

2018

2024



Some of our most  
outstanding  
projects



# CUSTOM ENERGY SOLUTIONS

We are the stellar energy that sets many industries in motion, our clients' businesses, or that gives light to the lives of thousands of people. A light that shines brightest at night, but is always there when you need it.

Here's how we have overcome several challenges through the development of tailor-made energy solutions.

**Will you join us?**

# Contents

|                                  |           |
|----------------------------------|-----------|
| <b>Who we are</b>                | <b>04</b> |
| <b>Applications and projects</b> | <b>06</b> |
| <b>Hospital sector</b>           | <b>08</b> |
| <b>Industry</b>                  | <b>14</b> |
| <b>Hotel and catering</b>        | <b>20</b> |
| <b>Educational Centres</b>       | <b>26</b> |
| <b>Equipment</b>                 | <b>32</b> |
| <b>Institutions</b>              | <b>38</b> |
| <b>More executed projects</b>    | <b>44</b> |
| <b>Contact</b>                   | <b>46</b> |

# Why are we the energy solution you need?

## Experience

Say goodbye to the uncertainty of facing a major technological challenge. We are highly qualified professionals with extensive experience undertaking projects like yours.

## Quality

We work with the highest quality standards to ensure that your generator sets are reliable, safe and accompanied by the best possible care and service.

## Personalisation

We design and develop energy solutions that respond to the challenges, needs and circumstances of our customers.

## Versatility

Our ability to adapt to any challenge has allowed us to specialise in different sectors and target applications where the installation of electrical generators is required.









## Applications and projects



### Industry

We have designed multiple generating sets specially intended for use in diverse industrial applications, as a main source of power supply or for emergency contexts.



### Machinery leasing

We have a complete range of references specially designed for operation by machinery leasing companies, in various fields of application.



### Data Processing Centres (DPCs)

We have experience in the development of integral energy projects for data processing centres. We feature approved engines for DPCs.



### Construction

The generating sets for use in the construction sector present important specific characteristics, to which Dagartech responds with a wide range of generators.



### Events

If you need a generator to make sure nothing goes wrong with your events, we have the generator you need. Super silent units capable of working in parallel will guarantee the reliability you need.



### R+D+i Centres

The research centres and R+D+i institutes are usually equipped with equipment with high energy demands, as well as requiring absolute guarantees of uninterrupted operation. In these cases, we work on obtaining the best emergency energy solution for each circumstance.



### Infrastructures

Gensets specially designed for use in infrastructure. Aviation, rail, sea or telecommunications are some of the most prominent destinations.



### Hospital sector

There are times when you're not allowed to fail. For those moments we have designed high-quality generating sets that Dagartech offers to the hospital sector. Fail-safe components and predictive and preventive maintenance services ensure constant power in this sector.



### Audiovisual sector

The audiovisual sector requires power generators with which to guarantee the normal course of its activity (uninterrupted broadcasting and supply in case of power failure), and at Dagartech we have developed several national and international projects in this sector.



### Residential

Dagartech has designed and developed numerous projects for the installation of generating sets in housing stocks and urban developments. Power failure equipment with high attenuation elements offer reliable and silent service.



### Hotel and catering

We have carried out numerous projects to meet the energy needs of the hotel and catering sector, with solutions adapted to each case.



### Mining

Robust generating sets which guarantee a maximum level of reliability and very flexible equipment to meet the requirements of the activities for the exploitation and extraction of minerals.



### Public spaces Infrastructure

Dagartech has designed and developed generators suitable for emergency use in various public spaces, such as shopping malls, town halls or sports facilities.



### Oil&Gas

If you need generating sets ready to work in the upstream sector (exploration, drilling and fuel extraction), refineries, fuel storage facilities or service areas, we can help you.



### Military

The military field is a strategic sector in which we have developed multiple projects, offering generating sets with a high level of customisation, quality, robustness, reliability and adaptation to demanding and complex environments.



### Educational Centres

At Dagartech, we have carried out numerous projects for schools and diverse educational centres, integrating equipment in synchronisation with the electrical network for operation under network failure.



### Power plants

We work in the development of generating sets to be part of distributed generation power plants.



### Agriculture and livestock

Dagartech has developed a complete range of generators to meet the needs of the primary sector.



**DAGARTECH**<sup>®</sup>

CUSTOM ENERGY SOLUTIONS







**Hospital  
sector**

# Generating sets of the Industrial range to supply power in emergency situations to the Hospital de La Princesa in Madrid

With the installation of two 550 kVA equipment for stand-by application, we guaranteed the power supply of one of the eight "high complexity hospitals" in the capital.

The Hospital Universitario de La Princesa has 49 Departments covering all specialities, except for Gynaecology, Obstetrics and Paediatrics. This hospital stands out for its research work, occupying first place in scientific production in relation to the number of beds it has.

Currently, this hospital covers health care for a population of 323,000 people for basic specialities and is the reference centre for nearly one million for those of high complexity. It attends to 16,000 hospital admissions, 440,000 outpatients and 100,000 emergency room patients annually.

| Application   | Location             | Location       | Installed capacity   | Year |
|---|----------------------|----------------|--|------|
| <br>Hospital | La Princesa Hospital | Madrid (SPAIN) | <b>1,100kVA</b> in sync with the network.<br>(Ref: 2 x DGV 550 ST) | 2019 |





## Customer needs:

The **main requirement** that the Technical Management of the project proposed was that the **team to design was to be activated automatically in the event of a power failure**, offering the additional benefit of “**delete the second zero**” to its restoration.

### Other requirements associated with this project:

- **Emergency power** sized at **1,100kVA**.
- **Flexible and comprehensive event monitoring** and comprehensive display of engine information.
- **Guaranteeing an autonomy higher than 18** hours (operating at 100% load).

## Our stellar solution

To meet the above requirements, we designed and developed two **custom-made generator sets from the Industrial range with 550 kVA power**, controlled by a switchboard that allows their synchronisation and switching with the network. In the event of any anomaly or failure of the supply, the units start automatically and supply power to the Hospital: **when the supply is restored, the units synchronise with the network and transfer the load to it "without going through zero."**

## Summary of specifications:

### Engine-alternator block (both units)

- **Volvo engine** (TAD 1641 GE).
- **Engine heating system** to ensure immediate start-up of the equipment.
- **Stamford Alternator** (HCI544D) **with AVR regulation - PMG+MX321** ( $\pm 0,5\%$ ).

### Control panels







- **DSE 8610 MKII Control Module** which allows the synchronisation of the two generators and the switchboard, controlling the state of the network and the load of the generators.

