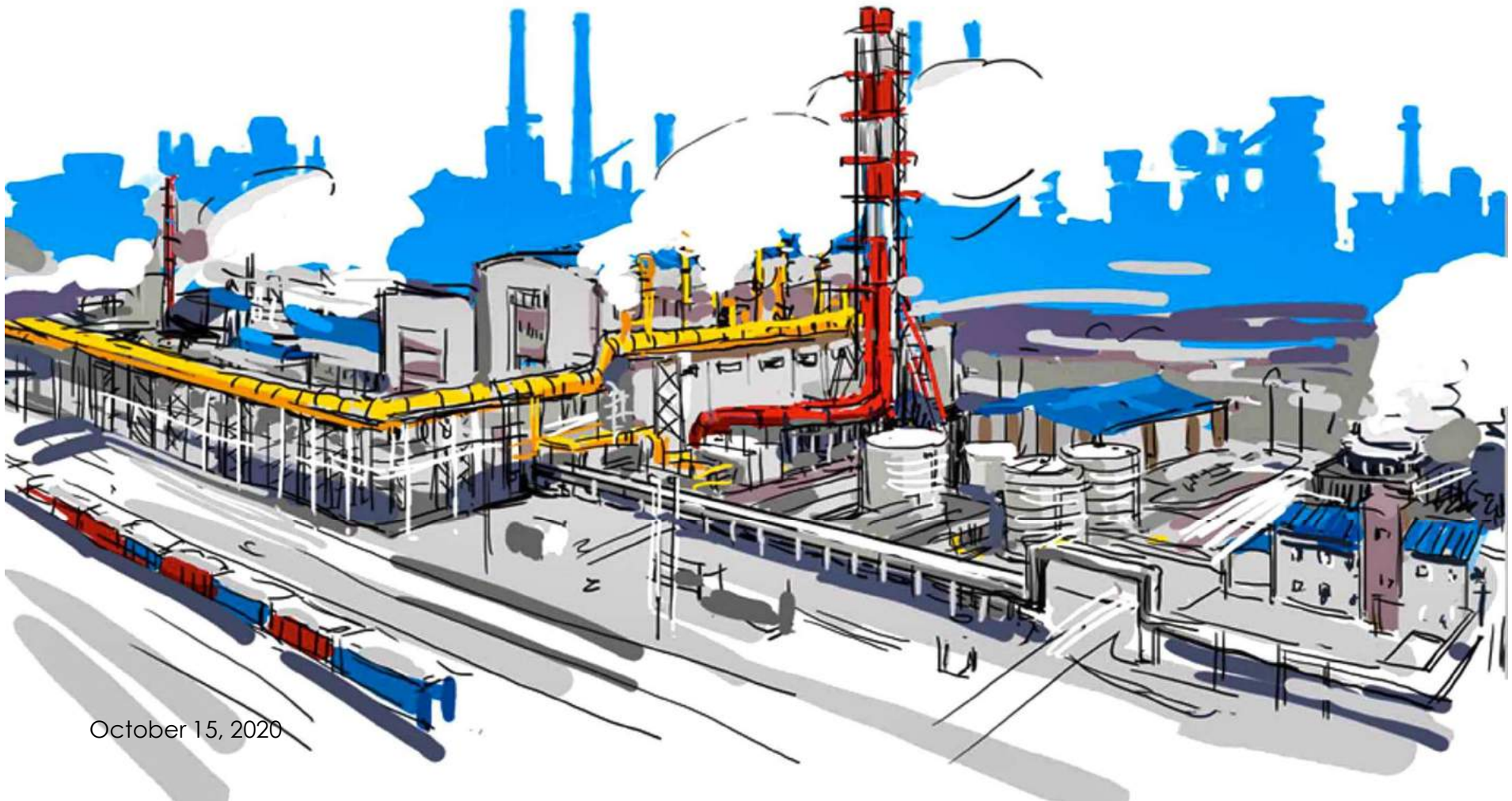


Energy Solutions

Industrial Energy Facilities
EPC Construction



October 15, 2020

BUSINESS OVERVIEW



CORE BUSINESS

EPC contractor in industrial energy

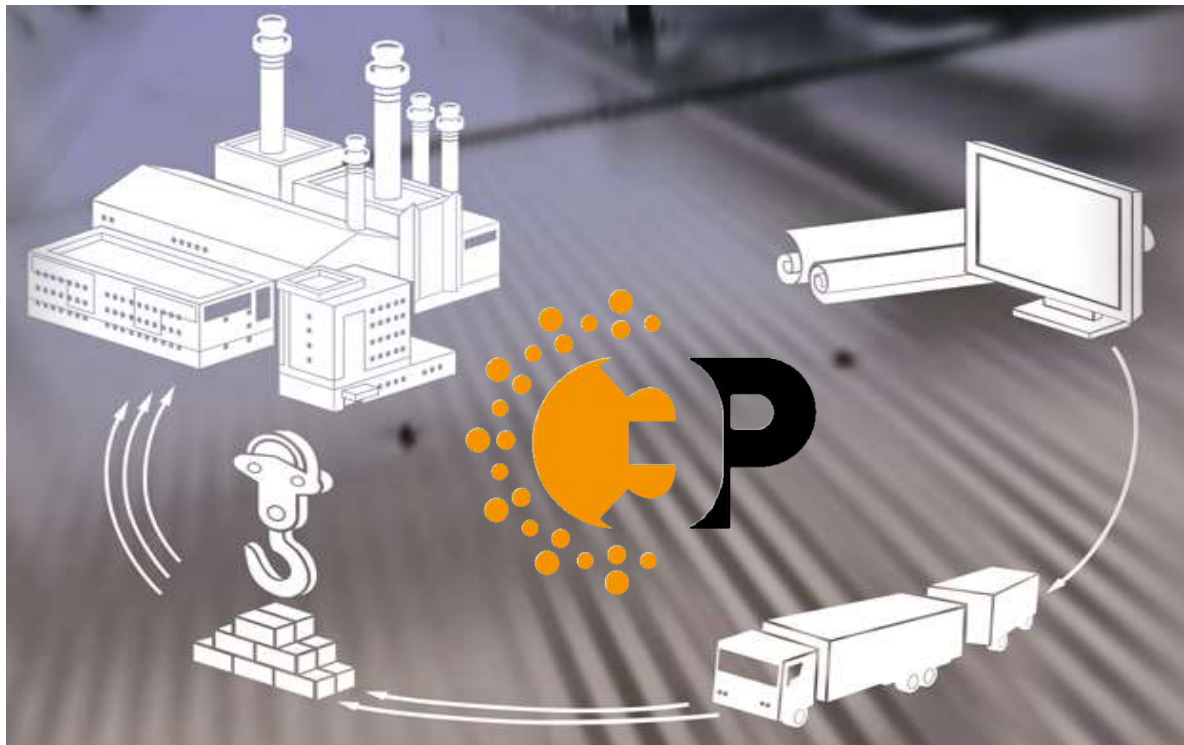
PRINCIPALS & ETHICS

Commitment

Dedication

Economy

Compliance



Engineering design

- ✓ Providing basic and detailed engineering design services, state board approval assistance and designer field supervision

