

A black and white photograph of two industrial workers in a complex piping system. The workers are wearing hard hats and safety glasses. One worker is holding a clipboard and a pen, while the other is holding a mobile phone. The background is filled with a dense network of pipes and structural steel. A red banner is overlaid on the right side of the image, containing the word "PRODUCTS" in white capital letters.

PRODUCTS



PRODUCTS FOR INDUSTRY

APS Energia offers a wide range of products, including industrial DC and AC UPS systems and other specialized power devices for the sectors of electricity generation, oil and gas, telecommunications, medicine and other industries.

DC CONVERTERS



PBI

- The PBI Series is a family of digitally controlled DC power supply & battery charger units designed to provide power directly to receivers or in combination with a battery. PBI is used in DC power supply systems of following rated voltages: 24VDC, 48VDC, 110VDC and 220VDC.
- Application: DC power supply systems for industrial plants



EPI

- EPI Series is a family of DC/ DC power supplies designed to convert DC input voltage into DC output voltage required by receivers, typically within range of 24VDC–220VDC. EPI products are used for demanding industrial applications requiring high reliability and stability of supplied power.
- Application: DC power supply systems for industrial plants



BRI

- BRI is used for controlled battery discharge at a preset constant current to ensure best battery maintenance.
- Application: Controlled battery discharging at a preset constant current

AC CONVERTERS



BFI

- BFI series is a family of inverters & UPS units designed for AC power supply for demanding industrial applications requiring high reliability and stability of supplied power.
- Application: AC power supply systems for industrial use.



FAT

- FAT Series is a family of AC power supply units for asynchronous motors used in combination with external battery.
- Application: Supplying power to variable speed asynchronous electric motor drives.



MODULA

- Single-phase and three-phase UPS systems with a battery.
- Application: UPS for industrial plants, banks and telecoms.



HPI

- High power static frequency converters for changing AC or other input voltage into voltage of different frequency, typically 60Hz or 400Hz.
- Application: Power supply for planes and ships.

AUTOMATIC SUPERVISION SYSTEMS



SAN 3

- Monitoring of system's electrical parameters.



SAN 5-1

- Monitoring parameters of batteries



SAN 6-1

- Monitoring resistance of batteries



SAN 2

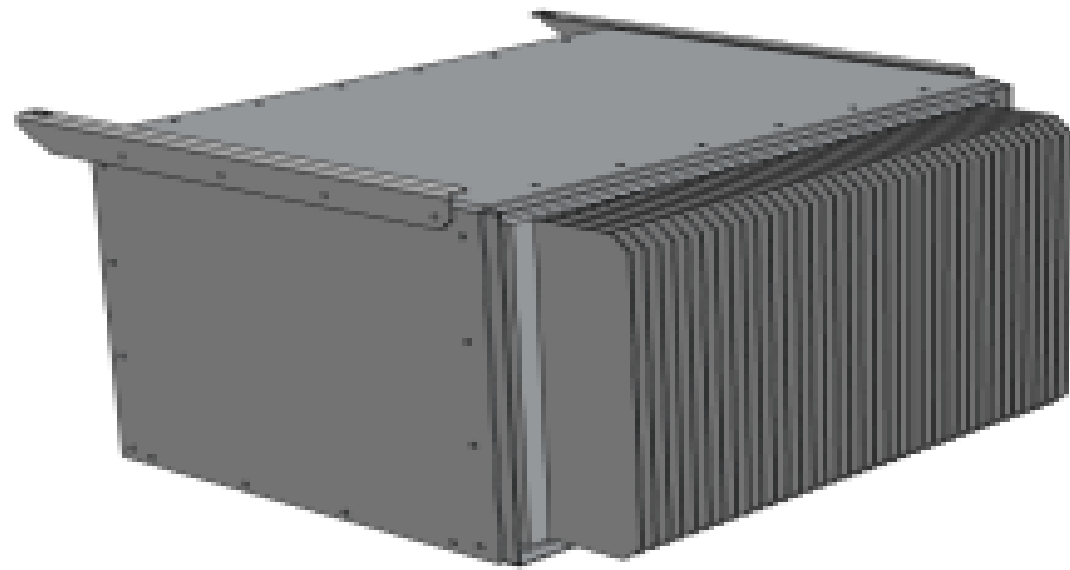
- Monitoring resistance of batteries and fault localization



PRODUCTS FOR TRACTION & TRANSPORT

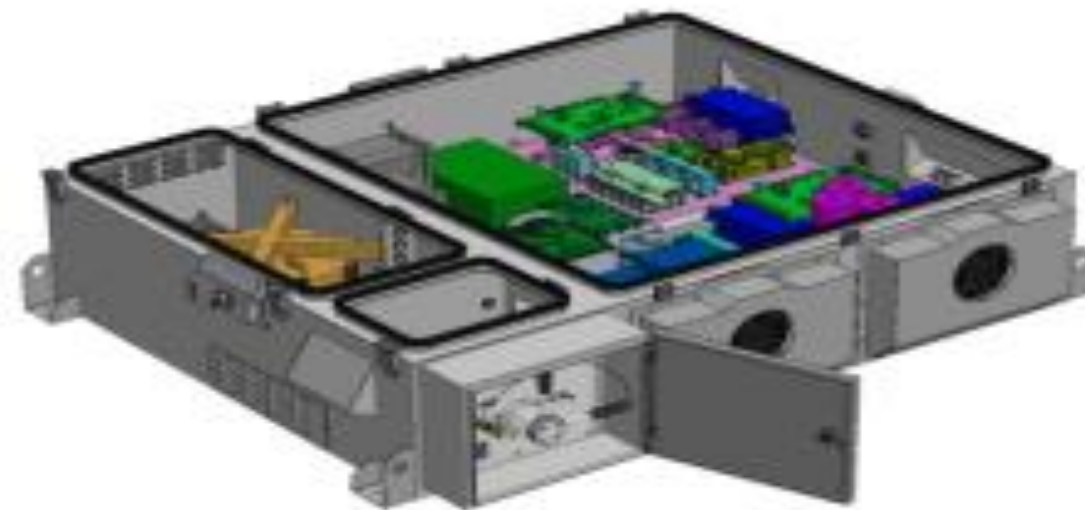
APS ENERGIA has for years been working closely with integrators of the traction market in Poland and around the world. DC and AC power supply equipment has been successfully installed on traction substations in Poland, Kazakhstan, Ukraine and Azerbaijan.