### Fuel tanks









- **Tanks of 1,075-litre capacity**, guaranteeing over 20 hours of autonomy at 100% load.

# More projects executed for hospitals

The hospital sector is one of the areas of application in which we have developed a higher level of specialisation, completing numerous projects of high commitment and technical complexity. Below, we would like to share some of them with you.

| Application   | Location  | Location                      | Installed capacity   | Year |
|---|---|-------------------------------|--|------|
|    | <b>University Clinics</b>   | Lubumbashi (D.R.CONGO)        | <b>275 kVA</b> for network failure operation. (Ref: BGBS 275 ST) | 2021 |
|   | <b>112 Emergency Service</b><br>Support equipment during the health crisis due to COVID-19. | Zaragoza (SPAIN)              | <b>275 kVA</b> for network failure operation. (Ref: DGVS 275 ST) | 2020 |
|  | <b>112 Emergency Service</b>  | Seville (SPAIN)               | <b>275 kVA</b> for network failure operation. (Ref: BGBS 275 ST) | 2020 |
|  | <b>Medical Assistance Centre (RNA)</b><br>24-hour medical assistance network                | Miraflores, Oeiras (PORTUGAL) | <b>45 kVA</b> for network failure operation. (Ref: BGBS 45 ST)   | 2020 |
|  | <b>Loeri Comba Hospital</b>   | Malabo (EQUATORIAL GUINEA)    | <b>550 kVA</b> for network failure operation. (Ref: DGVS 550 ST) | 2020 |
|  | <b>Paca Hospital</b>  | Paca Region (FRANCE)          | <b>135 kVA</b> for network failure operation. (Ref: DGIS 135 ST) | 2019 |



| Application   | Location  | Location                            | Installed capacity   | Year |
|---|---|-------------------------------------|--|------|
|    | <b>Madeira Private Hospital</b>   | Madeira Funchal (PORTUGAL)          | <b>650 kVA</b> for network failure operation. (Ref: DGVS 650 ST) | 2018 |
|    | <b>Vilafranca del Penedès Hospital</b>  | Barcelona (SPAIN)                   | <b>500 kVA</b> for network failure operation. (BGVS 500 ST)      | 2024 |
|    | <b>Santarém Hospital</b>  | Santarém (PORTUGAL)                 | <b>1110 kVA</b> for network failure operation. (DGC 1110 ST)     | 2021 |
|   | <b>Newcastle Hospital</b>   | Newcastle, Northumberland (ENGLAND) | <b>860 kVA</b> for network failure operation. (DGC 860 ST)       | 2021 |
|  | <b>San Rafael Hospital</b><br>Not-for-profit medical-surgical hospital. Support equipment during the health crisis due to COVID-19. | Madrid (SPAIN)                      | <b>440 kVA</b> for network failure operation. (Ref: BGBS 440 ST) | 2021 |
|  | <b>Gregorio Marañón Hospital</b><br>Clinical Biochemistry Laboratory Support equipment during the health crisis due to COVID-19.    | Madrid (SPAIN)                      | <b>450 kVA</b> for network failure operation. (Ref: DGVS 450 ST) | 2020 |
|  | <b>Aix en Provence Hospital</b>   | Aix en Provence (FRANCE)            | <b>135 kVA</b> for network failure operation. (Ref: DGIS 135 ST) | 2019 |
|  | <b>San Eloy de Barakaldo Hospital</b><br>Regional reference hospital for the towns of Barakaldo and Sestao.                         | Barakaldo, Basque Country (SPAIN)   | <b>650 kVA</b> in sync with the network. (Ref: DGV 650 ST)       | 2019 |



**DAGARTECH<sup>®</sup>**  
CUSTOM ENERGY SOLUTIONS








Industry

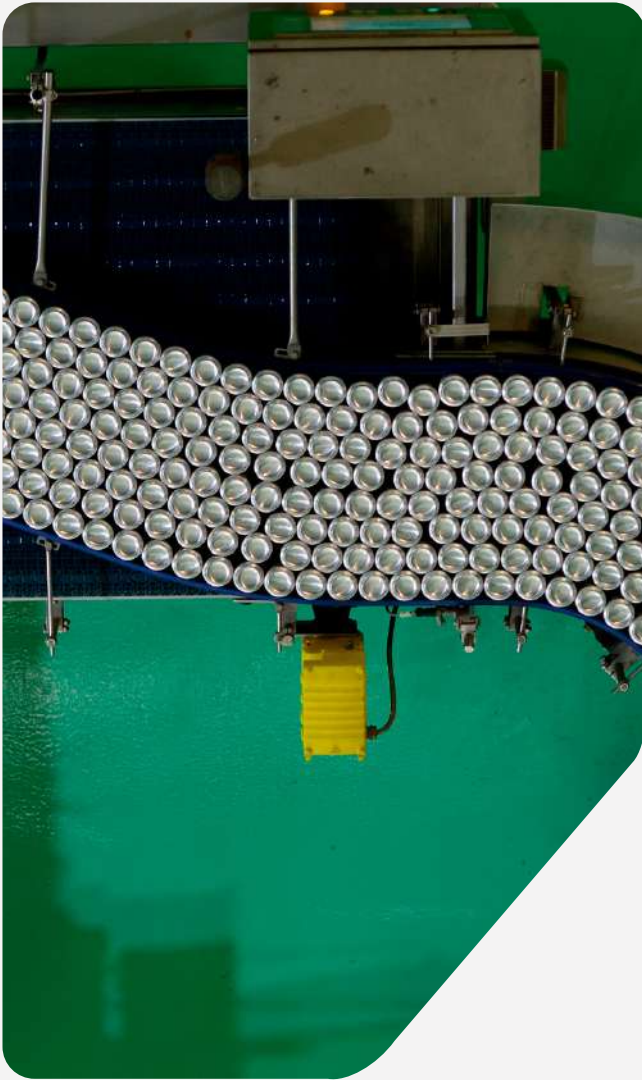
# 4,400kVA in synchronisation to guarantee the production of millions of litres of beverage without interruption

**With the installation of 4 generating sets of 1,100 kVA in synchronisation for emergency use, we have managed to guarantee the production of one of the largest producers of food and beverages on the African continent.**

This beverage factory is one of the largest producers of food and beverages in Africa. The company has 4,500 employees and its facilities extend over 42 hectares. With a production of 1.9 billion litres of drinks per year, it distributes its products through more than 150 different brands.

