



ЭКОЛОГИЯ

НАЦИОНАЛЬНЫЕ  
ПРОЕКТЫ  
РОССИИ

ЖИЛЬЕ  
И ГОРОДСКАЯ СРЕДА

НАЦИОНАЛЬНЫЕ  
ПРОЕКТЫ  
РОССИИ



# ROSNEFT: SUSTAINABLE CONTRIBUTION TO ENERGY, FOOD AND WATER SECURITY



## RESPONSIBILITY OF BUSINESS IS ONE OF THE COMPANY'S CORE VALUES



Igor Ivanovich Sechin  
Chairman of the Management Board,  
Chief Executive Officer  
of Rosneft Oil Company

*“Speaking about energy security over the long term, it should not be left unmentioned that Russia is one of the few countries giving priority to investments in new energy projects... With the world's investments in exploration and production shrinking, this greenfield project of global significance in North Siberia (Vostok Oil) with a resource base of 6.5 billion tonnes of oil is probably the world's largest project that can have a stabilizing effect on the entire hydrocarbon market”.*

The fifth Russian-Chinese Energy Business Forum,  
October 19, 2023.

Rosneft's strategic vision is to remain a reliable producer of energy resources, ensuring sustainable supplies of hydrocarbons to Russian and foreign consumers, while minimizing impact on the environment and climate.

**Availability of stable access to energy** is a fundamental prerequisite for achieving food security and smooth functioning of transportation and agriculture.

**Water, energy and food** are the three vital resources required for human well-being and sustainable development.

Energy, food and water security are key components of the activities aimed at delivery of the National Projects **“Ecology”**, **“Housing and Urban Environment”**<sup>1</sup> and the UN Sustainable Development Goals, such as **“Affordable and Clean Energy”**, **“Clean Water and Sanitation”**, **“Zero Hunger”**, **“Climate Action”**, **“Sustainable Cities and Communities”**, **“Responsible Consumption and Production”**, **“Life below water”**.

In 2018, Rosneft was the first among major Russian oil and gas companies to reaffirm its strategic commitment to the UN Sustainable Development Goals<sup>2</sup>.



<sup>1</sup> Includes the Federal project “Clean water”.

<sup>2</sup> [The Rosneft Board of Directors approved the Public Position on the Company's Commitment to the UN Sustainable Development Goals.](#)



Preserving the environment for future generations is an integral part of the Company corporate culture and business principles. Rosneft aims at achieving leading positions in sustainable development, minimizing the environmental footprint of its operations and improving sustainability of its production facilities.

The key components of the Company's long-term environmental agenda are the **Strategy Rosneft-2030**, as well as the **Environmental Development Concept until 2035**.

**The Strategy “Rosneft–2030: Reliable Energy and Global Energy Transition”** sets out milestones for the core businesses, including:

- ramping up hydrocarbon production to meet the demand for energy resources in Russia and globally\* while maintaining leadership in terms of per-unit production costs;
- conservation of biodiversity and commitment to the principle of “net positive impact”;
- 100% recycling of oily waste and remediation of contaminated “historical legacy” land;
- introduction of the circular economy principles;
- achieving net zero by 2050.

**Rosneft's Environmental Development Concept until 2035** provides for an increase in water reuse and improvement of water treatment efficiency in order to reduce consumption of “fresh”\*\* water **by 10%** by 2030.

\* [The UN estimates](#) that the world's population has passed the 8 billion mark. The world population is expected to increase by almost 2 billion people in the next 30 years, from the current 8 billion to 9.7 billion in 2050. [The 2023 OPEC World Oil Outlook](#).

\*\* “Fresh water” means fresh water taken from surface and underground water sources, including water supplied by third parties under water supply contracts.



## ROSNEFT – RESPONSIBILITY OF BEING A LEADER

### Energy security

- ✓ **the country's largest taxpayer** - over the last five years, payments to the Russian budget have exceeded RUB 18 trillion
- ✓ **leader in terms of hydrocarbon reserves\***
- ✓ **Russia's largest company in terms of oil production**
- ✓ **leader in the Russian oil refining industry**
- ✓ **largest supplier** of motor fuels to the domestic market
- ✓ **largest retail network of filling stations** in Russia
- ✓ **Europe's largest research and design complex**

### Water security

- ✓ **share of recycled and reused water** in 2023 - about **93%**
- ✓ **innovative water treatment technologies** (Bashneft, Syzran Refinery)
- ✓ **conservation of biodiversity** in the regions of the Company's presence

Food security



\*Rosneft - AB1C1+B2C2 reserves under the Russian classification as of the end of 2022, reserves of ExxonMobil, bp, TotalEnergies, PetroChina, Shell, Chevron, Petrobras, Eni, Equinor based on Wood Mackenzie reserves assessment, including commercial and technical (sub-commercial) reserves as of 01.01.2022.



## ROSNEFT: ENSURING ENERGY SECURITY

Rosneft makes a significant contribution to the economy of the Russian Federation as the country's largest taxpayer. Over the last five years, Rosneft's tax payments have exceeded **RUB 18 trillion**. The Company's large-scale operating and investment programs have a positive multiplier effect on the Russian budget.