TRACTION & TRANSPORT



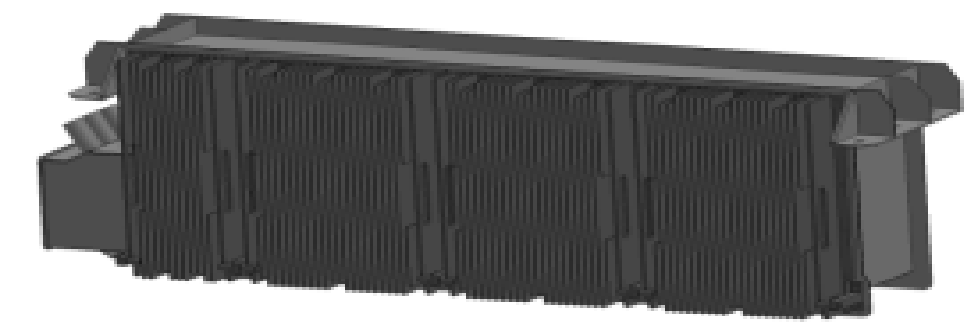
PBI TR

- The PBI Series is a family of digital DC power supply & battery charger units designed to provide power directly to receivers or in combination with a battery. PBI is used in DC power supply systems of following rated voltages: 24VDC, 48VDC, 110VDC.
- Application: EMU (electrical multiple unit), DMU (diesel multiple unit)



BFI TR

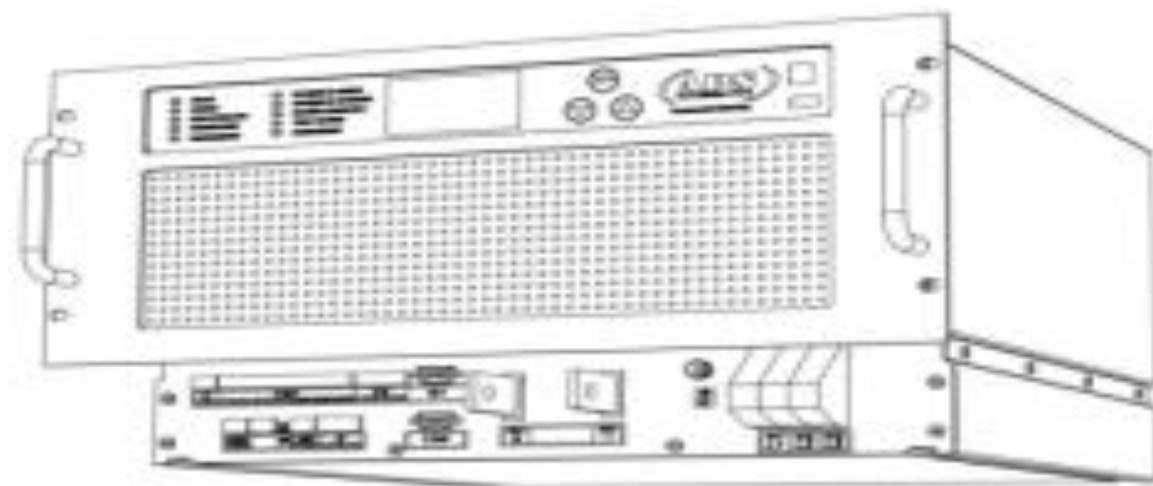
- The static converter has been designed to convert the DC voltage of the 3000 VDC traction into DC voltage 24 V as well as AC voltage 3×400 V and 230 V, needed to supply the auxiliary circuitry in the train system, driver's air conditioning and car ventilation.
- Application: EMU (electrical multiple unit, Passenger coaches)



