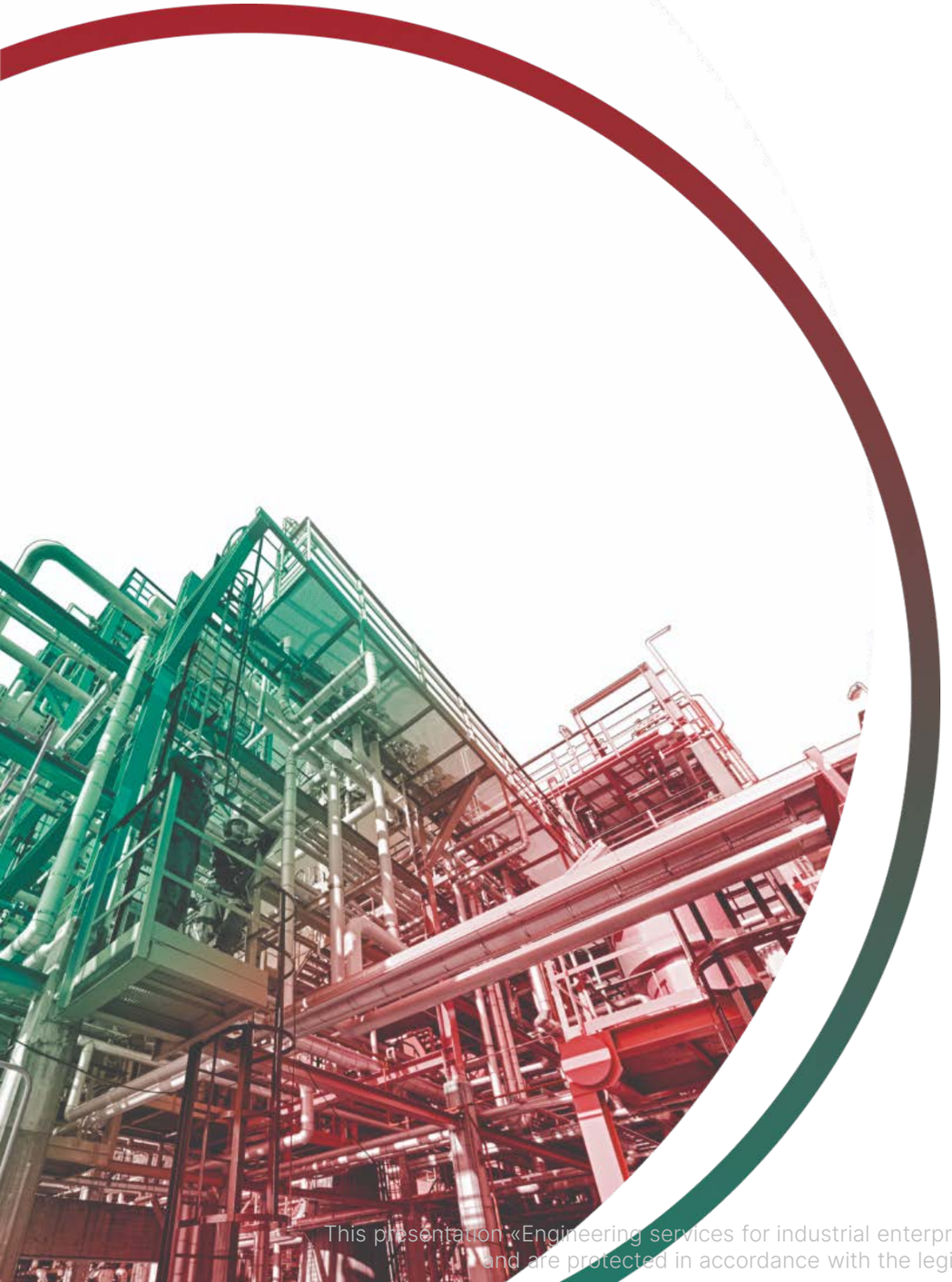


ZAVKOM ENGINEERING

BIOTECHNOLOGY | OIL AND GAS CHEMISTRY

Engineering services

for industrial enterprises

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Content

ZAVKOM ENGINEERING
BIOTECHNOLOGY | OIL AND GAS CHEMISTRY

Company General Information

- About the company
- Structure
- Departments
- Advantages of cooperation:
  - Engineering services
  - Specialists
  - Production
  - Own brand of shut-off and control valves
  - Turnkey automation
  - Working with foreign licensors

Biotechnology Department Projects

- Aspects
  - deep processing plants for wheat, corn
  - deep processing plants for peas
  - citric acid production plants
  - beer production equipment
  - distilleries
  - microbial protein production from natural gas

Petrochemistry Department Projects

- Aspects
  - field development
  - amine and alkaline gas purification
  - evaporation plants
  - resins and adhesives production units
  - formaldehyde and UFC production units
  - crystallization and scaling units
  - naphthalene and benzene purification plants
  - aniline production plants

Concluding part

- Projects geography
- We are trusted
- Contacts

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BIOTECHNOLOGY | OIL AND GAS CHEMISTRY

Company General Information

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About the company

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ZAVKOM ENGINEERING
BIOTECHNOLOGY | OIL AND GAS CHEMISTRY

The Limited Liability Company “ZAVKOM-ENGINEERING” is your reliable EPC and EPC/M partner in the implementation of high-technology production facilities for the oil and gas chemical industry, biotechnology, and the food industry.

We provide a complete range of engineering services for the integrated implementation of high-technology and energy-efficient industrial units and equipment. We bear full legal responsibility.

- We are a member of the Chamber of Commerce and Industry of the Russian Federation
- We are included in the Register of Engineering Companies of the Russian Federation
- We are a licensor of technologies: naphthalene purification, resin production, evaporation units, production of sulfonated naphthalene plasticizers, formalin, and adhesive compositions
- We operate in the markets of the Russian Federation, the Commonwealth of Independent States, and the Arab Republic of Egypt
- We have our own office in the People’s Republic of China (City of Shanghai)
- We have our own scientific and technical, engineering, and production facilities

200 + person **TEAM**

300 + successful **PROJECTS**

7 000 m² + production **SITES**



Today ZAVKOM-ENGINEERING is complex projects, many years of experience, energy-efficient technologies, high-quality equipment just in time

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Structure

content

ZAVKOM ENGINEERING
BIOTECHNOLOGY | OIL AND GAS CHEMISTRY

LLC «VIVAT»

founder

General Director: ***Sergey Nikolaevich Artyomov***
(acting on the basis of the Charter)

LLC «ZAVKOM-ENGINEERING»

ZAVKOM ENGINEERING

EPC and EPC/M partner for the implementation of high-technology production facilities

General Director: ***Yuri Gennadyevich Kombarov***
(acting on the basis of the Charter)

zavkomgroup.com

JSC «ZAVKOM»

ZAVKOM
AN EPC COMPANY

Machine-Building Plant «Komsomolets»

General Director: ***Sergey Vladimirovich Abrosimov***
(acting on the basis of the Charter)

zavkom.com

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Departments

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BIOTECHNOLOGY | OIL AND GAS CHEMISTRY

Petrochemicals

Biotechnology





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Advantages

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BIOTECHNOLOGY | OIL AND GAS CHEMISTRY

EPSM-CONTRACTING	*responsibility for deadlines, quality and production indicators of the facility*
DOMESTIC PRODUCTION	*high-quality and timely implementation of contracts without intermediaries*
SUPPLIES TO INDUSTRY LEADERS	*Gazprom, Sibur, Tatneft, Gazprom-Neft, Novatek*
PROVEN QUALITY	*QMS according to GOST R ISO 9001-2015 and Gazprom Service Station certificates 9001-2018*
DEVELOPMENT AND SUPPLY OF APCS	*production optimization, prevention of mergency situations, remote process management*
PILOTTING TECHNOLOGIES	*reliable testing of new technologies before implementation in real production*
ALL FINANCIAL INSTRUMENTS *LG, LC, SBLC, PB*	*fast and reliable contract conclusion*
PRODUCTION OF SHUT-OFF AND CONTROL VALVES	*in-house brand of shut-off and control valves*

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Advantages

wide range of engineering services

content

ZAVKOM ENGINEERING
BIOTECHNOLOGY | OIL AND GAS CHEMISTRY

A complete range of engineering services for the petrochemical and biotechnological industries

When implementing contracts, the company is the only legally and financially responsible person to the Customer.

EPCM

PRE-PROJECT ENGINEERING

- Technological audit of facilities
- Development of general technical solutions
- Feasibility study

BASIC ENGINEERING

- Development of technical documentation
- Conducting tests on a pilot plant

DETAILED ENGINEERING

Development of documentation | 3D modeling | APCS

- Process calculations based on the developed
- Development of design documentation
  In accordance with the law of Russian Federation Government of dated 16.02.2008 No 87 "On the composition of sections of design documentation and requirements for their content"
- Development of working documentation
- Development of design documentation
- Technical specifications
- Quality control plan for supplied installations, equipment
- Operating manual
- Support during state or non-state expert review of design documentation

EQUIPMENT PROCESSING

- Manufacturing and/or assembly
- Delivery to the Customer's site

FIELD ENGINEERING

- Author's supervision
- Installation supervision
- Commissioning
- Training of the Customer's personnel (operators)

SUPPORT

- Technical support of the Customer during the warranty and post-warranty periods

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Advantages

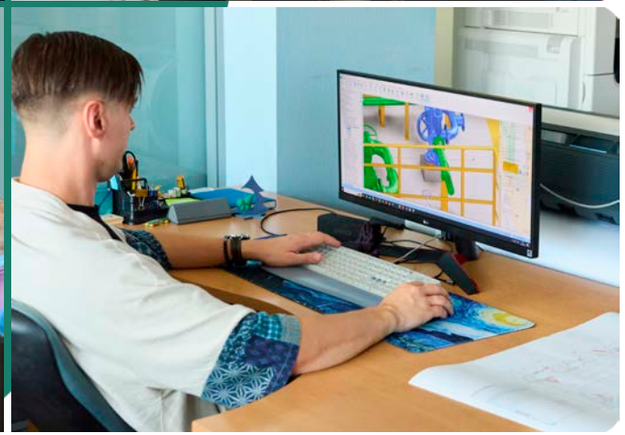
more than 200 qualified employees on staff

content









ZAVKOM ENGINEERING

BIOTECHNOLOGY | OIL AND GAS CHEMISTRY

Company structure

General Director
Biotechnology Department
Petroleum Chemistry Department
Production Department
Accounting Department
Legal Department
Purchasing Department
Marketing Department
Automation Department
APCS Department
Shut-off and control valves department
Supervision-installation activity and commissioning work department
Warehouse Department
Department for Operation Support

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Advantages

more than 7,000 m² of production sites

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- Capacitive equipment
- Heat exchange equipment
- Column equipment
- Reactor equipment
- Shut-off and control valves
- Control cabinets

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Advantages

Own brand of shut-off and control valves

content

ZAVKOM ENGINEERING

BIOTECHNOLOGY | OIL AND GAS CHEMISTRY



- Shut-off and control valves
- Shut-off valves
- Pneumatic valves
- Manual gate valve (wedge)
- Ball valves
- Butterfly disc valves
- Gate valves (gate valves)
- Check valves (gates)
- Mesh filters





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Advantages

Turnkey automated process control system

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BIOTECHNOLOGY | OIL AND GAS CHEMISTRY

- Pre-project maintenance
- Automated process control system development
- Designing
- Manufacturing and implementation
- Installation and commissioning supervision
- Personnel training
- Support

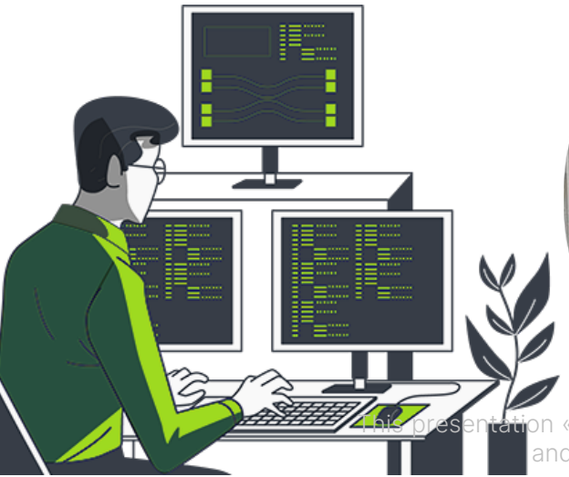


SCADA-system

Automates control and management of technological processes in real time with its own library of Zavkom Control software.