Turn key construction (EPC)

- ✓ Constructing power and industrial facilities turn key by taking full responsibility for project's outcome: from first step to commissioning

Construction management (EPCM)

- ✓ Managing construction projects from conceptual design to facility commissioning

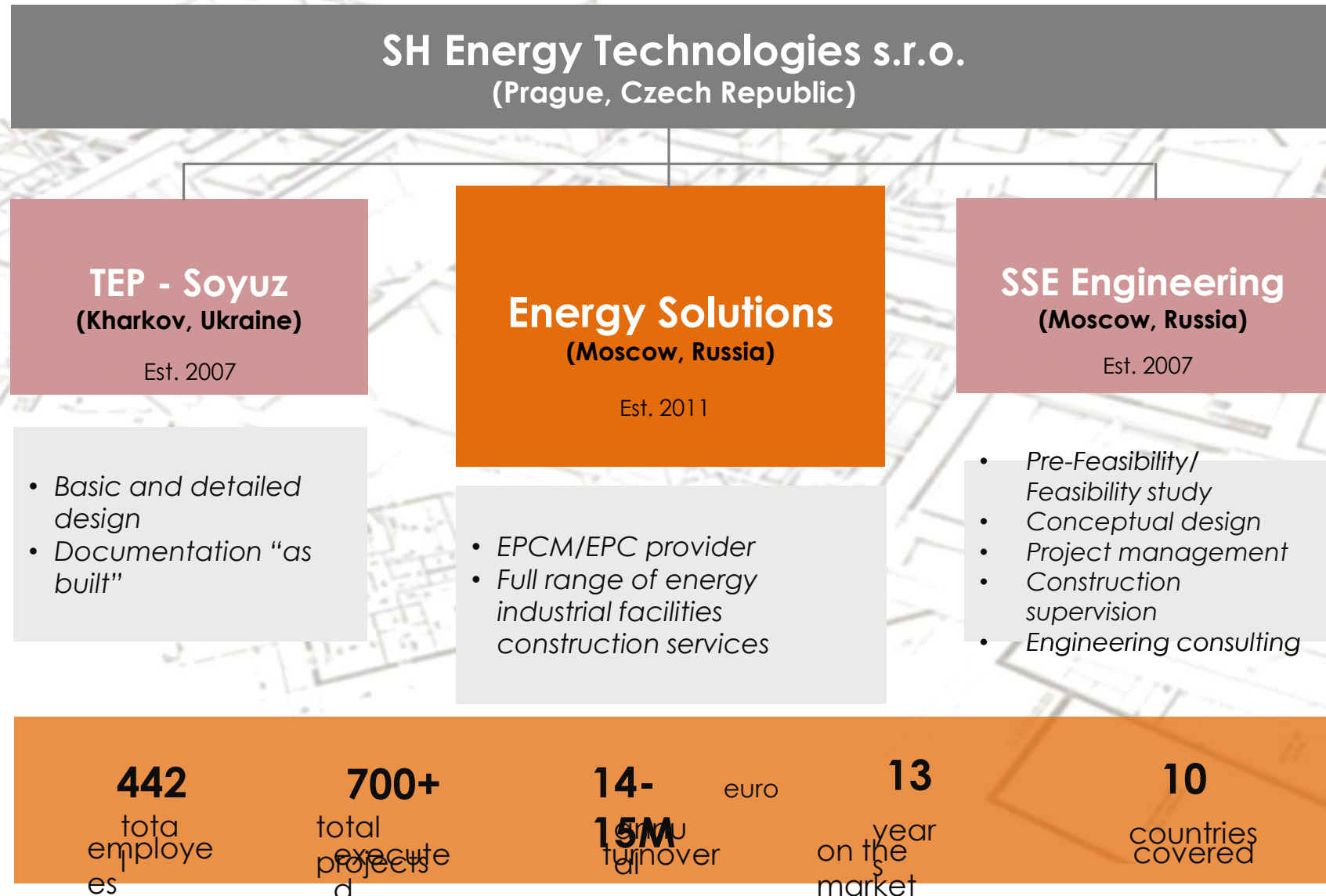
Commissioning works

- ✓ Providing start-up and commissioning services by employing in-house team of professionals with extended experience