STS

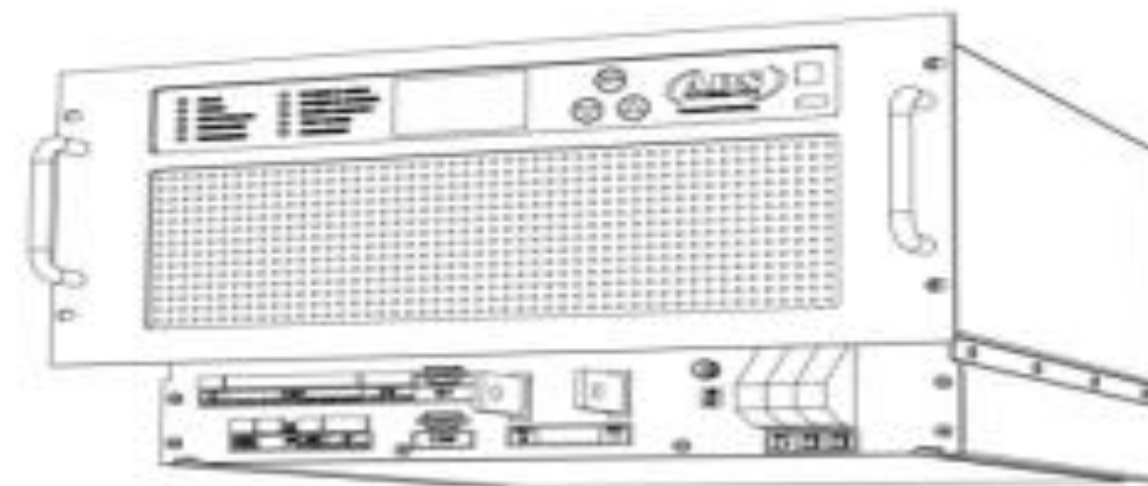
- The STC static converter is designed to convert 110 VDC onboard voltage into three, regulated U/f 3×380 VAC outputs and one 24 VDC output required to power the loads installed in the passenger coach (compressors, fans of air-conditioning system, DC drives for doors).
- Application: Passenger coaches

TRACTION & TRANSPORT



PBI MC

- The PBI Series is a family of digital DC power supply & battery charger units designed to provide power directly to receivers or in combination with a battery. PBI is used in DC power supply systems of following rated voltages: 24VDC, 48VDC, 110VDC
- Application: EMU (electrical multiple unit), DMU (diesel multiple unit)



BFI MC

- The BFI 3S DC/AC converter has been designed /to convert on board 24 VDC into 230 VAC, for powering the low voltage systems of coaches (laptops, shavers, TV etc.). The output voltage shape is a pure sine wave. It operates from the on-board battery, providing an uninterruptible output..
- Application: EMU (electrical multiple unit, Passenger coaches)

A black and white photograph of two industrial workers in a complex piping system. The workers are wearing hard hats and safety glasses. One worker is holding a clipboard and a pen, while the other is holding a mobile phone. The background is filled with a dense network of pipes and structural steel.

