

Gas and Petrochemical Complex of the Republic of Tatarstan in figures

2024





Contents

Characteristics of Gas and Petrochemical Complex of the Republic of Tatarstan

Development potential of small and medium-sized businesses

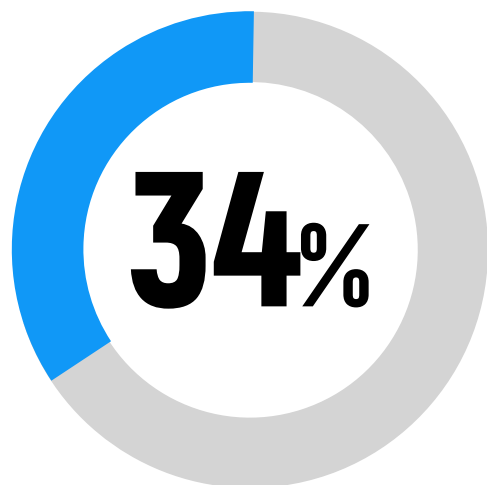
Innovative potential

Program development

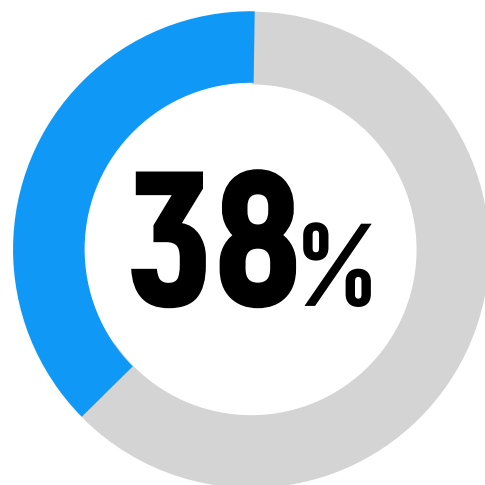


Characteristics of Gas and Petrochemical Complex of the Republic of Tatarstan

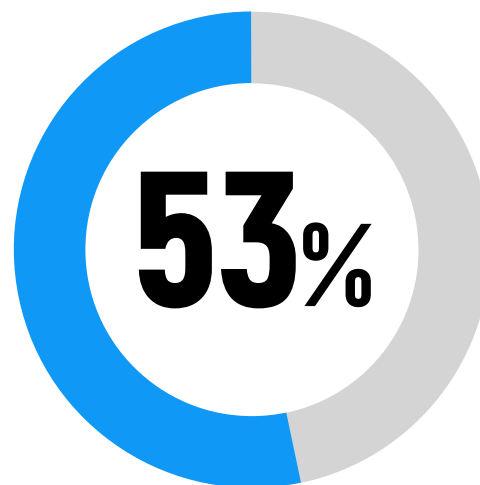
Oil and gas chemical complex is one of the key sectors in the economy of the Republic of Tatarstan



