impossible to identify all of the species affected and extent of areas impacted.		✓
	Rosneft's key impacts on biodiversity are related to exploration, production, treatment, transportation and retail sales of petroleum products and in most cases have a duration of the term of lease or operation of respective production facilities. The Company has no irreversible impact on biodiversity. The most common impacts are area pollution and construction and use of production capacities				
GRI 304-3 UNGC Principle 8 IPECA-E5	Habitats protected or restored	Land Remediation and Waste Management	Partially disclosed. The scale of the Company's operations makes it impossible to identify all of the species affected and extent of areas impacted.	p. 77-80	✓
The final phase of land remediation is an assessment of work done by an independent contractor. Remediation is confirmed by acceptance certificates handed over to local authorities					
GRI 304-4 UNGC Principle 8 IPECA-E5	Total number of IUCN Red List species and national conservation list species with habitats in areas affected by the operations of the organisation, by level of extinction risk				✓
Species with habitats in areas affected by the Company's operations include grey whale, sperm whale, reindeer, grey heron, golden eagle, Eurasian otter, European pond turtle, sturgeon, etc. The Company analyses its impact on the above species and aims to minimise it					
GRI OG4 UNGC Principle 8 IPECA-E5, HS4	Number and percentage of significant operating sites in which biodiversity risk has been assessed and monitored				✓
	The percentage of existing significant facilities for which biodiversity risk was assessed totalled 8 % in 2019 (18 facilities)				



No.	Name	Report section / references to other public documents	Omission	Page in the Report	External assurance
8. GHG emissions					
9. NO_x, SO_x, and other air emissions					
GRI 305 Emissions 2016					
GRI 103 Management approach 2016					
GRI 103-1	Explanation of the material topic and its Boundary	Carbon Management Goals and Approaches Reducing Air Emissions		p. 50-51 p. 69-70	✓
GRI 103-2	The management approach and its components	Achievement of Climate Goals in 2019 Reducing Air Emissions		p. 56-58 p. 69-70	✓
GRI 103-3	Evaluation of the management approach	Managing Our Environmental Impacts		p. 64-68	✓
GRI 305-1 UNGC Principles 7, 8 IPIECA-E1	Direct (Scope 1) GHG emissions	Achievement of Climate Goals in 2019		p. 56-58	✓
GRI 305-2 UNGC Principles 7, 8 IPIECA-E1	Indirect and energy (Scope 2) GHG emissions	Achievement of Climate Goals in 2019		p. 56-58	✓
GRI 305-3 UNGC Principles 7, 8 IPIECA-E1	Other significant GHG emissions stating volume	Achievement of Climate Goals in 2019		p. 56-58	✓
GRI 305-4 UNGC Principle 8 IPIECA-E1	Reduction of GHG emissions	Achievement of Climate Goals in 2019		p. 56-58	✓
GRI 305-5	Reduction of GHG emissions	Achievement of Climate Goals in 2019		p. 56-58	✓
GRI 305-6 UNGC Principles 7, 8 IPIECA-E8	Emissions of ozone-depleting substances The Company does not use ozone-depleting substances on an industrial scale				✓
GRI 305-7 UNGC Principles 7, 8 IPIECA-E8	NO _x , SO _x , and other air emissions	Reducing Air Emissions		p. 69-70	✓
10. Water discharge and waste management (including spills)					
GRI 306 Effluents and waste 2016					
GRI 103 Management approach 2016					
GRI 103-1	Explanation of the material topic and its boundary	Land Remediation and Waste Management		p. 77-80	✓
GRI 103-2	The management approach and its components	Prevention of and response to oil spills Land remediation and waste management		p. 76 p. 77-80	✓
GRI 103-3	Evaluation of the management approach	Environmental impact management		p. 64-68	✓