SALES

SALES*



POWER GENERATION

44%



OIL&GAS

37%



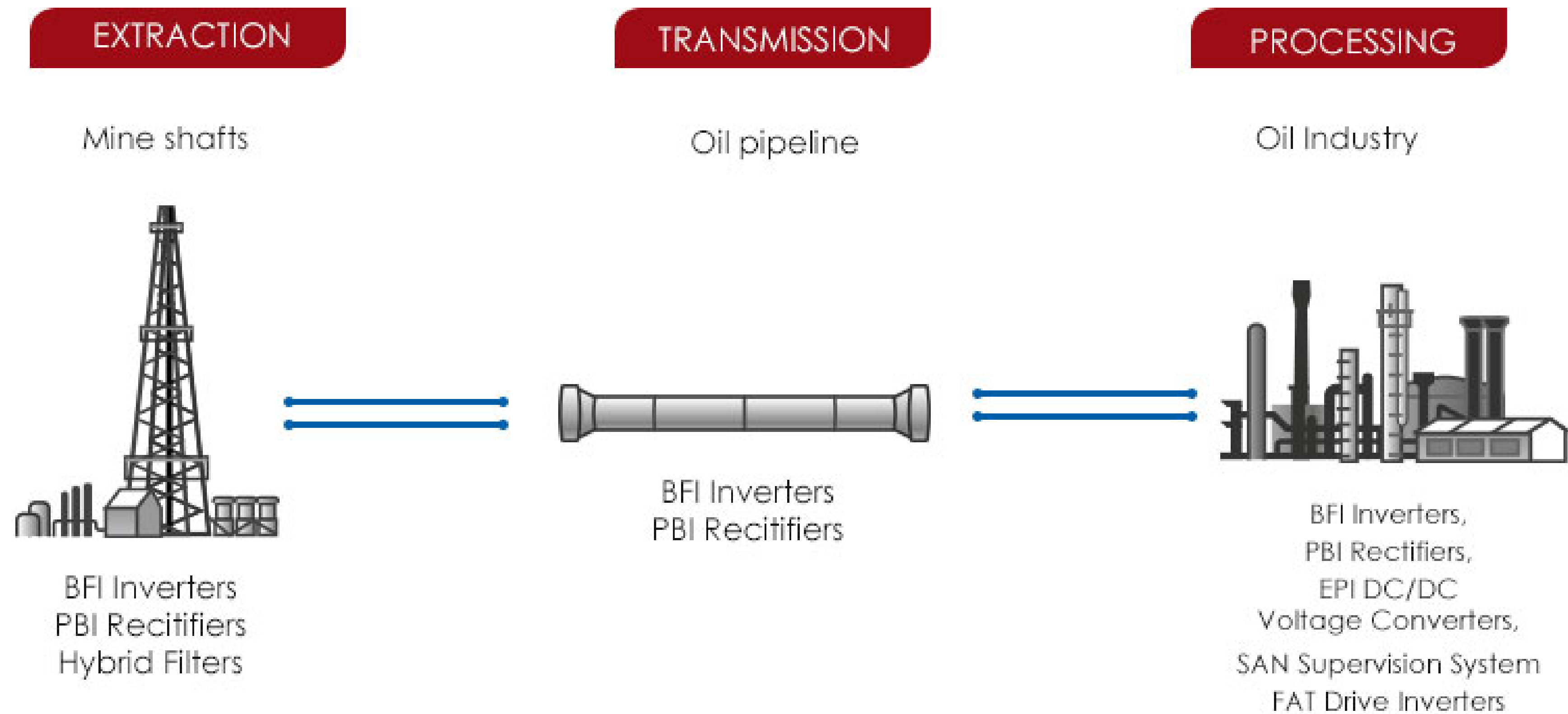
OTHERS

19%

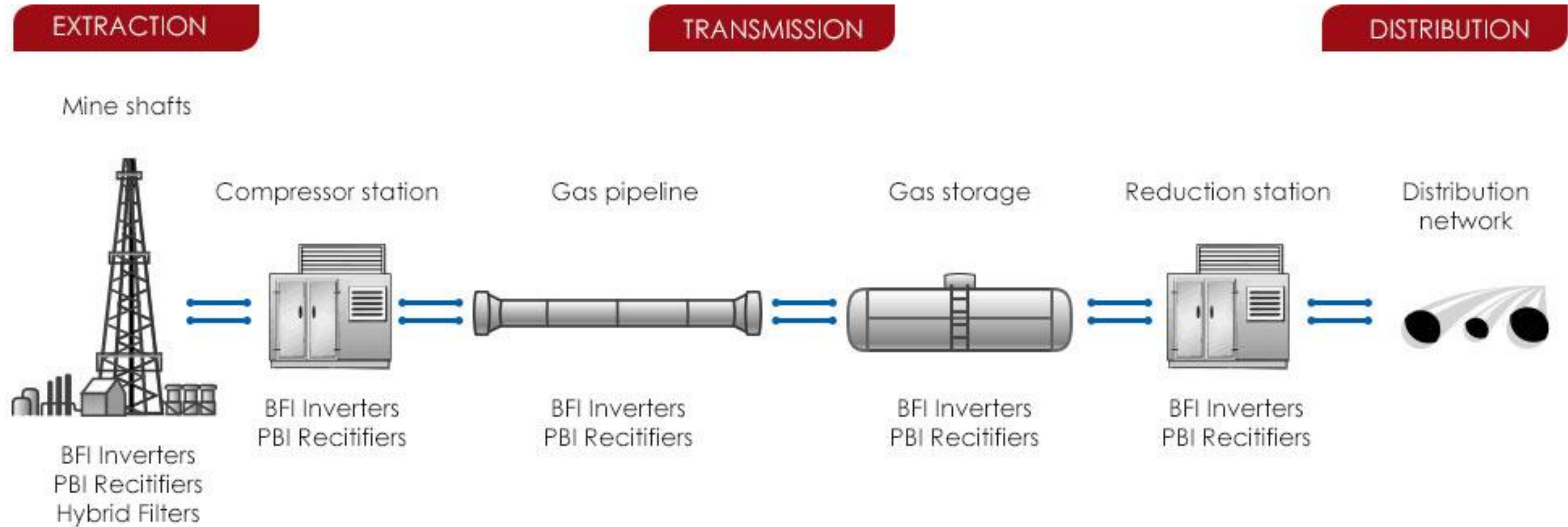
Since 2012, APS Energia actively expanding in the markets of atomic energy and the traction and transport.