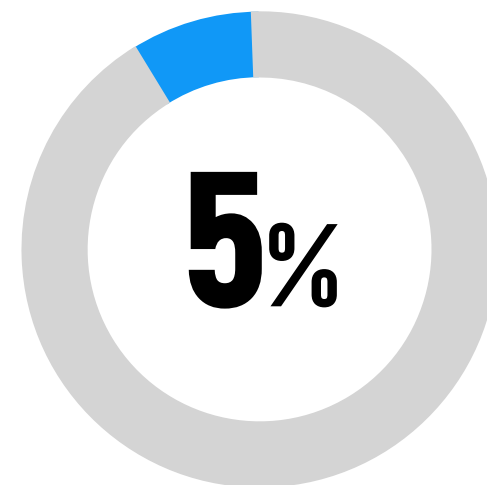
gross
regional product



taxes and fees
to the consolidated
budget



sales profit



number of
employees

Tatneft
Small oil production
companies

Crude Oil and
natural gas
production

Oil Processing

TANECO
TAIF-NK

Key Companies of Gas and Petrochemical Complex of Tatarstan

Nizhnekamskneftekhim

Kazanorgsintez

Ammoni

Nizhnekamsktechuglerod

Nefis Cosmetics

Tatchempharmpreparaty

Chemical Plant named after
L. Karpov

Egida +

Tathimplast

August- Alabuga

Agruskhim-Alabuga

Transneft-Synthesis

Manufacture of
chemical products
and medicines

Manufacture of
rubber and plastic
products

Nizhnekamskshina

Nizhnekamsk All-Steel Tyre
Plant

Danaflex

I-Plast

KVART

NOVAROLL separate subdivision
in Kamskiye Polyany

Tehstroy

SafPlast

Kamsky Plant of Polymeric
Materials

Tatneft-Presskompozit

Polymatiz

Zaryad

Main results for 2024

Crude oil and natural gas production

Oil production volume*	257,6 mln. bbl
Revenue	20,3 bln.USD
Sales profit**	4,0 bln.USD

Manufacture of chemical products (excluding medicines)