No.	Name	Report section / references to other public documents	Omission	Page in the Report	External assurance
GRI 306-1 UNGC Principle 8 IPIECA-E7, E9	Total water discharge by quality and destination	Conserving water resources	Partially disclosed. The scope of the Company's operations makes it impossible to provide the breakdown of target water bodies.	p. 71-75	✓
	According to the data collection methodology, the Company discloses the total volume of waste water (both own and received from third parties) discharged into the environment through its own and third party centralised waste water systems. The Company also discloses data on domestic water discharges				
GRI 306-2 UNGC Principle 8 IPIECA-E9, E10	Total weight of waste by type and disposal method	Land remediation and waste management		p. 77-80	✓
	The main type of waste generated by the Company is oil sludge and drill cuttings. Rosneft does not transport, import, export, or process waste deemed hazardous under the terms of Annexes I, II, III, and VIII to the Basel Convention. The Company does not consolidate information on waste by hazard class, each Group Subsidiary accounts for its own waste				
GRI 306-3 UNGC Principle 8 IPIECA-E9	Total number and volume of significant spills	Prevention of and response to oil spills		p. 76	✓
GRI 306-4 UNGC Principle 8 IPIECA-E10	Weight of transported, imported, exported, or treated waste deemed hazardous under the terms of Annexes I, II, III, and VIII to the Basel Convention, and the share of waste transported internationally				✓
	The main type of waste generated by the Company is oil sludge and drill cuttings. Rosneft does not transport, import, export, or process waste deemed hazardous under the terms of Annexes I, II, III, and VIII to the Basel Convention. The Company does not consolidate information on waste by hazard class, each Group Subsidiary accounts for its own waste				
GRI 306-5 UNGC Principles 8, 9 IPIECA-E7, E9	Information on water bodies significantly affected by the Company's discharges of water and/or runoff				✓
	In 2019, no significant impacts of the Company's discharges on water bodies was registered				
GRI OG5 UNGC Principles 8, 9 IPIECA-E10	Oilfield water generated and injected	Conserving water resources		p. 71-75	✓
GRI OG6 UNGC Principles 8, 9 IPIECA-E4	APG utilisation	Achievement of Climate Goals in 2019		p. 56-58	✓
GRI OG7 UNGC Principles 8, 9 IPIECA-E10	Total drilling waste (drilling mud and cuttings) and approach to its disposal				✓
	In 2019, total drilling cuttings generated when using aqueous and non-aqueous drilling fluids amounted to 4,351.1 kt and 32.5 kt, respectively.				



No.	Name	Report section / references to other public documents	Omission	Page in the Report	External assurance
11. Environmental compliance (regulatory aspects)					
GRI 307 Environmental compliance 2016					
GRI 103 Management approach 2016					
GRI 103-1	Explanation of the material topic and its boundary	Environmental impact management		p. 64-68	✓
GRI 103-2	Management approach and its components	Environmental impact management		p. 64-68	✓
GRI 103-3	Evaluation of the management approach	Environmental impact management		p. 64-68	✓
GRI OG8	Fuels with benzene, lead and sulphur content significantly exceeding the national standards				✓
The Company does not produce fuels with benzene, lead and sulphur content significantly exceeding the national standards (technical regulations)					
GRI 307-1 UNGC Principle 8	Monetary value of significant fines and total number of non-monetary sanctions for non-compliance with laws and regulations	Environmental impact management		p. 64-68	✓
A number of Group Subsidiaries were fined for environmental non-compliance. Total fines in 2019 amounted to RUB 200 mln. Individual fines were insignificant					
12. Employment and labour/management relations					
GRI 401 Employment 2016					
GRI 103 Management approach 2016					
GRI 103-1	Explanation of the material topic and its boundary	Management framework and personnel profile		p. 142-145	✓
GRI 103-2	Management approach and its components	Management framework and personnel profile		p. 142-145	✓
GRI 103-3	Evaluation of the management approach	Management framework and personnel profile		p. 142-145	✓

No.	Name	Report section / references to other public documents	Omission	Page in the Report	External assurance
GRI 401-1 UNGC Principle 6	New employee hires and employee turnover	Management framework and personnel profile Key sustainability indicators	Partially disclosed. No information on new hires or turnover by gender and age is collected. The Company intends to collect such information once the unified automated HR records management system is implemented in all Group Subsidiaries as part of centralised business planning, which will be in place no sooner than 2020	p. 142-145 p. 204-209	✓
GRI 401-2	Benefits provided to full-time employees that are not provided to temporary or part-time employees	Social policy		p. 156-165	✓
GRI 402 Labour/management relations 2016					
GRI 103 Management approach 2016					
GRI 103-1	Explanation of the material topic and its boundary	Management framework and personnel profile		p. 142-145	✓
GRI 103-2	Management approach and its components	Management framework and personnel profile		p. 142-145	✓
GRI 103-3	Evaluation of the management approach	Management framework and personnel profile		p. 142-145	✓
GRI 402-1	Minimum notice periods regarding changes in operations, including whether these are specified in collective agreements				✓
The Company fully complies with the laws on notifying the employees of significant changes					
13. Occupational health and safety					