*data from 2014

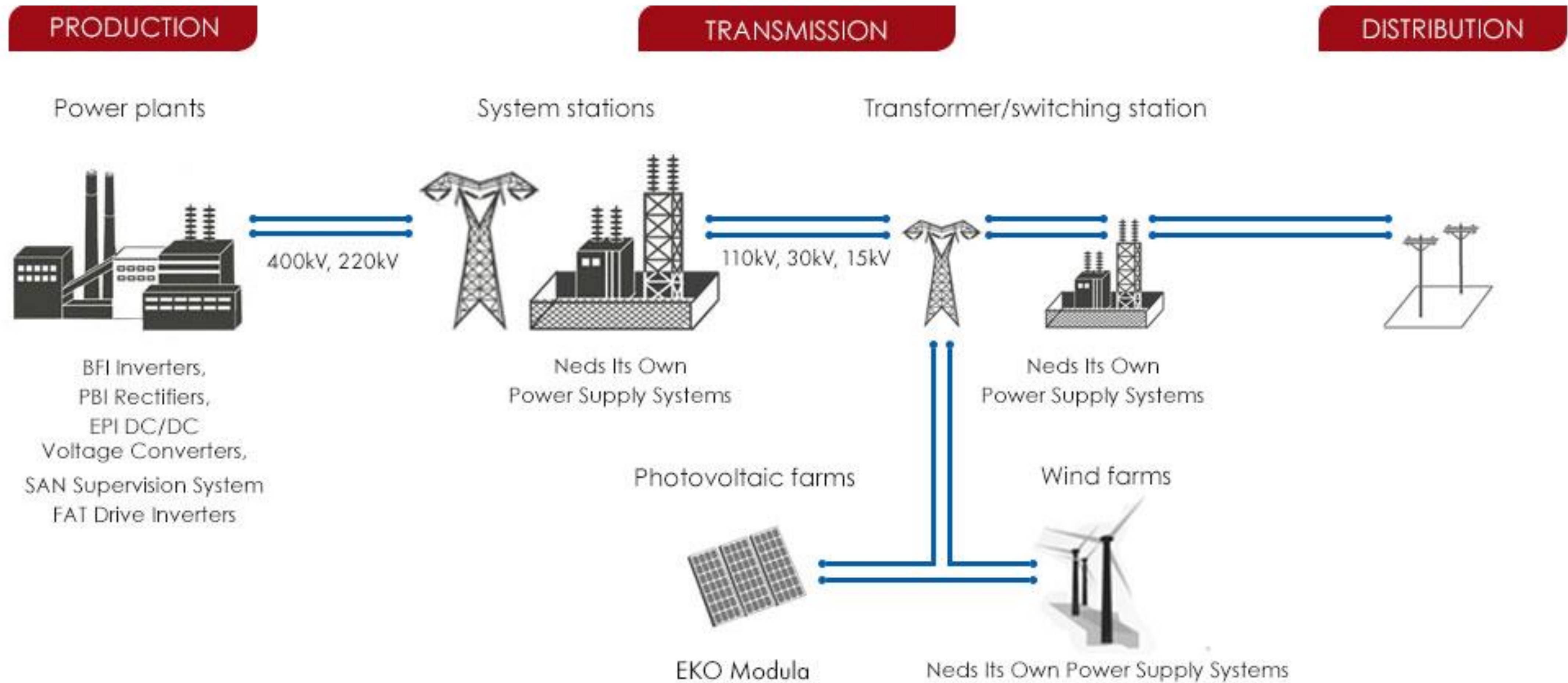
OIL NETWORK



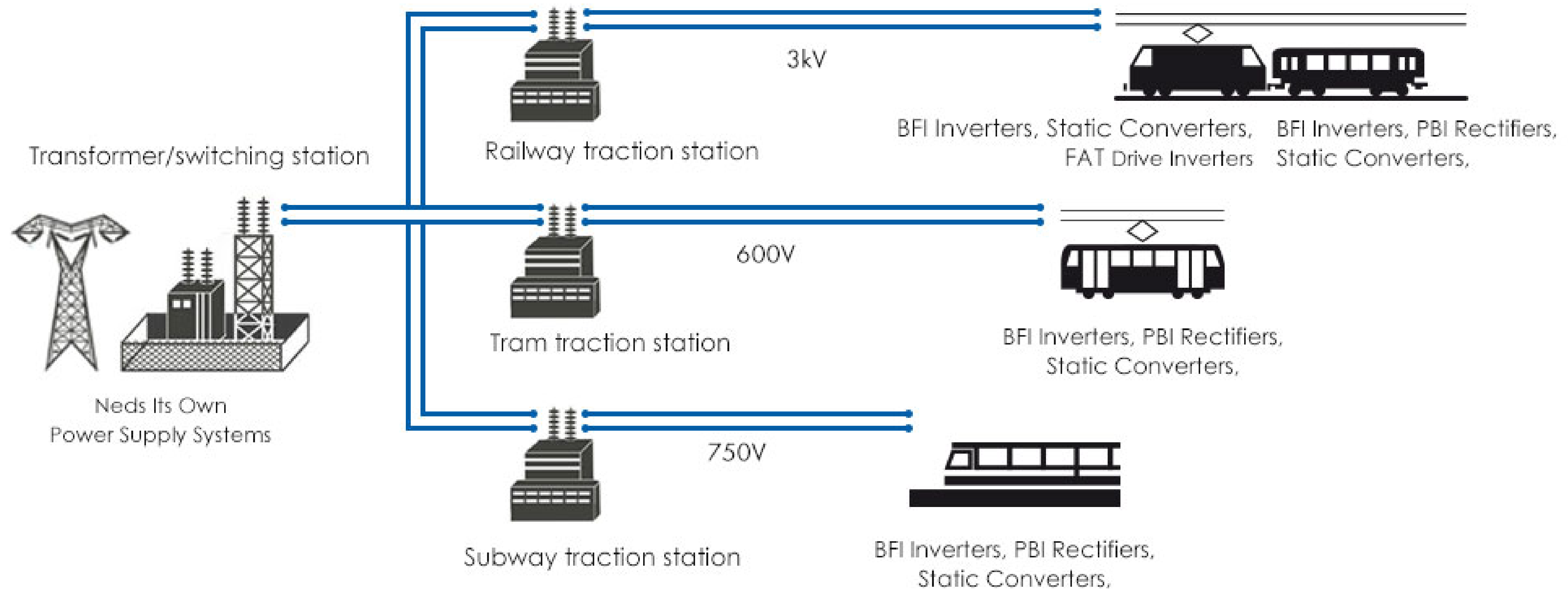
GAS NETWORK



OUR SYSTEMS IN POWER ENGINEERING



TRACTION & TRANSPORT



A black and white photograph of two industrial workers in a complex piping system. The workers are wearing hard hats and safety glasses. One worker is holding a clipboard and a pen, while the other is holding a mobile phone. The background is filled with a dense network of pipes, valves, and structural steel, creating a complex industrial environment. A red banner is overlaid across the middle of the image, containing the text "SUCCESS FACTORS".

SUCCESS FACTORS

SUCCESS FACTORS:

- 1 | Recognized brand and 20 years of experience
- 2 | The leading position on the Polish market and established position in the Eastern markets
- 3 | Qualified team of engineers
- 4 | High quality certifications
- 5 | Own laboratory facilities to enable development, testing and introduction of new products
- 6 | Flexible range of products tailored to customer needs
- 7 | Collaboration with leading scientific centers in Poland and abroad
- 8 | Technological advancement of products



APS Energia S.A.