ESD system

Emergency protection, which is the last line of defense that does not allow a person under any circumstances to perform actions that will lead to an emergency situation.







We reduce risks, improve product quality and eliminate accidents in production.

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supplies in the field of deep grain processing

Advantages

many years' experience working with foreign licensors

content

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BIOTECHNOLOGY | OIL AND GAS CHEMISTRY





more than 10 years of cooperation with world technology leaders

competencies for the implementation of joint projects

many years of experience in adapting technologies to Russian production

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ZAVKOM ENGINEERING
OIL AND GAS CHEMISTRY

Petrochemistry Department Projects

Packaged modular equipment
Production units for industrial water from complex effluents
CO_2 purification units for industrial alcohol production
Salt concentrate evaporation units
Vacuum evaporation units for VOCs
Rectification units and vacuum evaporation units
Resin and UFC production plants
Resin production plants
Adhesive compositions production units
Formaldehyde and UFC production units
Caprolactam crystallization unit
Naphthalene production unit
Production of aniline and N-methylaniline

content

All projects

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Aspects

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ZAVKOM ENGINEERING
OIL AND GAS CHEMISTRY

PRODUCTION, PROCESSING, TRANSPORTATION OF OIL AND GAS

- Packaged modular equipment
- Integrated gas treatment plants
- Amine and alkali gas purification units
- Process water production units for a complex of thermal neutralization of liquid effluents

WATER TREATMENT AND EFFLUENT TREATMENT

- Wastewater treatment units
- Water treatment units
- Wastewater treatment units

CONCENTRATION TECHNOLOGIES

- Evaporation units

WOODWORKING CHEMISTRY

- Formaldehyde resin production units
- Adhesive compositions production units

CLEANING AND REGENERATION

- Units for purification of naphthalene, benzene, etc.
- Solvent recovery and mixture separation plants

CATALYTIC SYNTHESIS

- Formaldehyde and UFC production units

RELEASE OF FINISHED BULK PRODUCTS

- Crystallization and flaking units

SPECIAL EQUIPMENT

ANILINE PRODUCTION

All aspects

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Projects

extraction, processing, transportation of oil and gas

As part of the project for the development of the Yuzhno-Kirinskoye oil and gas condensate field

content

PRODUCTION FIELDS DEVELOPMENT

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Projects

extraction, processing,
transportation of oil and gas

content

ZAVKOM ENGINEERING
OIL AND GAS CHEMISTRY



Scope of delivery

As part of the project for the development of the Yuzhno-Kirinskoye oil and gas condensate field

- Mega regeneration units, reflux tanks, degassing separator for liquid mixtures
- Blocks of buffer and emergency tanks
- Primary and low-temperature separator blocks

— development of working design documentation
— manufacturing and complete supply of equipment



Packaged modular equipment
LLC "RusGazShelf" for PJSC "Gazprom"

2025

Sakhalin Island

Open reference

Open the delivery video

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Download video

MANUFACTURING AND SUPPLY

of packaged modular equipment from ZAVKOM-ENGINEERING
for Yuzhno-Kirinskoye oil/gas/condensate field

ZAVKOM®
ENGINEERING
OIL AND GAS CHEMISTRY

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Download video

INTERGAZSERT

Successful certification experience of ZAVKOM-ENGINEERING

ZAVKOM ENGINEERING

OIL AND GAS CHEMISTRY

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INTERGAZSERT

Voluntary Certification System

content

ZAVKOM ENGINEERING
OIL AND GAS CHEMISTRY



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ИНТЕРГАЗСЕРТ
РОСС RU.31570.04ОГН0

ОРГАН ПО СЕРТИФИКАЦИИ СИСТЕМ МЕНЕДЖМЕНТА КАЧЕСТВА «КЦ «ПЕРСПЕКТИВА» № ОГН1.RU.1416

Российская Федерация, 105120, г. Москва, улица Нижняя Сыромятническая, д. 11, стр. 52, этаж 6, пом. I, ком. 7, 8, 9, тел.: +7 (495) 721-35-85, e-mail: info@kc-perspektiva.ru

СЕРТИФИКАТ СООТВЕТСТВИЯ

№ ОГН1.RU.1416.K00365 К 01303
Срок действия с 08.02.2024 по 07.02.2027
СЕРТИФИКАТ ВЫДАН : Обществу с ограниченной ответственностью «ЗАВКОМ-ИНЖИНИРИНГ» (ООО «ЗАВКОМ-ИНЖИНИРИНГ»)

АДРЕС : Российская Федерация, 392000, г. Тамбов, ул. Советская, д. 51, оф. 319
Телефон: +7 (4752) 79-37-22. Факс: +7 (4752) 70-35-25., e-mail: office@zavkomepc.com

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Действует с приложением

СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ
СТО Газпром 9001-2018

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Эксперт С.Н. Морозов



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СВИДЕТЕЛЬСТВО ОБ ОЦЕНКЕ ДЕЛОВОЙ РЕПУТАЦИИ

№ ОГН1.RU.1416.00129 ДР 00326
Срок действия с 10.01.2024 по 09.01.2027
ИНДЕКС ДЕЛОВОЙ РЕПУТАЦИИ

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(полное наименование заказчика)
применительно к

28.14, 28.25.1, 28.99.9, 33.12, 41.20, 43.11, 43.12.3, 43.21, 43.91, 43.99,
(виды экономической деятельности по ОК 029-2014)
43.99.1, 46.69.9, 46.75.2, 71.12.1, 71.12.12, 71.20.9

СОСТАВЛЯЕТ 72,4

СВИДЕТЕЛЬСТВО ВЫДАНО НА ОСНОВАНИИ РЕШЕНИЯ ОРГАНА ПО СЕРТИФИКАЦИИ СИСТЕМ МЕНЕДЖМЕНТА КАЧЕСТВА «КЦ «ПЕРСПЕКТИВА» О ВЫДАЧЕ СВИДЕТЕЛЬСТВА ОБ ОЦЕНКЕ ДЕЛОВОЙ РЕПУТАЦИИ ОТ 04 СЕНТЯБРЯ 2023 ГОДА

ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ

Руководитель органа по сертификации Б.Б. Говорков
Эксперт С.Н. Морозов



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ИНТЕРГАЗСЕРТ
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ОРГАН ПО СЕРТИФИКАЦИИ ПРОДУКЦИИ АО НПЦ НПФ «Русская лаборатория», регистрационный номер ОГН4.RU.1103, юридический адрес: 197101, Российская Федерация, Санкт-Петербург, пер. Пушкарский, д. 9, литер А, помещение 3-Н, часть 1, телефон: +7 (812) 325-66-24, e-mail: osp@rulab.org

СЕРТИФИКАТ СООТВЕТСТВИЯ

№ ОГН4.RU.1103.B02922 П 04821
Срок действия с 08.02.2024 по 07.02.2027
ПРОДУКЦИЯ: ТИП ПРОДУКЦИИ: Фильтры жидкостные ФЖД, работающие под давлением не более 16,0 МПа, изготавливаемые по техническим условиям 28.29-006-12411205-2023 ТУ «Фильтр жидкостный. Технические условия». Серийный выпуск.
Состав блочно-модульного оборудования и технические характеристики указаны в Приложении, бланк № ПП 03081 к настоящему сертификату

КОД ОК 034-2014: 28.29.12.130 КОД ТН ВЭД РФ: -
СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ НОРМАТИВНЫХ ДОКУМЕНТОВ
СТО Газпром 2-2.1-607-2011 (п.п.: 4.1.3, 4.2, 4.9.2, 5.1.2, 6.1.1, 6.1.5, 7.6, 7.8.2, 8.2); ГОСТ 34347-2017 (п.п.3.1.1, 3.1.2, 3.1.4, 3.1.6, 3.2.9, 3.4.2, 3.6.1, 4.1, 4.2, 4.3, 4.6, 4.7, 5.1.1, 5.1.2, 5.1.4-5.1.6, 5.2.1, 5.2.4, 5.3.3.1-5.3.3.3, 5.4, 5.5.1, 5.5.4, 5.5.7, 7.11, 7.12.4)

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Телефон: +7 (4752) 79-37-22. Факс: +7 (4752) 70-35-25. E-mail: office@zavkomepc.com

НА ОСНОВАНИИ Отчета 1 этапа (измерительная проверка) № 30.2 от 31.07.2023 по результатам оценки технической и нормативной документации на продукцию, экспертного заключения № 30.2/СМС+/53 от 13.11.2023 по результатам проверки типового образца продукции, решения № ИГ/319787/24-РЕШТП (СМС+) от 08.02.2024 о выдаче сертификата на тип продукции органа по сертификации продукции АО НПЦ НПФ «Русская лаборатория» (регистрационный номер № ОГН4.RU.1103)

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2. Заявитель должен информировать орган по сертификации о начале изготовления продукции сертифицированного типа и согласовывать с органом по сертификации объем контроля и испытаний, проводимых в присутствии представителя органа по сертификации

Руководитель органа по сертификации О.С. Виховский
Эксперт А.Н. Луценко



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ИНТЕРГАЗСЕРТ
РОСС RU.31570.04ОГН0

ОРГАН ПО СЕРТИФИКАЦИИ ПРОДУКЦИИ АО НПЦ НПФ «Русская лаборатория», регистрационный номер ОГН4.RU.1103, юридический адрес: 197101, Российская Федерация, Санкт-Петербург, пер. Пушкарский, д. 9, литер А, помещение 3-Н, часть 1, телефон: +7 (812) 325-66-24, e-mail: osp@rulab.org

СЕРТИФИКАТ СООТВЕТСТВИЯ

№ ОГН4.RU.1103.B02923 П 04792
Срок действия с 08.02.2024 по 07.02.2027
ПРОДУКЦИЯ: ТИП ПРОДУКЦИИ: Блоки технологические емкостные БТЕ, изготавливаемые по техническим условиям 28.99-005-12411205-2022 ТУ «Блоки технологические емкостные БТЕ. Технические условия». Серийный выпуск.
Состав блочно-модульного оборудования и его технические характеристики указаны в Приложении, бланк № ПП 03082 к настоящему сертификату.