In order to guarantee a constant and uninterrupted power supply, **Dagartech developed for these facilities a set of generators that operate in synchronisation upon network failure.**

| Application  | Location   | Location        | Installed capacity  | Year |
|--|--|-----------------|---|------|
| <br><b>Industry</b> | Food and beverage manufacturing and marketing company. | Angola (AFRICA) | <b>4,100kVA</b> for network failure operation.<br>(Ref: 4 x DGC 1100 ST in synchronism) | 2018 |



## Our stellar solution

To meet the requirements set out above, we designed and developed a facility consisting of **four 1100kVA power generators in synchronisation**. The system is capable of detecting any anomaly or failure of the electrical network and automatically starts up, supplying the factory with beverages; **when the supply is restored, the installation detects it, synchronises with the network and transfers the load to it.**

## Summary of specifications:

### Motor-alternator block

- **Cummins engine** (KTA 38-G5).
- **Engine heating system** to ensure immediate start-up of the equipment.
- **Stamford Alternator** (HCI634H) **with AVR regulation - PMG+MX321** ( $\pm 0,5\%$ ).

### Control panels

- **ComAp Intelivision 8 Control Modules**, a simple and easy to use Plug & Play solution that provides the user with a clear and comprehensive display of all engine data, monitoring information and trend and operating history.







## Customer needs:







- To guarantee the supply of electrical energy to a beverage manufacturing plant with **power requirements measured in 4400 kVA standby**.
- Having a **reliable installation** that it was **able to cope with long periods of operation** as a main supply source, in the event of total or partial cuts in the electricity network.
- Offer an optimal level of fuel consumption by designing an **efficient installation**.
- **Reduce and optimise** as much as possible **the maintenance and replacement tasks**.



# More industry projects executed

The uniqueness between industries brings with it great variety in terms of requirements and performance. We have carried out numerous projects to meet the energy needs of the hotel and catering sector, with solutions adapted to each case. Here are some of them.

| Application   | Location  | Location                      | Installed capacity   | Year |
|---|---|-------------------------------|--|------|
|    | <b>Pago de Carraovejas Winery</b><br>Valladolid winery renowned for the high quality of its wines | Valladolid (SPAIN)            | <b>825 kVA</b> for network failure operation. (Ref: DGBS 825 ST)     | 2023 |
|   | <b>Egg producer</b><br>Leading egg production, grading and marketing industry in central Portugal | Ferreira do Zêzere (PORTUGAL) | <b>1,000 kVA</b> for network failure operation. (Ref: DGC 1000 ST)   | 2021 |
|  | <b>Water treatment plant</b>  | Montpellier (FRANCE)          | <b>135 kVA</b> for network failure operation. (Ref: DGIS 135 ST)     | 2020 |
|  | <b>Truffle industry</b><br>Installation for back-up power in cold storage areas                   | FRANCE                        | <b>45 kVA</b> for network failure operation. (Ref: DGKS 45 ST)       | 2020 |
|  | <b>Plantation</b>   | CANADA                        | <b>1,500 kVA</b> for network failure operation. (Ref: DGVS 500 ST)   | 2019 |
|  | <b>Sommos Garnacha Winery</b><br>DO Calatayud winery  | Zaragoza (SPAIN)              | <b>220 kVA</b> for network failure operation. (Ref: 1 x BGBS 220 ST) | 2023 |

| Application   | Location   | Location                       | Installed capacity   | Year |
|---|--|--------------------------------|--|------|
|    | <b>Viveros de los Pirineos Fish Farm</b><br>Fish production plant of 12 hectares | El Grado,<br>Huesca<br>(SPAIN) | <b>550 kVA</b> for network failure operation.<br>(Ref: 1 x BGV 275 ST + 1 x BGVS 275 ST) | 2020 |
|    | <b>Milk and dairy producer</b>   | BULGARIA                       | <b>650 kVA</b> for network failure operation.<br>(Ref: DGV 650 ST)                       | 2020 |
|    | <b>Refinery</b>  | URUGUAY                        | <b>110 kVA</b> for network failure operation.<br>(Ref: DGPS 110 ST)                      | 2020 |
|   | <b>Milk powder industry</b>  | Kinshasa<br>(D.R. CONGO)       | <b>550 kVA</b> for network failure operation.<br>(Ref: 2 x BGVS 275 ST)                  | 2018 |
|  | <b>Cocoa plantation</b>  | Kinshasa<br>(D.R. CONGO)       | <b>300 kVA</b> for network failure operation.<br>(Ref: 2 x DGVS 330 ME)                  | 2018 |
|  | <b>Paper industry</b>  | URUGUAY                        | <b>275 kVA</b> in sync with the network. (Ref: DGVS 275 ST)                              | 2018 |

Would you like to know more about our industry solutions and services?

Write to us at  
[info@dagartech.com](mailto:info@dagartech.com)