Selected References
OIL & GAS

Nord Stream Natural Gas Pipeline Russia–Germany



Nord Stream Natural Gas Pipeline



НГХК New Urengoy Gas-to-Chemicals Complex

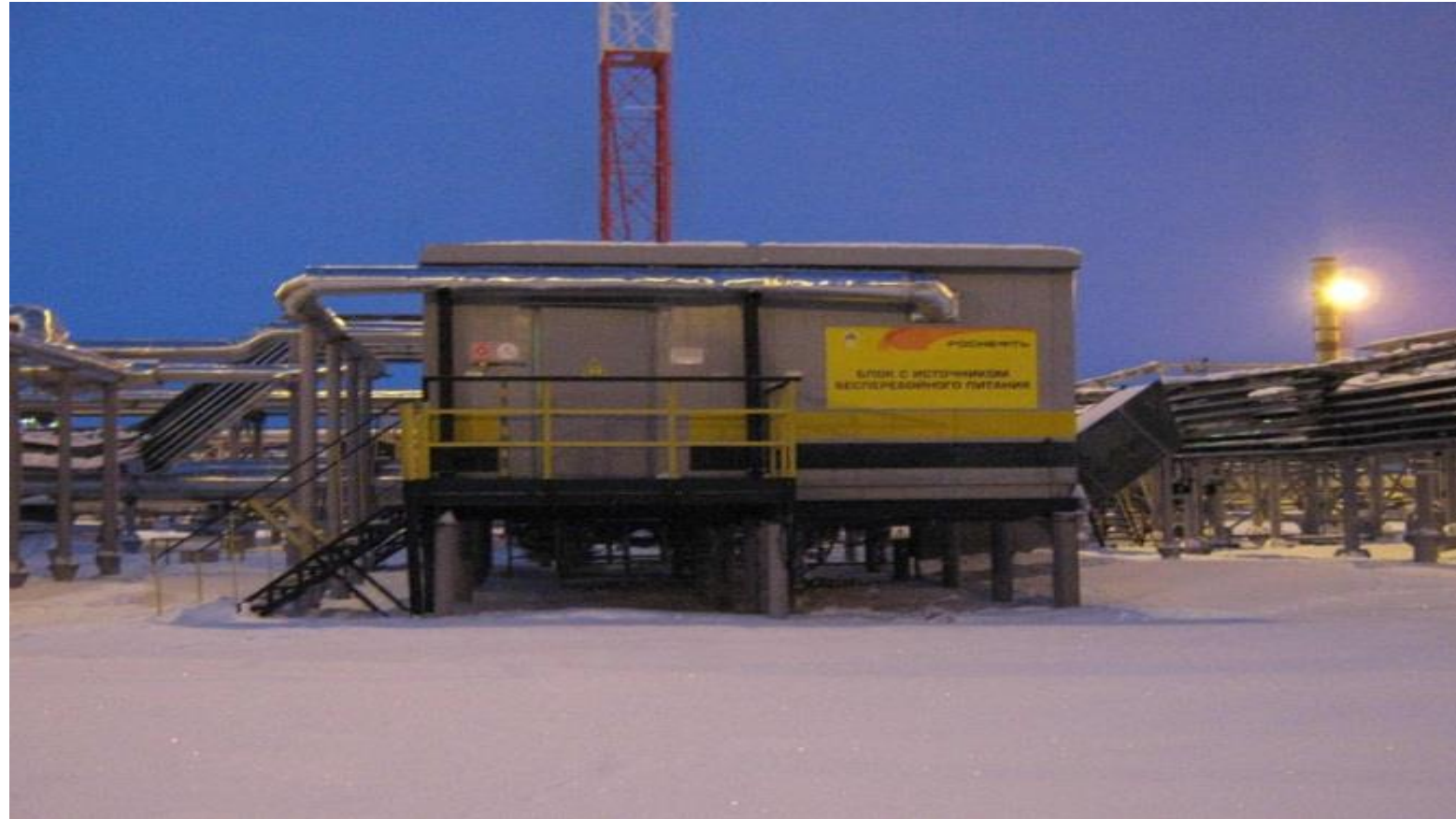
Northern Siberia



НГХК New Urengoy Gas-to-Chemicals Complex



Kompressor Station KS-2, Gas Field Oba River (Siberia)



Copyright APS Energia S.p.A.