In 2023, the Company's hydrocarbon production amounted to **269.8 mln toe**, including liquid hydrocarbon production of **193.6 mln tonnes**. Rosneft became the first among independent gas producers in Russia, having increased production to a record level of **92.7 bcm** net of volumes used for other process needs. Based on the results of audit under international PRMS\* classification, the Company's 2P hydrocarbon reserves as of the end of 2023 amounted to 11.4 billion toe. Production replenishment by incremental 2P reserves **exceeds 100%**.

In 2023, the volume of oil refining in the Russian Federation amounted to **88 mln tonnes**.

Rosneft, being the largest supplier of fuel to the domestic market, more than doubled its supply rates in 2023, which contributed not only to the development of exchange trading, but also to shaping affordable prices for domestic consumers. Rosneft's share in the total volume of exchange sales of gasoline and diesel fuel amounted to **40%**.

**Sustainable supply of high-quality motor fuel to Russian consumers is one of Rosneft's key priorities. The Company's retail business is the largest in the Russian Federation with about 3,000 filling stations.**



## VOSTOK OIL: THE WORLD'S LARGEST PROJECT THAT UNDERPINS ENERGY SECURITY

Rosneft develops the Vostok Oil project, the largest in the global oil and gas industry. The project includes **52** license blocks in the north of the Krasnoyarsk region and in the Yamalo-Nenets Autonomous District. Its resource base amounts to **6.5 billion tonnes** of premium low-sulfur oil.

The crude oil loading terminal at the new seaport "Sever Bay" will provide transshipment of oil from Vostok Oil fields for further shipment by tanker fleet along the Northern Sea Route.

As part of the project, surveys are being carried out for construction of a **50 MW** wind farm on the coast of the "Sever" bay. **In the future, the maximum capacity of the wind farm may reach 200 MW.**

Vostok Oil's low carbon footprint, which is barely a quarter of the global average when it comes to new projects, makes it one of the most promising and environmentally friendly upstream oil projects in the world.

The project is one of a kind in the world in terms of the number of specialists involved: **more than 400,000 specialists** will be involved during the construction phase and **more than 130,000 on a long-term basis** during the operation phase of Vostok Oil's fields. **10,000 people** are currently employed at the project.

In the Krasnoyarsk region, Rosneft implements a large-scale program to support educational institutions for comprehensive training of skilled workers and engineers.

“Development of such a fleet [ice-class Arctic fleet] is of great importance for our country - an Arctic power, it is in demand for implementation of our long-term strategy aimed at Arctic development, for ensuring reliable transportation along the Northern Sea Route, on global transportation logistics routes, for strengthening energy security of our country, and indeed of the entire world”.

President of the Russian Federation  
during a visit to the Zvezda shipyard,  
September 11, 2023.



## DEVELOPMENT OF THE NORTHERN SEA ROUTE - YEAR-ROUND NAVIGATION PROMOTES ENERGY SECURITY

Zvezda Shipyard is the state-of-the-art shipyard in Russia, which is specialized in construction of all types of offshore production platforms, icebreakers and large-capacity civilian vessels - the backbone of the Russian Arctic fleet. Rosneft, as the project operator, is providing pilot loading with a portfolio of 28 vessels. In total, Zvezda's order portfolio contains **about 60 civilian vessels with enhanced environmental performance** (including icebreaking LNG gas tankers).

The shipyard's capabilities allow to apply the most efficient method of construction - large-block construction, which is employed today by the world's leading shipyards: ships are assembled from blocks weighing **up to 3,500 tonnes**, which is six times higher than the existing capabilities of other Russian shipyards.

The shipyard has already completed the key process tasks, the main facilities have been commissioned and are in operation - the hull production block, paint booths, block assembly shop, an open heavy fitting-out building berth with a fleet of unique cranes, and **the most advanced and efficient pipe-processing shop in Russia**. Upon completion of construction of all facilities, the equipment capabilities of Zvezda shipyard will enable it to process **330,000 tonnes of metal per year**. Zvezda shipyard is a leading employer in the region. Currently, the company already employs **about 11 thousand employees of the shipyard and contractor organizations**.



## ROSNEFT: ENSURING WATER SECURITY AND ENHANCING SUSTAINABLE USE OF WATER RESOURCES



\* Water security means availability of water in an acceptable amount and quality for ensuring health, livelihoods, well-being, ecosystems and production, together with an acceptable level of water-related risks to people, the environment and the economy.





## ROSNEFT: WATER CONSERVATION

Access to water resources and prudent management of fresh water ecosystems are critically important for people's health, environment preservation and sustainable development.

Rosneft takes efforts to ensure responsible use of water resources at all stages of the production cycle. The Company implements activities of the corporate **Environmental efficiency improvement program** and plans to upgrade production facilities, thereby reducing water draw-offs from natural sources, increasing the share of recycled and reused water, ensuring environmentally safe handling of produced formation water, and introducing state-of-the-art wastewater treatment systems.