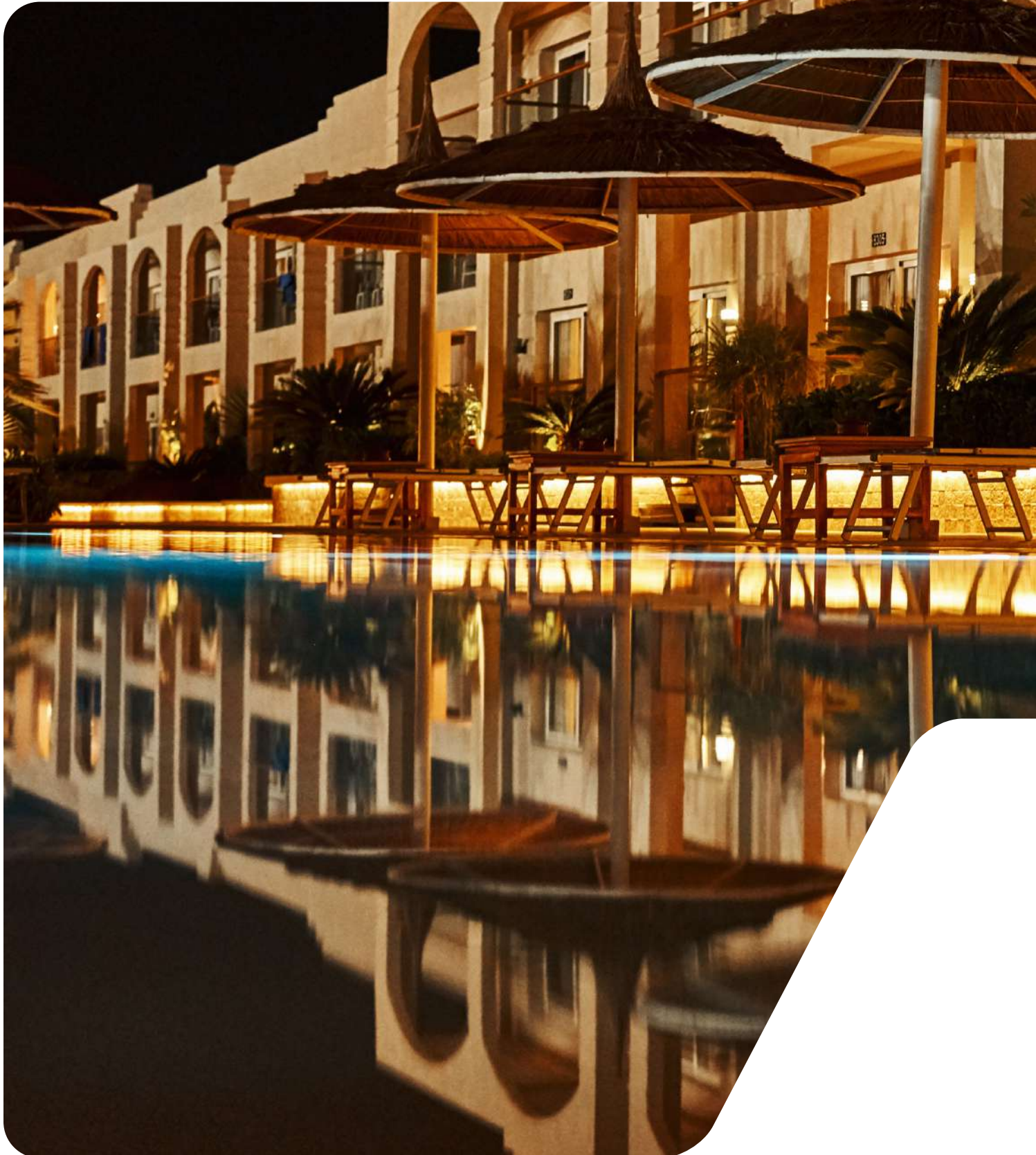
Call us on:  
**+34 976 141 655**

Visit our website  
[dagartech.com/es/aplicaciones/industria](https://dagartech.com/es/aplicaciones/industria)





**DAGARTECH<sup>®</sup>**  
CUSTOM ENERGY SOLUTIONS







# Hotel and catering

# 1,950kVA Dagartech power to supply the Savoy Palace Hotel ★★★★★

**We designed an installation consisting of 3 generator sets of 650kVA in sync for stand-by application.**

The Savoy Palace Hotel opened its doors in June 2019, with 309 rooms and 43 suites. Classified as a 5-star luxury hotel, this site has a spa, 5 swimming pools, 5 restaurants and conference rooms to accommodate more than 1000 people. The design of the hotel is a tribute to Madeira Island and reflects its unique characteristics, recreating spaces such as spa caves or the Laurissilva forest.

**In order to guarantee a constant and uninterrupted power supply, Dagartech developed a generator set for these facilities that operate in synchronisation upon network failure.** In the event of a power failure, the Dagartech equipment would start up, synchronise and switch over, supplying the complex with the necessary energy.

| Application  | Location  | Location                    | Installed capacity  | Year |
|--|---|-----------------------------|---|------|
| <br><b>Hotel and catering</b> | <b>SAVOY PALACE (5*) Hotel</b><br>5-star luxury hotel complex | Funchal, Madeira (PORTUGAL) | <b>1,950kVA</b> for network failure operation<br>(3 x 650 KVA Synchronisation)<br><br><i>(Ref: 3 x BGVS 650 ST)</i> | 2020 |





In the event of a network outage and after restoration, the equipment would detect it, synchronise with the network and transfer the load to the network.

### Our stellar solution

To meet the customer's requirements, we designed, developed and manufactured an installation consisting of **three 650kVA generator sets in synchronisation**, capable of detecting any anomaly or power failure in the electrical network, starting up automatically and completely covering the installation's energy needs.

In addition, the installation is **designed in such a way that the equipment is load-sharing** and thereby **optimises fuel consumption** and equalises maintenance periods.

### Customer needs:

The Savoy Hotel needed to **guarantee a power supply that cannot be interrupted**, which the Technical Management of the project sized at **1,800 kVA of power** in emergency.

The **main requirement** of this project was that **the equipment had to react automatically to network outages or interruptions**.

#### Other requirements associated with this project:

- **Flexible and comprehensive event** monitoring and comprehensive display of engine-related information, thus facilitating maintenance or repair work on the machine.
- **Guaranteeing an autonomy higher than 8** hours (operating at 100% load).

### Summary of specifications:

#### Engine-alternator block (of the three units)

- **Volvo engine** (TAD 1642 GE).
- **Engine heating system** to ensure immediate start-up of the equipment.
- **Stamford Alternator** (HCI544E) **with AVR regulation - PMG+MX321** ( $\pm 0.5\%$ ).

#### Control panels

- **DSE 8610 MKII Control Modules** which allow the synchronisation of multiple devices. The control unit monitors the generator and fault conditions, starting or stopping it in an emergency situation.








#### Fuel tanks

- **Tanks of 1,075-litre capacity**, guaranteeing over 20 hours of autonomy at 100% load.

