

ZAPSIBNEFTEKHIM



Dmitri Mendeleev, who was born in Tobolsk, used to say:

"To burn crude oil is the same as to burn money in a stove."



About ZapSibNeftekhim

ZapSibNeftekhim will become the largest state-of-the-art petrochemical complex in Russia. The project is subject to construction of an Ethylene Cracker Unit with capacity of 1.5 million tonnes of ethylene, about 500 thousand tonnes of propylene and 100 thousand tonnes of butane-butylene fraction (BBF) per annum, and units for production of various grades of polyethylene and polypropylene, to a total capacity of 2 MTA.

Implementation of the ZapSibNeftekhim project is focused on expansion of deep conversion of significant quantities

of by-products from oil and gas production in Western Siberia, including associated petroleum gas, as well as import substitution for the polymers most in demand in the Russian market.

ZapSibNeftekhim will be part of the Tobolsk Industrial Site that already combines the operating plants, Tobolsk-Neftekhim and Tobolsk-Polymer.

ZapSibNeftekhim is a logical stage in the development of SIBUR in the Western Siberia region.

In the recent 10 years, the gas fractionation capacity of Tobolsk-Neftekhim has been significantly expanded,

a NGL line from Purovsky GCPP to Tobolsk-Neftekhim has been built, the throughput capacity of Denisovka unshared station of Sverdlovsk railway has doubled.

ZapSibNeftekhim Complex envisages employment of up-todate advanced technologies in the field of raw hydrocarbons conversion and logistics which will make it possible to ensure reliability, safety and efficacy of the investment project. Total area of the ZapSibNeftekhim Construction Site 460 ha

736 football grounds



By the beginning of the implementation of ZapSibNeftekhim project, a NGL line from Purovsky GCPP to Tobolsk-Neftekhim had been built, the gas fractionation capacity of Tobolsk-Neftekhim had been significantly expanded, and the throughput capacity of Denisovka unshared station of Sverdlovsk railway had doubled.

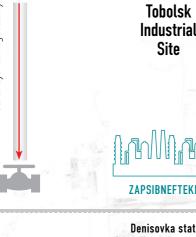
Western Siberian Petrochemical Cluster



ZapSibNeftekhim: Project relevance

The amount of light hydrocarbons converted into petrochemical products with high added value becomes significantly greater.

Cost for transportation of intermediate products reduces.. Phasing out of imported polypropylene and polyethylene is ensured.



CENTRAL GAS FRACTIONATING UNIT 2

10 km from the town

Industrial



2020

of NGL







of deep product



TOBOLSK-POLYMER

2015



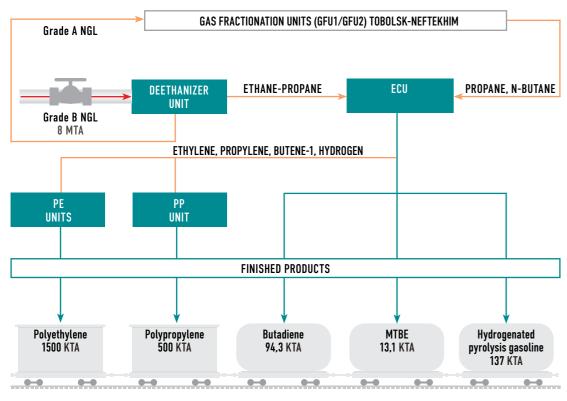
→ 0.5 million of polymers



of deep conversion product



Production Configuration



Denisovka station



Basic Technologies

ECU

technology **LINDE**



Within the limits of Litvinov (Czech Republic)

technology owner LINDE, Germany

EP contractor LINDE, Germany

PE Units

technology
INNOVENE G/INNOVENE S



Within the limits of Cologne (Germany)

technology owner INEOS, Great Britain

EP contractor **TECHNIP, France**

PP UNIT

technology **Spheripol**



Within the limits of Płock (Poland)

technology owner **LyondellBasell, Netherlands**

EP contractor

ThyssenKrupp, Germany

Up-to-date technologies guarantee the closed-loop utilization of resources, energy efficiency, minimum quantity of raw materials for maximum quantities of the product, and minimum waste generation.

Construction quantities

16.000
workforce on site during the peak period of construction

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513.000 m³ of concrete (including precast concrete « 67 thousand m³)



9.831 km of cable

The approximate distance between Moscow and Magadan.

1.300 km of piles (more than 99.000 pcs)



1.400 km of overhead pipelines



102.000 tonnes of steel structures

This quantity would be enough to erect 50 radiotowers, 350 m high.

