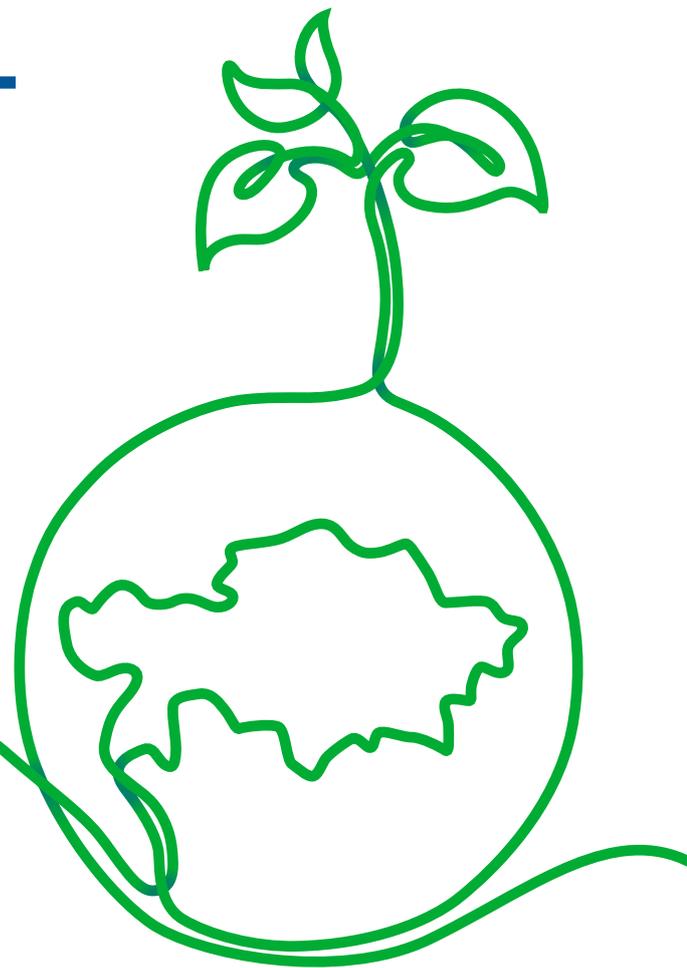




TENGIZCHEVROIL

**Overview of Environmental
Activities and Performance
in 2023**



2023



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KEY ENVIRONMENTAL PERFORMANCE INDICATORS FOR 2023



43%

LEVEL OF WASTE REUSE AND RECYCLING



96%

REDUCTION IN GAS FLARING SINCE 2000



45%

WATER REUSE LEVEL AT TCO FACILITIES

76%



REDUCTION IN EMISSION INTENSITY SINCE 2000



Amount of debris and wastes collected in the coastal zone of the northeastern part of the Caspian Sea:

>3 tons

of abandoned fishing nets

8 tons
of marine debris

1,1 tons
of plastic bottles



1616 hectares

of Tengiz field lands were reclaimed



MESSAGE FROM STEPHEN CONNER, TCO OPERATIONS GENERAL MANAGER



Dear readers,

Since its establishment in 1993, Tengizchevroil LLP (TCO) has been a prominent player in Kazakhstan's oil and gas industry and has emerged as a major global producer and supplier of hydrocarbons.

Our company has played a pivotal role in the economic development of Kazakhstan, while also prioritizing environmental sustainability by implementing innovative technologies, constantly improving our environmental performance, and preserving a favorable environment for future generations. TCO commitment to environmental protection is reflected in strict adherence to all mandatory requirements stipulated by international, state, and corporate documents. TCO has been implementing voluntary environmental initiatives for decades.

In 2023, TCO demonstrated strong performance consistent with TCO's values, which was made possible by the support of the Government of Kazakhstan, the trust of our shareholders and community, and the talent and dedication of our employees. Thus, record low emissions intensity and gas flaring volumes were achieved compared to 2000. TCO is committed to continuously improving its environmental performance. The numbers and facts in this brochure summarize our year 2023 results.

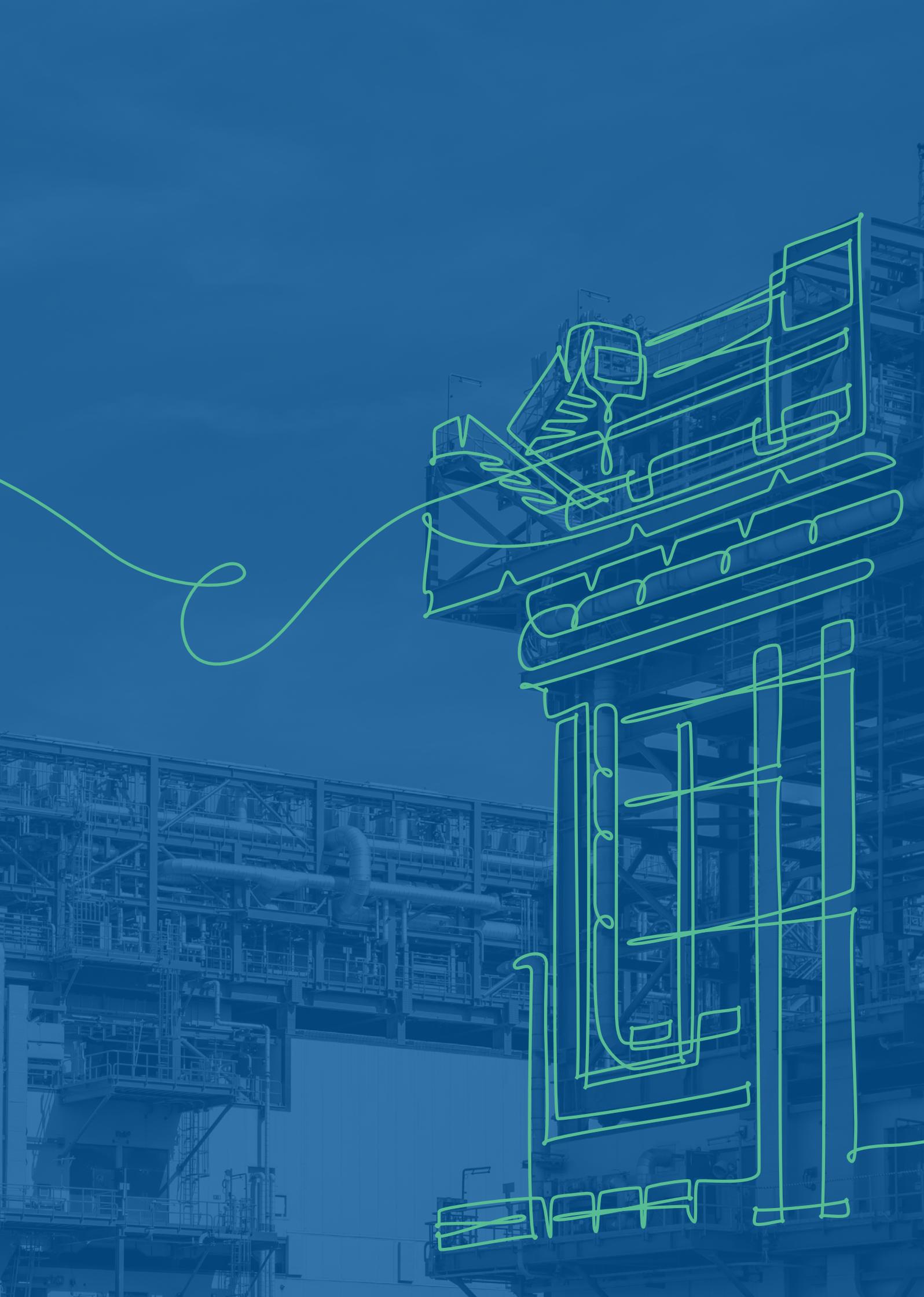
The year ahead is a significant year for both TCO and Kazakhstan as a whole. We are currently implementing two integrated projects simultaneously: the launch of the Third Generation Gas Plant and the Wellhead Pressure Management Project (WPMP) both part of our Future Growth. The activities in 2024 to complete these important and complex projects will entail new challenges, TCO will manage and safely overcome to ensure sustainable operations, energy reliability and our continued environmental stewardship.