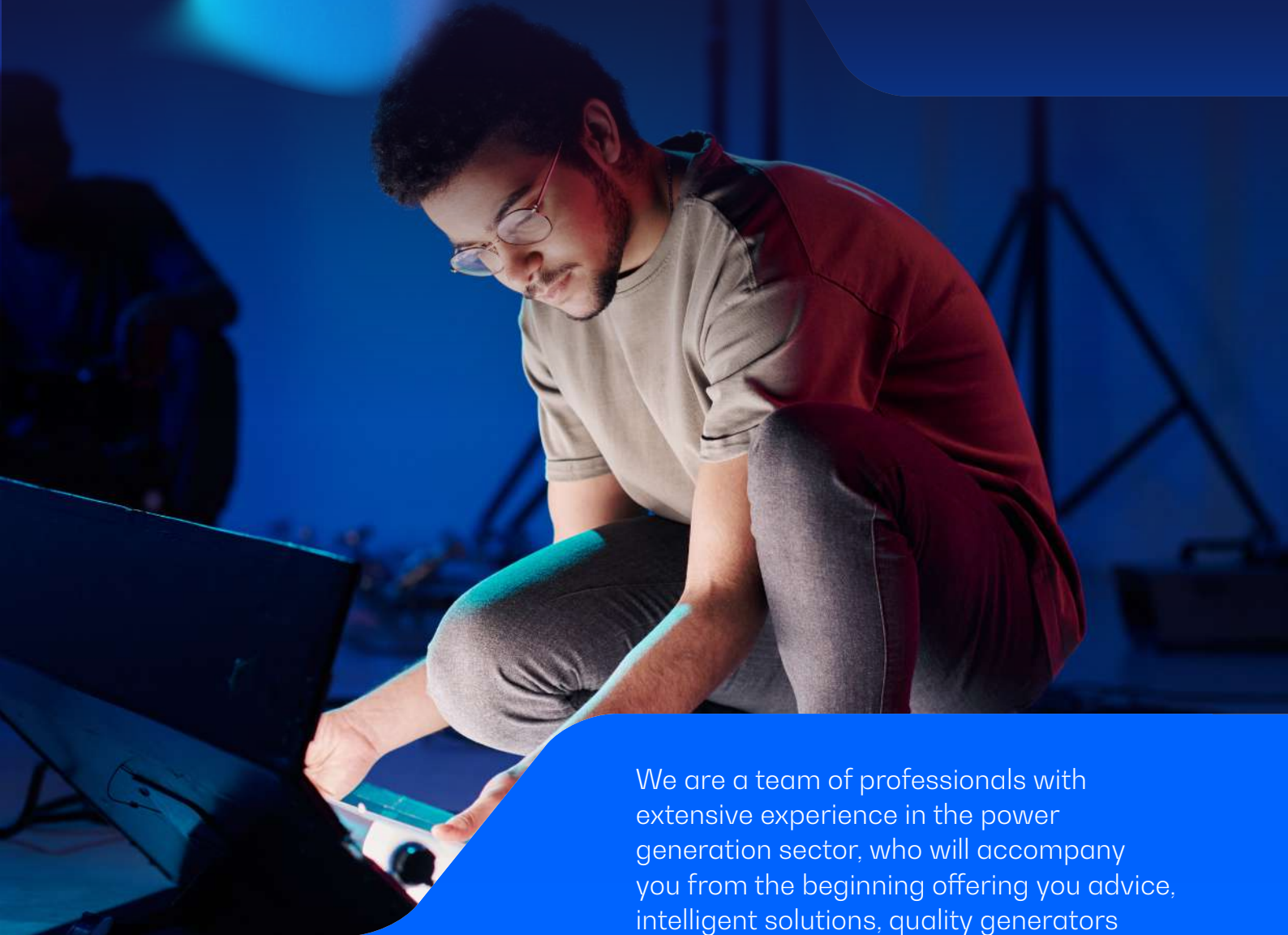


# More projects executed for the hospitality sector

We have carried out numerous projects to meet the energy needs of the hotel and catering sector, with solutions adapted to each case. Here is a small selection.

| Application   | Location  | Location                           | Installed capacity  | Year |
|---|---|------------------------------------|---|------|
|    | <b>Inatel Costa da Caparica (3*)</b><br>Hotel of the Inatel Group with 35 rooms | Almada,<br>Lisbon<br>(PORTUGAL)    | <b>450 kVA</b> for network failure operation.<br>(Ref: DGVS 450 ST) | 2019 |
|   | <b>Inatel Manteigas (3*)</b><br>Hotel of the Inatel Group with 52 rooms         | Manteigas,<br>Guarda<br>(PORTUGAL) | <b>275 kVA</b> for network failure operation.<br>(Ref: DGVS 275 ST) | 2018 |
|  | <b>Parador de Santa Rita - Molina de Aragón</b>                                 | Guadalajara<br>(SPAIN)             | <b>330 kVA</b> for network failure operation.<br>(Ref: BGBS 330 ST) | 2022 |
|  | <b>Sensi Azores Nature &amp; SPA (5*)</b>                                       | Azores<br>(PORTUGAL)               | <b>90 kVA</b> for network failure operation.<br>(Ref: BGBS 90 ST)   | 2022 |
|  | <b>Wadra Bay Resort (5*)</b><br>Luxury hotel with 50 rooms                      | Lifou<br>(NEW CALEDONIA)           | <b>450 kVA</b> for network failure operation.<br>(Ref: DGCS 450 ST) | 2021 |
|  | <b>Pax Hotel (4*)</b><br>Hotel establishment with 105 rooms                     | Guadalajara<br>(SPAIN)             | <b>275 kVA</b> for network failure operation.<br>(Ref: DGVS 275 ST) | 2019 |
|  | <b>Hotel complex</b>  | URUGUAY                            | <b>110 kVA</b> for network failure operation.<br>(Ref: DGPS 110 ST) | 2019 |

# Shall we get to work on your next **project?**



We are a team of professionals with extensive experience in the power generation sector, who will accompany you from the beginning offering you advice, intelligent solutions, quality generators and the best after-sales service so that everything goes well. **Shall we begin?**

## **Dagartech · Headquarters**

Polígono Centrovía · C/ Panamá, 12  
50198. La Muela, Zaragoza (Spain)

[dagartech.com](https://www.dagartech.com)



**DAGARTECH<sup>®</sup>**  
CUSTOM ENERGY SOLUTIONS







# Educational Centres

# 700kVA in emergency for uninterrupted teaching at Liceo Europeo in Madrid

This generator set included a permanent magnet and top-quality components to ensure the energy needs of the installation in the event of a mains failure.

The Liceo Europeo de Madrid is a private school of national and international prestige. More than 1,200 pupils between the ages of 2 and 18 study there.

Its extensive facilities and unique equipment required the installation of emergency equipment to ensure an uninterrupted power supply.

| Application   | Location   | Location          | Installed capacity   | Year |
|---|--|-------------------|--|------|
| <br><b>Educational Centres</b> | <b>European Lyceum</b><br>Private Education Centre | Madrid<br>(SPAIN) | <b>700kVA</b> for network failure operation.<br>(Ref: DGVS 700 ST) | 2020 |



### Our stellar solution

To meet the above requirements, **we designed and manufactured a tailor-made 700 kVA power generator set with Volvo engine**, capable of detecting any anomaly or mains failure.

This generator, **equipped with a heavy-duty galvanised steel cab, interior soundproofing and an efficient -35dB(A) silencer**, also includes a 1,300-litre fuel tank for over 10 hours of runtime at 100% load.

### Customer needs:

**Components of the highest quality and reliability** as well as a **rapid response to mains failures**, were the essential requirements of this project.

#### Other requirements associated with this project:

- Emergency **power rated at 700kVA**.
- **Event monitoring** and comprehensive display of engine information.
- **Guaranteeing an autonomy higher than 8 hours** (operating at 100% load).
- **Minimisation of the equipment's noise levels**, resulting in the quietest possible installation.

