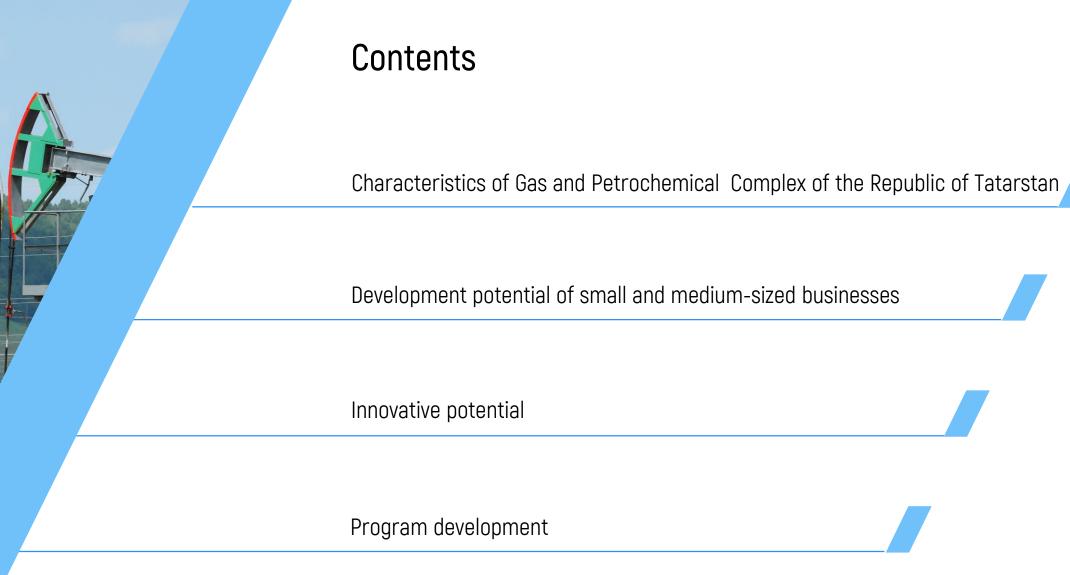


Gas and Petrochemical Complex of the Republic of Tatarstan in figures







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



<u>Tatneft</u>

Small oil production companies

Crude Oil and natural gas production

Oil Processing

TANECO TAIF-NK

Nizhnekamskneftekhim

<u>Kazanorgsintez</u>

Ammoni

<u>Nizhnekamsktechuglerod</u>

Nefis Cosmetics

Tatchempharmpreparaty

<u>Chemical Plant named after</u>
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

Nizhnekamskshina

<u>Nizhnekamsk All-Steel Tyre</u>

Plant

Danaflex

<u>I-Plast</u>

KVART

NOVAROLL separate subdivision in Kamskiye Polyany

Tehstroy

SafPlast

<u>Kamsky Plant of Polymeric</u> Materials

iatoriaio

<u>Tatneft-Presskompozit</u>

<u>Polymatiz</u>

Zaryad

Main results for 2023

Crude oil and natural gas production		Oil processing	
Oil production volume	256,7 mln. bbl	Growth rate, in % to 2022	102,4%
Revenue	18,4 bln.USD	The volume of shipped products	11,7 bln.USD
Sales profit*	4,1 bln.USD		
Manufacture of chemical products (excluding medicines)		Manufacture of rubber and plastic products	
Growth rate, in % to 2022	95%	Growth rate, in % to 2022	102,4%
The volume of shipped products	5,6 bln.USD	The volume of shipped products	2,7 bln.USD
Sales profit*	1,3 bln.USD	Sales profit*	0,34 bln.USD

^{*}By large and medium-sized enterprises

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	kt	101%	growth by 5,4 times
Motor gasoline	3 203,2	kt	111%	growth by 4,9 times
Plastics in primary forms	1 615,6	kt	94%	103%
incl. ethylene polymers in primary forms	820,2	kt	88%	92%
Paints and varnishes	33,2	kt	109%	93%
Industrial sulphur	277,4	kt	97%	growth by 6,2 times
Detergents	192,3	kt	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