The Company always strives to operate in a safe, reliable, and environmentally responsible manner. Therefore, TCO will continue to focus on environment by finding sustainable ways to reduce emissions and greenhouse gas, minimize water use, protect the subsurface and land, manage waste carefully, and generally increase environmental awareness.

We are proud that our Company is actively involved in initiatives aimed at protecting the environment. We believe that this is not only a responsibility for us but also a chance for us to make a positive contribution to the future of the Republic of Kazakhstan.

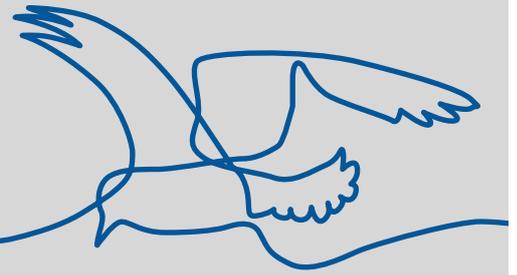
Tengizchevroil LLP is a venture that has been developing, producing, and marketing crude oil and related products since 1993 in Tengiz and Korolev fields of Atyrau region.





1.

ENVIRONMENTAL PROTECTION IS AN IMPORTANT ASPECT OF TCO'S OPERATIONAL EXCELLENCE MANAGEMENT SYSTEM



Tengizchevroil LLP considers health, safety, and the environment to be a core value

The **Operational Excellence Management System** helps to realize the values defined in TCO Way document. TCO goal is to be the world's safest, most efficient, and profitable oil and gas company, known for the professionalism of its employees, partnerships, and operational performance.

Employee health and safety, operational safety and environmental protection are of paramount importance to TCO. The Company aim for incident-free, injury-free operations, with a focus on preventing incidents with serious consequences.

TCO takes great care to ensure that reliable protective measures and controls are in place to prevent production failures that could cause serious harm to people and/or the environment.

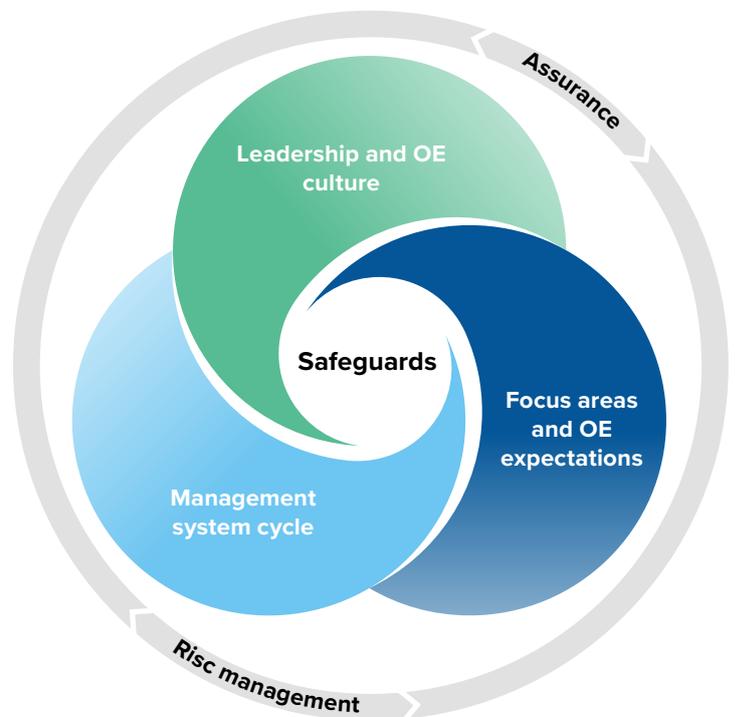


Fig. 1 Operational Excellence Management System



OPERATIONAL EXCELLENCE AIMS TO ACHIEVE THE FOLLOWING STRATEGIC OBJECTIVES FOR THE COMPANY AND ITS EMPLOYEES:

1. Eliminating incidents that result in serious injuries and illnesses as well as fatalities.
2. Eliminating high-risk incidents and operating with industry-leading reliability.
3. Assessing environmental risks and ensuring that they are managed and controlled.
4. Utilizing energy and other resources efficiently.
5. Preventing security and cybersecurity incidents.
6. Communicating effectively with stakeholders.

The Operational Excellence Leadership Team (OELT), which consists of the senior managers of all key departments and chaired by TCO General Director, is responsible for the implementation, maintenance, and continuous improvement of Operational Excellence. Operational Excellence has specific objectives and goals in six key areas, one of which is environmental protection.