PKN ORLEN – Modernization of guaranteed power supply systems



2010 : 1 Mio USD:
12 AC systems, 6 DC systems,

2011 : 0.7 Mio USD:
13 AC systems, 5 DC systems,

2012 : 0.9 Mio USD:
10 AC systems, 5 DC systems,

2013 : 1 Mio USD:
12 AC systems, 6 DC systems,

2014 : 1.4 Mio USD:
16 AC systems, 4 DC systems,

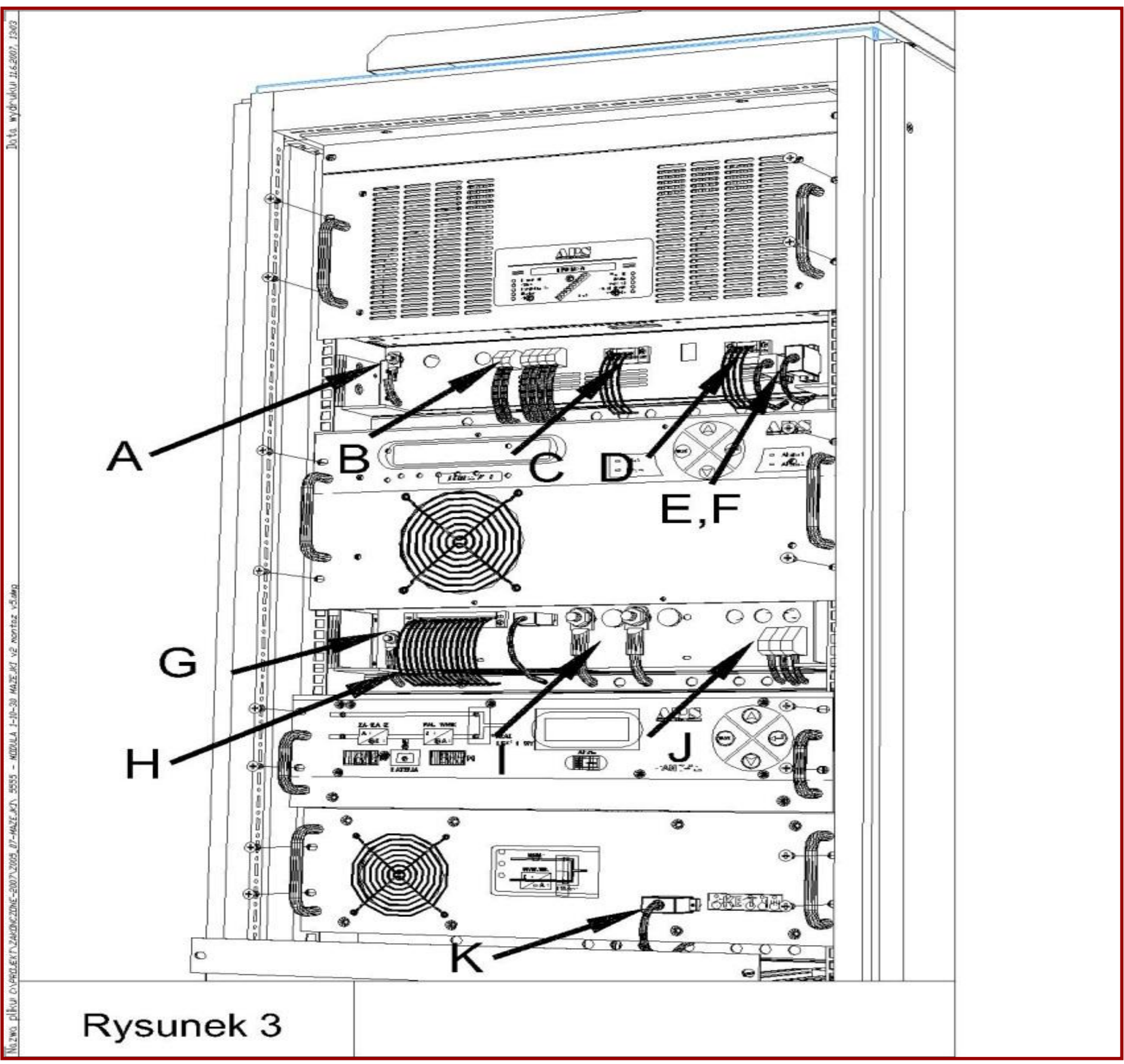
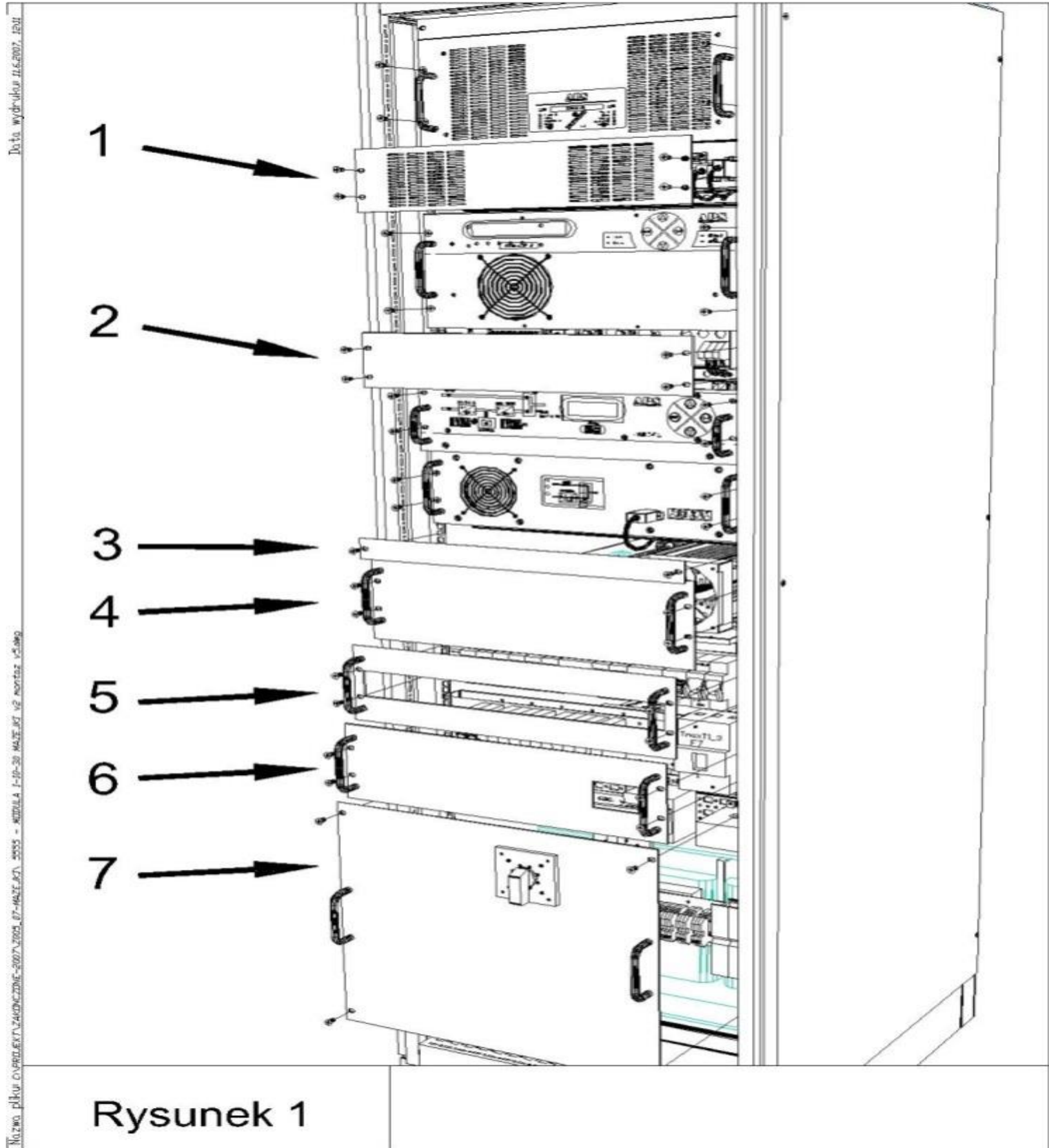
Mazeikiu Refinery, Lithuania – Power supply for the new process lines



