

TATNEFTEKHIMINVEST- HOLDING

► April 2022

Coordination of the Gas and Petrochemical Complex
of the Republic of Tatarstan
since 1994

Oil production

Oil refining

Gas processing

Chemical industry



Rubber and plastic products

Pharmacy

Biotechnology

Ecology

Tatneftekhiminvest- holding

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



Attraction of projects

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



Company support

assistance in the implementation of investment and innovation projects



Raw materials supply

assistance in resolving issues of raw materials supply



Cooperation

development of cluster relations



Planning

development of strategic documents and strategic decisions



Communications

organization of conferences and round tables

Our team



Rafinat Yarullin
General Director



Haris Mustafin
Deputy Director



Ilfat Salikhov
Deputy Director, Academic Secretary
of the Scientific and Technical Council



Ilgizar Yakushev
Deputy Director for the Development
of Bio -, Nano-and Medical Technologies



Abzalilova Leysan
Deputy Director
of Economics



Mingazi Gibadukov
Chief Technologist,
Head of the Hydrocarbons Department

Participation in R&D and innovation projects

Expertise

Technological and economic assessment of projects
External expertise by the Scientific and Technical Council
of Tatneftekhiminvest-Holding

Consulting

Market research
Search for potential partners
Assistance in conclusion of contracts

Financing

Financing of costs at the stage of the laboratory
or the creation of a prototype

Piloting

Assistance in pilot implementation in Tatarstan

Scholarships

Personal scholarships based on the results of the republican
contest "Fifty best Innovative ideas for the Republic of Tatarstan"

22 projects was supported in 2021



5

Projects funded

«Tatneftekhiminvest-holding»
co-financed R&D projects



17

Innovative projects

received support through
finding business partners,
establishing direct contacts,
solving problematic issues,
creating working groups



14

Marketing research

were carried out to assess
the directions of development
of the Gas and Petrochemical
Complex

R&D financing 2021



Polyphenylensulphid

The project has been implemented since 2020

A semicommercial plant for the production of polyphenylene sulfide was built in the "Himgrad" technopolis in 2021

Project participants —
Kazan (Volga Region) Federal university,
EPC Ingehim LLC (Kazan),
STC AhmadullinS–Science
and Technologies LLC (Kazan)

Carbon testing ground

In 2021, the "Carbon Volga Region" testing ground was created in the Republic of Tatarstan to develop and test carbon balance control technologies (carbon testing ground)

The initiator of the project is Kazan (Volga Region) Federal University

Gaprin from natural gas

Selection of pure cultures as a production associate with the production of biomass on methane from natural gas to obtain methanotrophic protein (gaprin)

Developer - Center for Industrial Implementation of Applied Developments of the Scientific Research Institute of the Russian Academy of Sciences Biocenter-SAS (Pushchino)

Wastewater treatment

Development and selection of new bacterial colonies that make up activated sludge for wastewater treatment

The project has been supported since 2019

Initiator of the project — Kinematika LLC (Kazan)

Waste water control

Creation of a system for determining the biochemical oxygen demand in wastewater

The project has been implemented since 2019

Project participants — Kinematika LLC (Kazan)
NPP Ecoenergomash LLC (Kazan)

Project coordination in 2021

Dicyclopentadiene

Obtaining dicyclopentadiene of polymerization purity obtained by KNRTU and PJSC Nizhnekamskneftekhim for the manufacture of car parts of PJSC KAMAZ

Hydroconversion of heavy residues

Optimization of the process of hydroconversion of heavy oil residues at the pilot plant of JSC TANECO with a capacity of 50 thousand tons

Composites

Implementation of composite materials obtained by KNRTU and KNRTU-KAI at enterprises of small and medium-sized businesses of Republic of Tatarstan

Antioxidants

Calculation of performance indicators of the project for the production of synthetic antioxidants 4-ADPA (Diafen FP) at the suggestion of Antaks LLC (Moscow)

Demulsifiers

Testing in JSC SPC Khimtechno (Kazan) developed by KNRTU demulsifiers "Intens-3" and corrosion inhibitors "Intens-7" for acid compositions

Tire recycling

Preparation of proposals for the development of activities of Bonus-Kama LLC (Mendeleevsk) for the processing of used tires