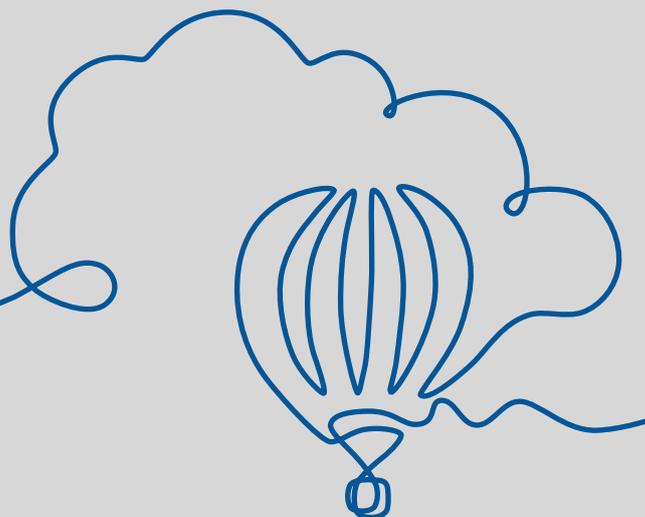
Environmental management is an all-encompassing strategy for safeguarding natural resources, reducing negative environmental impact, and promoting sustainable development. In order to achieve this goal, TCO OELT established a dedicated Environmental Governance Board which is composed of accountable leaders of TCO.

The Board's objective is to create and execute plans, initiatives, and activities that enhance the Company's environmental performance and promote sustainable development.

The Board convenes regularly to deliberate on matters related to the Company's environmental policy and operations, making strategic decisions that align with the values as outlined in TCO Way.

2.

AIR PROTECTION AND GREENHOUSE GAS EMISSIONS MANAGEMENT



In all its operations, Tengizchevroil endeavors to follow and achieve the values outlined in TCO Way: *“We conduct our operations in a socially and environmentally responsible manner, while also complying with laws and protecting the communities in which we operate.”*

TCO is committed to enhancing technology and growing capacity while simultaneously reducing our environmental footprint.

Air Emissions Reduction

2023 was a significant and unique year for TCO, as the Company achieved record low air emissions intensity and gas flaring volumes since 2000.

This remarkable accomplishment was facilitated by the constant improvement of the environmental culture among company employees responsible for the safe operation of production equipment, as well as several measures that were implemented to enhance the operational reliability of the equipment and reduce air emissions volume into the atmosphere.

For instance, during the 2023 KTL Plant Turnaround, we performed equipment and system inspections, replaced and modified equipment, piping, electrical and instrumentation, upgraded process control systems, and replaced outdated valve types with new ones, including:

— Upgraded pumping equipment at the Oil Stabilization Unit, which minimized regular blowdowns with inevitable flaring of crude gas.

— Redirected utilized desulfurized gas from the saturated amine separator to the sour water treatment unit. As a result, it was possible to reduce pressure in the utilized gas manifold.

— Replaced a bypass valve, which helped eliminate the risk of leaks and reduce sulfur dioxide emissions into the flue stack of the sulfur recovery unit.

— Replaced three sour gas compressors and the engine with new, more efficient compressors.

All these measures helped to increase equipment reliability and minimize potential gas flaring and air emissions volume due to unplanned shutdowns.

In addition, TCO introduced the following organizational and technical measures in 2023 to minimize air emissions:

- Revising equipment shutdown/start-up procedures during scheduled repairs, which optimizes equipment operation and reduces gas flaring time, resulting in lower air emissions volume.
- Revising procedures for the utilization of substandard products to increase the volumes of return to their production processes.

- Taking measures to reduce bypass time when production parameters are exceeded, resulting in lower air emissions.
- The phased replacement of the fuel gas with nitrogen in various equipment operation and maintenance processes at facilities such as the Field, Crude Tank Farm, and LPG Storage to reduce both pollutant and greenhouse gas emissions.
- Developing projects to upgrade equipment (engines, pumps, etc.) at TCO production facilities to be more energy-efficient and consume less energy, which will ultimately have a positive effect on reducing greenhouse gas emissions.

Since 2000, TCO has reduced total gas flaring volume by 96%. This significant reduction was achieved by ensuring equipment reliability, taking timely measures to optimize

equipment performance, and implementing other measures that resulted in a significant reduction in the gas flaring volume without adversely affecting production.

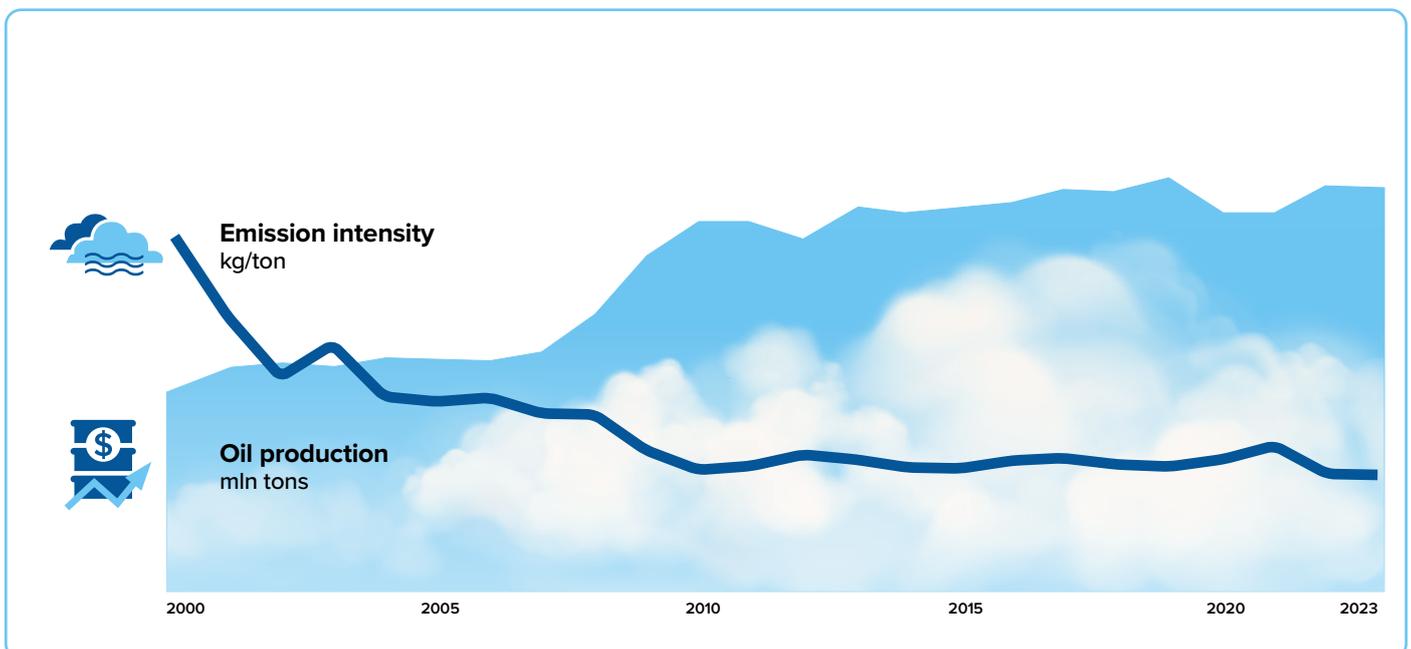
TCO has been investing in the environmental protection and effective management systems for the two decades. This has resulted reduction by 76% in the air emissions per ton of crude oil produced.

