Gas and Petrochemical Complex of the Republic of Tatarstan in figures







Characteristics of Gas and Petrochemical Complex of the Republic of Tatarstan

Development potential of small and medium-sized businesses

Innovative potential

Program development



Characteristics of Gas and Petrochemical Complex of the Republic of Tatarstan

The petrochemical complex is one of the key sectors in the economy of the Republic of Tatarstan



Average for 2018-2022 *Average for 2017-2021



Crude Oil and natural gas production

<u>Tatneft</u>

Small oil production companies

Nizhnekamskneftekhim <u>Kazanorgsintez</u> Ammoni Nizhnekamsktechuglerod Nefis Cosmetics Tatchempharmpreparaty Chemical Plant named after L. Karpov Egida + Tathimplast August- Alabuga Agruskhim-Alabuga Transneft-Synthesis

Key Companies of Gas and Petrochemical Complex of Tatarstan

Manufacture of chemical products and medicines Manufacture of rubber and plastic products

Oil Processing

Nizhnekamskshina Nizhnekamsk All-Steel Tyre Plant Danaflex I-Plast **KVART** NOVAROLL separate subdivision in Kamskiye Polyany Tehstroy SafPlast Kamsky Plant of Polymeric

Kamsky Plant of Polymeric Materials

Tatneft-Presskompozit

<u>Polymatiz</u>

<u>Zaryad</u>

Click on the company name to visit its website

Main results for 2023

Crude oil and natural g	jas production
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Oil production volume

Revenue

Sales profit*

256,7
mln. bbl
18,4 bln.USD
4,1 bln.USD

Oil processing

Growth rate, in % to 2022

The volume of shipped products

102,4%

11,7 bln.USD

	Manufacture of rubber and plastic products	
95%	Growth rate, in % to 2022	102,4%
5,6 bln.USD	The volume of shipped products	2,7 bln.USD
1,3 bln.USD	Sales profit*	0,34 bln.USD

Manufacture of chemical products (excluding medicines)

Growth rate, in % to 2022

The volume of shipped products

Sales profit*

Production of main products of Gas and Petrochemical Complex in Tatarstan

	2023		% by 2022	% by 2013
Produced oil	256,7*	mln. bbl	99%	107%
Diesel fuel	11 508,3	k t	101%	growth by 5,4 times
Motor gasoline	3 203,2	k t	111%	growth by 4,9 times
Plastics in primary forms	1 615,6	k t	94%	103%
incl. ethylene polymers in primary forms	820,2	k t	88%	92%
Paints and varnishes	33,2	k t	109%	93%
Industrial sulphur	277,4	k t	97%	growth by 6,2 times
Detergents	192,3	k t	83%	113%

Source: Tatarstanstat

*According to the press service of the Rais of the Republic of Tatarstan

The share of the Republic of Tatarstan in the sectors of the Gas and Petrochemical Complex of Russia

share in the shipping in 2023



*Average for 2022

More than 2 trillion rubles of investments have been invested in the Gas and **Petrochemical Complex of the Republic of Tatarstan for 25 years**

Investments into equity



large and medium-sized enterprises, bln rub.



Production index 2023/1999 Crude oil and natural gas growth by 1,4 times production* Coke and growth by **4,9** refined products Chemicals and chemical products growth by (incl. pharmaceuticals) Manufacture of rubber growth by **5,5** products Manufacture of plastic growth by products

The share of oil refining, the production of rubber and plastic products in the structure of the petrochemical complex of the Republic of Tatarstan is increasing

Structure of Gas and Petrochemical Complex of the Republic of Tatarstan



Development potential of small and medium-sized businesses in Gas and Petrochemical Complex of the Republic of Tatarstan



Resource potential for the implementation of new petrochemical projects in the Republic of Tatarstan



Innovative potential of the petrochemical complex of the Republic of Tatarstan

72% of industrial innovations in Tatarstan are created by enterprises of the gas and petrochemical complex

Expenses involved in innovation, mln USD



of mining

3 000

The Republic of Tatarstan has a wide scientific and educational infrastructure in the field of petrochemistry

Academy of Science of the Republic of Tatarstan

Volzhsky Research Institute of Hydrocarbon Raw Materials

A.E. Arbuzov Institute of organic and physical chemistry

TATNIPINEFT Institute

Soyuzkhimpromproject Design Institute

Kazan Federal University

Kazan National Research Technological University

Kazan National Research Technical University

Kazan State Power Engineering University

Kazan State University of Architecture and Engineering

Coordination of scientific activity and international cooperation in Russia and in the world

Scientific work in the field of production & consumption of hydrocarbons

Physical-chemical and chemical-biological research

Scientific support of oil production sector of the Republic of Tatarstan

Project development of chemical production

Scientific and educational activity in the field of oil production, chemistry and ecology