Growth rate, in % to 2023	104,7%
The volume of shipped products	5,8 bln.USD
Sales profit**	1,1 bln.USD

Oil processing

Growth rate, in % to 2023	106,6%
The volume of shipped products	13,2 bln.USD

Manufacture of rubber and plastic products

Growth rate, in % to 2023	107,4%
The volume of shipped products	2,6 bln.USD
Sales profit**	0,23 bln.USD

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

**By large and medium-sized enterprises

Production of certain types of products of the oil and gas chemical complex in the Republic of Tatarstan

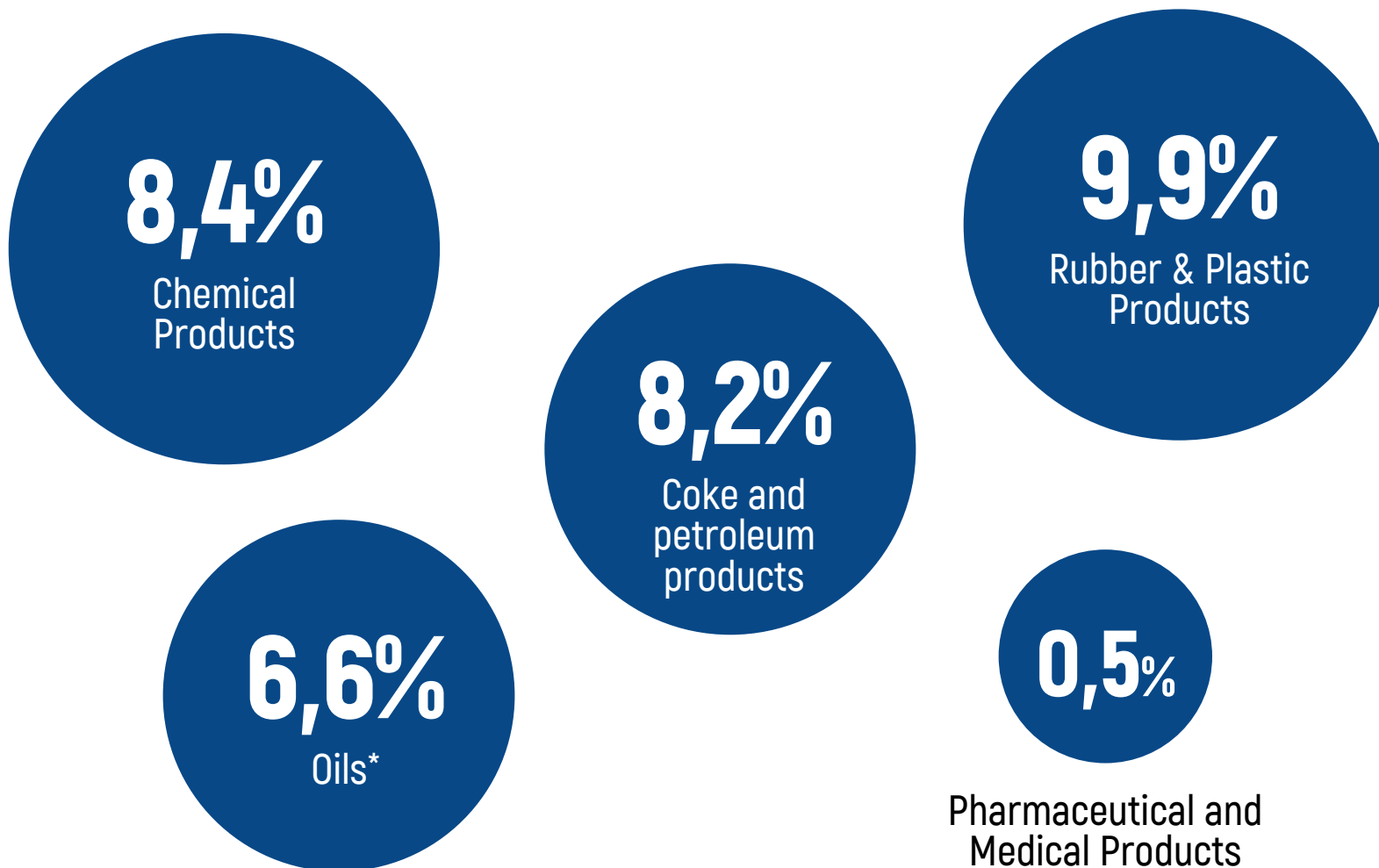
	2024		% by 2023	% by 2014
Produced oil	257,6*	mln. bbl	96%	102%
Plastics in primary forms	1 673,3	k t	103%	103%
<i>incl. ethylene polymers in primary forms</i>	851,2	k t	103%	95%
Paint materials	39,8	k t	114%	95%
Sulphur technical gas	301,5	k t	109%	growth by 3,6 times
Detergents	169,6	k t	93%	102%
Plastic pipes, tubes, hoses and their fittings	74,4	k t	76%	53%
Polymer plates, sheets, films and strips, unreinforced	268,0	k t	103%	growth by 2,6 times

