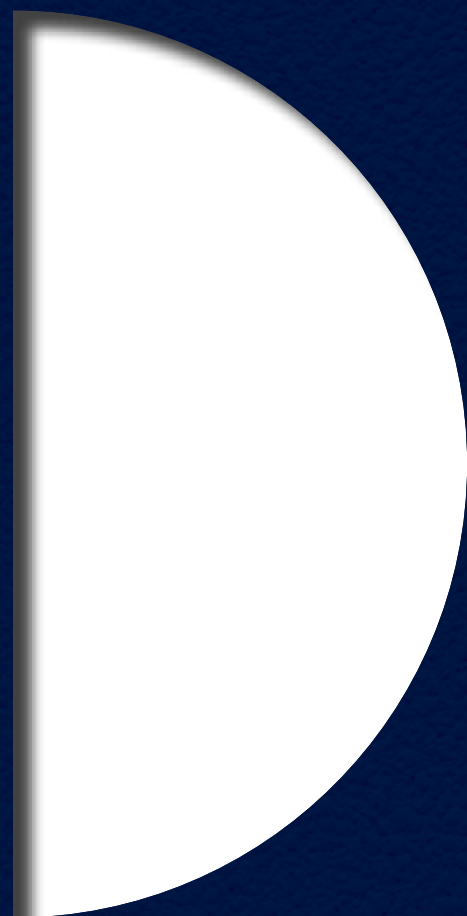




## **References** 2010–2024







**Facility:**

2060 tpd  
Ammonia Plant,  
new construction

**Client:**

PJSC Acron

**Type of work:**

Adaptation of BD, PD, DDD,  
GGE, SS

**Year of implementation:**  
2016



## Ammonia

Client	Facility name	Type of work	Country	Year of implementation
OJSC Grodno Azot	Ammonia Plant AM-76, capacity increase up to 2100 tpd, revamping	EP	Belarus	In progress
OJSC Grodno Azot	TEC Ammonia Plant, capacity increase up to 2100 tpd, revamping	EP	Belarus	In progress
JSC Apatit	Ammonia Plant AM-76, capacity increase up to 2100 tpd, revamping	BES	Russia	In progress
JSC Apatit	TEC Ammonia Plant, capacity increase up to 2100 tpd, revamping	BES	Russia	In progress
PJSC KuibyshevAzot	Ammonia Plant AM-70, capacity increase up to 2100 tpd, revamping	BES	Russia	In progress
LLC Linde Azot Togliatti	Ammonia Plant, capacity increase up to 1450 tpd, revamping	BES	Russia	In progress
LLC Ultra Fert	Ammonia and Urea Complex, new construction	FS	Russia	2021
PJSC Dorogobuzh	Ammonia Plant, capacity increase up to 2100 tpd, revamping	Adaptation of BD, PD, DDD	Russia	2019
LLC Gazprom neftekhim Salavat	Ammonia Plant AM-76, capacity stabilization at up to 1750 tpd, revamping	BES, PD, PD	Russia	2019
PJSC Acron	2060 tpd Ammonia Plant, new construction	Adaptation of BD, PD, DDD, GGE, SS, procurement support	Russia	2016
AB ACHEMA	Ammonia Plant, revamping	BES	Lithuania	2016
AB ACHEMA	Ammonia Plant, Fresh Syngas Drying Unit, revamping	PD, DDD	Lithuania	2016
AB ACHEMA	Ammonia Plant AM-80, new construction	BD, DDD, ES	Lithuania	2015
JSC Minudobreniya	Ammonia Plant, ACU, revamping	DDD	Russia	2015
JSC NAK Azot	Ammonia Plant, Primary Reforming, revamping	BES, FS, PD, DDD, ES	Russia	2015
PJSC Acron	Ammonia Plant, Water Cooler installation	DDD	Russia	2015
PJSC TogliattiAzot	Ammonia Plant AM-76, capacity increase up to 1750 tpd, technical upgrade	PD	Russia	2015
AB ACHEMA	Ammonia Plant AM-80, revamping	BD, PD	Lithuania	2014
PJSC Acron	Ammonia Plant, capacity increase up to 1750 tpd, technical upgrade	PD	Russia	2014