No.	Name	Report section / references to other public documents	Omission	Page in the Report	External assurance
GRI 403 Occupational health and safety 2016					
GRI 103 Management approach 2016					
GRI 103-1	Explanation of the material topic and its boundary	Health and safety management		p. 90-92	✓
GRI 103-2	Management approach and its components	Health and safety management		p. 90-92	✓
GRI 103-3	Evaluation of the management approach	Health and safety management		p. 90-92	✓
GRI 403-2 IPIECA-HS3	Type of injury and rates of injury, occupational diseases, lost days, and absenteeism, and total number of work-related fatalities	Human safety	Partially disclosed. The information necessary to calculate the absentee rate is currently not available, as the Company does not collect such information in a consolidated manner	p. 93-99	✓
GRI 403-3	Workers with high injury rate or high risk of diseases related to their occupation				✓
When analysing injuries and cases of occupational diseases, the Company identified a number of professions that are most vulnerable to injuries (drillers, operators of process units / filling stations / oil and gas production facilities) and occupational diseases (drivers, bulldozer operators and special machinery drivers). Rosneft is committed to minimising the negative impact on such employees					
GRI 403-4 IPIECA-HS1, HS2, HS3, SE16	Health and safety topics covered in formal agreements with trade unions	Health and safety management Social policy		p. 90-92	✓
				p. 156-165	
IPIECA-HS2, HS3	Programmes and procedures used to identify and solve significant employee safety issues	Social policy		p. 156-165	✓
GRI OG13 IPIECA-HS1, HS5	Safety of production processes	Safety of production facilities and processes	Partially disclosed. The Company has a PSE-1 and PSE-2 procedure for recording and analysing operational incidents in accordance with ANSI/API RP 754 recommendations and IOGP Report 456, but the data are not consolidated in line with IFRS. Therefore, the calculation of per unit PSER does not fully comply with the ANSI/API RP 754 recommendations and IOGP Report 456	p. 100-104	✓
The Company is committed to safety. To prevent incidents, Rosneft conducts regular health and safety inspections, has a system of health and safety training in place, and includes response measures into drills and on-site training sessions					

No.	Name	Report section / references to other public documents	Omission	Page in the Report	External assurance
GRI 407 Freedom of Association and Collective Bargaining 2016					
GRI 103 Management approach 2016					
GRI 103-1	Explanation of the material topic and its boundary	Management framework and personnel profile		p. 142-145	✓
GRI 103-2	Management approach and its components	Management framework and personnel profile Social policy		p. 142-145 p. 156-165	✓
GRI 103-3	Evaluation of the management approach	Social policy		p. 156-165	✓
GRI 407-1 UNGC Principle 3	Identified units and suppliers that could be violating freedom of association and rights to collective bargaining or that have a significant risk of such violations, as well as measures taken to protect these rights				✓
The Company operates in compliance with the laws ensuring freedom of association and rights to collective bargaining. Rosneft has no information about units or suppliers that could be violating these rights					
IPIECA-SE18	Employment disputes				✓
The Company operates in compliance with labour laws. Rosneft is committed to resolving all employment disputes through negotiations					
GRI 410 Security practices 2016					
GRI 410-1	Percentage of security personnel trained in the human rights policies or procedures				✓
In 2019, the percentage of security personnel trained in the human rights policies or procedures stood at 73 %					
GRI 412 Human rights assessment 2016					
GRI 103 Management approach 2016					
GRI 103-1	Explanation of the material topic and its boundary	Approaches to promoting human rights		p. 37-39	✓
GRI 103-2	Management approach and its components	Approaches to promoting human rights		p. 37-39	✓
GRI 103-3	Evaluation of the management approach	Approaches to promoting human rights		p. 37-39	✓
GRI 412-2	Total hours of employee training in human rights policies and procedures	Approaches to promoting human rights		c. 37-39	✓



No.	Name	Report section / references to other public documents	Omission	Page in the Report	External assurance
14. Training and Education					
GRI 404 Training and Education 2016					
GRI 103 Management approach 2016					
GRI 103-1	Explanation of the material topic and its boundary	Personnel training and development		p. 146–155	✓
GRI 103-2	Management approach and its components	Personnel training and development		p. 146–155	✓
GRI 103-3	Evaluation of the management approach	Social policy		p. 156–165	✓
GRI 404-1 UNGC Principle 6 IPIECA-SE16	Average hours of training per year per employee by gender and category	Personnel training and development		p. 146–155	✓
GRI 404-2 Principle 6 IPIECA-SE16	Programmes for upgrading employee skills and lifelong learning	Personnel training and development		p. 146–155	✓
GRI 404-3 UNGC Principle 6 IPIECA-SE16	Percentage of employees receiving regular performance and career development reviews	Personnel training and development	Partially disclosed. The Report presents data on the total number of employees subject to reviews. The Company currently does not collect any evaluation data by category or gender	p. 146–155	✓
In 2019, Company-wide reviews of corporate and managerial competencies covered more than 23 thousand employees.					
15. Diversity and equal opportunity, non-discrimination					
GRI 405 Diversity and Equal Opportunity 2016					
GRI 103 Management approach 2016					
GRI 103-1	Explanation of the material topic and its boundary	Management framework and personnel profile		p. 142–145	✓
GRI 103-2	Management approach and its components	Management framework and personnel profile		p. 142–145	✓
GRI 103-3	Evaluation of the management approach	Approaches to promoting human rights		p. 37–39	✓
GRI 405-1	Diversity of governance bodies and key categories of employees	Sustainability management Management framework and personnel profile		p. 25–31 p. 142–145	✓
The Company complies with Russian laws on the protection of the disabled when it comes to meeting the established disabled quotas. We employ nearly 2 thousand disabled who enjoy equal access to education. At the same time, taking into account the nature of its operations and a high share of hazardous or dangerous jobs according to the special assessment of working conditions, the Company pays compensations to the disabled employment promotion fund as provided for by regional laws. In 2019, relevant Company-wide expenses totalled RUB 152 mln.					