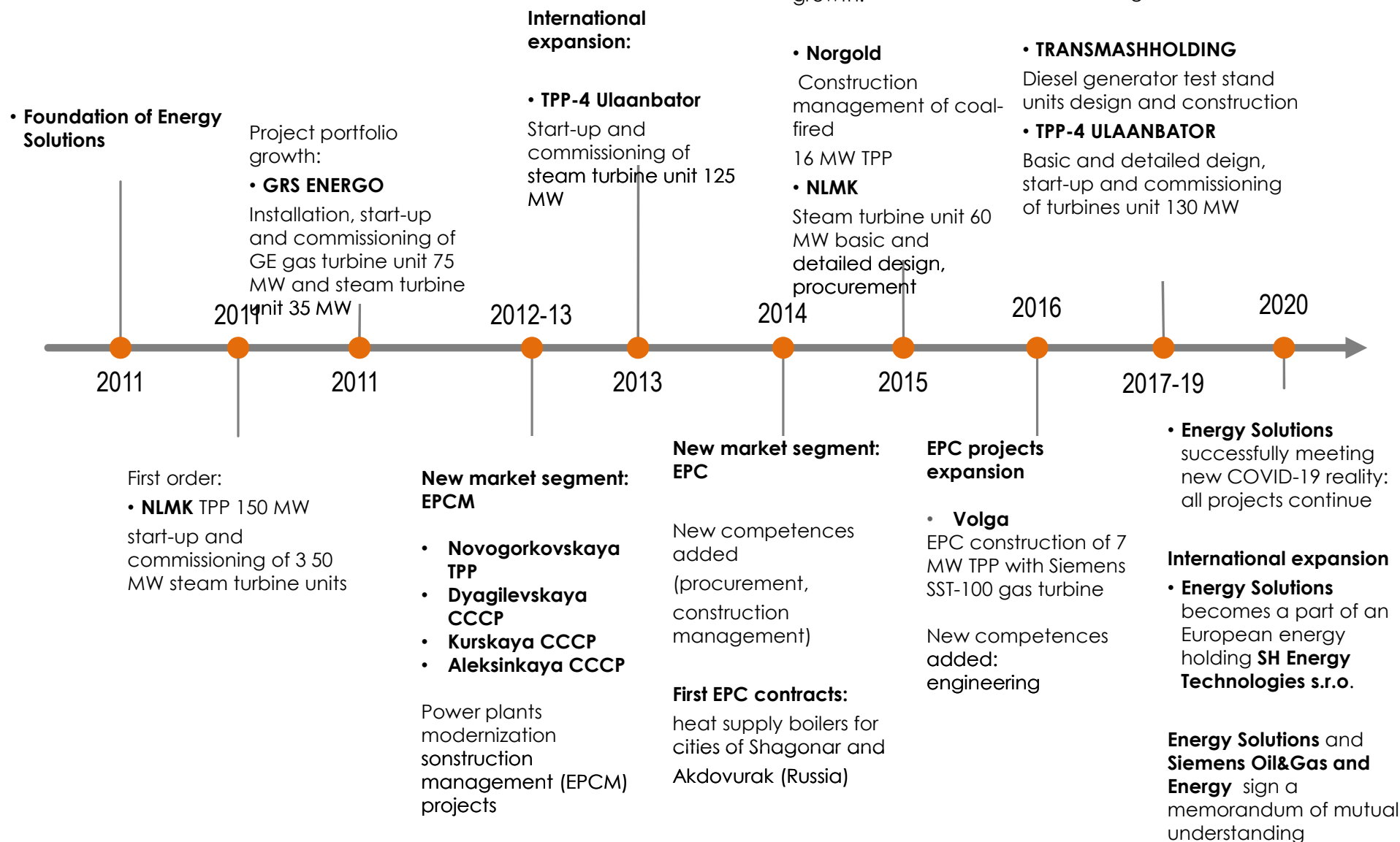
HOLDING STRUCTURE



Energy Solutions is a part of SH Energy Technologies s.r.o. (European engineering holding)



HISTORY OF SUCCESS



Energy Solutions possesses all necessary local licenses and permits to execute industrial energy facilities of any capacity

COMPANY AT A GLANCE



Key Management Personnel



Nikolay Romanov of the Board



Michael Chaplik
Board Member



Sergii Chaplik
Board Member



Konstantin Toropchin
Board Member, CEO

Facts and Figures

- Over 100 projects executed
- Present in 3 countries
- Moscow Head Office: 57 employees
- Construction sites: 33 employees
- 20 in-house design engineers
- 2 design competence centers
- Near zero employee turnover