КОД ОК 034-2014: 28.99.39.190 КОД ТН ВЭД РФ: -
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СТО Газпром 2-2.1-607-2011 (п.п.: 4.1, 4.2, 4.3.2, 4.3.4, 4.3.5, 4.3.6, 4.4, 4.6, 4.7, 4.8, 4.9, 6.3, 6.4.15, 6.4.18, 7.4, 7.5, 7.7.1, 7.8.2, 8.2, 14.9, рисунок 5, 11, 12, 13)

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НА ОСНОВАНИИ Отчета 1 этапа (измерительная проверка) № 30.1 от 31.07.2023 по результатам оценки технической и нормативной документации на продукцию, экспертного заключения № 30.1/СМС+/53 от 13.11.2023 по результатам проверки типового образца продукции, решения № ИГ/319787/24-РЕШТП (СМС+) от 08.02.2024 о выдаче сертификата на тип продукции органа по сертификации продукции АО НПЦ НПФ «Русская лаборатория» (регистрационный номер № ОГН4.RU.1103)

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Руководитель органа по сертификации О.С. Виховский
Эксперт О.В. Жаворонкин



СИСТЕМА ДОБРОВОЛЬНОЙ СЕРТИФИКАЦИИ
ИНТЕРГАЗСЕРТ
РОСС RU.31570.04ОГН0

ОРГАН ПО СЕРТИФИКАЦИИ ПРОДУКЦИИ ООО «МГТ».
Регистрационный номер № ОГН4.RU.1119 от 12.07.2023.
Адрес юридического лица: Российская Федерация, 109263, г. Москва, ул. Малышева, д. 13, к. 2, этаж 1, помещение I, комната 33, телефон/факс: +7 (499) 113-33-20, адрес электронной почты: info@osmgt.ru.

СЕРТИФИКАТ СООТВЕТСТВИЯ

№ ОГН4.RU.1119.B03515 П 05792
Срок действия с 14.02.2025 по 13.02.2028
ПРОДУКЦИЯ:
Уровнемер микроимпульсный УМ.
Продукция изготовлена в соответствии с техническими условиями ТУ 26.51.52-008-12411205-2023.
Серийный выпуск.

КОД ОК 034-2014: 26.51.52.120 КОД ТН ВЭД РФ: -
СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ НОРМАТИВНЫХ ДОКУМЕНТОВ
ГОСТ Р 52931-2008 (пп. 5.1, 5.2, 5.5, 5.11, 5.14.2, 5.14.6, 5.17, 5.19.6, 5.19.8, 5.21.1, 5.21.2, 5.22, 5.33, 8.1.4, 9.1); ГОСТ 28725-90 (пп. 1.3.2, 1.4.1, 1.4.2, 1.4.5, 1.4.6, 1.4.8, 1.4.11, 1.4.13, 1.5.2); ГОСТ 14254-2015 (IEC 60529:2013) (п. 5.2, р.6).

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Адрес места осуществления деятельности по изготовлению продукции: 392000, г. Тамбов, ул. Советская, д. 51.
Телефон: (4752) 79-37-22; адрес электронной почты: office@zavkomepc.com.

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Телефон: (4752) 79-37-22; адрес электронной почты: office@zavkomepc.com.

НА ОСНОВАНИИ
Акта о результатах анализа состояния производства № 4-22416 от 01.10.2024; протокола сертификационных испытаний № 4-22416-120118-ОГН4.RU.26540ИЛ) от 10.12.2024 ИЛ ООО «МГТ» (свидетельство о признании компетентности № ОГН4.RU.2654; срок действия до 18.08.2027); протоколов сертификационных испытаний № 014-ИГС/24 от 23.12.2024 ИЛ ССВ «МТУСИ» (свидетельство о признании компетентности № ОГН4.RU.2622; срок действия до 25.12.2024); акта экспертной группы по сертификации продукции № 4-22416 от 05.02.2025; решения о выдаче сертификата соответствия № 4-22416 от 14.02.2025.

ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ
Схема сертификации 2d.
Сертификат об утверждении типа № 93001-24, срок действия до 23.08.2029.

Руководитель органа по сертификации Д.А. Копылов
Эксперт С.Н. Бухаров

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Projects

concentration technologies,
wastewater treatment

content

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OIL AND GAS CHEMISTRY



As part of the project for the development of the Yuzhno-Kirinskoye oil and gas condensate field

Scope of delivery

- Development of working design documentation
- Complete supply of process equipment
- Development of automated process control systems

Learn more about the project

The unit is part of the technological complex for thermal disposal of wastewater of the project "Development of the Yuzhno-Kirinskoye Gas Condensate Field". It includes more than 40 units of large equipment with a total weight of >600 tons. It is designed and equipped taking into account the location in the coastal zone of a seismically active region.

Process water production unit from complex effluents for a complex of thermal neutralization of liquid wastewater

Gazprom VNIIGAZ LLC

2025

Sakhalin Island

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Projects

amine and alkaline gas treatment

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OIL AND GAS CHEMISTRY

GAS TREATMENT

content

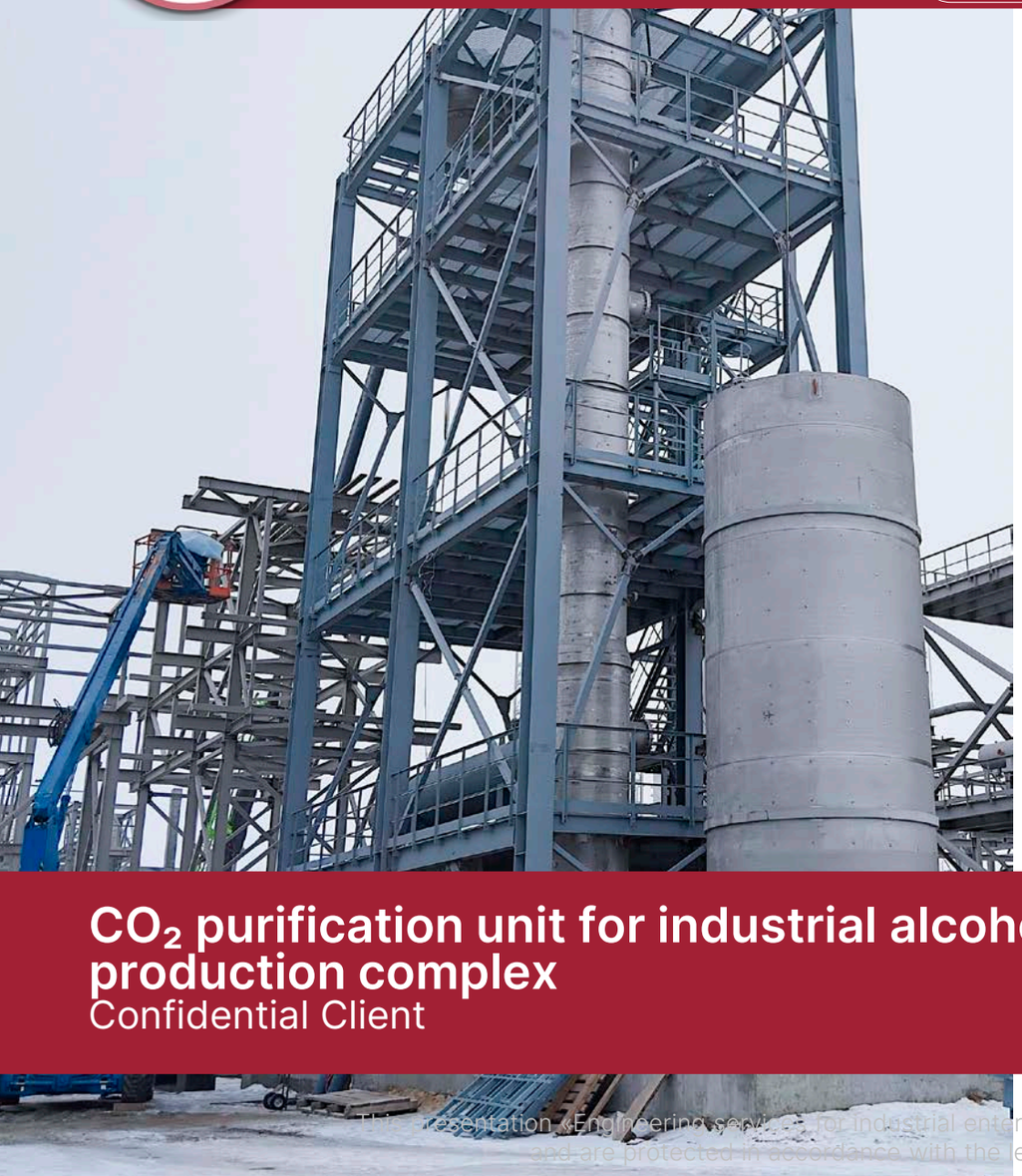
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amine and alkaline gas treatment

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Scope of delivery

- Development of design documentation
- Development of working documentation (recalculation of material balance and replacement of imported chemicals)
- Manufacturing and supply of process equipment
- Development of automated process control systems
- Manufacturing and supply of control cabinets and power cabinets, software
- Installation supervision
- Commissioning

CO_2 purification unit for industrial alcohol production complex

Confidential Client

Implementation

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Projects
concentration technologies

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EVAPORATION UNITS

content

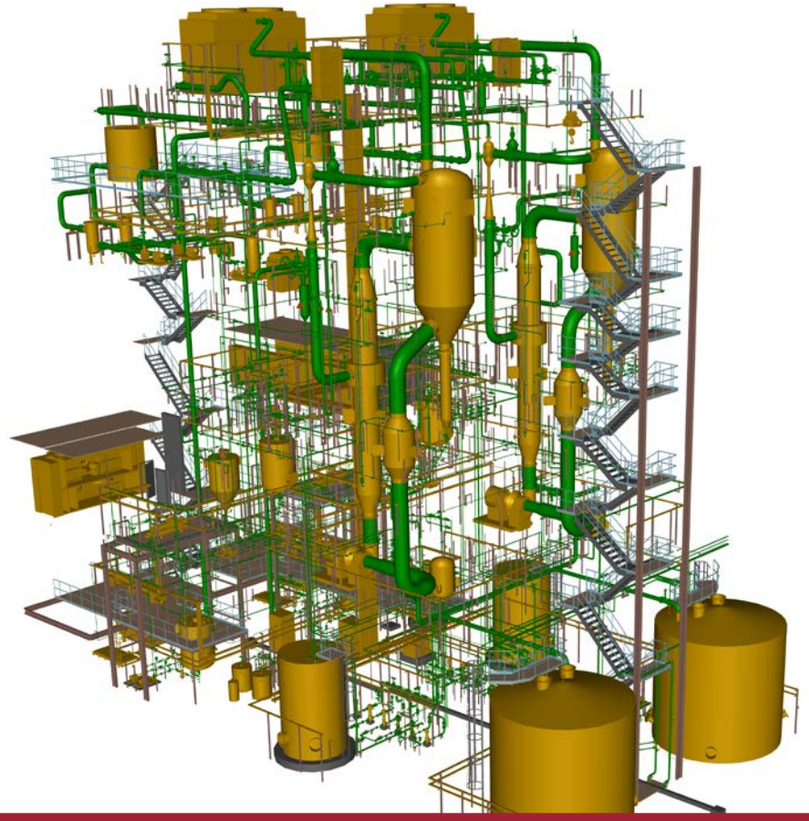
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OIL AND GAS CHEMISTRY



Evaporation unit

Technotex LLC

Implementation

Scope of delivery

- Process Design
- Development of design documentation
- Manufacturing, supply of equipment
- Development of automated process control systems
- Supervision of installation and commissioning works
- Personal training

Learn more about the project

Implementation of the salt concentrate evaporation and crystallization unit followed by dewatering to minimize and utilize salt sludge.