Source: Tatarstanstat

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

Share of the Republic of Tatarstan in the sectors of the oil and gas chemical complex of Russia

share in the shipping in 2024

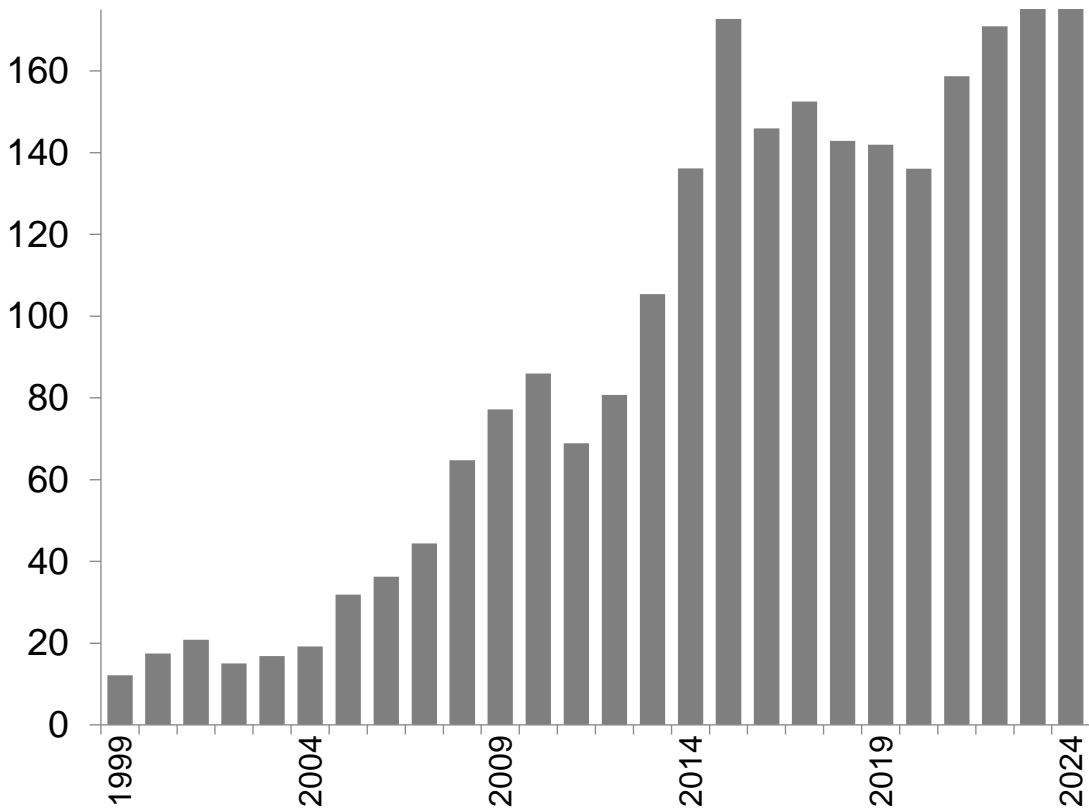


*Share of oil production in the Republic of Tatarstan in the total level of oil production in the Russian Federation.
The indicator is calculated on the basis of data from the Raisa press service of the Republic of Tatarstan and the Energy Policy magazine.

More than 2.6 trillion rubles of investments have been invested in Tatarstan's oil and gas chemical complex over 26 years

Investments into equity **> 2,6** trln rub. 1999-2024 period

large and medium-sized enterprises, bln rub.



Production index 2024/1999

Crude oil and natural gas production*	growth by 1,4 times
Coke and refined products	growth by 5,2 times
Chemicals and chemical products (incl. pharmaceuticals)	growth by 4,6 times
Manufacture of rubber products	growth by 3,3 times
Manufacture of plastic products	growth by 13 times

*2022/1999

Potential for development of small and medium-sized businesses in the oil and gas chemical 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 2024	STAFF TRAINING	SUPPORT MEASURES	SCIENTIFIC BASE
258 million barrels of oil	2 state universities in the field of chemistry	2 special economic zones	>8 universities
936 million cubic meters of associated gas*	1 regional petroleum institute	5 priority development areas	>7 research and design organizations
2,2 million tons of plastics and rubbers	8 specialized colleges and technical schools	>100 investment sites	