No.	Name	Report section / references to other public documents	Omission	Page in the Report	External assurance
GRI 406 Non-Discrimination 2016					
GRI 103 Management approach 2016					
GRI 103-1	Explanation of the material topic and its boundary	Management framework and personnel profile		p. 142–145	✓
GRI 103-2	Management approach and its components	Management framework and personnel profile		p. 142–145	✓
GRI 103-3	Evaluation of the management approach	Approaches to promoting human rights		p. 37–39	✓
GRI 406-1 UNGC Principle 6	Total incidents of discrimination and corrective actions taken				✓
The Company identified no incidents of discrimination in the reporting period.					
16. Rights of indigenous people and minorities					
GRI 411 Rights of Indigenous Peoples 2016					
GRI 103 Management approach 2016					
GRI 103-1	Explanation of the material topic and its boundary	Support for indigenous minorities of the North		p. 181–183	✓
GRI 103-2	Management approach and its components	Support for indigenous minorities of the North		p. 181–183	✓
GRI 103-3	Evaluation of the management approach	Support for indigenous minorities of the North		p. 181–183	✓
GRI 411-1 UNGC Principles 1, 2	Total number of identified incidents of violations involving the rights of indigenous minorities and actions taken				✓
The Company operates in compliance with the laws prohibiting any forms of human rights violation. In 2019, no incidents of violations of indigenous minorities' rights were identified in the Company					
GRI OG9	Operations which affect interests of indigenous minorities and involve special actions to liaise with them.				✓
The Company operates in some oil and gas producing regions where indigenous communities are present. In all these regions, the Company runs programmes to engage with, and provide support to, such communities.					
GRI 413 Local Communities 2016					
GRI 103 Management approach 2016					
GRI 103-1	Explanation of the material topic and its boundary	Supporting social and economic development		p. 168–180	✓
GRI 103-2	Management approach and its components	Supporting social and economic development		p. 168–180	✓
GRI 103-3	Evaluation of the management approach	Supporting social and economic development		p. 168–180	✓
GRI 413-1 UNGC Principle 1 IPIECA-SE1, SE2, SE3, SE4, SE5	Operations with local community engagement, impact assessments, and development programmes	Public relations Supporting social and economic development		p. 85–87 p. 168–180	✓
The Company implements procedures for stakeholder engagement and community impact assessment and management in the key regions of operation, including when developing new projects. Such approaches affect the absolute majority of the Company's operations.					



No.	Name	Report section / references to other public documents	Omission	Page in the Report	External assurance
GRI 413-2 UNGC Principle 1	Operations with significant actual and potential negative impacts on local communities				✓
	The Company takes action to prevent adverse impacts of employee relocation on local communities. We also implement measures to mitigate our environmental footprint and enhance safety.				
GRI OG10	Number and description of material conflicts with local communities and indigenous peoples				✓
	In 2019, there was no materials conflicts with local communities or indigenous peoples				
17. Compliance with social and economic requirements					
GRI 419 Socioeconomic Compliance – 2016					
GRI 103 Management approach 2016					
GRI 103-1	Explanation of the material topic and its boundary	Compliance framework development		p. 40–47	✓
GRI 103-2	Management approach and its components	Compliance framework development		p. 40–47	✓
GRI 103-3	Evaluation of the management approach	Compliance framework development		p. 40–47	✓
GRI 419-1	Significant fines and total number of non-monetary sanctions for non-compliance with laws and/or regulations in the social and economic area				✓
	In 2019, there were no significant fines for non-compliance with laws and/or regulations in the social and economic area confirmed by court rulings				
18. Risks and opportunities related to climate change (physical aspects)					
GRI 103 Management approach 2016					
GRI 103-1	Explanation of the material topic and its boundary	Climate-related risks and opportunities		p. 55	✓
GRI 103-2	Management approach and its components	Climate-related risks and opportunities		p. 55	✓
GRI 103-3	Evaluation of the management approach	Climate-related risks and opportunities Climate cooperation		p. 55 p. 59–60	✓
19. Emergency preparedness and response					
GRI 103 Management approach 2016					
GRI 103-1	Explanation of the material topic and its boundary	Emergency prevention and response		p. 108	✓
GRI 103-2	Management approach and its components	Emergency risk management		p. 111	✓
GRI 103-3	Evaluation of the management approach	Employee training in emergency response		p. 115	✓
20. Asset integrity, process safety (safety procedures and number of accidents)					
GRI 103 Management approach 2016					
GRI 103-1	Explanation of the material topic and its Boundary	Safety of Production Facilities and Processes		p. 100–104	✓