Pyrolysis products

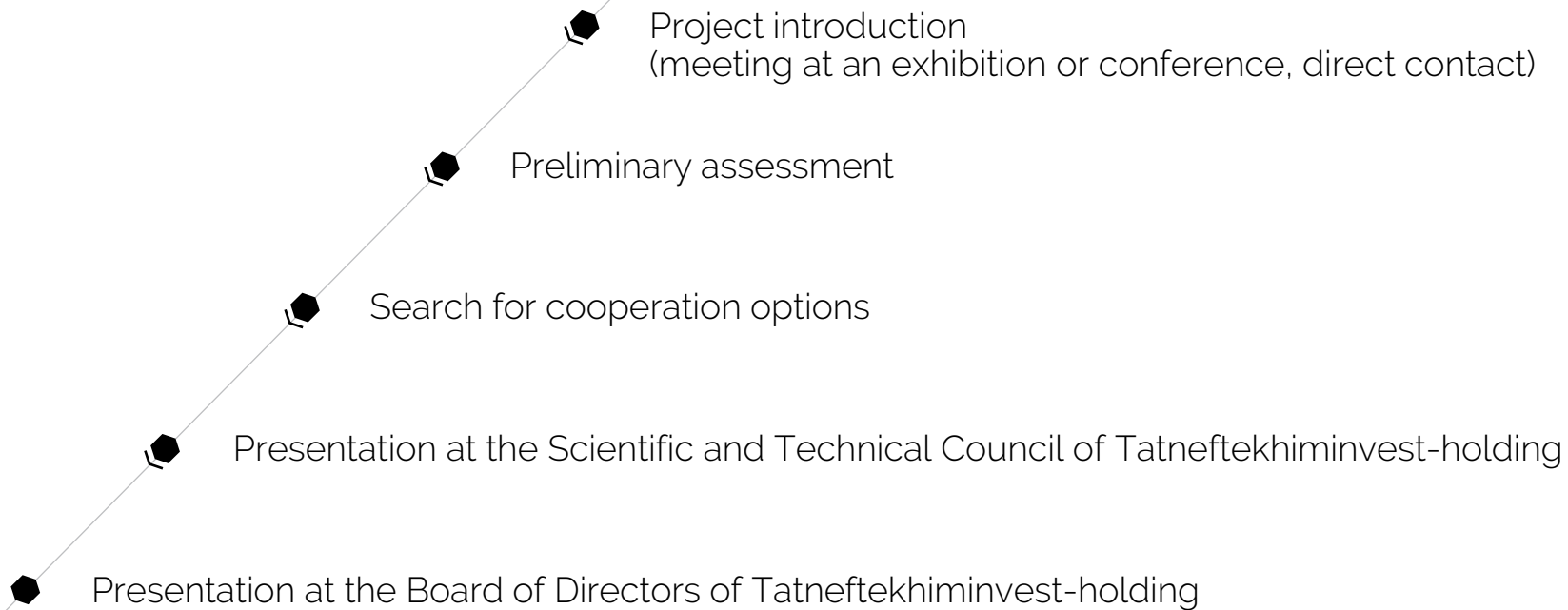
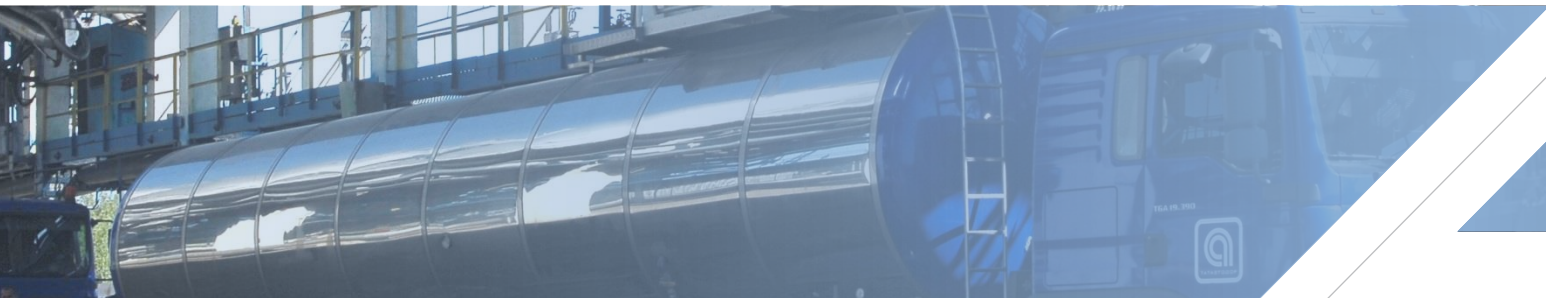
Improvement in PJSC Nizhnekamskneftekhim of schemes for processing pyrolysis by-products using the technology of GTC Technology (USA)

City farm

Launch of a pilot city-farm project in the Sabinsky municipal district of the Republic of Tatarstan with City-Farmer LLC (Moscow)

KNRTU — Kazan National Research Technological University
KNRTU-KAI — Kazan National Research Technical University