Capacitive, filtering, heat exchange equipment, pumps, decanter, evaporator, salt column, heating chamber, cooling towers, centrifuges, ejectors, shut-off valves are supplied.

Krasnodar region

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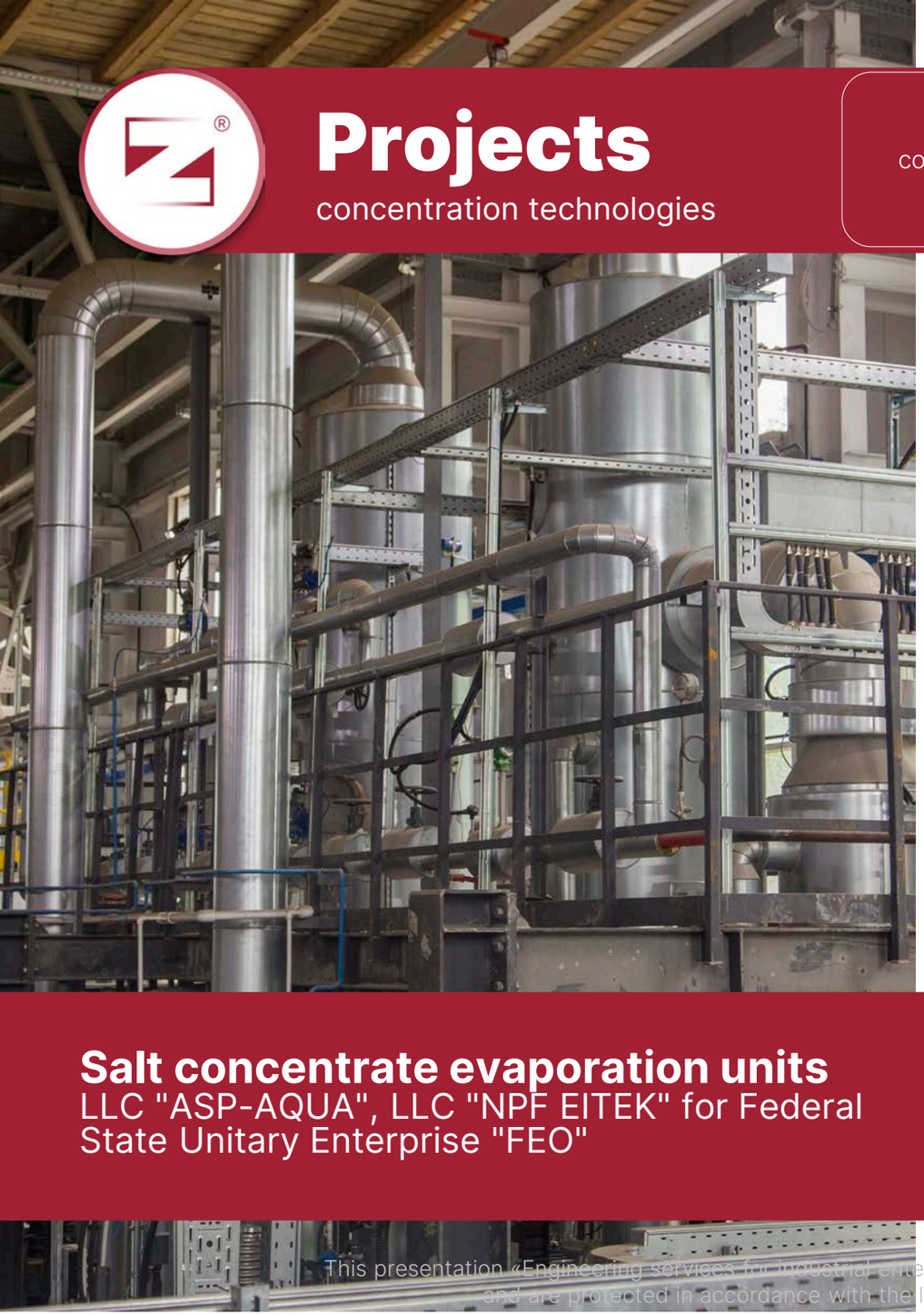
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EQUIPMENT SUPPLY

for installation from ZAVKOM-ENGINEERING for Ilsky Oil Refinery

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Salt concentrate evaporation units

LLC "ASP-AQUA", LLC "NPF EITEK" for Federal State Unitary Enterprise "FEO"

2023

Scope of delivery

- Development of working design documentation
- Complete supply of process equipment
- Development of automated process control systems
- Installation supervision
- Commissioning

Learn more about the project

The units are equipped with innovative mechanical vapor recompression (MVR) and forced circulation technology, which contributes to resource conservation of production, increases its energy efficiency and profitability, and ensures environmental safety. The equipment was implemented as part of a project to reclaim a landfill and process industrial waste.