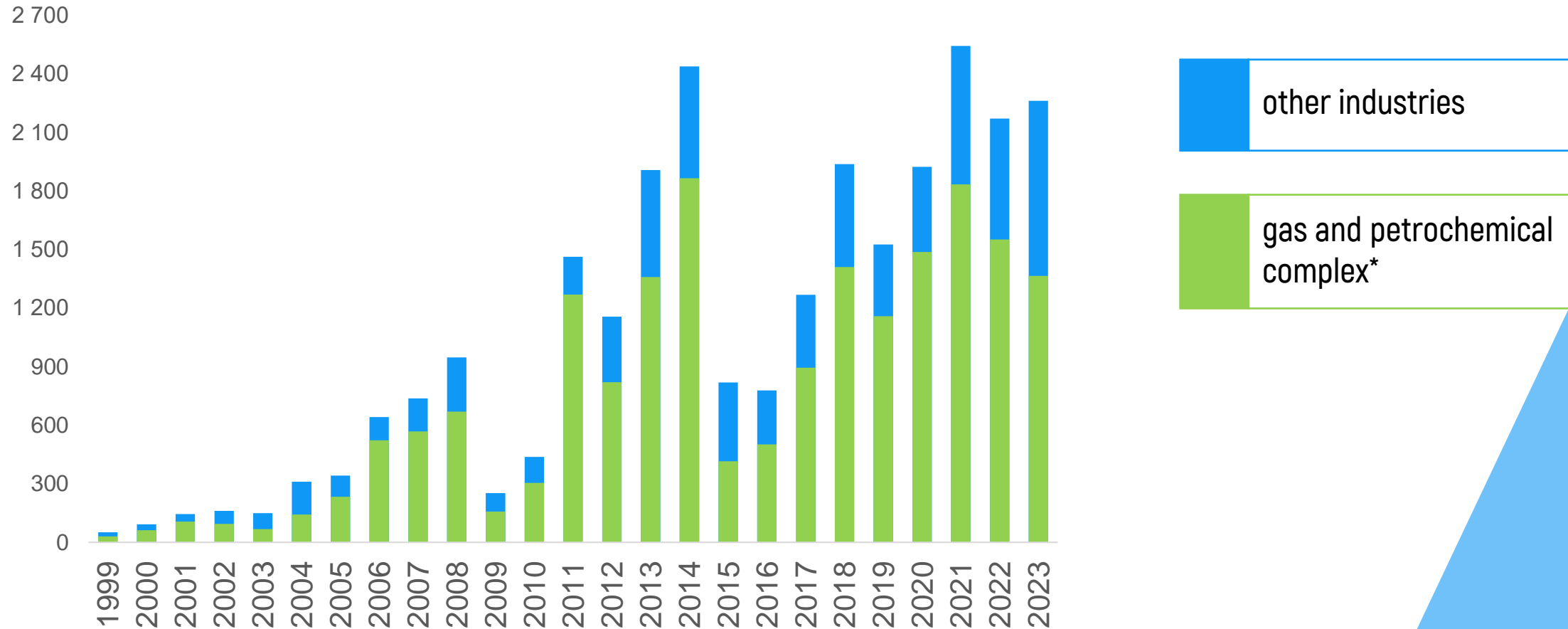
*Average for 2022



Innovation potential of the oil and gas chemical complex of the Republic of Tatarstan

60% of industrial innovations in Tatarstan are created by enterprises of the gas and petrochemical complex

Expenses involved in innovation, mln USD



*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, novel 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

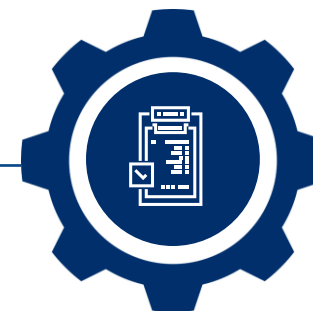
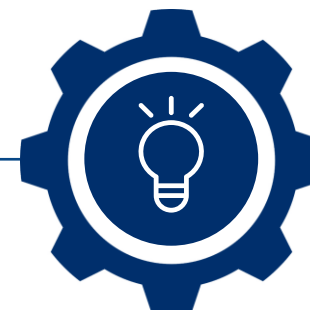
organization of conferences and round tables

Scientific and Technical Council of JSC Tatneftekhiminvest-Holding promotes 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







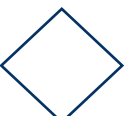
presentation of the most promising projects to the Board of Directors of AO Tatneftekhiminvest-Holding