Algorithm for working with offers and projects



Projects can be presented to government officials and major companies at the Board of Directors

The chairman of the Board of Directors is the president of the Republic of Tatarstan
R. N. Minnikhanov

Ministry of Economy

Ministry of Industry and Trade

Investment Development Agency

Ministry of Construction, Architecture, Housing and Communal Services



12

board meetings
are held annually



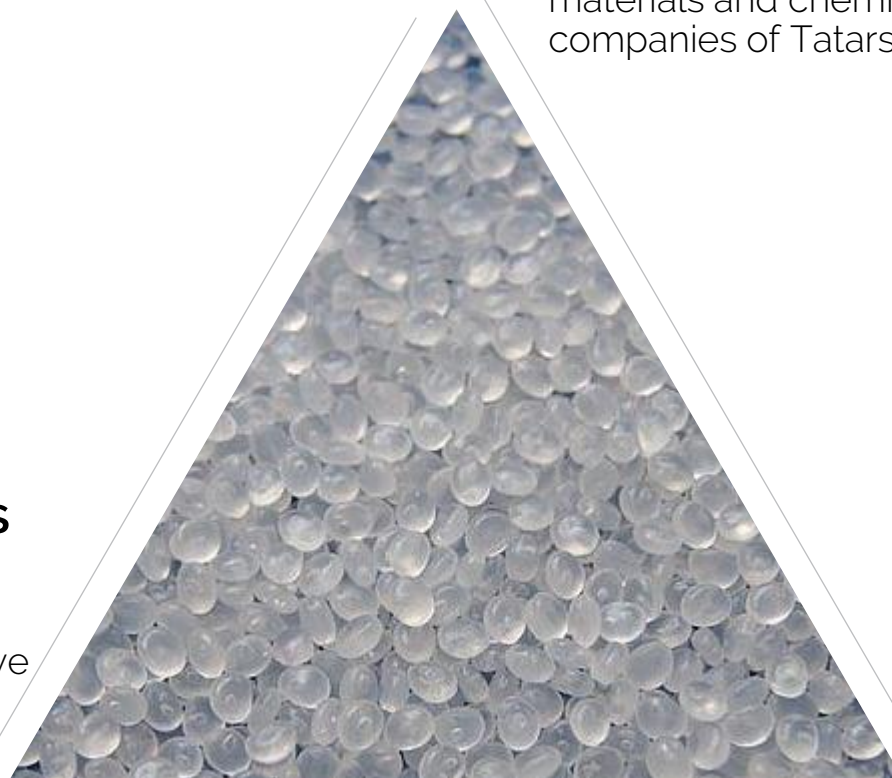
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companies and projects
were presented in 2021

Participation in the formation of raw material flows

Conclusion of contracts

Assistance in concluding direct contracts for the supply of hydrocarbon raw materials and chemical products between companies of Tatarstan



Discussion of problems

Organization of meetings among producers of hydrocarbon raw materials and consumers to resolve problematic issues

Demand forecast

Formation of the current and strategic balance of raw materials for the Gas and Petrochemical Complex of Tatarstan

Strategic decision-makers

the **5th**

program for the development of the Gas and Petrochemical Complex is implemented in Tatarstan

Industry programs

The programs for the development of the Gas and Petrochemical Complex of the Republic of Tatarstan have been developed

- ▷ for 1999-2003
- ▷ for 2004-2008
- ▷ for 2010-2014
- ▷ for 2015-2019

▶ **for 2020-2024**

Biotechnology Development Program for 2010-2020

Pharmaceutical Industry Development Program of the Republic of Tatarstan for 2011-2020

Regional documents

Participation in the development of regional strategic documents

Corporate plans

Assistance in the development of strategic documents for manufacturing companies, educational organizations

Current analysis

Quarterly outcome analysis of the development of the Gas and Petrochemical Complex of the Republic of Tatarstan

Organization of events

Annual Conference

Annual international scientific-practical conference on advanced technologies of petrochemistry and oil refining within the framework of the Tatarstan Gas and Petrochemical Forum (held in the last days of August or early September)




Thematic round tables at republican events



**TATARSTAN GAS AND
PETROCHEMICAL FORUM**

Informational materials release




Catalogues

Catalogue of manufacturers of materials for construction and road use, produced on the basis of chemical products

Product catalogue of the enterprises of the Gas and Petrochemical Complex of Tatarstan

Catalogue of chemical laboratory facilities of Tatarstan



Information for investors

Presentation materials

Scheme for cluster development of hydrocarbon processing



Articles

Releases in newspapers and magazines

Posting industry news on the company's website

Digests for public authorities

To start cooperation, please contact us



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