In 2023, TCO achieved the lowest level of air emissions intensity in its history, with the level of 2.03 kg/ton of crude oil produced.

However, TCO does not intend to stop complacent with this achievement and further aims to improve operating conditions in technological processes and increase equipment reliability.

The following graph visualize this indicator.

The lowest air emissions intensity since 2000





The successful implementation and launch of all FGP/ WPMP facilities will require serious technical readiness of TCO to restructure all technological processes of the Company's existing production facilities and commissioning of the new systems. This restructuring will inevitably be accompanied by additional emissions into the environment.

The anticipated air emissions increase in 2024 is mainly due to the rise in the share of technologically unavoidable gas flaring at the new facilities, which is necessary for the safe commissioning and continued uninterrupted operation. However, TCO is committed to take all possible measures to ensure that the project start-up is safe and has minimal environmental impact.

Greenhouse Gas Emissions Management

TCO supports the Republic of Kazakhstan's aspirations and initiatives to achieve carbon neutrality and

transition to a green economy. TCO is committed to reducing greenhouse gas emissions and has implemented various activities and projects to achieve this goal.

One of them is the replacement of natural gas with nitrogen blanket in the tanks at the Crude Tank Farm facility. This project entails constructing a nitrogen production unit and a new pipelines to supply nitrogen to the tanks instead of natural gas, which is used as a protective "gas blanket" layer. This project will help reduce methane emissions at the Crude Tank Farm to near zero.

TCO is committed to seeking opportunities to economically reduce greenhouse gas emissions from its operations while maintaining operational reliability and meeting its commitments to the Republic of Kazakhstan.

3.

ENVIRONMENTAL MONITORING



Environmental monitoring at TCO includes a comprehensive system for observing environmental conditions

Accredited environmental control laboratories with modern analytical equipment, software, and measuring systems implement the system of industrial environmental quality control. In addition to comprehensive air monitoring, TCO performs systematic environmental monitoring of groundwater, wastewater, and soil in the areas where it operates.

As part of this monitoring, samples are taken and analyzed for compliance with the established values of maximum permissible and background concentrations.

Air Monitoring



Air monitoring is a crucial component of TCO's Environmental Industrial Control Program. Continuous monitoring results are used for operational control of ambient air and rapid response when necessary.

TCO carries out several types of air monitoring within its area of operations and Sanitary Protection Zone (SPZ), as well as at personnel residences and in one of the nearest communities – Zhana Karaton village of Zhylyoi District.

Underplume monitoring is performed to assess the potential impact of emissions sources from TCO production facilities. TCO monitors the following areas near with operational flare stacks:

- 1 point upwind from the plants at 16 kilometers in all directions, except for the west (west direction point is 8-10 km based on the road access).
- 9 points downwind from the plants at distances of 0.5 km, 1 km, 2 km, 3 km, 4 km, 6 km, 8 km, 10 km, and 15 km respectively.

Air monitoring at the border of the sanitary protection zone. To assess the level of air emissions pollution and comply with the regulated norms, there are 11 mobile posts at the border of TCO SPZ. Continuous monitoring is recorded for the following constituents: nitrogen dioxide (NO₂), sulfur dioxide (SO₂), carbon monoxide (CO), hydrogen sulfide (H₂S), hydrocarbons (CH) and elemental sulfur (S). The measurements taken at the border of TCO SPZ in 2023 showed no exceedance of maximum allowable concentrations.

Air Monitoring at the air emissions sources is carried out at specially equipped sampling locations to ensure compliance with the established emissions limits.

The certified gas analyzers record the current parameters of the gas-air combination (temperature, speed, volume), in addition to the real time concentrations of carbon monoxide (CO), sulfur dioxide (SO₂), and nitrogen oxides (NO_x). This information is used to calculate the number of emissions.

Air monitoring at settlements and in Zhana Karaton. At TCOV, air samples are taken four times per day, while at Zhana Karaton village, samples are taken once per week. To date, air samples have not identified any impact on the air quality at designated villages.

Environmental Monitoring Stations at TCO Impact Control Boundary

TCO has a network of four Environmental Monitoring Stations (EMS) strategically located at the boundary of the Sanitary Protection Zone (SPZ) to monitor air quality indicators. These stations, equipped with state-of-the-art analyzers from the American company, “Thermo Environmental Instruments”, provide round-the-clock automatic measurements of air emissions pollutants including hydrogen sulfide (H₂S), carbon monoxide (CO), nitrogen dioxide (NO₂), methane (CH₄), and sulfur dioxide (SO₂), along with the meteorological parameters. Their placement at TCO’s impact control boundary ensures compliance with hygienic standards within the SPZ. Data from these four EMS are transmitted every 30 minutes to Kazhydromet RSE in the real time and is made publicly available through the AirKz mobile application and the Kazhydromet interactive map. This continuous data transmission provides open and unimpeded access to the most current data on air conditions at the SPZ boundary of TCO’s operational area.



Environmental Monitoring Stations within Operational Boundaries: In addition to the boundary stations, TCO has eight EMS within its operational area. This continuous monitoring ensures the safe operation of our production facilities and the protection of our workforce.

Groundwater Monitoring



Groundwater samples are collected from 136 observation wells located near the industrial facilities at Tengiz and Korolev fields, as well as from 11 background wells installed at a distance from the production facilities.