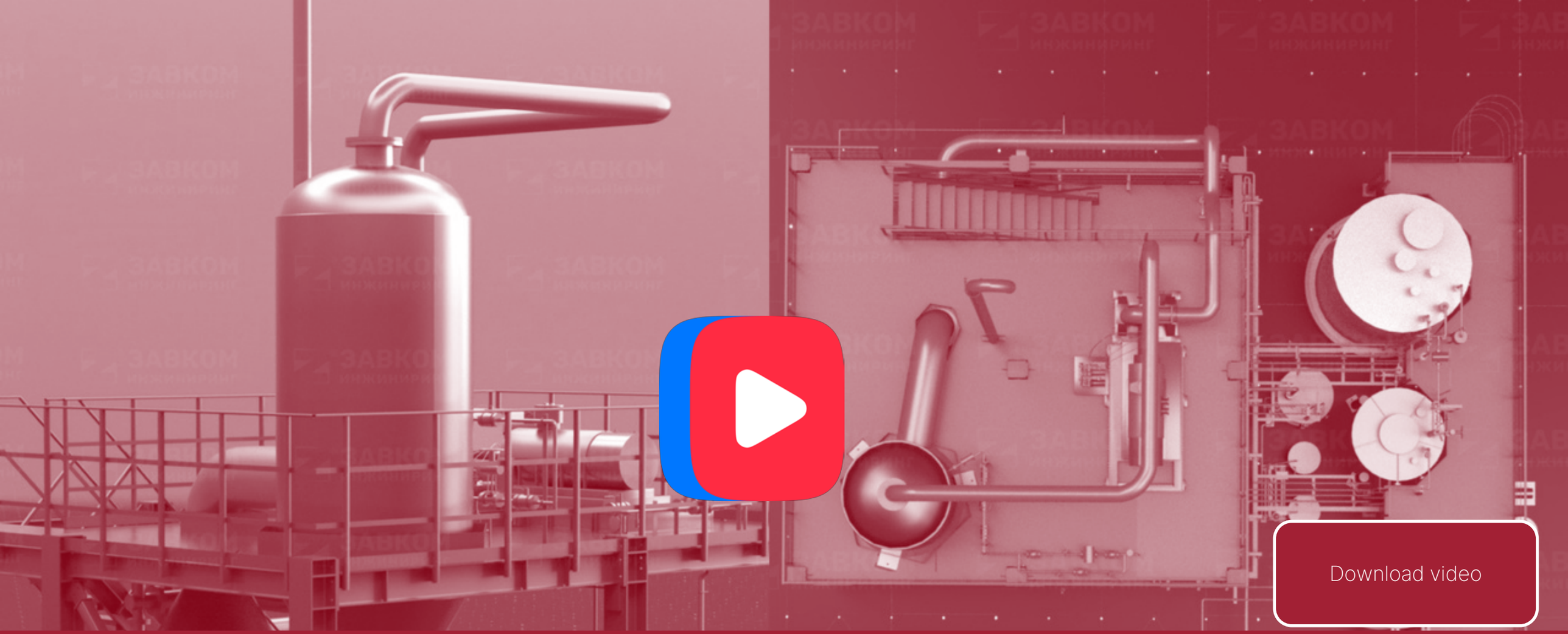
Leningrad region

Open reference

Open installation process video

Open 3D video

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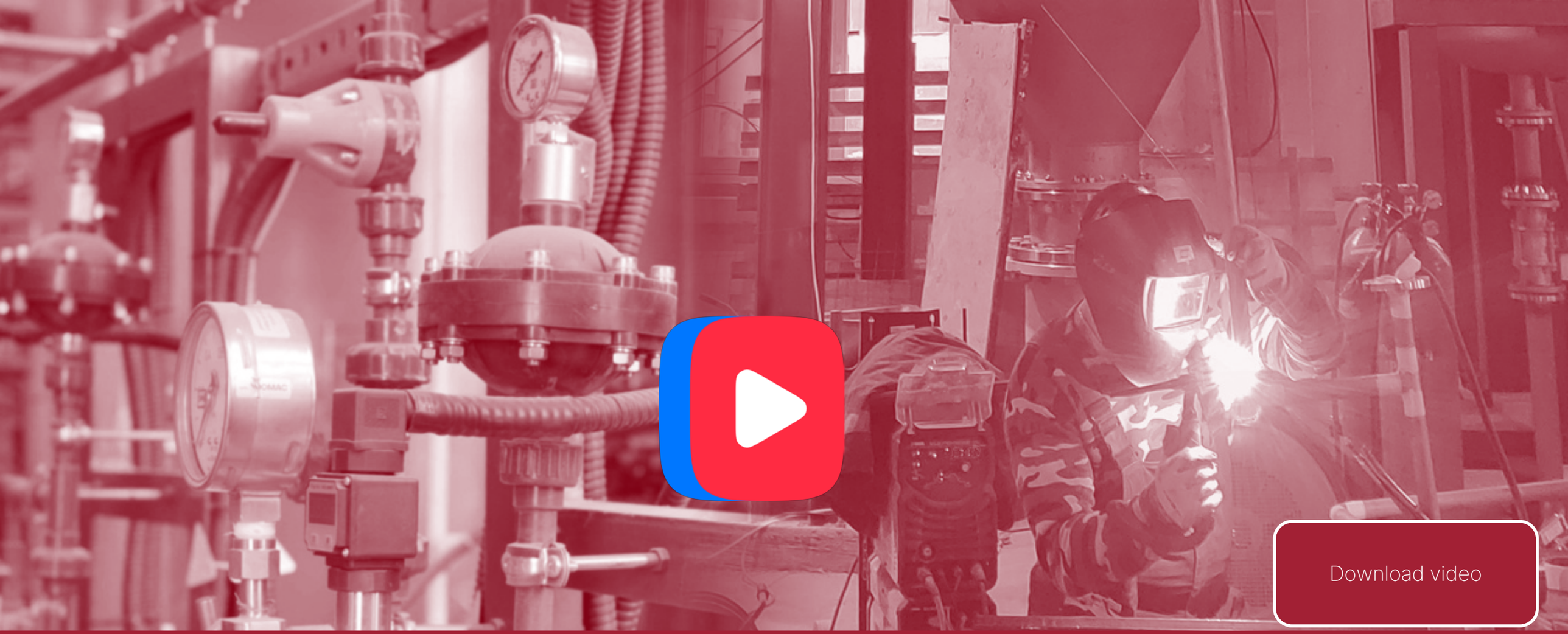
EVAPORATION PLANTS WITH MVR TECHNOLOGY

operating principles from ZAVKOM-ENGINEERING

ZAVKOM® ENGINEERING

OIL AND GAS CHEMISTRY

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INSTALLATION

of vacuum evaporation units for utilization of salt concentrates

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Scope of delivery

- Pre-engineering surveys
- Development of basic and detailed engineering
- Process and general (overall) engineering design
- Development and implementation of an Automated Process Control System (APCS)
- Supply of process equipment
- Erection and installation works
- Commissioning works

Open 3D video

Open reference

Reverse Osmosis Concentrate Polishing Unit within the Framework of Remediation of Accumulated Environmental Damage at JSC «Baikal Pulp and Paper Mill»
Federal State Unitary Enterprise "Federal Environmental Operator"

Implementation

Irkutsk Region

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Scope of delivery

- Process Design
- Development of design documentation
- Manufacturing, supply of equipment
- Supervision of installation and commissioning works
- Personal training

Reverse osmosis concentrate polishing unit with a capacity of 900 kg/h

LLC «ASP AQUA» for Federal State Unitary Enterprise «Federal Environmental Operator»

Implementation

Irkutsk Region

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Vacuum evaporation unit for VOCs

JSC Voronezhsintezkauchuk
(PJSC SIBUR Holding)

2019

Scope of delivery

- Development of design and working documentation
- Complete supply of process equipment:

— vacuum evaporation unit
— lithium salt drying unit
— lithium salt packaging unit in equipment bags

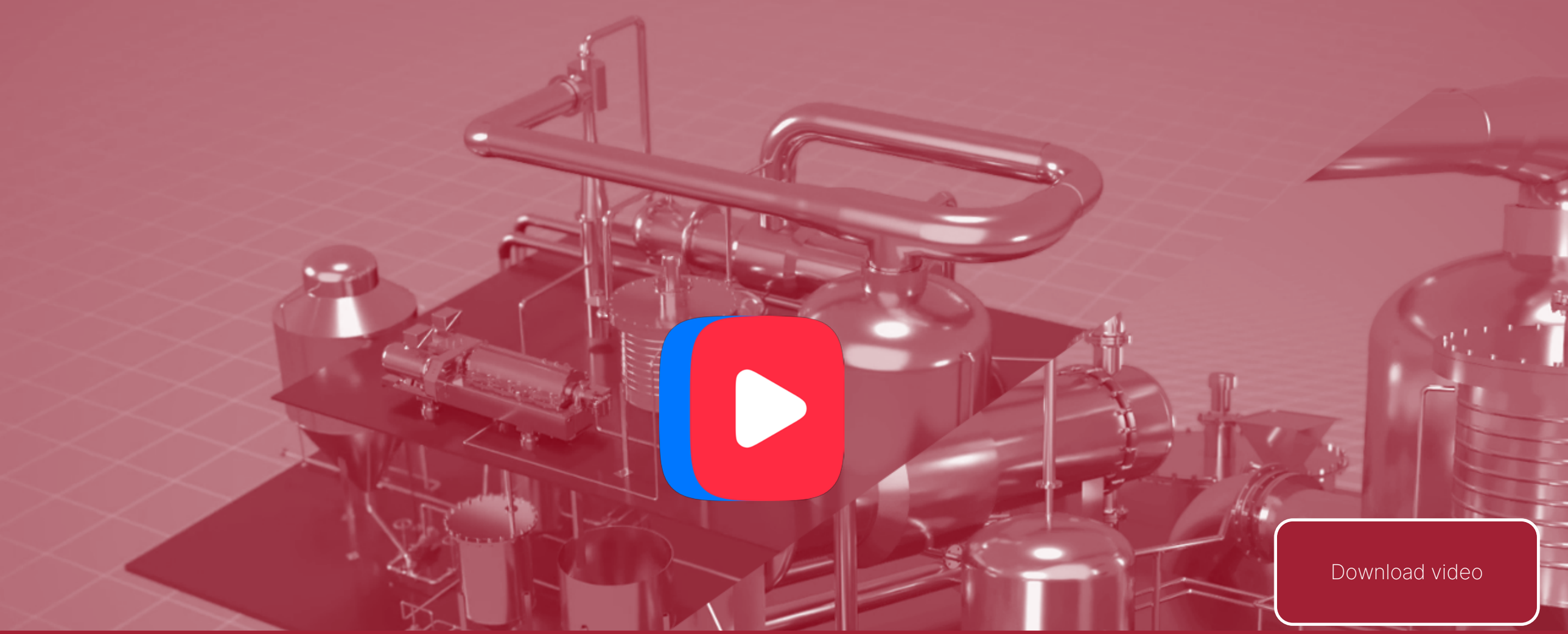
- Development of automated process control systems
- Installation supervision
- Commissioning
- Personal training

Voronezh region

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VACUUM EVAPORATION UNIT

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Scope of delivery

- General design of a pharmaceutical substance manufacturing plant
- Development of design and working documentation
- Complete supply of process equipment:
  - — solvent rectification units
  - — solvent storage warehouse
  - — Peptide solution vacuum evaporation unit
- Development of automated process control systems
- Installation work
- Commissioning work
- Staff training

Rectification plant and vacuum evaporation plant
Geropharm LLC

2017

Leningrad region

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Projects

woodworking chemicals

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RESINS

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Scope of delivery

- Basic engineering
- Detailed engineering
- Installation supervision
- Commissioning



Formaldehyde, resins and polynaphthalene sulfonate production Plant

Suez Methanol Derivatives,
Egyptian Maintenance Company

Implementation



Egypt

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Resin production Units

Shattdekor LLC

2017

2021

Scope of delivery

- Development of design and working documentation
- Complete supply of process equipment:

— resin production unit
— raw material and reagent storage warehouse
— finished product storage warehouse

- Development of automated process control systems
- Installation supervision
- Commissioning
- Personal training

Moscow region

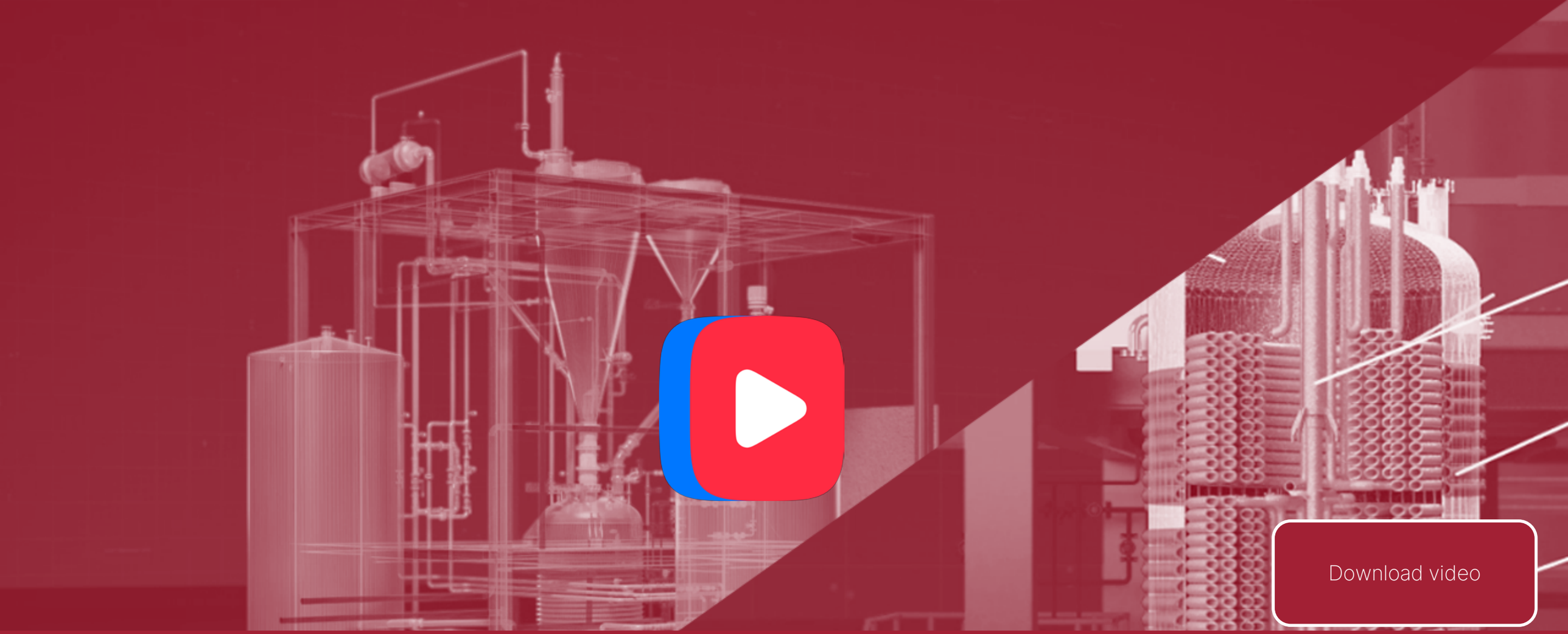
Tyumen region

Open reference 2017

Open reference 2021

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RESIN PRODUCTION INSTALLATION

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Projects

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Scope of delivery

- Process Design
- Complete supply of technological equipment
- Development of automated process control systems
- Installation supervision
- Commissioning

Learn more about the project

The unit was implemented within the framework of the project "Construction of a plywood production facility and a thermal power plant using wood raw materials". At the final stage, the company's specialists also provided technical support for the work of: the glue kitchen in terms of completing installation work; on piping water pipelines; on piping urea glue supply pipelines to the presses; on installing shut-off and control valves; on connecting valves; on piping the refrigeration machine; on installing fans.