No.	Name	Report section / references to other public documents	Omission	Page in the Report	External assurance
GRI 103-2	Management approach and its components	Health and Safety Management Safety of Production Facilities and Processes		p. 90–92 p. 100–104	✓
GRI 103-3	Evaluation of the management approach	Health and Safety Management Safety of Production Facilities and Processes		p. 90–92 p. 100–104	✓
21. Strategic targets of sustainable development					
GRI 103 Management approach 2016					
GRI 103-1	Explanation of the material topic and its Boundary	Strategic Vision of Sustainable Development		p. 20–24	✓
GRI 103-2	Management approach and its components	Sustainability Management		p. 25–31	✓
GRI 103-3	Evaluation of the management approach	Strategic Vision of Sustainable Development		p. 20–24	✓
22. Alternative fuels and innovations					
GRI 103 Management approach 2016					
GRI 103-1	Explanation of the material topic and its Boundary	Innovation Management Digital Transformation Customer Engagement		p. 118–119 p. 125–128 p. 186–192	✓
GRI 103-2	Management approach and its components	Innovation Management Digital Transformation Customer Engagement		p. 118–119 p. 125–128 p. 186–192	✓
GRI 103-3	Evaluation of the management approach	Development of R&D Capabilities Customer Engagement		p. 129–137 p. 186–192	✓
23. Amount and type of estimated proved reserves and production					
GRI 103 Management approach 2016					
GRI 103-1	Explanation of the material topic and its Boundary	2019 Annual Report, Rosneft's Exploration and Reserve Replacement section, p. 38–43			✓
GRI 103-2	Management approach and its components	2019 Annual Report, Rosneft's Exploration and Reserve Replacement section, p. 38–43			✓
GRI 103-3	Evaluation of the management approach	2019 Annual Report, Rosneft's Exploration and Reserve Replacement section, p. 38–43			✓
GRI OG1	Proved reserves and production	Key Sustainability Indicators		p. 204–209	✓
24. Consumer health and safety					
GRI 416 Consumer health and safety 2016					
GRI 103 Management approach 2016					
GRI 103-1	Explanation of the material topic and its Boundary	Customer Engagement		p. 186–192	✓
GRI 103-2	Management approach and its components	Customer Engagement		p. 186–192	✓
GRI 103-3	Evaluation of the management approach	Customer Engagement		p. 186–192	✓
GRI 416-2	Cases of product and service non-compliance with regulatory requirements	Customer Engagement		p. 186–192	✓



No.	Name	Report section / references to other public documents	Omission	Page in the Report
25. Climate-Related Financial Disclosures (TCFD)				
Governance	a) The Board of Director's position on climate-related risks and opportunities	Sustainability Management		p. 25–31
	b) Management' role in assessing and managing climate-related risks and opportunities	Carbon Management Goals and Approaches		p. 50–51
Strategy	a) Short, medium and long term climate-related risks and opportunities identified by the Company	Climate-related Risks and Opportunities		p. 55
	b) The impact of climate-related risks and opportunities on the Company's business, strategy and financial planning	Sustainability Management		p. 25–31
	c) Strategy resilience with regard to climate scenarios, including the below 2 °C scenario.	Development of Global Energy Markets		p. 52–54
Risk management	a) Processes to identify and assess climate-related risks	Climate-related Risks and Opportunities		p. 55
	b) The Company's processes to manage climate-related risks	Sustainability Management Emergency Prevention		p. 25–31 p. 112–113
	c) Integration of processes to identify, assess, and manage climate-related risks into a unified Company risk management process	Carbon Management Goals and Approaches		p. 50–51
Targets and indicators	a) Targets used by the Company to assess associated risks and opportunities in accordance with the risk management strategy and process	Biodiversity Conservation		p. 80–84
	b) Scope 1, Scope 2 and Scope 3 greenhouse gas emissions and associated risks	Strategically Important UN Sustainable Development Goals		p. 8–9
		Carbon Management Goals and Approaches		p. 50–51
		Achievement of Climate Goals in 2019		p. 56–58
	c) Targets used by the Company to manage climate-related risks and opportunities and their consequences	Achievement of Climate Goals in 2019 Managing Our Environmental Impacts		p. 56–58 p. 64–68

Appendix 3. Stakeholder engagement in 2019: round table meetings in the Company's regions of operation

Since 2007, Rosneft has been annually holding meetings with stakeholders in its key regions of operation. The events are held in the round table format and attended by partner and client representatives, NGOs, educational institutions, the media, as well as supervisory bodies, government agencies, and municipal authorities. The Company

is represented by the heads of the Group Subsidiaries operating in the region. The round table agenda traditionally includes discussion of the following items:

- Group Subsidiary activities and contribution to the development of a respective region in the reporting year;

- status of stakeholder suggestions made at previous round tables;
- exchange of views with stakeholders.