Monitoring of Soil

To comply with the current Environmental Industrial Control Program, TCO production facilities have 63 sampling points, including background sites, to monitor soil conditions. Soil samples are analyzed for heavy metals, petroleum hydrocarbons, pH, sulfur compounds, and other components using approved methods in laboratories accredited in accordance with the RoK legislation.



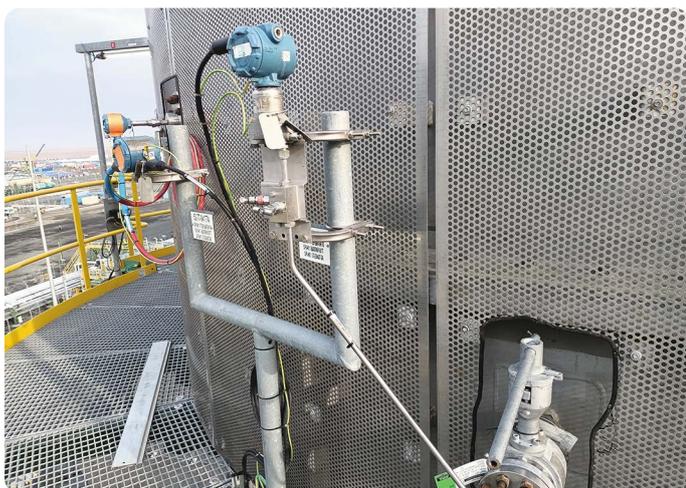


Wastewater Monitoring

TCO monitors wastewater on a regular basis to ensure compliance with established limits. Wastewater are monitored at the wastewater treatment facilities, evaporation ponds, and prior to discharging into water injection wells. The sampling frequency and analysis comply with the approved program and schedules for analytical control.

All environmental monitoring is performed in compliance with the environmental regulations, and monitoring data is included in TCO's Environmental Industrial Control Program reports, which are submitted to the controlling authority.

Automated Emission Monitoring System (AEMS) at the Air Emission Sources of Production Facilities



TCO actively supports the RoK's initiative to implement an Automated Emissions Monitoring System (AEMS) at the air emission sources of production facilities.

As part of the AEMS project, engineering design has been completed at stationary sources in accordance with the requirements of the AEMS Rules.

To date, pre-construction and installation of nozzles and instrumentation, as well as work on the delivery of analyzer systems are underway as part of planned shutdowns of production facilities. Technical work to develop a portal for real-time integration and data transfer to RoK authorized bodies is in progress.

Construction and installation work for analyzer systems at five gas turbine stations of the Third Generation Plant have been completed within the framework of FGP/WPMP. These includes the installation of additional nozzles, power supply and equipment control cables, wireless communication systems, and analyzer cabinets with all component equipment. Commissioning work is currently on schedule according to the plan.

The timely completion and full implementation of AEMS at TCO facilities depends on sophisticated engineering solutions, timely delivery of required equipment, and coordination of unscheduled process unit shutdowns to mitigate production and personnel safety risks.

TCO is implementing an AEMS Roadmap for 2022-2024 at the air emission sources of TCO production facilities in agreement with the Committee for Environmental Regulation and Control of the Ministry of Ecology and Natural Resources of the Republic of Kazakhstan.

Currently, all activities are in line with the schedule and are on track.



4.

RATIONAL USE OF WATER RESOURCES

Water is indeed one of the most valuable resources on the Earth. The rationing of water within TCO is a strategy aimed at reducing water consumption and increasing the efficiency of wastewater processing to conserve resources and protect the nature.



TCO is implementing several strategies aimed at reducing water consumption from the main water pipeline.

Local closed recycling and water reuse systems are in place at existing facilities to conserve fresh water and reduce wastewater discharges. Additionally, organizational measures are in place to ensure the rationing of water resources.

Water Treatment, Recycling and Reuse

In Tengiz, treated domestic wastewater from the Waste-water Treatment Facility (WTF) is sent to the Water Recycling Facility. There it undergoes further treatment through reverse osmosis to meet the process water quality standards required for the plant facilities' production needs. Additionally, water from treatment process is also reused for production purposes.

TCO reuses non-contaminated water generated from dewatering operations as part of the construction of facilities strategy. It is used in hydrotesting of pipelines, vessels, apparatuses, and tanks as part of the FGP/WPMP.

During the warm season, after backwashing of filters at the WTF, the resulting clean process water is reused for irrigation of the green areas at the rotational camps.

45%

In 2023, TCO was able to reuse 45% of its water.



The new facilities are expected to be commissioned in 2024. Accompanying the startup of the new facilities, hydro-testing of tanks, startup and operation of process plants, steam generators, gas turbines, boilers, fire system and tank filling and inspections are projected to increase the volume of wastewater injected into the subsurface. The project “*Modernization of surface equipment of the wastewater injection system*” is being implemented to achieve these injection volumes.

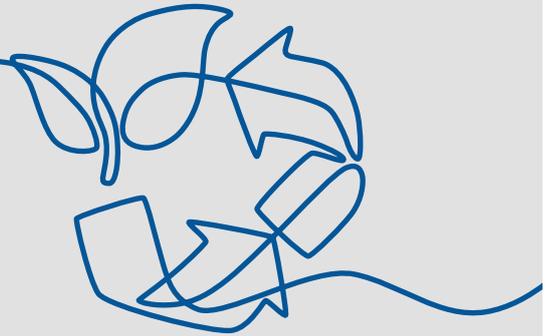
Water Conservation Campaign

TCO regularly executes awareness campaigns to improve the culture of water conservation and rationing of water by TCO and its contractor employees. This is achieved by the distribution of newsletters, installation of low water consumption equipment, and the installation of metering devices all of which enable the conservation of water resources.

A good example of the effectiveness of an enhanced water consumption metering system is the decrease in water consumption loss in Tengiz camp. This is a result of the installation of a remote water monitoring system and modifications to the distribution pipeline.

5.

EFFECTIVE APPROACH IN WASTE MANAGEMENT



TCO implements a production and consumption waste management system based on generally accepted environmentally friendly waste management technologies, in accordance with the RoK legislation and Chevron standards

TCO is committed to safe waste management while promoting waste minimization and increased recycling and reuse.

For 2023, the Company's operations and related infrastructure generated of 56 different types of waste, 41 types were recycled and disposed of by the Company and third parties.

