

We put our soul into everything we do



GeNews 2019 | GENESAL ENERGY

SPAIN

EMERGENCY POWER TO GUARANTEE SECURITY IN A DATA CENTRE IN MADRID

GENESAL ENERGY
ESPAÑA / SPAIN

2xGEN1250T
CENTRO PROCESO DE DATOS /
DATA CENTER

PRP 2x1.130 kVA **400/230 V**
STP 2x1.250 kVA **50 Hz**

MTU
Mecc alte



*Comprehensive service is one of our strong points, an element that sets us apart because we offer the client the possibility to have a project that's **one hundred percent specialised** from the beginning to the end of the process, right at their fingertips.*

One of our latest 'turnkey' orders has been the delivery, set-up and installation of two 1.250 kVA gensets, model GEN 1250T, for a data centre in Madrid.

Data Centres or Data Processing Centres (DPCs) are specially designed environments which house complex and modern computer equipment, from

computers to storage or network systems. They are facilities in which any electrical failure is a catastrophe as these types of instances can paralyze companies and risk the great amount of information they manage.

For this reason, generator sets are vital in Data Centres as the service they provide must be continuous, without interruption.

NORWAY

Supply of two generators to a fish farm in Norway



We've supplied **two 660 kVA gensets** through our distributors in Norway, prepared to operate in parallel, which will guarantee the electricity supply of a fish farm.

POWER RANGE: GEN660P

CLIENT'S NEED: Supply power in the event of a mains failure to guarantee the operation of the electrical and water supply systems necessary for the breeding of fish, such as incubators, water circulation and transfer systems or automated machines for the feeding of the fish, amongst others.

FINLAND

We designed a mobile genset adapted to the needs of our client to start up at low temperatures

The close relationship we have with our distributors has lead us to supply a **130/142 kVA trailer-mounted genset**, with weight limitations and prepared to be moved around in unfavourable meteorological conditions.

POWER RANGE: GEN142FC

CLIENT'S NEED: To supply mobile power in the municipality of Janakkala, in the South of Finland. The client will move the integrated trailer to different buildings, fire stations and similar installations in the locality, in case of an emergency.



MEXICO

More projects in Mexico: Emergency power for Topolobampo II

Another accomplishment by our branch office in Mexico has meant we've been able to supply a 220 kVA genset under **CFE (Comisión Federal de Electricidad or Federal Electricity Commission)** specifications. Said generator set will supply power to the Topolobampo II (Sinaloa) switching substation, guaranteeing power to one of the most important ports of entry of the **mexican pacific coast**.



SUPPLY: GEN220FC

CLIENT'S NEED: Supply power in the event of a mains failure for the switching substation's emergency components.

FEATURES

- RAL 1021 yellow canopy according to CFE specification W4700-10.
- 24v starting system.
- 4 pole & 630 A transfer system.
- Heaters in the alternator's windings.

OMAN



We continue to reinforce our presence in the middle east

Oman has immense potential in the field of renewable energies, especially solar and wind. One of our latest projects in this country consisted in the supply of a **500 kVA made-to-measure generator set** for a great wind farm.

SUPPLY: GEN500VC

CLIENT'S NEED: The GEN500VC genset had to be installed to cover the client's need of guaranteeing the wind farm's auxiliary services.

It's designed to operate in parallel with the mains, to withstand elevated temperatures and to guarantee the farm's auxiliary services based on the characteristics of the site itself, installation and operation. At Genesal Energy, we're able to grow in the Middle East thanks to new projects in countries such as Oman, Qatar and Saudi Arabia.

FEATURES

- Generator set prepared to operate in parallel with the mains, equipped with a motorized thermal-magnetic breaker for the genset.
- Alternator with Class B temperature rise and anti-condensation heating.
- 800 L fuel tank integrated in the base frame with leakage tray.
- Independent, approved, double-walled 4000L with an automatic fuel transfer system.
- Neutral earthing resistor to limit the earth fault current.
- Control panel heating system.

AUSTRIA

We're in Austria, the demanding central european market

100/110 kVA genset to be mounted on a trailer in Austria, for the genset fleet of an important telecommunications company.



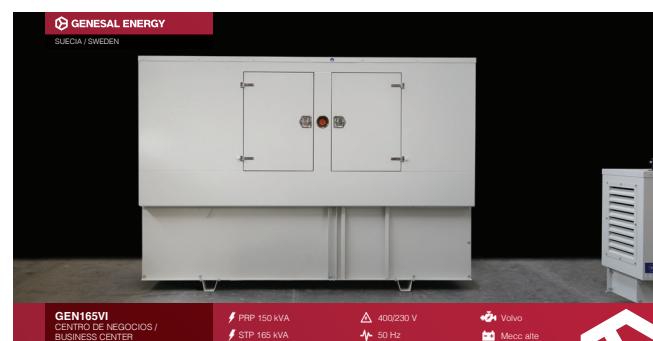
SUPPLY: GEN110FI

CLIENT'S NEED: To both supply power to telecommunication towers during maintenance tasks, as well as to work in parallel to mains when it's at the base not attending to emergencies, operating in the event of a mains failure.

SWEDEN

We take the best energy to Sweden

Europe is a strategic market and one of our latest projects has taken us to Sweden, a country in which we've consolidated our position thanks to, in great part, the gensets from our **Low Temperatures range** -prepared to operate in especially adverse conditions with thermometers hitting below zero-.



SUPPLY: GEN165VI

CLIENT'S NEED: To supply power in mains failure situations for the emergency elements of an office building, such as emergency lighting, cooling...

CHAD

The Saudi Arabian Embassy in Chad is powered by Genesal Energy

The Saudi Arabian Embassy in Chad is powered by Genesal Energy, through **four generator sets designed and manufactured made-to-measure**, in two sets of two different power ratings: 1.000/1.100 kVA and 1.500-1.650 kVA respectively, prepared for parallel operation.

The four gensets are designed to **guarantee a constant and failure-free power supply, 24/7, 365**.

If ever there were to be a failure in the mains power supply, both gensets would start up; as long as loads don't exceed 80% power of one of the gensets, one of them will stay in operation, powering the loads, and the other will stop; but if the load reaches 80%, the other genset would operate in parallel with the other, powering the loads.

IN PARALLEL

Likewise, in the event of the failure of one of the gensets operating on its own, the other will start up, providing redundant operation.

As well as its parallel, redundant, power-managing system, the units manufactured by Genesal Energy for the Saudi Arabian Embassy have the particularity of including a power outlet adapted to the client's needs, constructed with a bus bar capable of holding up to four cables per phase of 630 mm² at the genset breaker's outlet.

FEATURES

- Special bus bar at the genset breaker's outlet to hold up to four cables per phase of 630 mm².
- Parallel and redundant operation between the gensets.
- 1000 L. Schütz fuel tank with Inpro fuel transfer system.
- Recirculation and heating system for the engine's coolant in order to provide the correct temperature for start up.
- Control panel integrated in the base frame.





**GENESAL
ENERGY**

Personalised solutions for your energy challenges



We put our soul into everything we do

Starting with a white canvas and creating a personalized project. Making use of cutting-edge innovation to achieve maximum reliability of our generator sets. Technical Assistance Service wherever you need us. This is the result of the talent and experience of our team but, above all, it's the result of an attitude.

Because giving our very best is part of our DNA.