In total, 16 round table were held in 2019 across the Company's footprint.

1. Round table "Sustainable Development of Rosneft Group Subsidiaries and the Republic of Bashkortostan in 2018", Ufa, Republic of Bashkortostan

Participants: representatives of Bashneft, Rosneft, the government of the Republic of Bashkortostan, contractors and the media.

Discussions of current issues, including:

resuming joint scientific and technical councils of the Company and the Ministry of Industry and Innovation Policy of the Republic of Bashkortostan; fostering the creation of the Rosneft – Ufa State Oil Technical University research and education centre; creating a mechanism for the out-of-court settlement of disputes arising during the Company's procurement activities; familiarising members of the Russian Chamber of Commerce and Industry with Bashneft's procurement procedures through training seminars.

2. Round table "Sustainable Development of Vostsibneftegaz and the region where it operates in 2018", the village of Baykit, Evenkiysky District, Krasnoyarsk Territory

Participants: representatives of Vostsibneftegaz, Slavneft-Krasnoyarskneftegaz, the Evenkiysky District Administration, village councils, educational institutions, the public and the media.

Discussions of current issues, including:

- creation of a salt therapy room for children in the village of Baykit as part of the Company's charity program;
- support for an additional police position in the Evenkiysky District;
- sending the Company's vacancies to the Baykit Employment Centre to facilitate local employment.

3. Round table "Sustainable Development of Rosneft Group Subsidiary in the regions where it operates in 2018", Igarka, Turukhansky District, Krasnoyarsk Territory

Participants: the management of RN-Vankor, administration heads of the Turukhansky District and city of Igarka, representatives of legislative bodies, educational, health, culture, and religious institutions, NGOs and contractors.

Discussions of current issues, including:

- increasing the the Company's contribution to the project to create an ethnic theme park in the village of Sovetskaya Rechka;
- RN-Vankor's offer to join the programme to compensate travel costs financed by the municipal budget;
- partnering with educational institutions to facilitate employment of graduates whose tuition was paid from the government budget;
- streamlining food delivery to Igarka through opening a grocery store by a Company contractor.



4. Round table "Sustainable Development of Udmurtneft and the Udmurt Republic in 2018", Izhevsk, Udmurt Republic

Participants: representatives of Udmurtneft, executive bodies of the Udmurt Republic, local governments, educational and social institutions, and the media.

Discussions of current issues, including:

- Udmurtneft's contribution to national environmental projects;
- setting up a Rosneft Class in one of the villages in the Votkinsk District;
- Udmurtneft's contribution to upgrading the water supply system in the Karakulinsky District by financing the drafting of project documents to include the district in the federal Clean Water programme;
- joint effort by Udmurtneft and the Republic's authorities to repair the Malye Kalmashi-Vyatskoye road.

5. Round table "Sustainable Development of Rosneft Group Subsidiaries and the Irkutsk Region in 2018", Irkutsk

Participants: representatives of Verkhnechonskneftegaz, Angarsk Petrochemical Company, Angarsk Polymer Plant, Irkutsknefteprodukt, heads of regional administrations and city districts, regional authorities, dedicated supervisory agencies, EMERCOM, industrial and commercial companies, scientific, higher and vocational educational institutions, charitable NGOs, the Ethnocultural Centre and the media.

Discussions of current issues, including:

- arranging doctor visits to the Katangsky District;
- construction and financing of an Ethnocultural Centre for the indigenous peoples of the North in Irkutsk;
- public-private partnership programme to recycle municipal solid waste;
- allocating funds to purchase seedlings for a park in Angarsk;
- supporting the project to build a fitness centre in the Katangsky District.

6. Round table "Sustainable Development of Rosneft Group Subsidiaries and the Khabarovsk Territory in 2018", Komsomolsk-on-Amur, Khabarovsk Territory

Participants: representatives of RN-Komsomolsk Refinery, the government of the Khabarovsk Territory, the administration of Komsomolsk-on-Amur, sports and cultural NGOs, the regional veterans organisation, children's rehabilitation centre, educational institutions, medical organisations, and the media.

Discussions of current issues, including:

- supporting instructors at Komsomolsk-on-Amur State University;
- continued partnership to develop the city and regional infrastructure, including building a sidewalk from the Learning Centre to the Komsomolsk Refinery as part of the project to repair pavement on Leningradskaya Street in 2021;
- treating with anti-icing chemicals of pedestrian crossing at the Learning Centre in the autumn-winter season, cleaning the sidewalk along from the Learning Centre to the Komsomolsk Refinery.