The reuse and recycling rate of waste was 43% in 2023. This is the result of the successful execution of the company's waste minimization program.

TCO has been steadily decreasing waste disposal volumes. This has been done by implementing a waste management system and consistently exploring,

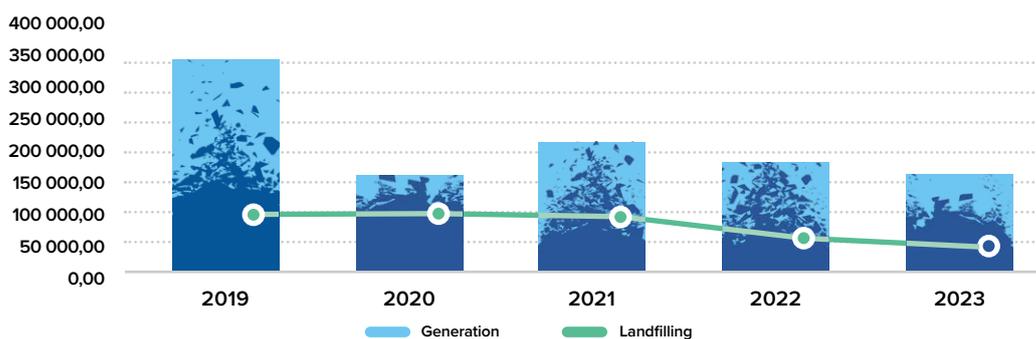
recycling and reuse options while minimizing waste generation.

The diagram below shows the volume of waste generation versus the amount of waste landfilled for the past five years.

43%

The reuse and recycling rate of waste was 43% in 2023

The amount of waste generation compared to the amount of waste landfilled, tons



Give the Waste a Second Life

The principles of prudent consumption and reuse of materials are actively applied in Tengiz field. TCO implements various measures to give waste a second life, taking into account the importance of increasing the life cycle of materials.

Spent Oils

Waste oils generated as a result of the Company's production activities are collected separately by type in accordance with the requirements of the national standard. Separated waste oils are transferred to a specialized company for recovery.

Food Wastes

TCO has implemented a separate collection of food waste to reduce landfill gas generation and complying with the RoK legislation. The collected food waste is sent to a contracted company for processing, resulting in the production of fertilizers and industrial water. The contractor company uses the water for its own needs, while the fertilizers are transferred on request to local peasant farms to enhance soil fertility.

Spent Batteries

The used batteries are collected separately and transferred to a full-cycle enterprise in Kazakhstan through a contracting organization. There, the electrolyte is neutralized, lead is extracted, and the casings are shredded. The recovered lead is remelted and used to make new plates. The plastic from the casing is used as secondary material.

Oil-based Drilling Waste

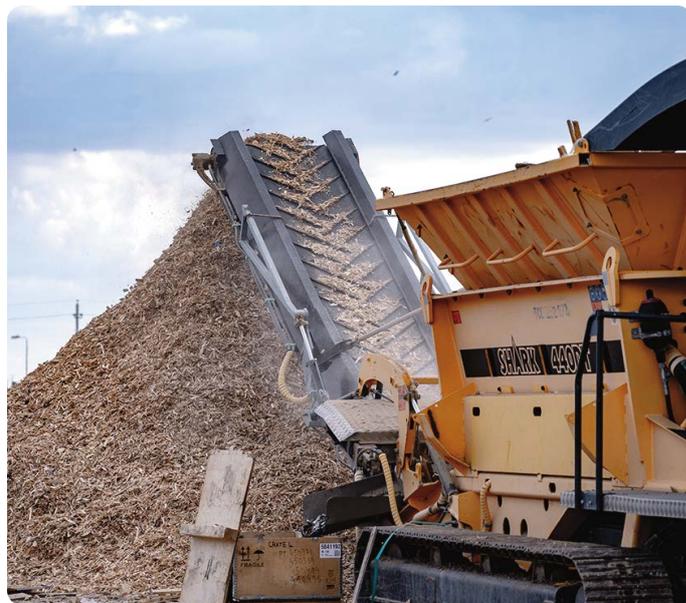
The Company is effectively implementing a method for separating oil-based drilling waste. The recovered oil is reused to produce drilling muds, the separated water is used in well drilling, and the solid residue is sent for bioremediation.

Polychlorinated Biphenyls (PCBs)

In 2022, TCO managed to safely transfer of PCB-containing waste to a contractor's warehouse for temporary storage in a RoK-compliant manner. The contractor then transported the waste to Belgium for disposal.

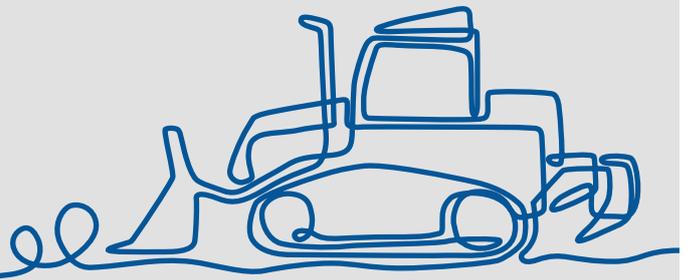
In January 2023, TCO received the supporting documents for the destruction of this waste at the plant in Belgium.

This initiative not only enabled the Environmental Department to comply with the RoK legislation, but also made TCO one of the first companies in the country to safely dispose of PCB-containing waste, reaffirming the company's commitment to the environment.



6.

LAND RECLAMATION



Reclamation is the process of restoring disturbed land for a specific purpose. This includes the adjacent land that has lost some or all its value due to the negative effects of the disturbed land. The goal of land reclamation is to improve environmental conditions and ensure effective land use

During the field development, construction, and installation works, the soil cover's integrity is often disturbed, leading to the formation of spontaneous waste dumps, soil storage and borrow pit excavation.

In order to mitigate the negative consequences, the RoK legislation requires the initiator of economic activity to implement a number of measures for environmental protection, landscape improvement and rational use of land resources. One measure taken is the reclamation of disturbed land.

As part of the Field Site Remediation Project (FSRP) in 2023, remediation was conducted on sites. Three sites, totaling 1.4 hectares, underwent remediation.

