




ENERGY EVERYWHERE
WATER





| WATER IS LIFE AND LIFE IS **ENERGY**

Over the past 20 years, water consumption has doubled worldwide.

In our homes and families, in agriculture and in several other businesses, we all make use of this essential good and depend on its quality. Therefore, various infrastructures for its management and use abound, such as wastewater treatment plants or desalination plants to increase the amount of drinking water available.

Power generators play an important role in providing energy and support to this type of facilities, as many of them depend on a complementary source of energy to meet their consumption and maintain a safe operation.

Over the years, Grupel has developed a number of projects dedicated to this sector, supporting the distribution of quality water to people around the world.





GRUPEL SOLUTIONS FOR WATER

Through its Engineering team, Grupel is prepared to help you in the development of a solution adapted to the needs of any WWTP or Desalination Plant.

WHAT CHARACTERISTICS DO THESE POWER GENERATORS HAVE?

ENGINEERING



Creation of the solution according to the norms in effect and the requirements of the installation, considering its location and energy consumption.

CONTINUOUS OPERATION



Optimized performance and the possibility of parallel operation for a continuous supply of electrical energy to the works.

ROBUSTNESS



Resistant canopies and containers with anti-corrosion finish for harsh environments and exposure to high humidity indexes.

VARIETY OF EXTRAS



Incorporation of extras that ensure safe and efficient operation, such as remote startup, communication modules, including WiFi, among others.

ADAPTABILITY



Compliance with international emissions and noise standards through soundproofing with rock wool and the inclusion of components such as STAGE V engines.

CUSTOMIZATION



Projects adapted to each market and to the conditions agreed and specified by each client, depending on the demands of each plant.

APPLICABLE PRODUCT RANGES

IR

INDUSTRIAL RANGE

40 - 1250 kVA

A high-power range, with generators suitable for large urbanistic, touristic, industrial projects, and infrastructures such as road, rail and air networks. Robust options, adapted to harsh environments, with dust and other particles.

HR

HEAVY RANGE

800 - 3150 kVA

Containerized gensets, developed by our R&D+I team, to meet industrial needs with high energy requirements. Prepared to supply low and / or medium voltage power, either continuously or in standby mode.

GR

GAS RANGE

Natural gas or biogas-powered generators are more economical, environmentally responsible and reliable. They tend to be applied in industrial contexts, such as in the oil and gas petrochemical industry, in shopping centers, cogeneration plants or airports, which require high-power outputs and great efficiency.

SP

SPECIAL PROJECTS

Grupel's Special Projects have "flexibility" as its motto, as they are designed according to the needs of each client. High-power gensets and electrical engineering solutions, fully customized, usually containerized and equipped with a wide range of extras that allow them to perform more efficiently and reliably.

OUR PROJECTS IN THE SECTOR

WATER

Over the years, Grupel has created highly reliable and robust solutions, by adapting its products to the needs of real customers, contributing to the development of local communities, in Portugal and worldwide.



LUCENS WWTP

SWITZERLAND

⚡ 275kVA 🏠 Grupel 🏠 Grupel

Grupel recently supplied a project of energy support to a wastewater treatment plant in Lucens, Switzerland, aiming to ensure power to the entire facility, in case of failure of the grid. The project consists of a 275kVA Grupel+Grupel generator set, for standby operation, and includes temperature, oil and fuel sensors, as well as a pre-heating resistor and lifting eyebolt to facilitate transportation.



DESALINATION PLANT

MEXICO

⚡ 4MW 🏠 Volvo/Doosan 🏠 Leroy Somer

Grupel carried out a special project to support a desalination plant, in Guaymas, Mexico.

With five generators, two (2) of 640kVA and three (3) of 930kVA, the project was designed to operate continuously. The sets with the same power can operate in parallel with each other, all have marinization treatment, given the coastal location, and include anti-seismic synoblocks and large autonomy tanks (1000L).



DESALINATION PLANT

MOROCCO

⚡ 1,1MW 🏠 Iveco 🏠 Leroy Somer

A special project produced by Grupel currently supports a desalination plant in Morocco. Designed to operate in case of emergency, it is composed by two 550kVA generators, that are able to work in parallel.

The equipment has anti-condensation resistors, anti-seismic synoblocks and fuel tanks (with double wall) of 1000L, connected to an external filling and return system.

WWTP

AUSTRALIA

⚡ 5,7MW 🏭 Mitsubishi 🏭 Stamford

To ensure the energy support of a WWTP in Australia, Grupel designed and produced a project composed of three (3) 1900KVA power generators.

Each set has a 1200L fuel tank, pre-heating resistors with pump and voltage transformers with integrated fuses.

The units are programmed to operate in parallel and have a remote cooling system.



WWTP

QATAR

⚡ 2,2MW 🏭 Perkins 🏭 Stamford

Grupel supplied a 2200kVA diesel generator to operate in an emergency, supporting a water treatment plant in Qatar. The generator set, installed in a 40" container, includes industrial air filters and was designed to operate under high temperatures, and high levels of salinity and humidity. The project also contains a cooling and water filtration system for the fuel.



WWTP

ANGOLA

⚡ 995kVA 🏭 Doosan 🏭 Stamford

Grupel produced and installed two (2) generator sets to support a WWTP in the village of Balombo, Benguela (Angola).

The equipment, with 330kVA and 665kVA, were designed to operate in standby mode. They are robust and adapted to adverse weather conditions, such as high temperatures and environments subject to dust and sand, and have fuel tanks of 550L and 700L.





GRUPEL
energy everywhere



Founded in 1976, Grupel was born with the mission of taking Energy where it is needed.

Our wide range of products includes standard generators from 3 to 3500kVA, portable lighting towers and complex special projects developed on a custom basis.

We have a 360° specialized team that guarantees quality services, from design to technical assistance and spare parts supply.

Grupel has the confidence of the Portuguese market, having been distinguished with the Five Stars Award (Prémio Cinco Estrelas) and the SME Leader (PME Líder) status. And it is also recognized on a global scale, being present in over 70 countries.

The best Energy. From Portugal to the world.



6 REASONS TO CHOOSE **GRUPEL**

EXPERIENCE

For over 45 years, Grupel designs, produces and sells power generators, taking energy to the whole world, with its unique know-how and experience.

FOCUS ON THE CLIENT

Grupel works for the satisfaction of its clients, supporting the entire life cycle of their projects and developing the best solutions for each need.

GLOBAL SCALE

Grupel is a brand awarded on several occasions in Portugal and recognized internationally, being present in over 70 countries on 5 continents.

VERSATILITY

With a wide range of powers, Grupel can serve highly demanding applications such as industries, data centers, hospitals or power plants and cogeneration systems.

TECHNICAL ASSISTANCE

Grupel's team responds to any doubt or intervention that you may need, through maintenance services, technical assistance and supply of spare parts.

QUALITY

Grupel works with components from internationally renowned brands and its own brand, being certified by the quality standards ISO 9001 and 14001 and the CE marking.



TECHNICAL SUPPORT AND **AFTER SALES SERVICES**



TECHNICAL ASSISTANCE

Performed remotely,
by phone
or on site.



SPARE PARTS SERVICE

Spare parts for engines,
alternators and generators
of all brands.



GENERATOR MAINTENANCE

Full and personalized
monitoring of your
equipment.



START-UP AND TRAINING

Functional tests and
training for the use of
the equipment.



GENERATOR REFINISHMENT

Improvement of obsolete
generators or components in
poor condition.



SOLUTIONS AND PROJECTS

Proposals
tailored
to your needs.

Order one of these services at
www.grupel.eu

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