**Sustainable use of water resources and their replenishment is one of Rosneft's priorities in the field of environmental protection.**

In 2023, the biological treatment facilities of the Ufa Refinery Group (part of Rosneft's refining complex) processed **22.11 mcm** of industrial effluents. Over **134 mcm of effluents** have been treated over the entire period of operation, since the facility was launched in 2018.

When implementing oil production projects, the Company improves efficiency of water management by injecting produced water or wastewater in order to reuse it and to maintain formation pressure and enhance oil recovery, thereby minimizing water withdrawal from surface water bodies.

**In 2023, the operating expenses of water management (intake, treatment, transportation and discharge of wastewater) amounted to about RUB 6.5 billion.**



## ROSNEFT: MEASURES TO CONSERVE AND RESTORE AQUATIC BIOLOGICAL RESOURCES

In 2023, **more than 48 million juvenile fishes were released into Russian water bodies.** The efforts of Rosneft and the Group's subsidiaries are aimed at replenishing water resources and increasing the population of high-end fish species.

In August 2023, Samotlorneftegas, one of the Company's key production assets, released **more than 7 million juvenile fishes of Siberian sturgeon, muksun and broad whitefish** into the Ob-Irtysh basin. This was the largest-scale replenishment of aquatic bioresources for the subsidiary over the past five years.

RN-Vankor ecologists released **more than 880,000 baby fish of the Yenisei sterlet population and more than 85,000 sturgeon juveniles** into the Yenisei River. Sterlet and Siberian sturgeon are rare fish species listed in the Red book of the Russian Federation.

Rosneft places great emphasis on the development of corporate environmental culture and responsible attitude of the Company's employees and contractors to the environment. **In 2023, more than 2 thousand volunteer events were held at Rosneft subsidiaries, in which 111 thousand employees took part.**

Employees of the Saratov Oil Refinery and students of industry-specific educational institutions take part in the city's environmental campaign "**Stop Algae!**". The plastic lids collected during the campaign are recycled, and **the proceeds are used to purchase juvenile fish of carp, silver carp and white amur.** These fish species clean the Volga from excessive vegetation, which is very important for the river ecosystem.



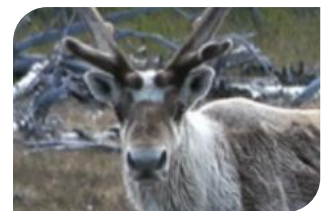
## PRESERVING ECOSYSTEMS: ROSNEFT'S EXPEDITIONS IN THE ARCTIC ARE THE LARGEST IN THE RECENT HISTORY

Since 2012, Rosneft has organized **50 large-scale comprehensive expeditions** dedicated to a thorough study of the Arctic, which included, among other things, study of bioindicator species: **polar bear, Atlantic walrus, reindeer and white gull**. Oceanological, hydrometeorological and ecological research is carried out in cooperation with the key scientific institutes of the country. The results of many years of work dedicated to studying the Arctic region are presented in a series of [environmental atlases](#) issued by Rosneft and Innopraktika.

In 2024, Rosneft launched a new **Arctic Biodiversity Conservation Program**, which will continue the Company's multi-year research work in the region until 2027. The Company's New program is being implemented **as part of the initiative of the Russian Ministry of Natural Resources and Environment "Business and Biodiversity"** of the national project **"Ecology"**.

The research will take place in the north of the Krasnoyarsk region. As part of the expeditions organized by Rosneft, specialists from Russia's leading scientific organizations will carry out an aerial survey of polar bears in the Kara Sea for the first time, monitor wild reindeer and study the fish of the Yenisei River estuary, as well as generate maps of the ecological sensitivity of the shores of the Yenisei Bay and the adjacent Kara Sea water area, assessing nesting sites of valuable bird species.

**Information on animal populations will allow scientists to draw conclusions about the state of their habitats and develop measures to preserve the biodiversity of the Arctic region.** Part of the work on studying animals of the northern regions is carried out by the Siberian Federal University.





## ADVANCED TECHNOLOGIES TO ENSURE ENERGY AND WATER SECURITY

Rosneft's Scientific and design complex is Europe's largest scientific oil and gas center, which incorporates **30 design and research institutes and 40 centers of excellence**. Rosneft is a leader of innovative changes in the Russian oil and gas industry. The Company undertakes systematic work to create its own technologies and software, introduces digital solutions, artificial intelligence and neural networks. These developments surpass foreign counterparts in many of their parameters.

Rosneft's scientific complex is implementing dozens of projects to produce new materials with unique properties (polymers, composites and products based on them), products based on biosynthesis technologies (thickeners and feed proteins capable of replacing organic analogs). Technologies for extraction of valuable components from produced formation fluid are being developed and tested.

The Company implements innovative projects aimed at developing technologies for treatment of marine pollution and land remediation. Rosneft holds patents for pure microorganism culture strains and microbial solutions for cleaning water areas and coastlines of the northern seas.

Rosneft implements innovative projects aimed at developing technical solutions designed to apply renewable energy sources for power supply to oil and gas production facilities, technologies and equipment for treatment and use of natural gas and associated petroleum gas, as well as for power generation purposes. The Company holds a number of patents.

**The total economic effect for the Company as a result of new technologies introduction is estimated at more than RUB 150 billion.**