Areas of application of polymeric products

SIBUR

After ZapSibNeftekhim is put into operation

Polyethylene 1500 KTA Polypropylene 500 KTA

CONVERSION COMPANIES

Producers of polymeric products

FINISHED PRODUCTS

Areas of application of polymeric products



Medical products



Containers



Film



Parts for vehicles



Construction materials



Cable products



Hygienic products



Industrial Safety Policy



The maximum Industrial Safety solutions have been adopted in the plant's design



Personal responsibility of each employee



It takes only one button to press to stop the plant

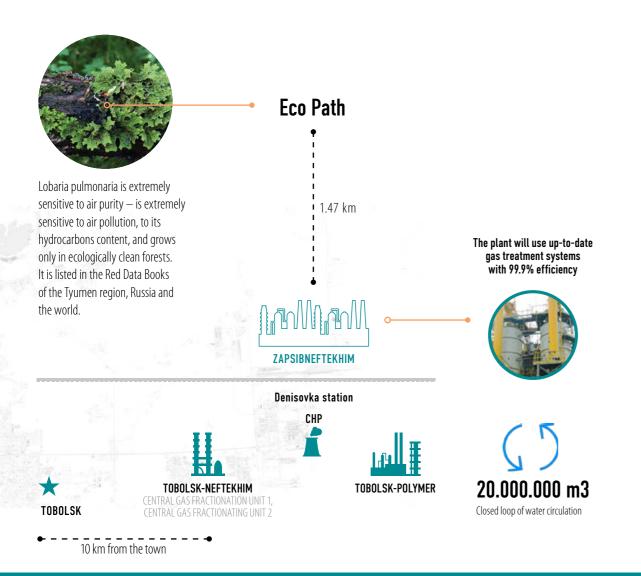
- HAZOP
- Sealed equipment
- 100% capacity redundancy
- Production automation
- Protected premises for workplaces
- Soil protection
- Automated control, interlocks

- Emergency response plans developed
- Multistage monitoring
- Personal protection equipment
- Process hazards analysis
- Safely designed processes
- Training and drills
- Mechanical integrity management





Environmental Protection





DACTYLORHIZA MACULATA. Orchidaceae family, Orchids
Scarcity category II. Red Data Book of the Tyumen Region Listed in the Red Data Books of Ukraine,
Latvia, Tatarstan, and Moscow Region. It grows on the Eco Path near the Tobolsk Industrial Site.

During clearing of the site, a pine tree was kept intact by the construction contractors at its north-west end. Having checked against the construction plan that it was not an obstruction to anything, they decided to keep the full-grown beautiful tree.

Environmental monitoring tools





During the plant construction and operation phases, regular environmental audits are carried out involving an independent observing consultant.

The following are regularly performed under the Environmental Monitoring Program:



A monitoring lab:



Vegetation condition monitoring



Quality of water supply and sewage



Ambient air quality



Wildlife monitoring



Noise level

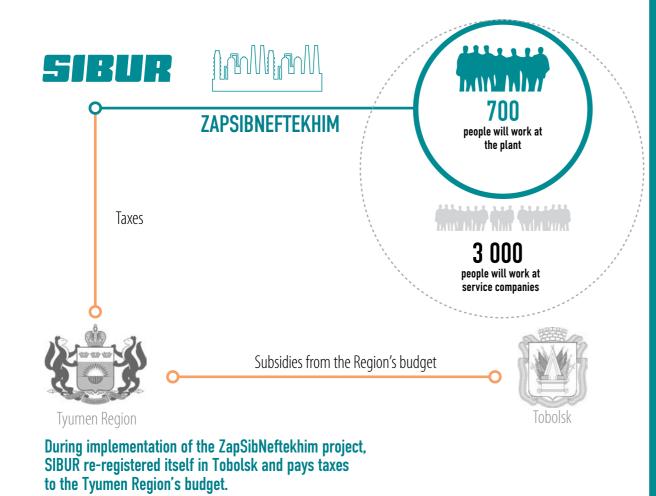


Ambient air monitoring



Waste handling

Social importance of the protect





The Kremlin of Tobolsk, 17th century

SIBUR and Tobolsk: long-term partnership

SIBUR is building strong and trusted relationship with the administration of the region and the town. The company has recently agreed an extension for another 10 years (up to year 2024) of the tripartite investment agreement between the Government of the Tyumen Region, the Administration of Tobolsk, and SIBUR, under which the Holding being supported by the region's and town's authorities has performed a major modernization and extension of the Tobolsk Site.

The Tobolsk Industrial Site is the largest production complex of SIBUR. It accommodates Tobolsk-Neftekhim and Tobolsk-Polymer plants, a large railway hub Denisovka station that handles the bulk streams of raw materials and finished products of the Site. In 2014, SIBUR finished construction of the linear part of the product line from Purovsky GCPP to Tobolsk-Neftekhim.

The ZapSibNeftekhim project under construction will strengthen the status of Tobolsk as the center of the Western Siberian Petrochemical Cluster and one of the largest industrial centers of the country.

16/1 Krzhizhanovskogo Str., Moscow 117997

Tel.: +7 (495) 777-55-00 Fax: +7 (495) 777-55-00

Industrial Area, Tobolsk, Tyumen Region

Tel.: +7 (3456) 397-823

www.sibur.ru