As part of implementation of Reclamation Projects for Base Business lands and lands disturbed during the construction of the Future Growth Project (FGP), the total area of land reclaimed amounted to:

724 hectares

Base Business

891 hectares

Future Growth Project (FGP)

As a result, TCO has fulfilled the requirements of the environmental legislation, also improving the environmental performance of the Tengiz field.



7.

PROTECTING BIODIVERSITY



TCO considers the protection and conservation of biodiversity to be an essential component of its responsible business practices

As the foremost producer of oil, gas, and related products in Kazakhstan, TCO is committed to preserving biodiversity in the regions where it operates.

We conduct research and monitor the state of biodiversity in Tengiz to identify potential risks and take prompt action to prevent any negative impacts on natural ecosystems.

In 2023, TCO implemented a nesting bird management program during the breeding season. The program aims to protect nests and mitigate the risk of delayed commissioning in case a nest is found on critical equipment or facilities. If active nests are detected at the Company's facilities, protective measures are implemented until the chicks are safely fledged.

Protecting Endangered Birds

As part of the implementation of FGP, in 2018 TCO began funding an environmental project to improve the nesting success of the sociable plover.

This bird species nests almost exclusively in the steppes of Central Kazakhstan and is on the verge of extinction. It is listed in the Red List of the International Union for Conservation of Nature and the Red Book of the RoK.

The conservation project aims to track the migration of sociable plovers using satellite technology. This has led to the discovery of new nesting and wintering sites for the birds, as well as previously unknown migration

routes. The data obtained provides new insights for ornithologists to better comprehend the migration patterns and habitat requirements of this species. The project's findings will be incorporated into the conservation plan for this species in Kazakhstan and beyond.



8.

TRAINING AND AWARENESS RAISING



The process of employee development in environmental protection and culture is a prerequisite for the successful management of environmental aspects in the company

TCO employees receive annual environmental training in a variety of areas, domestic and international, to keep abreast of changes in environmental legislation and global practices.

Continuous Improvement

In 2023, TCO employees received specialized training in Almaty and Astana on the following subjects:

- Innovations of the Environmental Code in 2023.
- Legal standards for companies considering the requirements of the Environmental Code.
- Introduction of Green Technologies and Automated Monitoring System.
- State regulation of greenhouse gas emissions and absorption.
- Improvement of the waste management system and review of modern technologies for waste treatment and recycling.
- And other current issues related to environmental protection.

In June 2023, environmental personnel participated in a world-class training on corporate reporting on air emissions and greenhouse gas emissions.

Program to Raise Environmental Awareness of School Students in Zhylyoi District

In 2023, TCO implemented the “Program on Environmental Awareness of Students in Zhylyoi District” and held lectures on ecology for students of 8th–11th grades of ten schools.

The goal of the program is to promote environmental awareness and encourage a responsible attitude towards the world among future generations.

TCO specialists presented information to students about the flora and fauna of Kazakhstan and Zhylyoi district, in particular.

The lectures covered the topic of “Air protection”. The Company's employees presented information on





The lectures also covered international environmental initiatives, water treatment and reuse, and environmental protection measures.

School students showed interest in the lectures and participated in discussions and quizzes.

After receiving the information, the participants shared how they can contribute to environmental protection at home, school, and on the street.

This program has shown positive results, and TCO intends to continue this initiative.

Awareness raising activities under the “Sociable plover Conservation Project” by the Kazakhstan Biodiversity Conservation Association (KBCA)

atmospheric air pollution sources, air quality control through monitoring, and demonstrated the operation of automated air monitoring stations using TCO as an example.

The importance of waste reduction was discussed: students were introduced to the existing opportunities for waste reduction, recycling and reuse using the example of Tengiz field.

The Kazakhstan Biodiversity Conservation Association (KBCA) organized various activities to raise awareness of conservation efforts as part of the “Sociable plover Conservation Project” Lessons and seminars, as well as the festival, were held in the Akmola region. The events provided an engaging and informative way to learn about the sociable plover, the threats they face, and the ongoing research aimed at conserving the species.



9.

ADDITIONAL ENVIRONMENTAL PROTECTION MEASURES AND INITIATIVES



Ural-Atyrau Sturgeon Hatchery Support

Since 2017, the company has continued to implement a program to preserve the sturgeon family by providing support to the Ural-Atyrau sturgeon hatchery plant.

The program aims to steadily reduce the number of adult sturgeons removed from the wild, increase the number of returning breeding stock to the sea, and release sturgeon fry into the Ural River.

TCO provides support of organizing technical seminars to improve the qualifications of plant employees; aerators are purchased to control oxygen in special artificial ponds; an excavator is used for external dredging; winter and summer water coolers are provided for pools with closed water supply; high-quality feed is provided for juvenile and breeding fish, which fully meets the nutritional requirements of sturgeon fish, as it is a well-balanced diet developed taking into account the latest scientific achievements in the field of aquaculture. In 2023, TCO supplied 3.5 tons of feed to the plant. Over the past six years, a total of more than 21.7 tons has been supplied.



This has resulted in a significant weight gain for the sturgeon breeding stock and juveniles, which is an important indicator of the success of this program.





Ghost Net and Marine Debris Removal

Since 2017, TCO and the Institute of Hydrobiology and Ecology have been implementing a project to collect abandoned fishing nets and other marine debris from the Kazakhstan part of the northeastern Caspian Sea.

The project aims to protect and reduce the mortality of endangered species, specifically the Caspian seal and sturgeon family of fish.

An expedition conducted in September 2023 resulted in collecting over 3 tons of abandoned fishing nets and 8 tons of other marine debris, including 1.1 tons of plastic bottles, from the coastal zone of the northeastern part of the Caspian Sea. A total of 900 abandoned fishing nets, weighing over 26.5 tons, and 19 tons of the other marine debris were recovered. Additionally, more than 500 square kilometers of the Caspian Sea were cleaned, and 53 live sturgeon and 15 seals were released into the sea. The results of the project are regularly published in various scientific articles and presented at seminars on the protection and conservation of biodiversity in the Caspian Sea with the support of TCO.

Supporting the Roadmap for Integrated Solution of Environmental Issues in Atyrau Oblast

Implementation of research works to assess the state of atmospheric air in the settlements of Zhylyoi district, adjacent to the facilities of Tengizchevroil LLP.





TCO carried out research and development to assess the air quality in the settlements of Zhylyoi district as part of the implementation of the Roadmap for the Integrated Solution of Environmental Issues in Atyrau Region.