### Summary of specifications:

#### Motor-alternator block

- **Volvo engine** (TWD 1643 GE).
- **Engine heating system** to ensure immediate start-up of the equipment.
- **Stamford Alternator** (HCI544F) **with AVR regulation - PMG+MX321** ( $\pm 0.5\%$ ).










#### Control panels

- **Deep Sea Electronics control module (DSE 7320 MKII)**, a complete control board with grid monitoring, automatically switches the genset on when an outage is detected in the electrical grid and automatically switches off when the supply of electricity is restored.



# More projects executed for the education sector

Below, we show you some of the projects we have carried out in order to meet the energy needs of schools, universities and other education centres, with solutions adapted to each case.

| Application   | Location   | Location                     | Installed capacity  | Year |
|---|--|------------------------------|---|------|
|    | <b>University of Açores</b><br>Angra do Heroísmo na Ilha Terceira Campus | Angra do Heroísmo (PORTUGAL) | <b>330 kVA</b> for network failure operation.<br>(Ref: DGI 330 ME)  | 2021 |
|    | <b>UNED</b><br>National University of Distance Education                 | Madrid (SPAIN)               | <b>410 kVA</b> for network failure operation.<br>(Ref: BGVS 410ST)  | 2024 |
|   | <b>Faculty of Luminy</b>   | Marsella (FRANCE)            | <b>450 kVA</b> for network failure operation.<br>(Ref: DGVS 450 ST) | 2023 |
|  | <b>UNED Headquarters - Las Rozas</b>                                     | Madrid (SPAIN)               | <b>110 kVA</b> for network failure operation.<br>(Ref: BGBS 110 ST) | 2022 |
|  | <b>College of Development Montearagón</b>                                | Zaragoza (SPAIN)             | <b>45 kVA</b> for network failure operation.<br>(Ref: DGKS 45 ST)   | 2022 |
|  | <b>University of Seville</b>   | Seville (SPAIN)              | <b>135 kVA</b> for network failure operation.<br>(Ref: DGIS 135 ST) | 2019 |
|  | <b>I.E.S. Cuarte de Huerva</b>   | Zaragoza (SPAIN)             | <b>110 kVA</b> for network failure operation.<br>(Ref: DGPS 110 ST) | 2019 |
|  | <b>Escola Secundária Henrique Medida em Esposende</b>                    | Esposende (PORTUGAL)         | <b>75 kVA</b> for network failure operation.<br>(Ref: DGPS 110 ST)  | 2022 |
|  | <b>I.E.S. Ciudad de los Ángeles</b>                                      | Madrid (SPAIN)               | <b>22 kVA</b> for network failure operation.<br>(Ref: DGKS 22 ST)   | 2019 |

# Shall we make your next **challenge** a reality?



If you like what you've seen so far, and you think we could become your trusted **partner** and start working together on your next project, contact us.

**CUSTOM  
ENERGY  
SOLUTIONS**

[dagartech.com](http://dagartech.com)



**DAGARTECH**<sup>®</sup>  
CUSTOM ENERGY SOLUTIONS







# Equipment

# Dagartech Energy secures supply at a Primark shop

**The 275kVA generator set was to include anti-condensation heaters and special surface treatments to combat corrosion**

We completed a new project to guarantee the supply of electricity in emergency situations.

In this case, we designed and manufactured a generator set for installation in the Primark - Las Arenas establishment in Las Palmas de Gran Canaria. This Irish chain, dedicated to the sale of fashion, beauty and household items at low cost, has 253 shops, 47 of which are located in Spain.

| Application   | Location     | Location   | Installed capacity   | Year |
|---|--------------|--|--|------|
| <br><b>Equipment</b> | Primark shop | Las Palmas de Gran Canaria, Canary Islands (SPAIN) | <b>275kVA</b> for network failure operation.<br>(Ref: BGVS 275 ST) | 2021 |



## Customer needs:

The technical management of the project requested the **design and manufacture of a generator set** to cover the energy needs of the establishment **in the event of possible power failures**.

### Other requirements associated with this project:

- Design and manufacture the generating set according to **efficiency - safety criteria**, offering reliable equipment with a balanced quality-price ratio.
- Come up with a solution **that would cope with the extreme humidity conditions of the environment**, maximising the durability of the equipment in optimum conditions.
- **Flexible and comprehensive event** monitoring and comprehensive display of engine-related information, thus facilitating maintenance or repair work on the machine.
- Guarantee an more than **10 hours' autonomy** (operating at 100% load).

## Our stellar solution

After analysing the energy needs to be covered, as well as the circumstances of use to be faced by the equipment, **the power demands of the facility were sized at 275kVA Standby**.

Given that the generator would be installed on the roof of the building and outdoors, the only possible option was to opt for a **soundproof generator set**. The bodywork was given a special surface treatment. Thus, the body, made of 2mm galvanised steel sheet, was treated with C5-M anti-corrosion paint.

The alternator was also equipped with **anti-condensation resistors**.

The generator set was accompanied by a **DSE 892 communications module**, with the aim of facilitating periodic remote checks of the machine and detecting anomalies in its operation at an early stage.

## Summary of specifications:

### Engine-alternator block (of the three units)

- **Volvo engine** (TAD 840 GE).
- **Stamford Alternator** (UCD1247K) **with AVR regulation - AS440**.
- **Anti-condensation resistors** in the alternator to ensure optimum alternator performance despite the extreme humidity of the environment.









### Control panels










- **Deep Sea Electronics control module (DSE 7320 MKII)**, a complete control board with grid monitoring, automatically switches the genset on when an outage is detected in the electrical grid and automatically switches off when the supply of electricity is restored.



# More projects executed to equip public spaces

The following is a selection of projects carried out for the equipment of various public spaces, from theatres to sports facilities.