7. Round table "Sustainable Development of Rosneft Group Subsidiaries in the Krasnodar Territory in 2018", Krasnodar

Participants: representatives of Rosneft Group Subsidiaries, the government of the Krasnodar Territory, EMERCOM, and administrative bodies of Krasnodar's municipalities.

Discussions of current issues, including:

- improvement of inside premises across the retail network of filling stations;
- interaction with local EMERCOM bodies in municipalities, consulting and awareness-raising work;
- joint work on prevention initiatives to create precautions against theft of Subsidiaries' production equipment.

8. Round table "Sustainable Development of Orenburgneft as a Rosneft Subsidiary and the Orenburg Region in 2018", Orenburg

Participants: representatives of Orenburgneft, Orenburg Region authorities, supervisory bodies, Orenburg Region Union of Industrialists and Entrepreneurs, regional clinical hospital, municipal authorities, service providers and trade unions.

Discussions of current issues, including:

- working meetings with the heads of municipalities on the salaries of the contractor and sub-contractor employees;
- participation in the regional APG utilisation programme and establishment of a coordination board featuring experts from the scientific community;
- arranging for the joint control of biological land restoration by Orenburgneft and the Krasnogvardeysky District Administration;
- raising awareness of the local authorities about the Orenburgneft activities.

9. Round table "Sustainable Development of RN-Purneftegaz in the Yamalo-Nenets Autonomous Area in 2019", Gubkinsky, Yamalo-Nenets Autonomous Area

Participants: representatives of RN-Purneftegaz, the government and municipalities of the Yamalo-Nenets Autonomous Area, indigenous peoples of the North and trade unions.

Discussions of current issues, including:

- financial support of the 75th WWII Victory anniversary celebrations and participation in campaigns to search for the artefacts, relics and burials of war in the Yamalo-Nenets Autonomous Area;
- use of CCTV cameras on towers at remote fields;
- invitation for the Company to become part of the collective bodies of the Muravlenkovsky Multidisciplinary College branch management.

10. Round table "Sustainable Development of Rosneft Group Subsidiaries in the Ryazan Region in 2018", Ryazan

Participants: representatives of Ryazan Refinery, Ryazannefteprodukt, the government of the Ryazan Region, Ryazan Regional Duma, Ryazan administration, educational institutions and supervisory bodies.

Discussions of current issues, including:

- brokering approvals between the Environmental Management Ministry of the Ryazan Region and Ryazan Refinery in respect of the possibility and terms of using the Refinery's ecology lab;
- interaction with Ryazan Refinery on the matters of materials and equipment supply, adjustments to training programmes, and recruitment of the Kasimov Oil and Gas College graduates;
- equipment upgrades for related subjects at sponsored schools (Rosneft Classes), help with organisation and implementation of school students' individual projects;
- Rosneft's participation in establishing the Digital Education Centre.

11. Round table "Sustainable Development of Rosneft Group Subsidiaries and the Samara Region in 2018", Samara

Participants: representatives of Samaraneftegaz, SamaraNIPIneft, Kuibyshev Refinery, Syzran Refinery, Novokuibyshevsk Petrochemical Company, Samaranefteprodukt, Samara Region government agencies, municipalities, business community, trade unions and educational institutions.

Discussions of current issues, including:

- active participation of Rosneft Subsidiaries in the EcoLeader regional competition;
- participation of Rosneft Subsidiaries in the implementation of national projects (Clean Volga programme);
- changes in wages at the Samara Region's Rosneft Subsidiaries;
- Rosneft Subsidiaries' participation in trade unions' cross-industry events;
- proposals on increasing the number of Rosneft Classes;
- supplementing the agreement between Rosneft and the Samara Region with a project to reconstruct the school in an urban district where the bulk of the population are employees of Syzran Refinery.

12. Round table "Sustainable Development of Rosneft Group Subsidiaries and the Saratov Region in 2018", Saratov

Participants: representatives of Saratov Refinery, Saratovnefteprodukt, the government of the Saratov Region, regulatory bodies, municipalities, educational and healthcare institutions.

Discussions of current issues, including:

- cooperation with the Rodnye Reki (Homeland Rivers) foundation on the Patriotism. Environment. Leadership project;
- employee and community safety;
- help in implementing the HR standard for industrial economic growth of the Saratov Region's Ministry of Employment, Labour and Migration;
- sharing of the Group Subsidiaries' experience in teaching safe work practices for their roll-out at other companies in the region.

13. Round table "Sustainable Development of Rosneft-Stavropolye and RN-Stavropolneftegaz in the region where they operate in 2018", Stavropol

Participants: representatives of Rosneft-Stavropolye, RN-Stavropolneftegaz, Stavropol Territory authorities, educational and science institutions, business community and municipalities.