Adhesive Compositions Production Unit
Synergy LLC

2024

Sverdlovsk region

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Projects

catalytic synthesis

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FORMALIN AND UFC

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Projects

woodworking chemicals

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Formaldehyde and UFC production units

Confidential Client

2024

Scope of delivery

- Development of design documentation
- Development of working documentation
- Manufacturing and assembly of main process equipment
- Development of automated process control systems
- Installation supervision
- Commissioning

Learn more about the project

Production at the plant is organized as a continuous technological process. The main advantage is the ability to produce both formalin and UFC-85 of various grades on one process line, spending a minimum amount of time to switch from one aqueous solution to another.

Tula region

Open reference

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FORMALIN AND UFC PRODUCTION

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Projects

release of finished bulk products

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CRYSTALLIZATION AND FLAKING

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Projects

release of finished bulk products

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Scope of delivery

- Development of working design documentation
- Manufacturing and complete supply of equipment
- Development of automated process control systems
- Installation supervision
- Commissioning

Caprolactam crystallization plant 60000 t/y

JSC Shchekinoazot

2020

Tula region

Open reference



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Projects
Purification and regeneration

ZAVKOM ENGINEERING
OIL AND GAS CHEMISTRY

PURIFICATION OF NAPHTHALENE, BENZENE

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Projects

purification and regeneration

content

ZAVKOM ENGINEERING
OIL AND GAS CHEMISTRY



Naphthalene production plant

JSC MMK

2018

Scope of delivery

- Development of technology for obtaining naphthalene from naphthalene-containing fraction
- Development of design and working documentation
- Complete supply of process equipment:

— naphthalene rectification unit
— raw material storage warehouse
— finished product storage warehouse
— naphthalene flake production unit

- Development of automated process control systems
- Installation supervision, commissioning works
- Personal training

Learn more about the project

The unit enables the production of commercial naphthalene in liquid and solid form with a concentration of at least 97.5%. Emissions into the atmosphere are excluded. Increases production volumes (up to +15,000 t/year).

Chelyabinsk region

Open reference

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Projects

aniline production plants

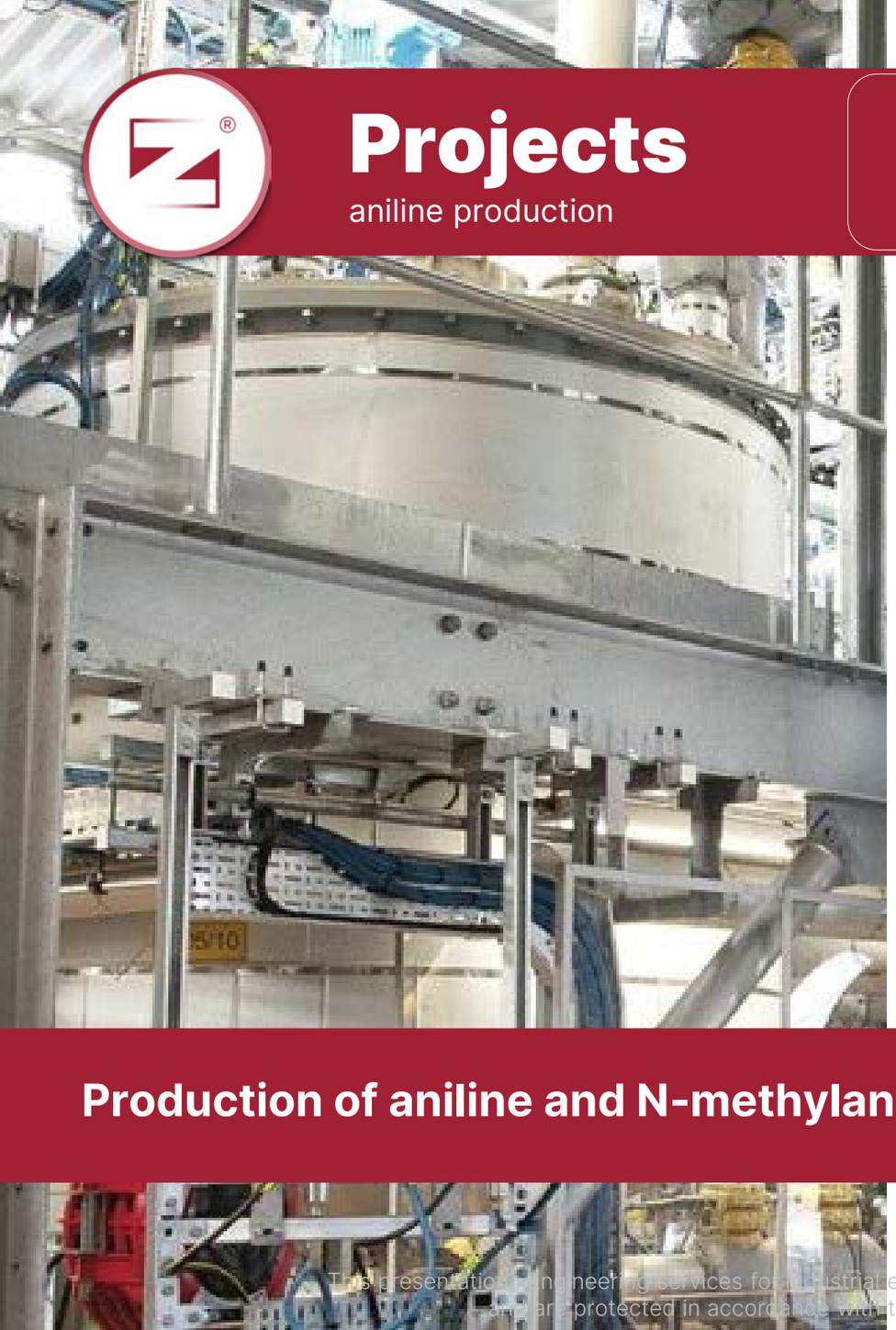
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OIL AND GAS CHEMISTRY

ANILINE

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Projects

aniline production

content

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OIL AND GAS CHEMISTRY

Production of aniline and N-methylaniline

Scope of delivery

- Development of design documentation
- Development of working documentation
- Manufacturing and assembly of main process equipment
- Development of automated process control systems
- Installation supervision
- Commissioning

Learn more about the project

Aniline is one of the most important amines. It is used in the production of dyes, medicines, resins, as rubber vulcanization accelerators, and as a black dye in itself. Its derivative, methyl orange, is used as an indicator for acid-base titration.

We provide a full range of engineering services for the implementation of equipment and installations for the production of aniline.

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BIOTECHNOLOGY

Biotechnology Department Projects

Deep processing plants for wheat
Deep processing plants for peas
Pilot installations
Citric acid production plants
Boiling house (brewery)
Beer fermentation departments
Distilleries
Microbial protein production plants from natural gas

content

All projects

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Aspects

content

ZAVKOM ENGINEERING
BIOTECHNOLOGY

DEEP PROCESSING

- Wheat
- Corn
- Peas

MICROBIAL PROTEIN PRODUCTION FROM NATURAL GAS

PRODUCTION OF AMINO ACIDS AND ORGANIC ACIDS

FEED YEAST PRODUCTION

ENZYME PRODUCTION

BREWERIES

- Boilhouse (brewery)
- Pure yeast culture departments
- Fermentation departments
- CCT departments
- SIP washing stations
- Refrigeration and compressor shop tanks
- Pure yeast culture departments
- Fermentation departments
- Forfas department
- CO_2 collection and storage tanks

DISTILLERS

ALCOHOL PRODUCTION

PROCESSING OF POST-ALCHOLIC DISTILLERY

DRYING UNITS

EVAPORATION UNITS

WATER TREATMENT SYSTEMS

All aspects

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Projects

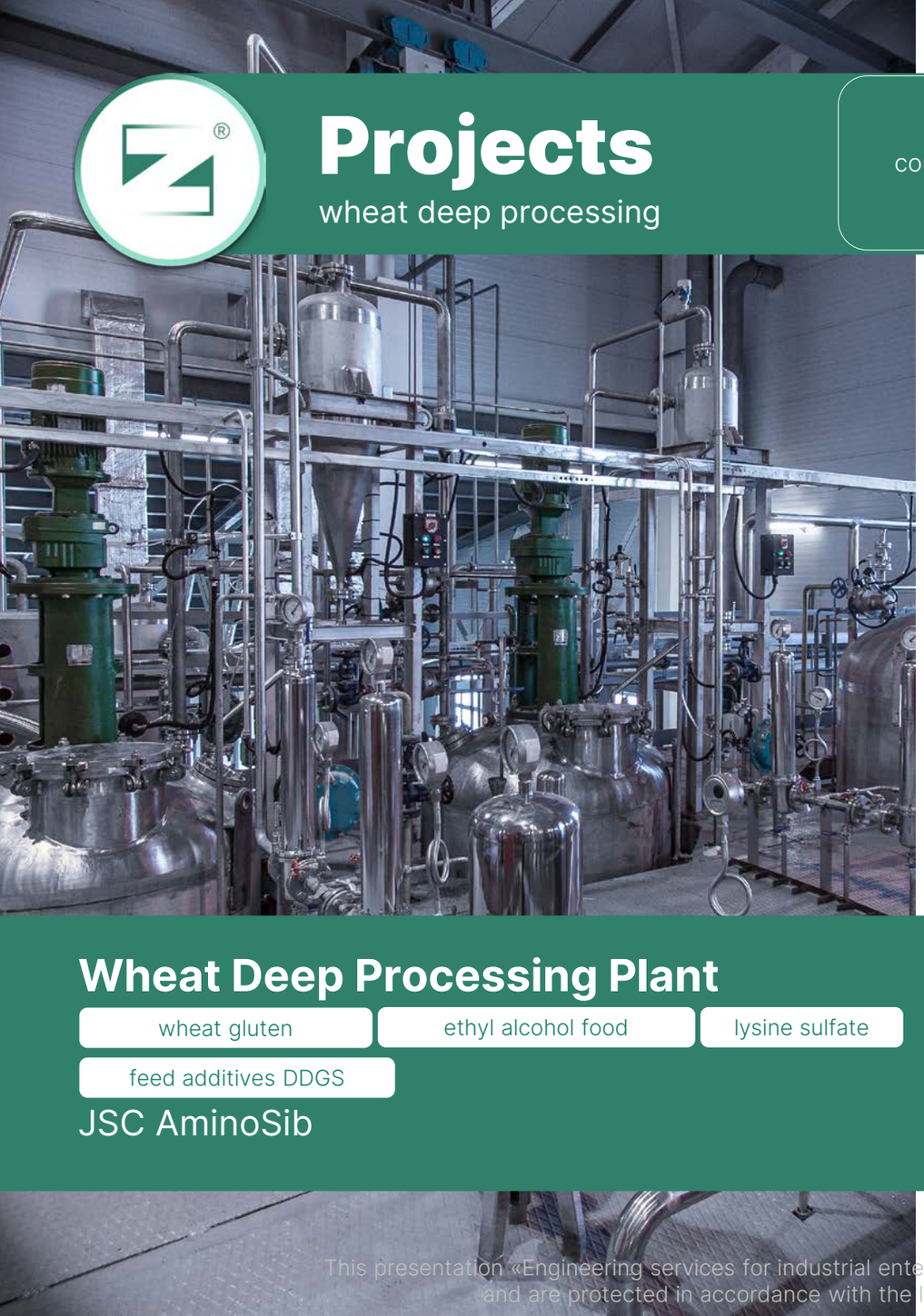
deep processing of wheat, corn, peas

ZAVKOM ENGINEERING
BIOTECHNOLOGY

WHEAT DEEP PROCESSING

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Projects

wheat deep processing

content

ZAVKOM ENGINEERING
BIOTECHNOLOGY

Wheat Deep Processing Plant

wheat gluten | ethyl alcohol food | lysine sulfate | feed additives DDGS

JSC AminoSib

2017

Tyumen region

Scope of delivery

- Project documentation
- Passing expertise
- Complete supply of process equipment
- Installation works
- Development of automated process control systems
- Commissioning works
- Personal training
- Warranty and post-warranty service