These studies were carried out by the Republican Scientific and Research Centre for Atmospheric Air Protection in 2023.

The study analyzed historical data of TCO and RSE Kazhydromet air monitoring results for the past five years. Additionally, an air monitoring program was developed for the settlements of Zhylyoi district, including Kulsary town, Zhana Karaton village and Kosshagyl village. Sampling and laboratory analysis of air samples were also performed near the boundary of

the sanitary protection zone of TCO at Tengiz. Sampling was conducted for nine pollutants during both warm and cold seasons. A total of 3,100 atmospheric air samples were collected and analyzed throughout the research period. This included 1,026 samples from Kulsary, 700 samples from Kosshagyl village, 692 samples from Zhana-Karaton village, and 682 samples from the border of the sanitary protection zone of TCO.

According to the results of the studies, the level of content of controlled substances in the surface layer of the atmosphere in most cases not only did not exceed the established limit emission, but also was below the detection limits of the measurement techniques used. Laboratory analyses of the collected samples showed insignificant exceedances of the established standards for several pollutants in Kulsary city, in other sampling locations the quality of atmospheric air complies with the standard. Based on the results of these studies, it can be concluded that the environmental situation in the study area is favorable, especially in the area where TCO production facilities are located, as noted in the report. The report on this study was submitted to Department of Ecology of Atyrau Oblast.

TCO Initiatives in Support of the World Cleanup Day

TCO participates annually on the environmental event “World Cleanup Day”, which takes place in many countries of the world in September. The event aims to unite the efforts of the large community, government, and business organizations to clean up areas of garbage and maintain sustainable cleanliness.

Joining efforts of TCO employees to support this campaign and cleanup along the embankment of Zhaiyk (Ural) River has already become a tradition. Last year, volunteers were managed to collect one ton of garbage.

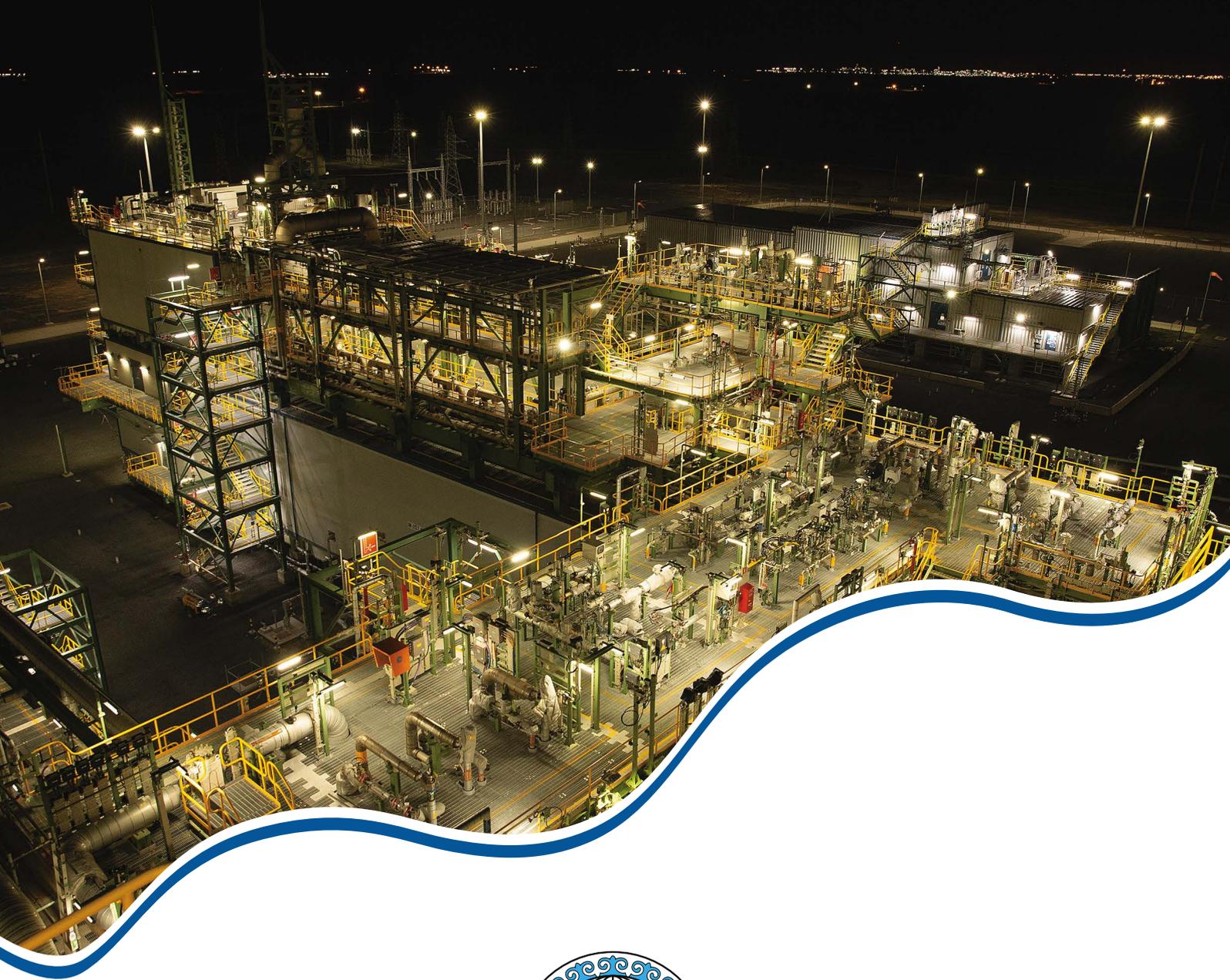


At Tengiz, employees of TCO Base Business, FGP, and several business partners, including Velesstroy and Novus Bolashak, organized clean-up days at production facilities and in residential camps. The combined efforts of about 200 employees carried out clean-up days at 3GP (Third Generation Plant), 3GI (Sour Gas Injection), KTL, the Aspan camp, and along a four-kilometer stretch of the Caspi road, following the spirit of One TCO.

This demonstrates TCO's and its business partners' commitment to environmental stewardship and care. The Company's employees always respond with enthusiasm to these events.

This response is a clear indication that even small efforts can lead to confident steps towards environmental best practices, such as waste sorting, energy saving, reducing the use of plastic bags, and cleaning up trash in places of work and leisure. These practices will help us all move in the right direction and make a significant difference.





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