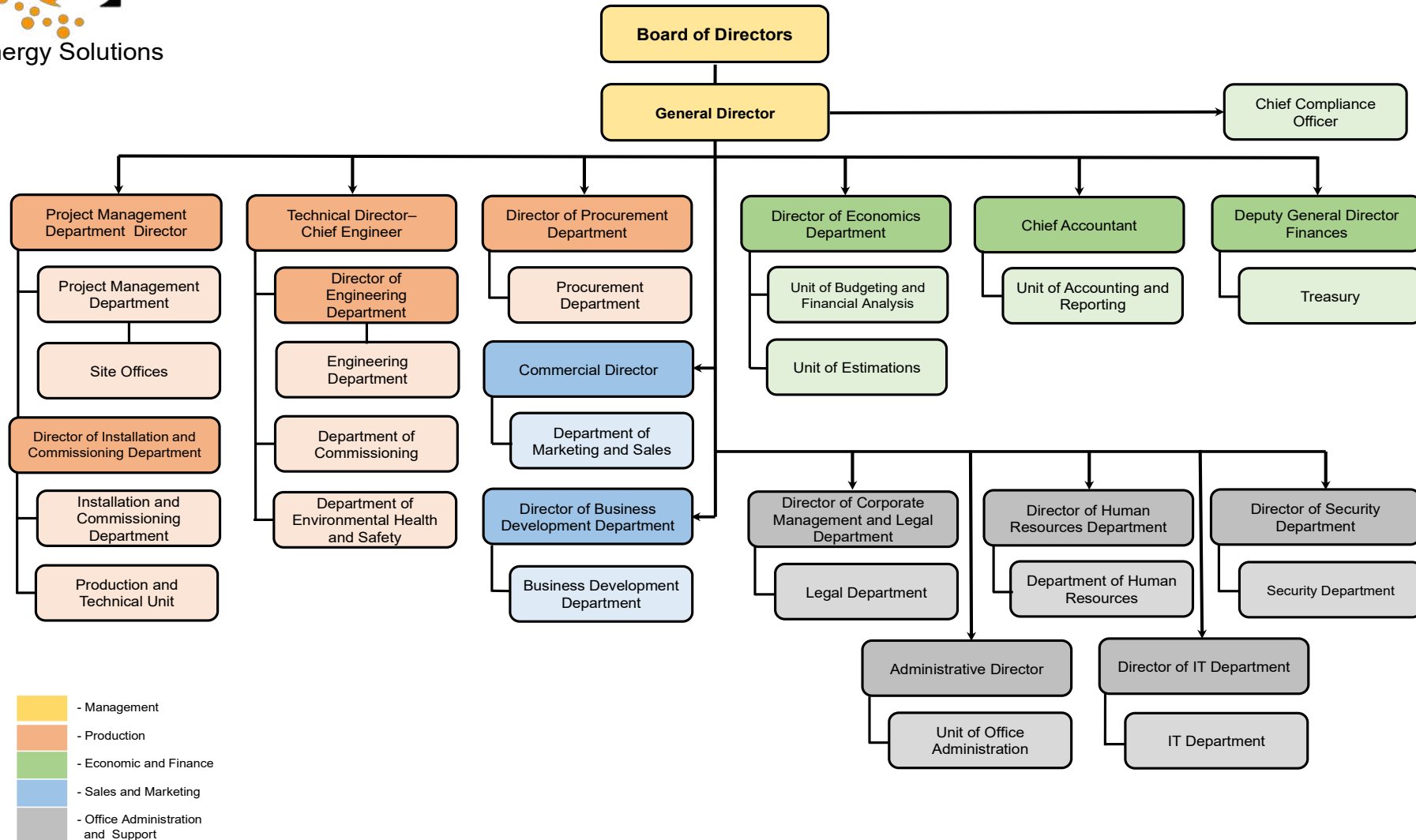
Key Customers



BUSINESS ORGANIZATION



OSJC Energy Solutions Organizational Chart



BUSINESS ASSETS



TEAM

Our main asset is people

- Qualified staff
- Long-term employment
- Strong market reputation
- Near-zero employee turnover

TOOLS

- Up-to-date design software
- Project Management software
- Comprehensive internal standards and policies

PRACTICES

- International Project Management methods
- Deep knowledge of locally applicable regulations, standards, conditions and legislation (*Russia, Ukraine, Mongolia, Republic of Guinea*)

BUSINESS ASSETS

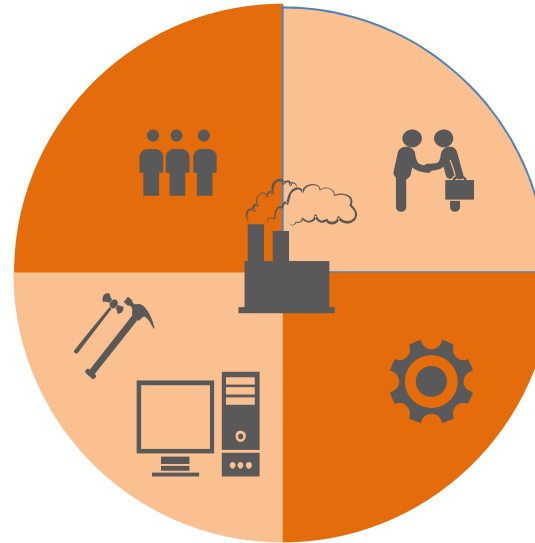


Team

Our main asset is our people. Energy Solutions team is highly qualified and experienced in constructing large power stations. The key personnel is employed longer than 6 years on average.