Scientific and educational activity in gas and petrochemical industry

Development of composite materials and structures of petrochemical feedstock

Optimization of chemical and technological processes, novels material characterization

Development of application technologies of chemical materials in construction industry

TATNEFTEKHIMINVEST-HOLDING coordinates the development of the petrochemical complex of the Republic of Tatarstan

Support for companies

assistance in the implementation of investment and innovation projects

Planning development of strategic documents and strategic decisions

Provision of raw materials

assistance in solving issues of raw materials supply

Attracting projects

search, evaluation and attraction of technologies and companies for the implementation of projects in the Republic of Tatarstan

Cooperation development of cluster connections

Communications

organization of conferences and round tables

Scientific and Technical Council of AO Tatneftekhiminvest-Holding promoting developments

informing the enterprises about new solutions in the field of oil production, refining, petrochemistry

obtaining an expert opinion from representatives of the state, science, and business

presentation of the most promising projects to the Board of Directors of AO Tatneftekhiminvest-Holding







Program development of Gas and Petrochemical Complex of the Republic of Tatarstan



Integrated development of Gas and Petrochemical complex industries is provided within the framework of the program-targeted approach



Priority areas for the development of chemical technologies and products in the Republic of Tatarstan Olefins and the

olefins and their derivatives

Methylchlorosilanes and their processing

new types of rubbers and rubber products: *ethylene propylene diene monomer(EPDM) styrene-ethylene-butylene-styrene rubber (SEBS)*

thermoplastic elastomers based o n reactor olefins (r-TPO)

hydrogenated acrylonitrile-butadiene rubber (HABR)

silicone rubber(VMQ) fluorosilicone rubber(FMVQ) epichlorohydrin rubber (ECO)

chloroprene rubber(CR)

Products of fine chemical industry including:

products for the production and processing of rubbers and plastics

super engineering plastics chemical products production by the process of extraction and use of supercritical fluids;

ultra-high molecular weight polyethylene and its composites maleic anhydride processing products



Epoxy and other synthetic resins



Carbon fiber and carbon fiber-based composites



Processing of natural gas into chemical products, including olefins, aromatic products, feed protein (haprin)



Linear alkylbenzenes



Biodegradable polymers and composites



Polyurethanes and raw materials for their production: *ethylene and propylene oxide isocyanates*



Deep grain processing

Projects that were implemented during the 5th GPCC Programme of 2020-2024

TANECO: heavy coker gasoil hydrotreating, middle distillate hydrotreating, extractive distillation with sulfolane
Kazanorgsintez: polycarbonate (extension, stage 1)
Nefis Cosmetics: liquid detergents, synthetic detergents, soap (extension)
TatkhimPlast: compounds (extension)
Danaflex: Recyclable Barrier Materials oriented polyolefin films
KNT-Plat: PVC plastic compounds and film
Agruskhim-Alabuga: plant protection agents
Tatneft Alabuga-Glass Fiber: fiberglass, glass mesh (extension)

TANECO: complex for obtaining aromatics (in the mode of complex testing), pilot installation of hydroconversion
Nizhnekamskneftekhim: polyalkylene glycol (experimental batch), steam generating plant - thermoelectric station (start of pilot operation)
Kazanorgsintez: polycarbonate (extension, stage 2)
Nefis Cosmetics: laundry gels, capsules for washing and dishwashers, soap (extension)
Tatplastik: household plastic products
STC Ahmadulliny: polyphenylene sulfide (pilot production)
Chemical Plant named after L. Karpov: waterless magnesium sulfate
Natural Health: wellness products
Polymatiz: composite nonwovens (extension)

2020	2022
2021	2023
 TANECO: catalytic cracking, hydrogen (3rd installation), diesel fuel isodewaxing, delayed coking–2, gas fractionation, chemical water treatment; lubricants TAIF-NK: deep processing complex Nizhnekamskneftekhim: styrene butadiene rubber Nizhnekamskshina: tires «Viatti» (extension) Alabuga-Fiber: PAN precursor Nefis Cosmetics: laundry gels (extension), laundry capsules Tathimplast: compounds (extension) Danaflex: orientedpolyolefin films INCO-TEK Agro Alabuga: complex granular NPK fertilizers Polyplast Kazan: concrete additives Factory of soft containers: big bags 	 TANECO: amine treatment and acidic waste water dispatch unit, water block No. 4, nitrogen plant Kazanorgsintez: ethylene (accretion), isopropylbenzene (modernization) KAMATEK: details of the exterior of the KAMAZ cabin Nizhnekamskneftekhim: combined cycle plant-500, halobutyl rubbers (extension) Nefis Cosmetics: laundry detergent with gel granule properties RemGazCommunications: three extrusion lines for the production of large-diameter pipes and multilayer pipes RTI-component: production of rubber compounds, rubber blending and calendering lines Tatneft-Presscomposite: composite pipes and shaped products, 4 production lines for fiberglass fittings

We invite you to cooperate!





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