| Application   | Location                                   | Location                   | Installed capacity   | Year |
|---|--|----------------------------|--|------|
|    | <b>Fire station</b>                        | Avignon (FRANCE)           | <b>15 kVA</b> for network failure operation.<br>(Ref: DGPS 15 ST)    | 2020 |
|    | <b>Stratford Festival Studio Theatre</b>   | Stratford (CANADA)         | <b>500 kVA</b> for network failure operation.<br>(Ref: DGVSW 500 ST) | 2019 |
|   | <b>Correos Express Office - Getafe</b>     | Madrid (SPAIN)             | <b>440 kVA</b> for network failure operation.<br>(Ref: BGBS 440 ST)  | 2021 |
|  | <b>Caja Rural de El Sur</b>                | Seville (SPAIN)            | <b>330 kVA</b> for network failure operation.<br>(Ref: BGC 330 ST)   | 2022 |
|  | <b>Sports centre in Cuarte de Huerva</b>   | Zaragoza (SPAIN)           | <b>70 kVA</b> for network failure operation.<br>(Ref: BGBS 70 ST)    | 2022 |
|  | <b>Sports centre in Principes de Viana</b> | Navarra (SPAIN)            | <b>45 kVA</b> for network failure operation.<br>(Ref: BGBS 45 ST)    | 2022 |
|  | <b>Guadalupe Fire Station</b>              | Guadalupe, Cáceres (SPAIN) | <b>35 kVA</b> for network failure operation.<br>(Ref: BGBS 35 ST)    | 2022 |
|  | <b>Financial institution</b>               | Montevideo (URUGUAY)       | <b>110 kVA</b> for network failure operation.<br>(Ref: BGPS 110 ST)  | 2021 |

| Application   | Location   | Location                 | Installed capacity   | Year |
|---|--|--------------------------|--|------|
|    | <b>Consum Supermarket</b>  | Valencia (SPAIN)         | <b>110 kVA</b> for network failure operation.<br>(Ref: BGBS 110 ST)                          | 2020 |
|    | <b>Supermarket chain</b>   | Brighton (ENGLAND)       | <b>385 kVA</b> for network failure operation.<br>(Ref: DGVS 385 ST)                          | 2020 |
|    | <b>Office building</b>   | Arauna (NIGER)           | <b>450 kVA</b> for network failure operation.<br>(Ref: DGVS 450 ST)                          | 2020 |
|   | <b>Áccura Sports &amp; Wellness Centre</b>                         | Barcelona (SPAIN)        | <b>45 kVA</b> for network failure operation.<br>(Ref: BGBS 45 ST)                            | 2020 |
|  | <b>Financial institution</b>                                       | Kinshasa (D.R. CONGO)    | <b>450 kVA</b> for network failure operation.<br>(Ref: DGVS 450 ST)                          | 2020 |
|  | <b>Supermarket chain</b>   | Brighton (ENGLAND)       | <b>385 kVA</b> for network failure operation.<br>(Ref: DGVS 385 ST)                          | 2020 |
|  | <b>EROSKI Supermarket</b>  | Malaga (SPAIN)           | <b>700 kVA</b> for network failure operation.<br>(Ref: DGVS 700 ST in sync with the network) | 2019 |
|  | <b>Peñarol Sports Complex</b>                                      | Barros Blancos (URUGUAY) | <b>650 kVA</b> for network failure operation.<br>(Ref: DGVS 650 ST)                          | 2019 |
|  | <b>Conforama</b><br>Establishment dedicated to household equipment | Murcia (SPAIN)           | <b>170 kVA</b> for network failure operation.<br>(Ref: DGVS 170 ST)                          | 2018 |



**DAGARTECH<sup>®</sup>**  
CUSTOM ENERGY SOLUTIONS







# Institutions

# 200kVA in emergency to guarantee power supply to the Ministry of Culture

This genset includes a **DSE 890 communication module**, with which the equipment can be remotely monitored and controlled

We completed the installation of a generator set in La casa de las Siete Chimeneas, the building in which the Ministry of Culture is currently housed.

The equipment had to guarantee power supply in the event of mains failure and provide full monitoring and control of the machine from any location.

**A custom-designed 200 kVA generator set was able to meet the demands of this project.**

| Application  | Location            | Location       | Installed capacity   | Year |
|--|---------------------|----------------|--|------|
| <br><b>Institutions</b> | Ministry of Culture | Madrid (SPAIN) | <b>200kVA</b> for network failure operation.<br>(Ref: DGPS 200 ST) | 2019 |





## Our stellar solution

To meet these requirements, a **200 kVA emergency power generator set** was designed and manufactured, with the capacity to detect anomalies in the network and start up in emergency.

The equipment **includes a DSE 890 communications module**, which facilitates remote connection to the equipment via PC or other devices.

## Summary of specifications:

### Motor-alternator block

- **Perkins engine** (1106A-70TAG3).
- **Engine heating system** to ensure immediate start-up of the equipment.
- **Stamford Alternator** (UC1274G) **with AVR regulation - PMG+MX321** ( $\pm 0.5\%$ ).

### Control panels

- **Deep Sea Electronics control module (DSE 7320 MKII)**, a complete control board with grid monitoring, automatically switches the genset on when an outage is detected in the electrical grid and automatically switches off when the supply of electricity is restored.
- **DSE 890 control panel**. The module collects all equipment information (general operating status, oil and coolant levels, working hours, etc.) and sends it to an e-mail address or mobile phone. It also allows monitoring and control from a PC.

## Customer needs:

The technical management of the project requested the **design and manufacture** of a generator set to cover the energy needs of the establishment **in the event of possible power failures**.








### Other requirements associated with this project:

- **Power stand-by rated at 200kVA.**
- **Maximum reliability and fast start-up** of the equipment in emergency situations.
- **Guaranteeing an autonomy higher than 8 hours** (operating at 100% load).








# More projects carried out for institutions

We have carried out numerous projects to meet the energy needs of schools, universities and various education centres, with solutions adapted to each case. Below, we would like to share some of them with you.

| Application   | Location                                     | Location                  | Installed capacity  | Year |
|---|--|---------------------------|---|------|
|    | <b>Mobile application for town hall</b>      | Aix en Provence (FRANCE)  | <b>50 kVA</b> for operation continuity.<br>(Ref: DGYR 45 ST)        | 2020 |
|   | <b>Town Hall</b>                             | Bouches du Rhône (FRANCE) | <b>45 kVA</b> for network failure operation.<br>(Ref: DGPS 45 ST)   | 2019 |
|  | <b>Forensic Anatomical Institute</b>         | Madrid (SPAIN)            | <b>330 kVA</b> for network failure operation.<br>(Ref: BGB 330 ME)  | 2024 |
|  | <b>Ministry of Education</b>                 | Madrid (SPAIN)            | <b>170 kVA</b> for network failure operation.<br>(Ref: BGVS 170 ST) | 2022 |
|  | <b>Palace of El Pardo</b>                    | Madrid (SPAIN)            | <b>400 kVA</b> for network failure operation.<br>(Ref: BGB 400 ST)  | 2020 |
|  | <b>National Institute of Social Security</b> | REP. CAPE VERDE           | <b>350 kVA</b> for network failure operation.<br>(Ref: DGVS 350 ME) | 2018 |
|  | <b>Police Station (CNP)</b>                  | Ciudad Real (SPAIN)       | <b>110 kVA</b> for network failure operation.<br>(Ref: BGBS 110 ST) | 2017 |