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

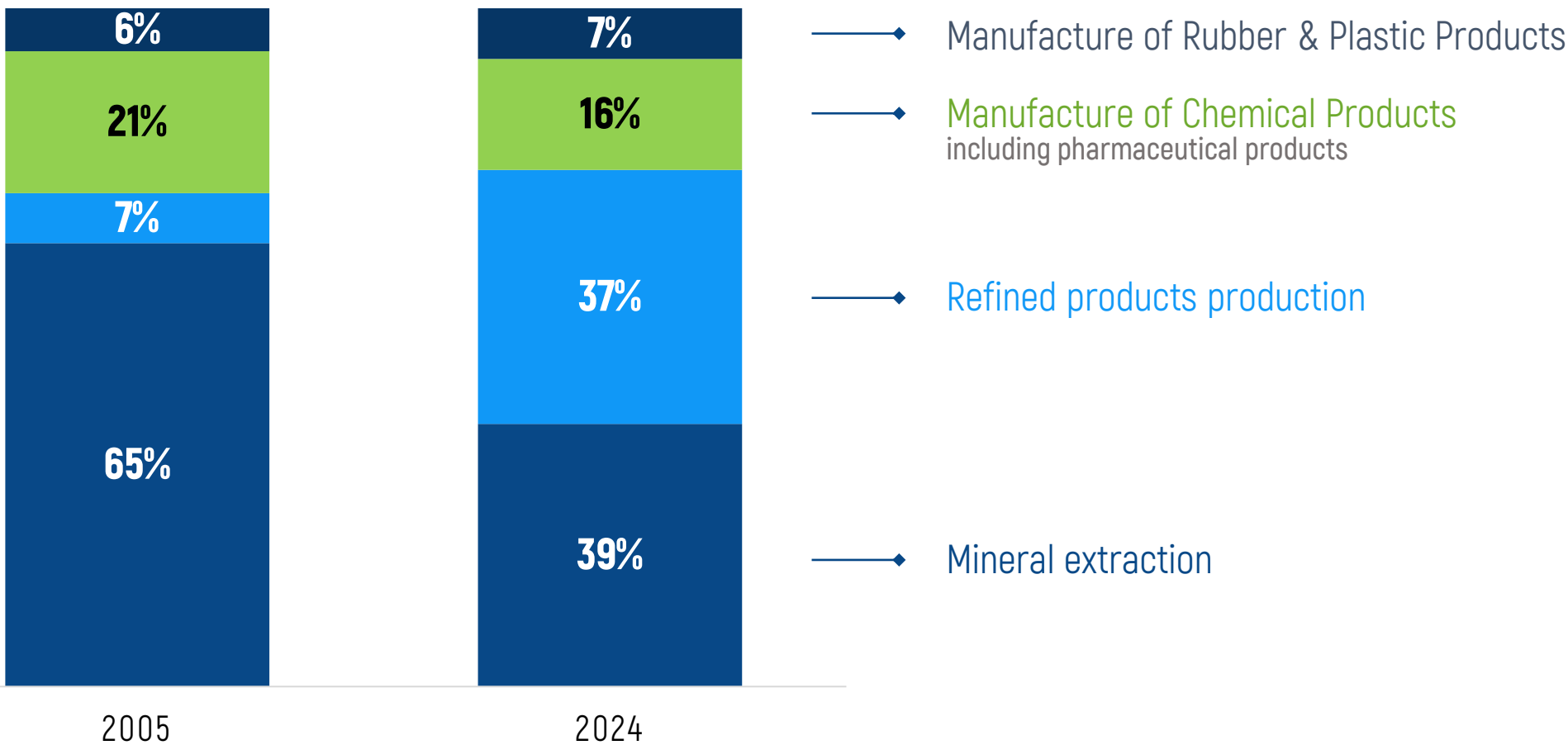


Integrated development of Gas and Petrochemical complex industries is provided within the framework of the program-targeted approach

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 in Tatarstan of a raw material and scientific base for the development of production of functional materials and other types of medium- and low-tonnage chemistry products
2025-2029		6-th Program	Creation of the industry of functional materials, medium- and low-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