Tools and solutions

We possess in-house engineering resources as well as all necessary tools, technologies and personnel required for execution of full cycle projects from conceptual design to commissioning and providing customers with flexible solutions.



Relationships

We offer long term partnerships to the customers and the partners alike that based on keeping our words, fulfilling all obligations and providing high quality services.

Reputation and experience

We possess a unique experience of numerous engineering design and construction projects completed in time and within agreed budgets. That has helped to build the reputation of the company that is respected and trusted.

Highly-qualified team with experience of completing large engineering design and construction projects

Advanced up-to-date engineering design tools including BIM

Quality management standard ISO 9001:2008

Mandatory designer field supervision

On-line project modifications with help of cloud technologies

Real-time project execution monitoring

Internal standards system

Partnerships with leading local and Western equipment manufacturers

BUSINESS GEOGRAPHY



Holding company – Prague (Czech Republic)

Headquarters – Moscow (Russia)

Site offices – Russia and Mongolia

Engineering design competence centers – Russia and Ukraine



KEY PROJECTS



CCCP 115 MW
DYAGILEVSKAYA
EXPANSION

Basic design (stage P)
corrections,
construction management
(EPCM)*

Equipment:

Siemens SGT-800

Customer:

OJSC "QUADRA – New
Generation"

2013 - 2014

*Project was frozen at execution
stage due to lack of financing



KEY PROJECTS



CCCP 115 MW
ALEKSINSKAYA
EXPANSION

Basic design (stage P)
corrections,
construction management
(EPCM)*

Equipment:

Siemens SGT-800

Customer:

OJSC "QUADRA – New
Generation"

2013 - 2014

*Project was frozen at execution
stage due to lack of financing

KEY PROJECTS



TPP 268 MW
URAL POLYARNAYA
NEW CONSTRUCTION

Surveying, basic and
detailed design, state
expertise,
construction management
(EPCM)*

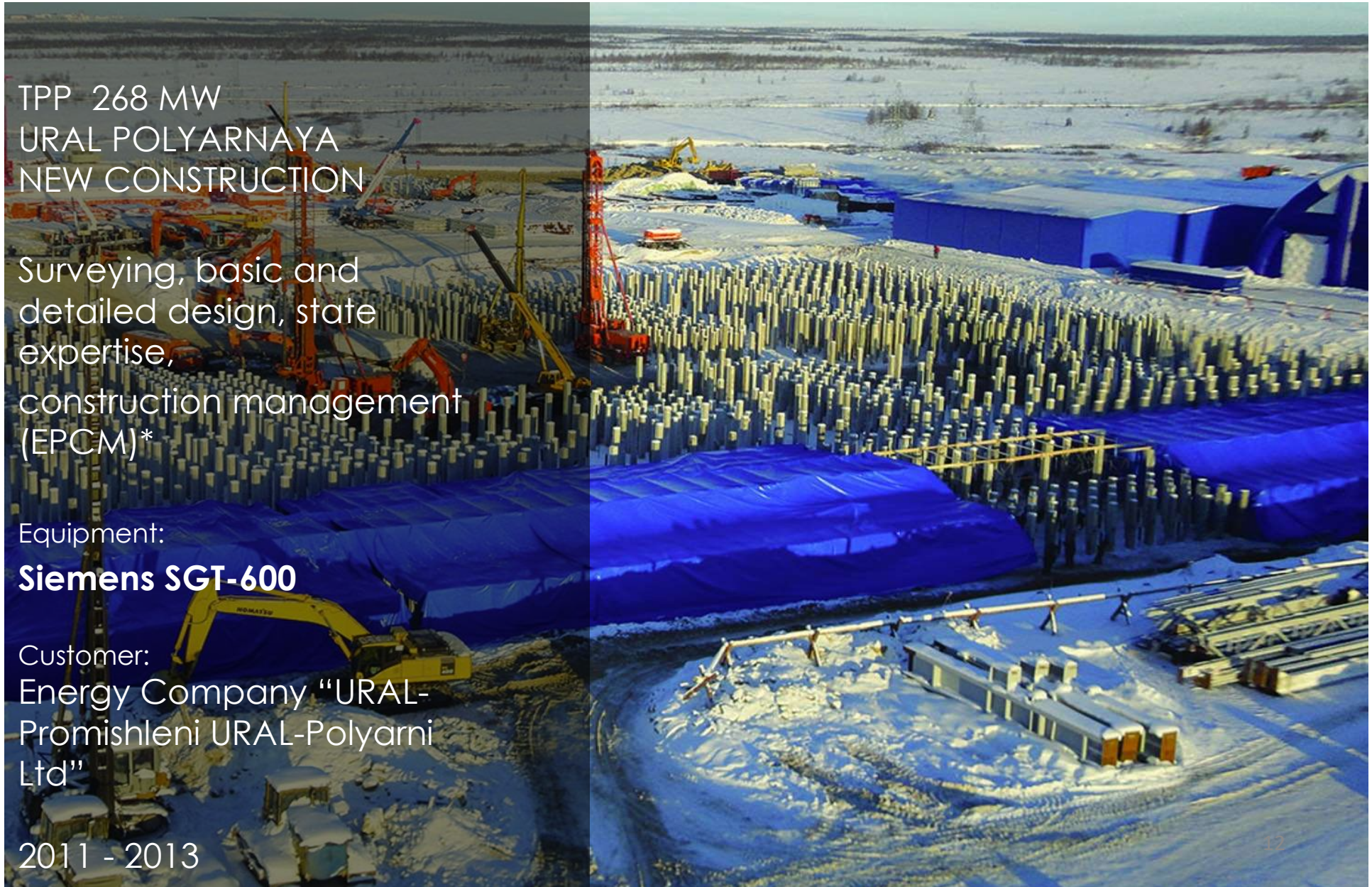
Equipment:

Siemens SGT-600

Customer:

Energy Company "URAL-
Promishleni URAL-Polyarni
Ltd"

2011 - 2013



KEY PROJECTS



CCCP 115 MW
KURSKAYA
EXPANSION

Basic design (stage P)
corrections,
construction management
(EPCM)*

Equipment:

Siemens SGT-800

Customer:

OJSC "QUADRA – New
Generation"

2013 - 2014

*Project was cancelled at execution
stage due to exclusion from DPM-1 program



KEY PROJECTS



NEW CONSTRUCTION CCCP 110 MW

Installation, start-up and
commissioning

Equipment:

GE PG6111FA 75 MW gas turbine
T-25/33-7.6/0.12 35 MW steam
turbine

Customer:

OJSC "GSR ENERGO"

2011 - 2014



KEY PROJECTS



CCCP 350 MW
NOVOGORKOVSKAYA
EXPANSION

Construction management
(EPCM), start-up and
commissioning

Equipment:
ALSTOM G13E2 gas turbine

Customer:
OJSC "T+"

2012 - 2015



KEY PROJECTS



EPC CONSTRUCTION
TPP 7 MW

EPC construction of 7 MW
thermal power plant

Equipment:

Siemens SST-100 turbine

Customer:

JSC "Volga"

2016 - 2018



KEY PROJECTS



BLAST-FURNACE GAS CHP
150 MW

Start-up and commissioning

Equipment:

PT-40/50-8.8/1.3 50 MW

steam turbine

Customer:

OJSC "NLMK"

2011 - 2012



KEY PROJECTS



TPP 130 MW ULAANBATOR MODERNIZATION

Basic and detailed
engineering design, start-
up and commissioning

Equipment:

PT-80/100-130/13, T-
100/1220-130 **steam
turbines**

Customer:
TPP-4 (Mongolia)

2018 - current



KEY PROJECTS



TPP 16 MW CONSTRUCTION MANAGEMENT

Construction management
(EPCM), basic and detailed
design, equipment
procurement

Equipment:
TG-8/6.3-P34/0.25 steam
turbine

Customer:
JSC "NORDGOLD"

2015 - 2018



KEY PROJECTS



TPP-4 MODERNIZATION ULAANBATOR (MONGOLIA)

Start-up and commissioning

Equipment:
T-120/130-130-8MO steam turbine

Customer:
JSC "TPP-4"