Open reference

Video

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WHEAT DEEP PROCESSING PLANT

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BIOTECHNOLOGY

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Projects

wheat deep processing

content

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BIOTECHNOLOGY



Wheat Deep Processing Plant

- wheat gluten
- lysine monohydrochloride
- lysine sulfate
- biodegradable plastic
- lactic acid
- feed additives

JSC Sibagro

2022

Scope of delivery

- Basic engineering

Krasnoyarsk region

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Projects

deep processing of wheat, corn, and peas

ZAVKOM ENGINEERING
BIOTECHNOLOGY

PEAS DEEP PROCESSING

content

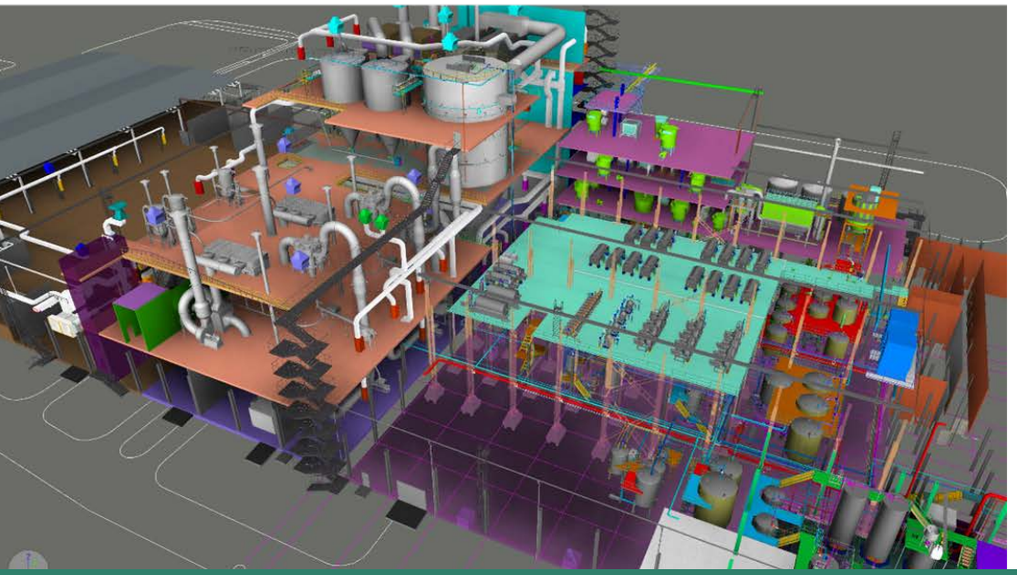
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Projects

peas deep processing

content



Peas deep processing plant

pea starch | pea protein isolate | fibers

Confidential Client

Implementation

Tyumen region

Scope of delivery

- Pre-project development
- Project documentation
- Passing the examination
- Delivery and installation of equipment
- Development of automated process control systems
- Commissioning works
- Personal training

ZAVKOM ENGINEERING
BIOTECHNOLOGY

Open reference

Installing process photos and videos

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Projects

peas deep processing

content

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BIOTECHNOLOGY

Pilot plant for pea processing

pea protein isolate | fibers

JSC "Uralkhim"

2021

Scope of delivery

- Project documentation
- Complete supply of process equipment
- Development of automated process control systems
- Installation works
- Commissioning works
- Personal training
- Warranty and post-warranty service

Moscow region

Open reference

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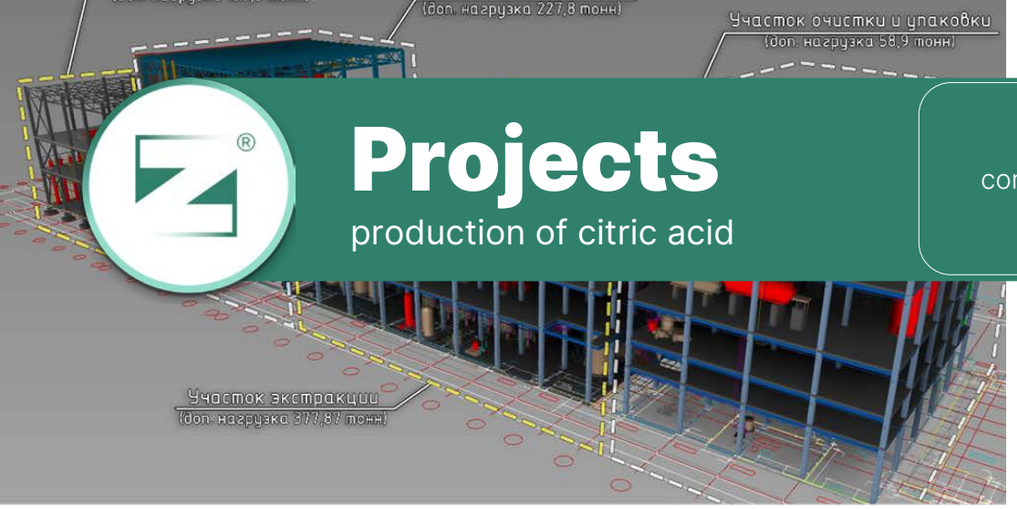
Projects
citric acid production

ZAVKOM ENGINEERING
BIOTECHNOLOGY

AMINO ACIDS, ORGANIC ACIDS

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Projects

production of citric acid

content

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BIOTECHNOLOGY



Citric acid production plant

citric acid | feed additives

ORGANIC ACIDS LLC

Implementation



Scope of delivery

- Design and working documentation
- Passing expertise
- Assembly of fermenter tanks V_{geom}=475 m^3 in the design position
- Installation works



Tula region

Open reference

Installation process photos

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Projects

brewhouses, beer fermentation departments

ZAVKOM ENGINEERING
BIOTECHNOLOGY

BREWERIES

content

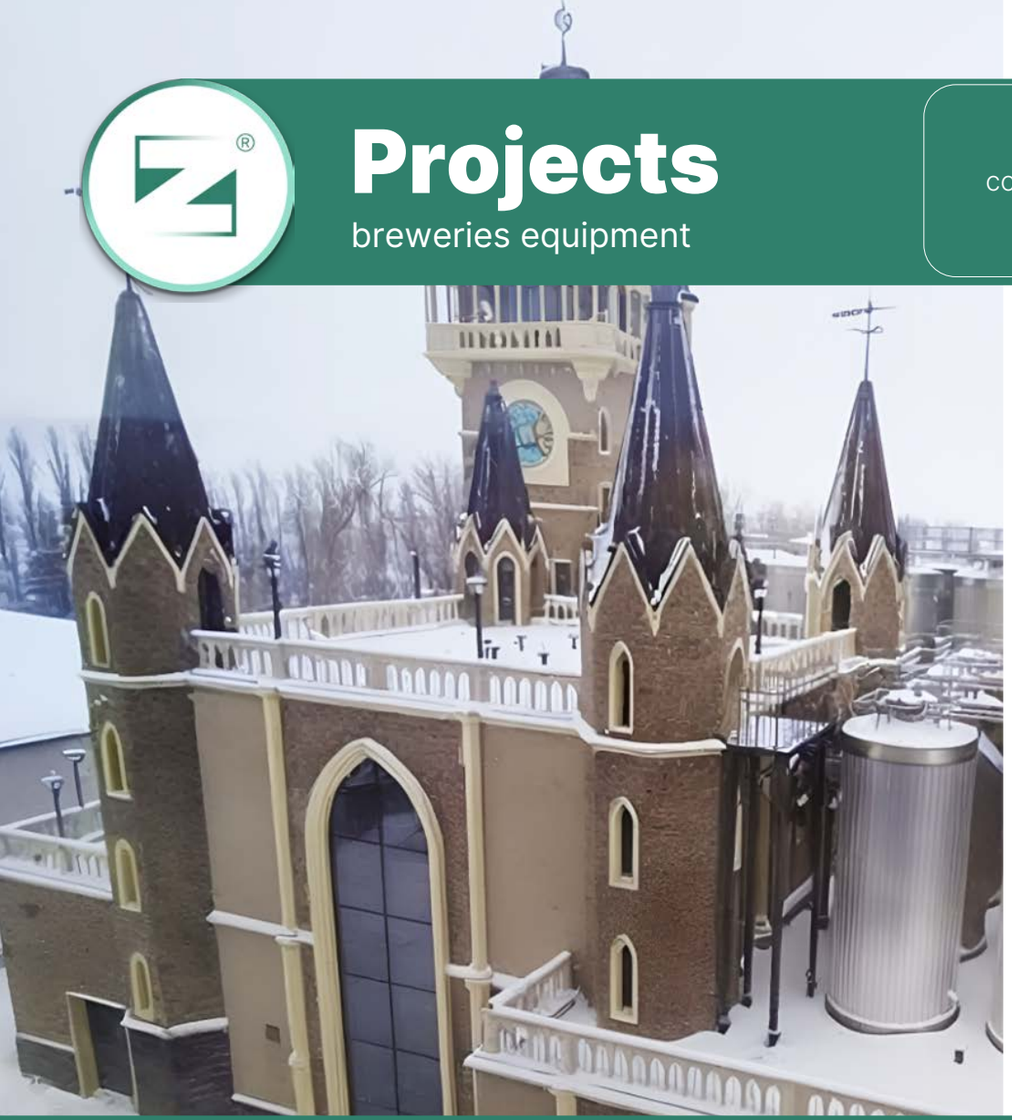
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Projects

breweries equipment

content

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BIOTECHNOLOGY



Boiling house (brewery)

LLC "Brewery Ryugen"

Implementation

Scope of delivery

- Equipment supply
- Development of automated process control systems
- Commissioning works