**Facility:**  
Nitric Acid Plant  
AK-72,  
revamping with capacity  
increase to 60 tpd

**Client:**  
JSC Minudobreniya

**Type of work:**  
EPC

**Year of implementation:**  
2021

## Nitric Acid

Client	Facility name	Type of work	Country	Year of implementation
PJSC KuibyshevAzot	Nitric Acid Plant UKL-7-76, new construction of two units	BD, PD, DDD	Russia	In progress
JSC Minudobreniya	Nitric Acid Plant AK-72, revamping with capacity increase to 60 tpd	EPC	Russia	2021
JSC Nevinnomyssky Azot	Nitric Acid Plant UKL-7, operating pressure increase up to 7.3 atm, technical upgrade	PD	Russia	2021
JSC Nevinnomyssky Azot	Nitric Acid Plant UKL-7, generated steam pressure increase up to 20 atm, technical upgrade	PD, DDD	Russia	2020
JSC Minudobreniya	Nitric Acid Plants AK-72 and AK-72M, ignition system for catalyst grids in contact reactors, technical upgrade	DDD	Russia	2019
KJSC Azot	Nitric Acid Plant AK-72, capacity increase up to 1320 tpd of MNH, technical upgrade	PD	Russia	2018
PJSC Dorogobuzh	Nitric Acid Plant AK-72, transfer to selective treatment of exhaust gases, revamping	BD	Russia	2017
KCKK Branch of JSC UCC URALCHEM	Nitric Acid Plant UKL-7, ignition system for catalyst grids of the contact reactor, technical upgrade	DDD	Russia	2017
KCKK Branch of JSC UCC URALCHEM	Nitric Acid Plant AK-72, capacity increase up to 1320 tpd of MNH, technical upgrade	PD	Russia	2014
KCKK Branch of JSC UCC URALCHEM	Nitric Acid Plant UKL-7, electric igniter, technical upgrade	DDD	Russia	2014
JSC Nevinnomyssky Azot	Weak Nitric Acid Plant, replacement of type 1/3,5 units for UKL-7 units, technical upgrade	DDD	Russia	2012





**Facility:**  
2300 tpd  
Ammonium  
Nitrate Plant,  
granulation and 2nd stage  
evaporation units, new  
construction

**Client:**  
PJSC KuibyshevAzot

**Type of work:**  
EPC

**Year of implementation:**  
2022

## Ammonium nitrate

Client	Facility name	Type of work	Country	Year of implementation
OJSC Grodno Azot	1500 tpd Ammonium Nitrate Plant, new construction	EP	Belarus	In progress
JSC Nevinnomyssky Azot	2700 tpd Ammonium Nitrate Plant, granulation unit, new construction	BD, PD	Russia	2023
KJSC Azot	Ammonium Nitrate Plant AC-72/1, revamping	EPC	Russia	2023
PJSC KuibyshevAzot	2300 tpd Ammonium Nitrate Plant, Granulation and 2nd stage Evaporation Units, new construction	EPC	Russia	2022
Azot Branch of JSC UCC URALCHEM	Ammonium Nitrate Plant AC-72, capacity increase up to 2100 tpd, revamping	BES, PD, DDD, SS	Russia	2022
LLC Angarsk Nitrogen Fertilizers Plant	Ammonium Nitrate Plant, air purification system of prilling towers, technical upgrade	Jol	Russia	2022
JSC Apatit	Ammonium Nitrate Plant AC-72M, capacity increase up to 2150 tpd, revamping	BES, SS	Russia	2021
JSC Minudobreniya	Ammonium Nitrate Plant AC-72, Granule Cooling Unit, technical upgrade	DDD	Russia	2018
PJSC Dorogobuzh	Ammonium Nitrate Plant AC-72, capacity increase up to 1800 tpd, technical upgrade	PD	Russia	2018
PJSC Dorogobuzh	Ammonium Nitrate Plant AC-72, capacity increase up to 2300 tpd, technical upgrade	PD	Russia	2018
PJSC KuibyshevAzot	2300 tpd Ammonium Nitrate Plant, granulation unit, new construction	PD	Russia	2017
KJSC Azot	Ammonium Nitrate Plant, nitric acid neutralization unit using ammonia gas	BD	Russia	2017
JSC PhosAgro-Cherepovets	Ammonium Nitrate Plant, Granulation Tower Scrubber, revamping	DDD	Russia	2016
LLP KazAzot	Ammonium Nitrate Plant, unit producing ammonium nitrate solution, new construction	EPC	Kazakhstan	2016
Azot Branch of JSC UCC URALCHEM	Calcium-Ammonium Nitrate Plant AC-71, technical upgrade	BES, PD, DDD	Russia	2015
OJSC NavoiyAzot	Ammonium Nitrate Plant, upgrade and revamping	FS, Jol	Uzbekistan	2014
LLP KazAzot	Ammonium Nitrate Plant, revamping	FS, Jol	Kazakhstan	2014