# And for the defence sector

We have also carried out various projects to meet the energy needs arising in the military field, with solutions adapted to each case. Here are some of the ones we can list.

| Application   | Location                           | Location          | Installed capacity   | Year |
|---|------------------------------------|-------------------|--|------|
|    | N.A.F.<br>(Nigerian Armed Forces). | Niamey<br>(NIGER) | <b>275 kVA</b> for operation continuity.<br>(Ref: DGVS 275 ST Synchronisation) | 2020 |
|   | Sancho Ramírez Barracks            | Huesca<br>(SPAIN) | <b>45 kVA</b> for network failure operation.<br>(Ref: BGBS 45 ST)              | 2020 |
|  | NATO air surveillance base         | UKRAINE           | <b>3,000 kVA</b> for network failure operation.                                | 2019 |
|  | El Hacho Military Barracks         | Ceuta<br>(SPAIN)  | <b>15 kVA</b> for network failure operation.                                   | 2019 |
|  | Home Office                        | URUGUAY           | <b>500 kVA</b> for network failure operation.<br>(Ref: DGVS 500 ST)            | 2018 |



Would you like to know more about our solutions and services?






Write to us at [info@dagartech.com](mailto:info@dagartech.com)

Call us on: **+34 976 141 655**






Visit our website [dagartech.com](http://dagartech.com)

# We still have more projects to show you

Various applications and numerous projects executed all over the world. Here are some of the most representative ones.

| Application   | Location                             | Location                   | Installed capacity  | Year |
|---|--------------------------------------|----------------------------|---|------|
| <br>Construction                     | <b>Construction aggregates plant</b> | Majorca (SPAIN)            | <b>1,540 kVA</b> for operation continuity.<br>(Ref: 2 x DGV 770 ST) | 2022 |
| <br>Data Processing Centres (DPCs) | <b>Data Centre</b>                   | BULGARIA                   | <b>550 kVA</b> for network failure operation.<br>(Ref: DGVS 550 ME) | 2020 |
|   | <b>Data Centre</b>                   | Marrakesh (MOROCCO)        | <b>500 kVA</b> for network failure operation.<br>(Ref: BGBS 150 ST) | 2020 |
|   | <b>Data Centre</b>                   | Rabat (MOROCCO)            | <b>500 kVA</b> for network failure operation.<br>(Ref: BGBS 165 ST) | 2020 |
|   | <b>Call Centre</b>                   | JAMAICA                    | <b>650 kVA</b> for network failure operation.<br>(Ref: DGVS 650 ST) | 2020 |
| <br>Power plants                   | <b>Calheta Hydroelectric Plant</b>   | Madeira Funchal (PORTUGAL) | <b>220 kVA</b> for network failure operation.<br>(Ref: DGVS 220 ST) | 2019 |
| <br>Oil & Gas                      | <b>Oil industry</b>                  | JAMAICA                    | <b>220 kVA</b> for operation continuity.<br>(Ref: DGPS 220 ST)      | 2020 |
| <br>Events                         | <b>El Cotijo Club</b>                | Cadiz (SPAIN)              | <b>220 kVA</b> for network failure operation.<br>(Ref: DGPS 220 ST) | 2018 |



| Application  | Location   | Location                      | Installed capacity  | Year |
|--|--|-------------------------------|---|------|
| <br>Residential                 | <b>Manor house</b>   | London (ENGLAND)              | <b>860 kVA</b> for network failure operation.<br>(Ref: DGC 860 ST)      | 2021 |
|  | <b>Block of flats and apartments</b>                                     | Kinsasa (D.R. OF CONGO)       | <b>415 kVA</b> for network failure operation.<br>(Ref: BGBS 415 ST)     | 2020 |
|  | <b>Residential housing stock</b>   | Kinsasa (D.R. OF CONGO)       | <b>600 kVA</b> for operation continuity.<br>(Ref: 4 x DGVS 150 ST)      | 2019 |
| <br>Audiovisual                 | <b>Medialuso (Mediapro)</b><br>Portuguese audiovisual production company | PORTUGAL                      | <b>220 kVA</b> for network failure operation.<br>(Ref: 2 x BGVS 110 ST) | 2019 |
| <br>R+D+i Centres             | <b>High-Tech Incubator</b>   | Mérida, Badajoz (SPAIN)       | <b>110 kVA</b> for network failure operation.<br>(Ref: BGB 110 ST)      | 2022 |
|  | <b>IBET</b><br>Institute of Experimental Biology and Technology          | Azores (PORTUGAL)             | <b>45 kVA</b> for network failure operation.<br>(Ref: DGPS 45 ST)       | 2019 |
|  | <b>ESA - European Space Agency</b>                                       | Barcelona (SPAIN)             | <b>45 kVA</b> for network failure operation.<br>(Ref: BGBS 45 ST)       | 2019 |
| <br>Agriculture and livestock | <b>Dairy farm</b>  | BULGARIA                      | <b>650 kVA</b> for network failure operation.<br>(Ref: DGV 650 ST)      | 2020 |
|  | <b>Egg farm</b><br>Portugal's leading egg producer                       | Ferreira de Zêzere (PORTUGAL) | <b>45 kVA</b> for network failure operation.<br>(Ref: BGBS 45 ST)       | 2018 |
| <br>Equipment                 | <b>Coaliment Supermarket</b>   | Valencia (SPAIN)              | <b>70 kVA</b> for network failure operation.<br>(Ref: BGBS 70 ST)       | 2023 |

If you want a **generating set** and need **commercial advice** to find the most intelligent energy solution.

If you're clear on what kind of generating set you need and **you want to request a quote**.

If you're interested in one of our generating sets and **you want us to inform you about the technical characteristics of a specific reference**.

If **your set has broken down** and you need us to help you fix it.

If you're **looking for** commercial advice to find **quality spare parts** for your machine.

Contact us, we  
**look forward**  
**to helping you**







## Spain

### Dagartech - Headquarters

Polígono Centrovía, Calle Panamá, 12  
50198, La Muela, Zaragoza (Spain).

Email  
[info@dagartech.com](mailto:info@dagartech.com)

Tel.  
+34 976 141 655

## Portugal

### Dagartech Portugal

Email  
[portugal@dagartech.com](mailto:portugal@dagartech.com)

Tel.  
+351 960 058 481

## Latin America

### Dagartech Latin America

Email  
[latam@dagartech.com](mailto:latam@dagartech.com)

Tel.  
+54 91 153 480 781





---

[info@dagartech.com](mailto:info@dagartech.com)

T +34 976 141 655

---

[dagartech.com](http://dagartech.com)