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



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

- ◆ polyurethanes
- ◆ propylene oxide and simple polyesters
- ◆ ethylene oxide
- ◆ propylene glycol
- ◆ ultra-high molecular weight polyethylene and composites based on it
- ◆ fiber polyethylene terephthalate and terephthalic acid
- ◆ special polymers and monomers for their production, including polyphenylene sulfide, polyaramides, polyimides, etc.
- ◆ citric and lactic acids, xanthan, gluten and other products of deep grain processing
- ◆ carbon fiber and carbon fiber composites
- ◆ Maleic anhydride refined products
- ◆ polymers modified with maleic anhydride
- ◆ natural gas products
- ◆ natural gas haprin
- ◆ phosphorus and its products
- ◆ epichlorohydrin and epoxy resins
- ◆ hydrogen peroxide
- ◆ ethylenamines
- ◆ ethanolamines
- ◆ flame retardants, isomethyltetrahydrophthalic anhydride, polymerization catalysts, vulcanization gas pedals, polymer stabilizers, modifiers, antiaging agents
- ◆ hydrogen technologies
- ◆ low-tonnage chemistry for hydraulic fracturing
- ◆ metallocene polyethylene
- ◆ alcohols, including propyl alcohol, etc.
- ◆ organic peroxides
- ◆ linear alkylbenzenes
- ◆ products based on rare earth metals
- ◆ special rubbers
- ◆ biodegradable polymers and composites
- ◆ microelectronics chemicals
- ◆ products and articles used in unmanned aerial vehicles
- ◆ olefin copolymers
- ◆ organosilicon compounds
- ◆ general purpose polystyrene
- ◆ methyl methacrylate, polymethyl methacrylate, acrylic acid, superabsorbent polymers

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

Production of petroleum products



TANECO: hydrotreating of heavy coking gas oil, hydrotreating of middle distillates, extractive distillation with sulfolane, cat. cracking, hydrogen (3rd unit), aromatics production complex (in complex testing mode), hydroconversion OPU, isodeparaffinization of diesel fuel, UZK-2, HFC, chemical water treatment, lubricants, amine treatment unit and sour wastewater dispatch, water block No. 4, nitrogen plant, amine treatment unit and sour wastewater dispatch. fuel, UZK-2, HFC, chemical water treatment, lubricants, amine treatment and acidic effluent dispatch unit, water block No. 4, nitrogen station, 40% methyldiethanolamine solution regeneration unit.

Yelkhovsky Oil Refinery: Tertiary dodecylmercaptan production plant

TAIF-NK: refining complex

Manufacture of chemical products



Nizhnekamskneftekhim: DSSC rubber, polyalkylene glycol (pilot batch), PGU-500, halobutyl rubbers (accretion), construction of the EP-600 petrochemical complex was completed

Kazanorgsintez: polycarbonate (accretion, stage 1 and 2), ethylene (accretion), isopropylbenzene (modernization), modernization of polymerization process line "B" (reactor reconstruction)

Nefis Cosmetics: liquid detergents, synthetic detergents, soaps (build-up), gel-granule detergents, laundry gels (build-up), laundry and dishwasher capsules

Chemical Plant named after L. Karpov: anhydrous magnesium sulfate

Agruskhim-Alabuga: plant protection products

INCO-TEK Agro Alabuga: NPK fertilizers

STC Akhmadullins: Polyphenylene sulfide (pilot production)

Natural Health: health products

Polyplast-Kazan: concrete admixtures

TathimPlast: compounds (accretion)

Alabuga Fiber: PAN precursor

Manufacture of rubber and plastic products



Kama Tyres: Viatti tires (accretion), production of bicycle tires, new models of light truck, agricultural, industrial and CMC tires, tires for ATVs

GC Danaflex: recyclable IML labels, oriented polyolefin films, recyclable films production plant (Danafilms Ltd.)

Technopolis Himgrad: launch of production of composite honeycomb panel products for the interiors of MS-21 aircrafts

Tatneft-Presscomposite: composite pipes and shaped products, 4 production lines of glass-plastic fittings, plant for production of flexible composite pipes (Elabuga)

Tatneft Alabuga-Steklovolokno: glass threads, glass fibers, glass mesh (accretion)

Soft Container Factory: big bags

Tatplastic: household plastics

RGC: polypropylene corrugated pipe manufacturing plant

Polymathize: nonwovens (accretion)

PFC CST-Plast: PVC plasticates and films

Technix (LinerTech Group): PVC profile plant for trenchless repair of networks

KAMATEC: KAMAZ cab exterior details

RemGasCommunications: three extrusion lines for the production of large-diameter pipes and multilayer pipes

RTI Component: production of rubber compounds, rubber blending and calendering lines

We invite you to cooperate!



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