**30 doubled (redundant)
AC guaranteed power supply systems**



Mazeikiu Refinery – Lithuania



High demands regarding reparation time: MTTR – 20 minutes

Kenkiyak-Kumkol Natural Gas Pipeline, Kazakhstan



Kenkiyak-Kumkol Natural Gas Pipeline, Kazakhstan



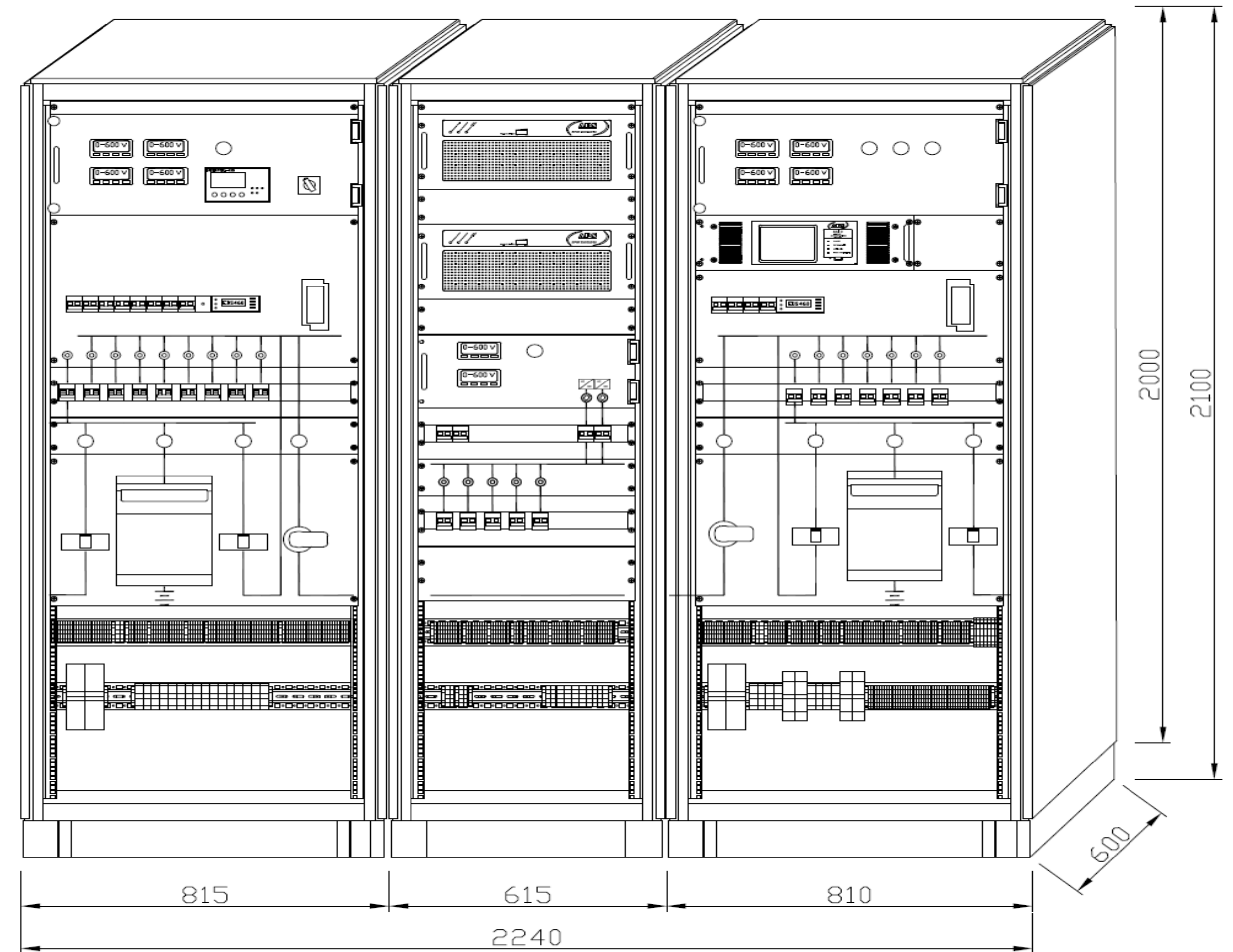
Caspian Pipeline: Kazakhstan – Russia



KS Russkaya – Main Kompressor Station of South Stream Pipeline



Gas Fields – „Kokdumulak”, „Gazli”, „Shurtan” in Uzbekistan



Crude Oil and Natural Gas Pipelines (EAST-WEST) SAUDI ARAMCO



Crude Oil and Natural Gas Pipelines (EAST-WEST) SAUDI ARAMCO



Worldwide On-Site Service