2013 - 2015



KEY PROJECTS



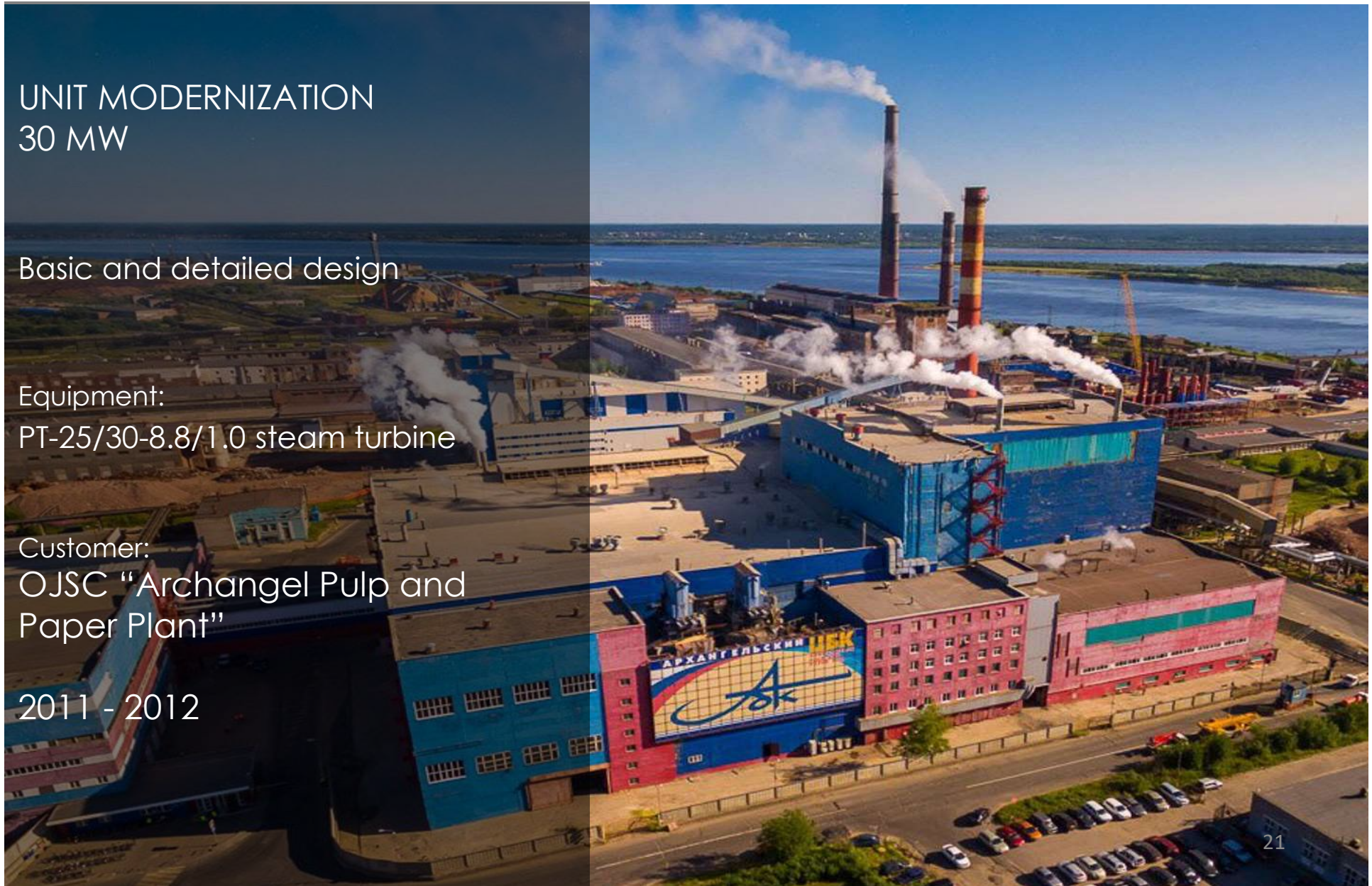
UNIT MODERNIZATION 30 MW

Basic and detailed design

Equipment:
PT-25/30-8.8/1.0 steam turbine

Customer:
OJSC "Archangel Pulp and
Paper Plant"

2011 - 2012



KEY PROJECTS



TURBINE GENERATOR UNIT UPGRADE 60 MW

Basic and detailed design,
procurement

Equipment:
PT-60-8.9/1.9 60 MW
steam turbine

Customer:
OJSC "NLMK"

2015 - 2018



KEY PROJECTS



TECHNOLOGICAL STEAM AND CONDENSATION PIPELINE CONSTRUCTION CHEMICAL PLANT

Construction of technological
steam and condensation
pipeline
(including design,
procurement, installation, start-
up and commissioning)

Customer:
JSC "APATIT"
(FOSAGRO Group)