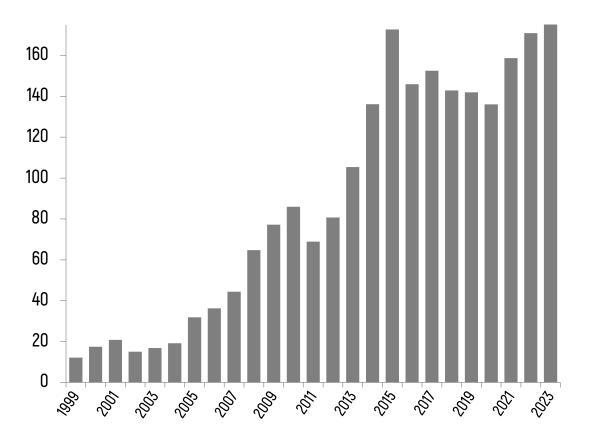
Pharmaceutical and Medical Products

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

2,3 trln rub. 1999-2023 period

large and medium-sized enterprises, bln rub.



Production index

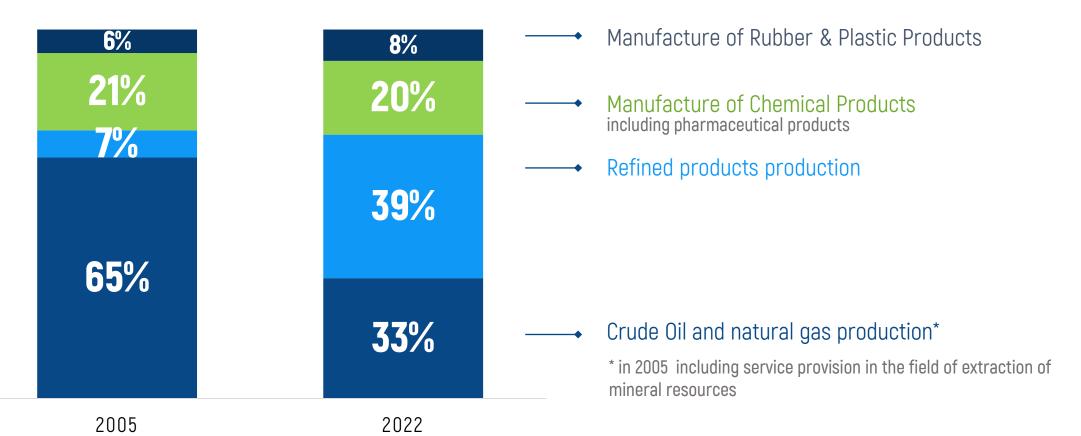
2023/1999

Crude oil and natural gas production*	growth by 1,4 times
Coke and refined products	growth by 4.9 times
Chemicals and chemical products (incl. pharmaceuticals)	growth by times
Manufacture of rubber products	growth by 3,5 times
Manufacture of plastic products	growth by 10,7 times