**Facility:**  
450 ktpa  
Methanol Plant

**Client:**  
OJSC Shchekinoazot

**Type of work:**  
Adaptation of BD, PD, GGE,  
DDD, SS

**Year of implementation:**  
2011

## Methanol

Client	Facility name	Type of work	Country	Year of implementation
JSC Nakhodka Fertilizer Plant	5400 tpd Methanol Plant, new construction	PD	Russia	2023
PJSC Metafrax Chemicals	Methanol Plant, new construction	FS	Russia	2022
OJSC Tomet	Methanol Plant, capacity stabilization at 1600 tpd	Adaptation of BD, DDD, SS	Russia	2020
LLC Sibmetachim	Methanol Plant M-750, revamping	BES, PD, DDD	Russia	2017
PJSC Metafrax	Methanol Plant, Flare Unit, Cooling Water Cycle, Rectification Unit, revamping	BES, DDD	Russia	2016
PJSC TogliattiAzot	Methanol Plant, new construction	FS, Jol	Russia	2016
LLC Neftetermina	Methanol Plant, new construction	FS, Jol	Russia	2015
LLC Sibmetachim	Methanol Plant M-750, revamping	BD, BES	Russia	2015
PJSC Metafrax	Methanol Plant M-750, Flow-through Converter, revamping	FS	Russia	2014







**Facility:**  
Ammonia, Urea  
and Melamine  
Complex,  
new construction

**Client:**  
PJSC Metafrax  
Chemicals

**Type of work:**  
PD, DDD, SS

**Year of implementation:**  
2023

## Urea

Client	Facility name	Type of work	Country	Year of implementation
PJSC Metafrax Chemicals	Ammonia, Urea and Melamine Complex, new construction	PD, DDD, SS	Russia	2023
LLC Irkutsk Oil Company	Complex for converting natural gas to urea and mineral fertilizers, new construction, new construction	FS	Russia	2023
KJSC Azot	UAN Plant, neutralization unit	ES	Russia	2020
JSC Apatit	Urea Plant, Steam Condenser installation, revamping	DDD	Russia	2018





## Other plants

Client	Facility name	Type of work	Country	Year of implementation
PJSC SIBUR Holding	60 ktpa Epoxy Resin Plant, new construction	FS	Russia	In progress
JSC Volzhsky Orgsintez	20 ktpa Potassium Butyl Xanthate Plant, new construction	PD, DDD, GGE, SS	Russia	In progress
LLC DCC	40 ktpa Chlorine Plant, 40 ktpa Caustic Soda Plant, 30 ktpa Glycerin to Epichlorohydrin Plant, new construction	PD, GGE	Russia	In progress
LLC GTM 1	Nitrogen Complex, new construction	FS	Russia	2023
Balakovo Branch of JSC Apatit	Air Chilling Unit, technical upgrade	DDD	Russia	2022
LLC PromTekh Engineering	75 ktpa 2-Ethylhexanol Plant	PD	Russia	2022
LLC SmartPack	Water-soluble Monoammonium Phosphate Plant, Packaging Line, new construction	PD, DDD	Russia	2022
Yanchang Petrochemical (Group) Corporation	40 ktpa Acetylene Plant, new construction	BD, ES	China	2020
JSC Apatit	Mineral Fertilizers Plant, CO2 Cooling Unit, revamping	DDD	Russia	2020
OJSC Tomet	150 ktpa Acetic Acid Plant, new construction	FS	Russia	2020
PJSC Metafrax	Construction of Acetylene, Acetaldehyde, Butanediol, THF, Polytetramethylene Ether Glycol Complex, new construction	FS	Russia	2020
LLC Irkutsk Oil Company	Natural Gas Processing Complex producing acetylene and 1,4-butandiol, and converting syngas as by-product of the acetylene production into methanol and its downstream products, new construction	FS	Russia	2020
PJSC KuibyshevAzot	Magnesium Nitrate Solution Plant, new construction	BES, PD, DDD, GGE	Russia	2019
LLC Procter and Gamble Novomoskovsk	Polymer Package Plant, technical upgrade	DDD	Russia	2014
LLC Procter and Gamble Novomoskovsk	Synthetic Detergent Plant, technical upgrade	DDD	Russia	2014
LLC Procter and Gamble Novomoskovsk	Liquid Detergents Plant, Racks, upgrade	DDD	Russia	2014

