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SPECIAL PROJECTS

OUR ENERGY FLEXIBLE AND VERSATILE

SPECIAL PROJECTS One of our most distinctive features is the ability to adapt to the specific needs of each client, especially when it comes to our range of special projects, whose keyword is undoubtedly flexibility. With a wide variety of extras, Grupel's special projects can be customized, modified and adapted according to the needs of our



GRUPEL SPECIAL PROJECTS' EXTRAS

- ► Supervision and Data Acquisition System (SCADA): control and communication with centralized systems (DCS)
- ► Human machine interface (HMI): touch screen installed on the control panel, with remote access, via Internet, from mobile devices
- ► Integrated circuit breakers and integrated medium voltage cells
- ► Integrated fuel systems

customers, over the years.

- ► Independent fire protection systems (PCI): detection and extinction
- ▶ Pneumatic and electric redundant starting system
- ► Solutions for extreme temperatures (-30°C to 55°C)
- ► Explosive atmosphere systems (ATEX)
- ► Large capacity fuel tanks and automatic fuel pumping systems
- ► Engines with optimized emissions
- ► Remote engine cooling systems using air exchangers
- ▶ IP54 soundproofed enclosures
- ► Large capacity dust filters, 'heavy duty' type
- ▶ Panels of industrial sockets inserted in the equipment and with easy access

SPECIAL PROJECT SUPPORTING A WASTEWATER TREATMENT PLANT

Australia

This Special Project, installed in Australia, is composed of 3 generators of 1900kVA (STP) with MITSUBISHI engine (S16R-PTA) and STAMFORD alternator (S9H1D-B4). It was specifically developed for emergency operation in a wastewater treatment plant (WWTP).

Its special features include 1200L fuel tanks, remote cooling systems, and voltage transformers with integrated fuses.





NATURAL GAS COGENERATION PLANT

Mexico

Special project consisting of an 1875kVA PRP generator, which operates on gas and makes use of heat, both for the refrigeration circuit and for the exhaust. The generator is in a 40" soundproof container, divided into two spaces - an electrical room and a generation room that houses the entire auxiliary system, equipped with a gas and fire detection system.

The system was designed to produce energy continuously (24h / 365 days).





BLACK START SYSTEM FOR COMBINED CYCLE POWER PLANT

Special project that consists of a medium voltage generation plant, composed of 5 generators of 3125kVA, in 40" containers, and with a total power of 15.6MVA. Each container has a fuel system with great autonomy (5000L) and a fire detection and extinguishing system. The project has a Black Start system whose role is to guarantee the start-up of the combined cycle in the absence of grid. For this, it has an automatic control system with redundant PLCs and a SCADA with connection to the command center (DCS) of the Azito Plant.





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