^{*}Average for 2022

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



2,2 mln tons of a wide range of plastics and rubbers are produced in Tatarstan

Polyethylene

Isoprene rubbers

Polypropylene

Butyl-rubber

Polystyrene

Butadiene rubber

Polycarbonates

Styrene-butadiene-rubber

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

RAW MATERIALS

produced in Tatarstan in 2023

STAFF TRAINING

SUPPORT MEASURES

SCIENTIFIC BASE

257 million barrels of oil

state universities in the field of chemistry

special economic zones

universities

million cubic meters of associated gas*

regional petroleum institute

priority development areas

research and design organizations

million tons of plastics and rubbers

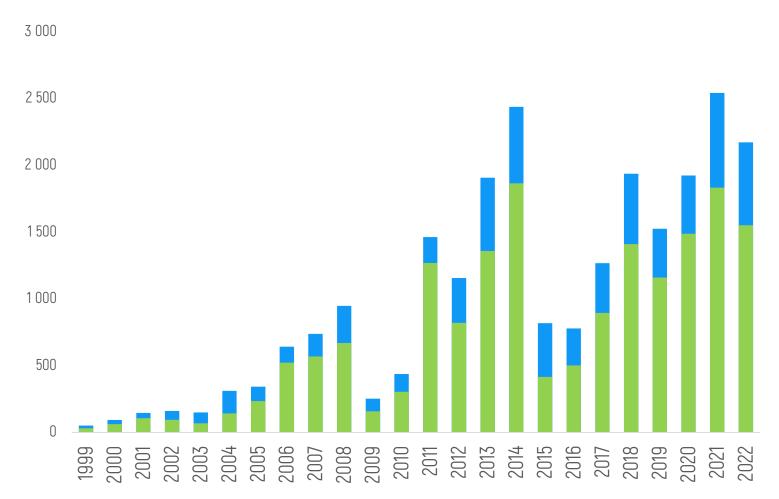
specialized colleges and technical schools

investment sites



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

Expenses involved in innovation, mln USD



other industries

gas and petrochemical complex*

*including medicines, data for 1999 - 2016, taking into account the provision of services in the field of mining

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

Academy of Science of the Republic of Tatarstan	Coordination of scientific activity and international cooperation in Russia and in the world
Volzhsky Research Institute of Hydrocarbon Raw Materials	Scientific work in the field of production & consumption of hydrocarbons
A.E. Arbuzov Institute of organic and physical chemistry	Physical-chemical and chemical-biological research
TATNIPINEFT Institute	Scientific support of oil production sector of the Republic of Tatarstan
Soyuzkhimpromproject Design Institute	Project development of chemical production
Kazan Federal University	Scientific and educational activity in the field of oil production, chemistry and ecology
Kazan National Research Technological University	Scientific and educational activity in gas and petrochemical industry
Kazan National Research Technical University	Development of composite materials and structures of petrochemical feedstock
Kazan State Power Engineering University	Optimization of chemical and technological processes, novels material characterization
Kazan State University of Architecture and Engineering	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



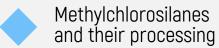


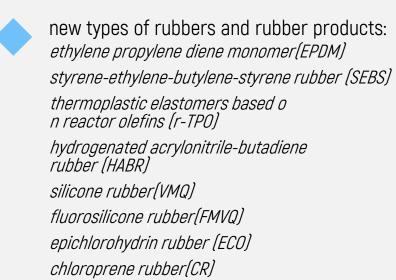
Integrated development of Gas and Petrochemical complex industries is provided within the framework of the program-targeted approach

1999-2003	1-st Program	Ensuring economic security and economic growth of the Republic by bringing a key sector of the economy to a competitive level
2004-2008	2-nd Program	Increasing the competitiveness of the Petrochemical Complex and ensuring, on this basis, the economic growth of the Republic
2010-2014	3-rd Program	The most efficient use of competitive advantages, a stable increase of value-added production on this basis , strengthening positions in the Russian and world markets
2015-2019	4-th Program	Growth of competitiveness of Gas and Petrochemical Complex, realization and expansion of competitive advantages
2020-2024	5-th Program	Formation of raw material base and scientific base for the development of production of functional materials and other types of products of medium and low-tonnage chemistry
2025-2029	6-th Program	Creation of the industry of functional materials, medium- and small-tonnage chemistry in Tatarstan
2030-2034	7-th Program	Ensuring the leadership of Tatarstan among the EAEU countries in terms of production volume and quality of functional materials, products of medium and low-tonnage chemistry

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





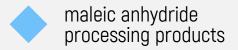




products for the production and processing of rubbers and plastics

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

ultra-high molecular weight polyethylene and its composites



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 2021

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

2022

2023

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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