## Liquid Ammonia Storages

Client	Facility name	Type of work	Country	Year of implementation
PJSC KuibyshevAzot	Liquid Ammonia Storage, technical upgrade	DDD	Russia	2022
JSC Nevinnomyssky Azot	Liquid Ammonia Storage, Cryogenic Storage Tanks, technical upgrade	DDD	Russia	2020
JSC Nevinnomyssky Azot	Liquid Ammonia Storage, Gas Detection System for Cryogenic Ammonia Storage Tanks	DDD	Russia	2019
JSC Minudobreniya	Liquid Ammonia Storage, Water Curtain installation	DDD	Russia	2018
JSC Metachem	Liquid Ammonia Storage, new construction	PD	Russia	2018
LLC MendeleyevskAzot	Liquid Ammonia Storage, technical upgrade	PD	Russia	2015
PJSC KuibyshevAzot	Liquid Ammonia Storage, Disposal Sanitary Column, revamping	PD, DDD	Russia	2015
PJSC KuibyshevAzot	Liquid Ammonia Storage, Cryogenic Storage Tank, revamping	DDD	Russia	2015
PJSC Acron	Liquid Ammonia Storage, Cryogenic Tank, new construction	PD	Russia	2014





## Infrastructure Facilities

Client	Facility name	Type of work	Country	Year of implementation
JSC NAK Azot	Cooling water cycle w/ cooling tower	DDD	Russia	In progress
JSC Technoleasing	1 Mtpa Methanol Plant, support facilities, new construction	BD	Russia	2021
Balakovo Branch of JSC Apatit	Liquid Ammonia Section, technical upgrade	DDD	Russia	2018
LLC Cargill	Hydrochloric Acid Storage and Caustic Storage, new construction	DDD	Russia	2017
JSC Minudobreniya	Chalk Dump Site, new construction	DDD	Russia	2015
JSC Minudobreniya	Ammonia Plant, Sulfuric Acid and Caustic Soda Storage Unit	DDD	Russia	2014
Balakovo Branch of JSC Apatit	Ammonia Pipeline, branch line off Togliatti-Odessa Ammonia Pipeline	DDD	Russia	2015
OJSC Moscow Cold Storage Facility No.14	Ammonia Cooling Unit, new construction	PD, DDD	Russia	2015

## Scientific and technical support to engineering activities

Client	Facility name	Type of work	Country	Year of implementation
JSC Gazproektinzhiniring	Polycarbonate Plant	RDS to engineering surveys and design	Russia	In progress
JSC ToAZ	5 Mtpa Ammonia and Mineral Fertilizers Transfer Complex in sea port of Ust-Luga, new construction	RDS to design	Russia	In progress
PJSC ONHP	Petroleum Products Plant, Diesel Hydrotreatment Complex, Sulfur Unit	RDS to design	Russia	In progress
LLC DI Altair	First lift pumping station	RDS to design	Russia	In progress
PJSC Giprotyumenneftegaz	Advanced Petroleum Processing Complex of LLC Slavyansk ECO	RDS to design	Russia	2023
LLC Gazsurf	Air Separation Package	RDS to design	Russia	2023





## List of activities

<b>JoI</b>	Justification of investments
<b>FS</b>	Feasibility study
<b>ES</b>	Engineering surveys
<b>ID</b>	Input data
<b>BES</b>	Basic engineering solutions
<b>BD</b>	Basic design
<b>PD</b>	Project documentation
<b>DDD</b>	Detail design documentation
<b>ES</b>	Equipment supply
<b>GGE</b>	Main state expertise
<b>GEE</b>	State environmental expertise
<b>SS</b>	Site supervision
<b>EPC</b>	Turn-key work cycle
<b>EP</b>	Turn-key work cycle without construction
<b>ISE</b>	Industrial safety expertise





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