Discussions of current issues, including:

- improvement of service quality at the filling stations of Rosneft-Stavropolye;
- informing the region's administration about capital investments and the planned investment projects;
- implementation of a railroad project to connect Budyonnovsk and Kochubey khutor;
- contributions to boosting employment in select districts;
- maintaining social support measures at the level of 2014–2015;
- participation in new social projects of the Levokumsky Municipal District.



14. Round table “Sustainable Development of RN-Severnaya Neft and the region where it operates in 2018”, Usinsk, Komi Republic

Participants: representatives of RN-Severnaya Neft, Usinsk Urban District administration, educational institutions, war, labour and military veterans council, healthcare institutions and mass media.

Discussions of current issues, including:

- financial support of Usinsk;
- employment at RN-Severnaya Neft for the indigenous and local population;
- lectures for students of the Usinsk branch of Ukhta State Technical University;
- training and competitions for the rescue unit of RN-Severnaya Neft hosted at Usinsk Polytechnic College.

15. Round table “Sustainable Development of Rosneft Group Subsidiaries and the Khanty-Mansi Autonomous Area – Yugra in 2018”, Khanty-Mansiysk

Participants: representatives of RN-Yuganskneftegaz, Samotlorneftegaz, Varyeganneftegaz, RN-Nyaganneftegaz, regional authorities, Duma of the Khanty-Mansi Autonomous Area – Yugra, regulatory bodies, business community, educational institutions, head offices of cities and districts, and mass media.

Discussions of current issues, including:

- appointment of personnel by Rosneft Subsidiaries for interaction with the Yugra Development Foundation on the matters of localising suppliers' production operations in the Khanty-Mansi Autonomous Area – Yugra;
- full inventory of disturbed land by RN-Yuganskneftegaz jointly with the supervisory and regulatory service;
- additional focus on cardiovascular diseases in the process of recruitment and otherwise;
- launch of Rosneft Classes in the Oktyabrsky District;
- arrangement of joint efforts with Rosneft Subsidiaries on retraining and professional development of employees with higher education;
- participation of RN-Yuganskneftegaz in the construction of a park in the town of Pyt-Yakh.

16. Round table “Sustainable Development of Rosneft Group Subsidiaries and the region where they operate in 2018”, Yuzhno-Sakhalinsk

Participants: representatives of RN-Sakhalinmorneftegaz, RN-Shelf Arktika, RN-Vostoknefteprodukt, RN-SakhalinNIPImorneft, Sakhalin Region executive bodies, non-profit environmental organisations and veteran organisations, educational and science institutions, clergy and culture establishments.

Discussions of current issues, including:

- RN-SakhalinNIPImorneft's proposal to engage the public in the matters of design, development and operation of the Vostochno-Pribrezhny and Deryuginsky licence areas;
- conclusion of a cooperation agreement between the Civic Chamber of the Sakhalin Region and Group Subsidiaries in the region;
- career guidance activities at all Sakhalin schools;
- proposal for cooperation in establishing an animal rehabilitation centre;
- development of programmes to support traditional use of natural resources and economic activities.

Appendix 4. Abbreviations

		Rostekhnadzor	Federal Environmental, Industrial and Nuclear Supervision Service of Russia
		PPE	Personal protective equipment
CNG	Compressed natural gas		
KPI	Key performance indicators	API	American Petroleum Institute
		FAR	Fatal Accident Rate, the ratio of the total number of the Company's work-related fatalities to 100 mln man-hours worked.
ILO	International Labour Organisation	IPIECA	International Petroleum Industry Environmental Conservation Association
ITUO	Interregional Trade Union Organisation	ISO	International Organisation for Standardisation
SME	Small and medium-sized enterprises	LTIF	Lost Time Injury Frequency, number of lost-time work-related injuries (including fatalities) of the Company's employees to 1 mln man-hours worked
IFRS	International Financial Reporting Standards	SEC	U.S. Securities and Exchange Commission
EMERCOM	Ministry of the Russian Federation for Civil Defence, Emergencies and Elimination of Consequences of Natural Disasters		
R&D	Research and development		
NPF Neftegarant	Non-State Pension Fund Neftegarant		
UN	United Nations		
OHS	Occupational health and safety		
HSE	Health, safety and environment		
APG	Associated petroleum gas		
RAS	Russian Academy of Sciences		
RSPP	Russian Union of Industrialists and Entrepreneurs.		
Rosprirodnadzor	Federal Service for Supervision of Natural Resources		



Units of Measurement

mln	million
bln	billion
trln	trillion
th.	thousand
t	tonne
tce	tonne of coal equivalent
toe	tonne of oil equivalent
kg	kilogramme
km	kilometre
sq m	square metre
cub m	cubic metre
ha	hectare
RUB	rouble
CO ₂ -equivalent, CO ₂ -eq.	Total emissions from various greenhouse gases and from an organisation as a whole on the basis of their global warming potential

FOR NOTES

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