Voronezh region

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BOILING HOUSE (BREWERY)

operating principles from ZAVKOM-ENGINEERING

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BIOTECHNOLOGY

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Projects

breweries equipment

content

ZAVKOM ENGINEERING
BIOTECHNOLOGY



Beer fermentation department

JSC "Moscow Brewing Company"

2016

Scope of delivery

- Supply of process equipment
- Development of automated process control systems
- Process design
- Installation supervision
- Commissioning

Moscow region

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Projects

breweries equipment

content

ZAVKOM ENGINEERING
BIOTECHNOLOGY

Scope of delivery

- Supply of process equipment
- Development of automated process control systems
- Process design
- Installation supervision
- Commissioning

Beer fermentation department

OJSC "Morshansky Brewery"

2016

Tambov region

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Photo

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Projects

equipment for the alcoholic beverages production

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BIOTECHNOLOGY

DISTILLERIES

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Projects

distilleries

content

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BIOTECHNOLOGY

Scope of delivery

- Technological design
- Complete supply of technological equipment
- Development of automated process control systems
- Installation works
- Commissioning works

Distillery
JSC "Uzbekistan Premium"

2020

Tashkent

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Projects

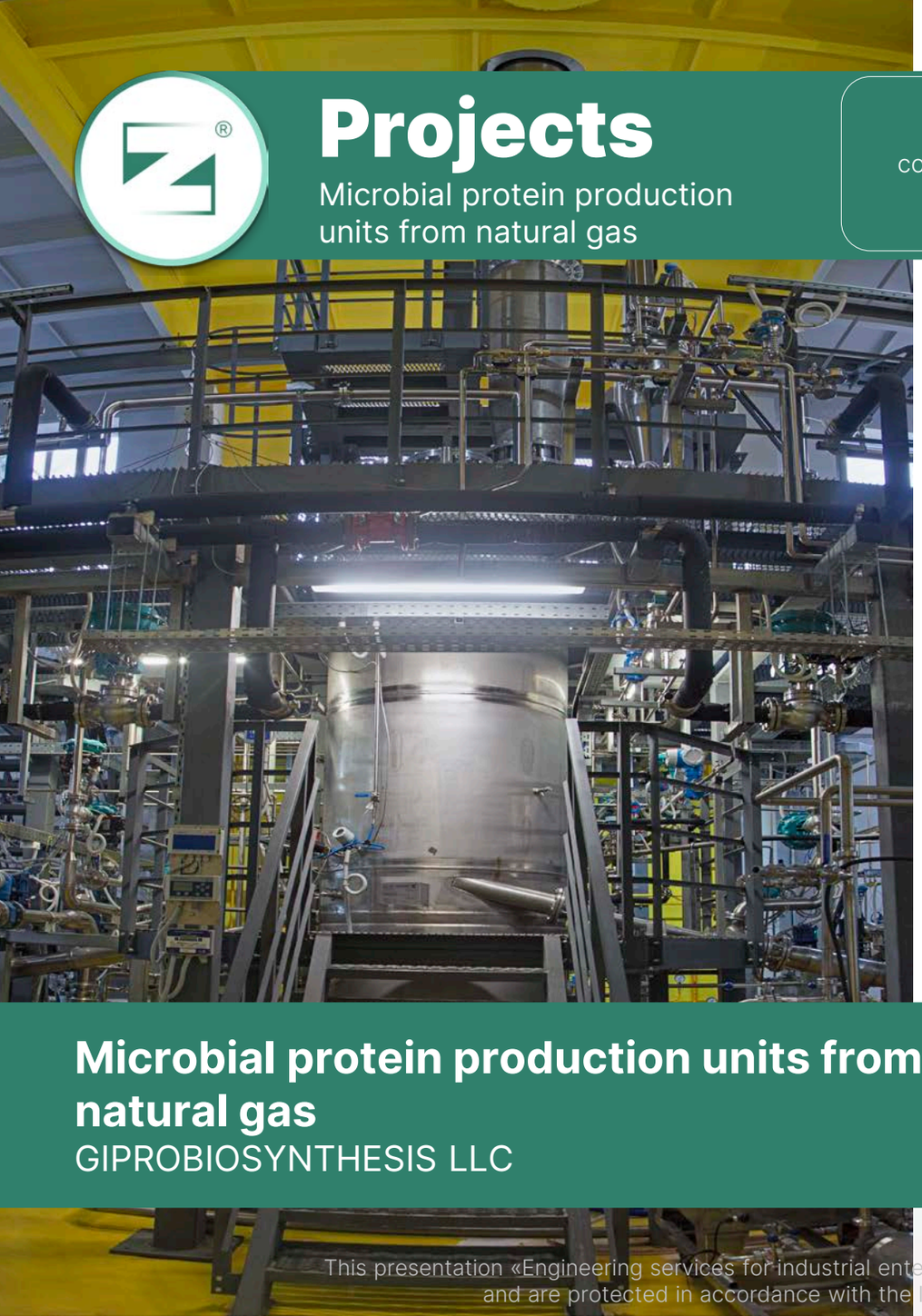
Microbial protein production units from natural gas

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MICROBIAL PROTEIN

content

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Projects

Microbial protein production units from natural gas

content

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Scope of delivery

- Development of working design documentation
- Complete supply of process equipment
- Development of automated process control systems
- Installation works
- Commissioning works
- Personal training

Microbial protein production units from natural gas

GIPROBIOSYNTHESIS LLC

Implementation

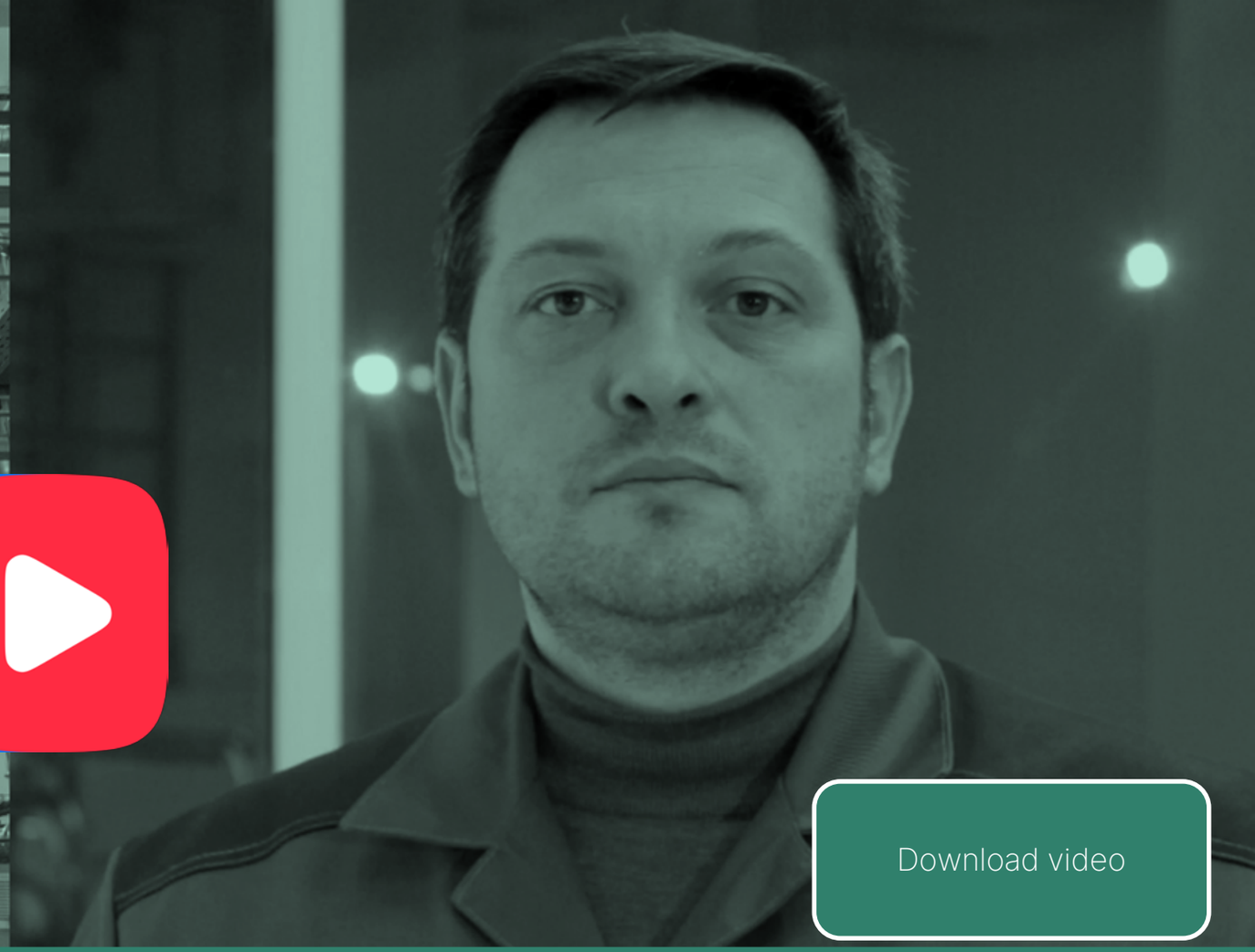
Moscow region

Open reference

Customer's video feedback

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REVIEWS OF OUR CLIENTS

LLC "GIPROBIOSINTEZ"

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BIOTECHNOLOGY | OIL AND GAS CHEMISTRY

Final part

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Projects geography

content

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LLC Gazprom VNIIGAZ
PJSC Tatneft
PJSC Sibur Holding
JSC Aminosib
PJSC Transneft
LLC ORGANIC ACIDS
JSC Sibagro
LLC VZK
JSC URALCHEM
LLC PLANT_SPACE
LLC PREMIUM UZBEKISTAN
JSC Voronezhsintezkauchuk
LLC Tekhnokord
PJSC MMK
LLC Geropharm
LLC YARko Group
CJSC Moscow Brewing Company
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LLC Rusagro-Tambov
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OOO NIKA-PETROTEK
LLC Khadyzhensky Brewery
LLC Vasileostrovskaya Brewery
JV LLC AFSAR COMPANY LTD
LLC Zlatoust Sugar Refinery
JSC Znamensky Sugar Refinery
LLC HANSEN BREWERY
JSC Olkhovatsky Sugar Refinery
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JSC PDK Apsheronsk
JSC Zhigulevsky Brewery
JSC Yeletsky sugar plant
LLC First Stavropol Agro-processing Corporation
LLC CORPORATION AZERI
CJSC Tbilisi Sugar Plant
LLC TBK
LLC NPP ZARYA
LLC Vostochny Alliance
LLC Lus Astkh
LLC Khvoyninsky Brewery
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Telegram

VKontakte

Rutube

Head office

ZAVKOM-ENGINEERING LLC

8 800 555-06-09

392000, Russia, Tambov,
st. Sovetskaya 51, of. 319

Office in China

86 (138) 1018-1318

Rm 2012, Jianing International Building
No. 500 Yan'An West Road
Changning District, Shanghai 200050
P. R. China



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