2018 - 2020



KEY PROJECTS

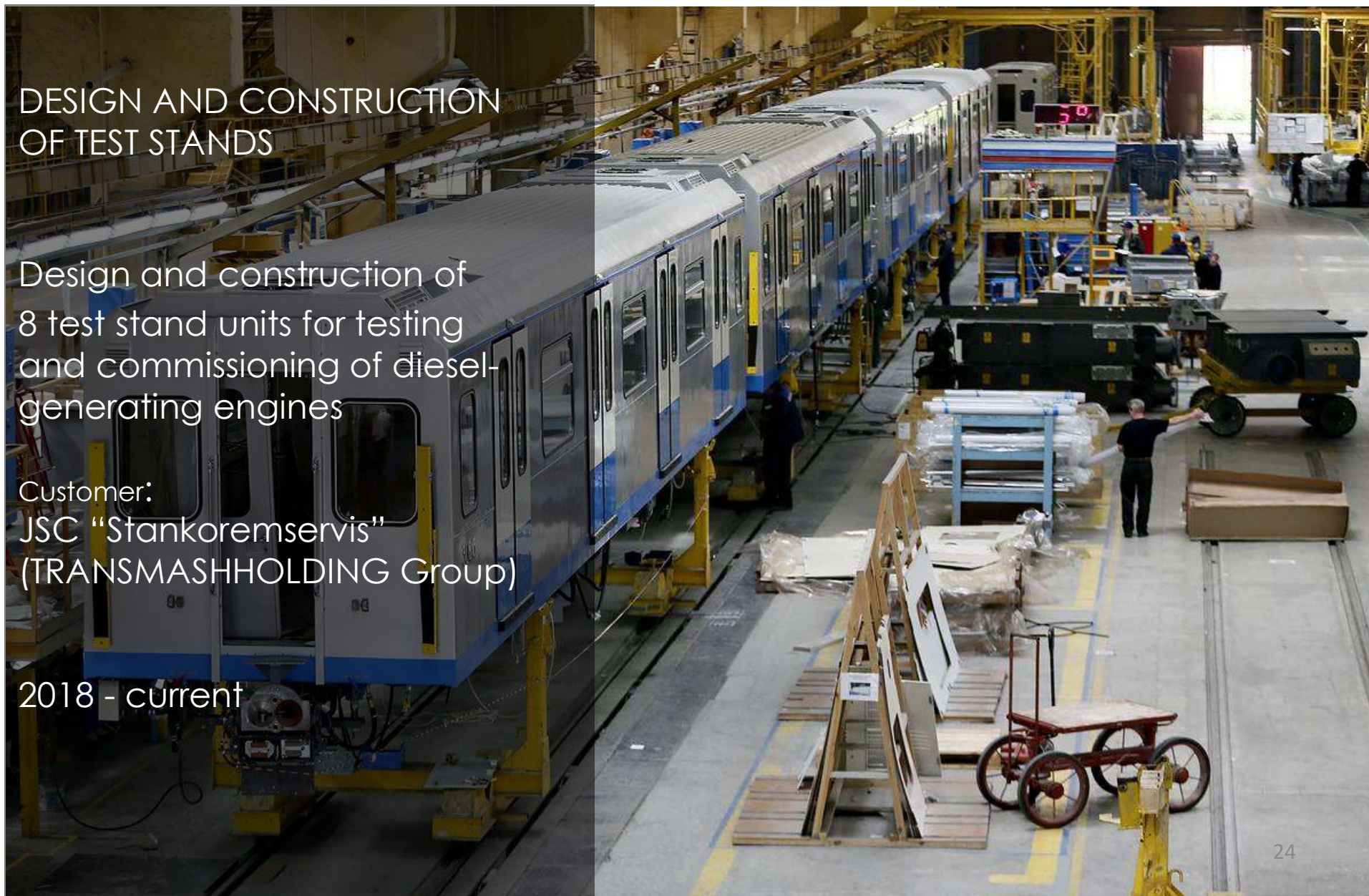


DESIGN AND CONSTRUCTION OF TEST STANDS

Design and construction of
8 test stand units for testing
and commissioning of diesel-
generating engines

Customer:
JSC "Stankoremservis"
(TRANSMASHHOLDING Group)

2018 - current



KEY PROJECTS

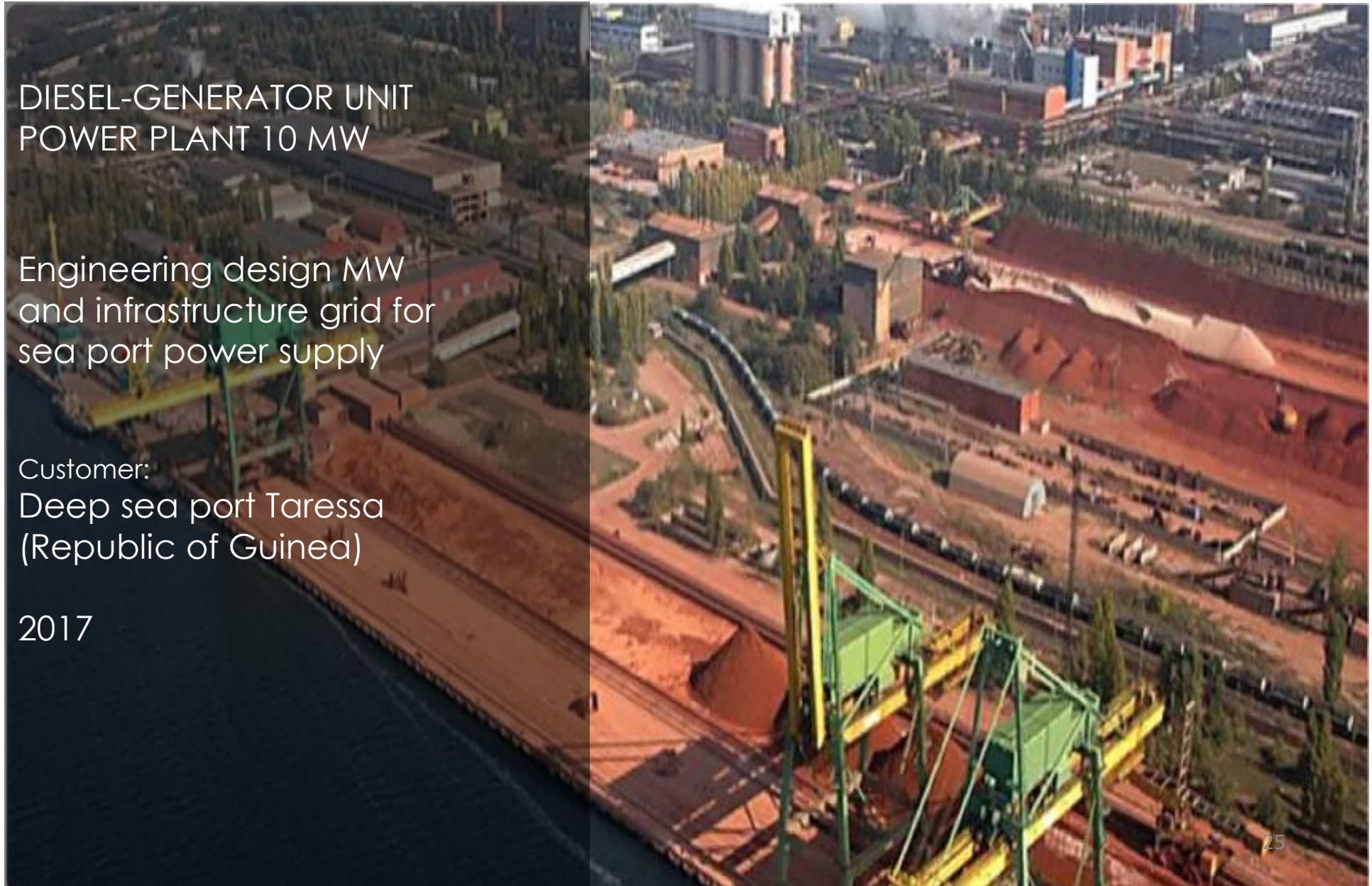


DIESEL-GENERATOR UNIT POWER PLANT 10 MW

Engineering design MW
and infrastructure grid for
sea port power supply

Customer:
Deep sea port Taressa
(Republic of Guinea)

2017



CONTACTS



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