



NEWS

GENSETS · CORPORATIVE · PRODUCTS · SCIENCE&TECHNOLOGY · INNOVATION

25 Years
INMESOL
 1990 / 2015

INMESOL, S.L. CELEBRATES ITS 25TH ANNIVERSARY

A QUARTER OF A CENTURY DESIGNING AND MANUFACTURING GENERATOR SETS FOR 5 CONTINENTS



Actual front of the INMESOL factory in Corvera Murcia

Here at INMESOL we are very pleased to announce that this year we are celebrating the 25th anniversary of our company's business activities. To commemorate this milestone, we have created a news bulletin containing the latest information on our sector, new products and other interesting items to bring us even closer to our clients, if that is possible.

From the outset, the company has chosen people whose attitude, ability and training have added value to our projects and who are willing to take on any challenge set before them.

We currently export to a large number of countries across Europe, Asia, Africa, South America and Australia. Our clients come from a wide range of sectors, most notably those of construction, telecommunications, data centres, hospitals, ports, airports, industry, agriculture and public works, etc. The large projects entrusted to our company by important clients are testimony of their confidence in our equipment when a reliable power supply is essential, as was the case with the 21st Winter Olympics held last year in Sochi (Russian Federation).

If we analyse the history of our company, INMESOL had distinguished itself by its continuous exports development: in 2005 our market included 20 countries, expanding to 30 countries in 2006. Encouraged by this progress, we have energetically embarked on the conquest of the demanding markets in Asia, Africa and South America. By 2012 we had succeeded in establishing a presence in 70 countries across these three continents and Europe. Today INMESOL has solid commercial relationships with more than 80 countries, consolidating the company as one of the most important businesses developments in Europe.

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“ WE HAVE DESIGNED A SPECIAL LOGOTYPE TO COMMEMORATE THIS YEAR ”

AT INMESOL WE DESIGN AND MANUFACTURE ECO-FRIENDLY GENERATOR SETS

INMESOL, A COMPANY COMMITTED TO THE ENVIRONMENT

Inmesol generator sets have always been environmentally friendly (not just because they are painted green!) and we work constantly to make them even more eco-friendly.

It is a fact that the manufacture, transportation and the very function of many products which exist on the market generate gas emissions in the atmosphere. At Inmesol it has always been a priority for our generator sets not to have undue impact on the environment, and we work continuously to reduce emissions during the manufacture, transportation and operational processes.

Reduction of Gas Emissions During the Operational Phase of Generator Sets

The gas emissions into the atmosphere during the operational phase of a generator set – when it is working to produce electricity – mainly depend on the built-in motor. To minimise emissions during this phase, Inmesol offers a wide range of generator sets with the latest low-emission motors. Likewise, we assemble the alternators in the most efficient way possible to reduce emissions even further when the gensets are switched on.

Reduction of Emissions During the Manufacturing Process

Although it may seem strange at first that the emissions related to the manufacture and transport of a generator set have a significant relevance in terms of the total emissions produced in its complete life cycle, the truth is that most of the generator sets

we manufacture are for emergency purposes and only operate during the regular revisions carried out to ensure their proper maintenance or when they are used to supply electricity when there is a failure in the mains supply. This is a total of around 600 to 1000 hours at most of active hours for each generator set.

Aside from the aforementioned motor and alternators, there are other components which contribute to our equipment being eco-friendly, as we manufacture them ourselves. For example, the chassis and the canopies. At Inmesol we manufacture these pieces with pickled sheets. Similarly, during the design process, we endeavour to work with pre-cut metal sheets, thereby greatly reducing the number of journeys from the factory and the waste to be recycled. Moreover, we mechanise the sheet production through punching and bending the steel sheets in profiles, optimising the

welding using robots. On the assembly line the majority of the work is done manually, thus notably reducing the gas emissions into the atmosphere during this phase of generator set production.

Reduction of Emissions During the Painting Process

The Inmesol painting plant is designed to be highly efficient in terms of energy. We scrupulously monitor the gas emissions and the loss of heat during the cleaning and paint application process, using a powder coverage system which reduces the environmental impact while dilutions and liquids are drying. This system is very effective but must be carefully controlled to prevent large amounts of energy being consumed, which would produce emissions.

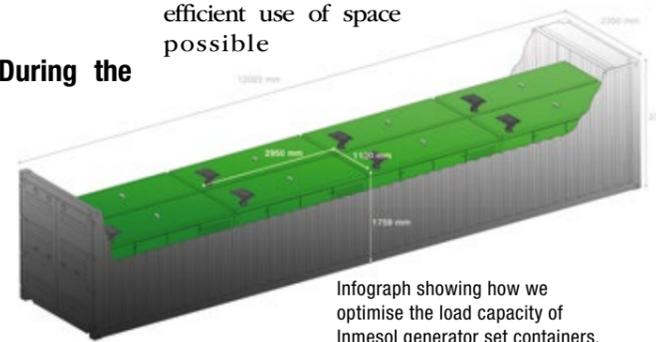


Reduction of Emissions During the Loading Test Process

The final tests we perform to check the operability of the generator sets cause emissions as we have to turn the equipment on and even do so in overload conditions. We are currently studying how to recycle the electricity produced during these tests. However, as we are not allowed to reintroduce this surplus supply to the power network, resolving the problem efficiently is complicated. Nonetheless, at Inmesol we are considering possible co-generation systems as a solution.

Reduction of Emissions During Storage and Transportation

At Inmesol we export generator sets around the world, so we are constantly optimising their design for the most efficient use of space possible



Infograph showing how we optimise the load capacity of Inmesol generator set containers.

in lorries and containers. These improvements not only reduce transport costs, but can also reduce fuel emissions by up to 25% (according to research by SCANIA). Likewise, we make a great effort to design space-effective boxes, pallets, etc. so products can be sent correctly according to the load capacity of lorries and containers.



A technician from our distributor in Cameroon supervises the installation of the generator set.

DOUALA AIRPORT ACQUIRES ONE OF OUR GENERATOR SETS

Douala International Airport (Republic of Cameroon) has recently acquired one of our generator sets: an automatic IV-275 model, which is now installed as an emergency power supply system in the event of a possible power cut on the local electricity network. The former capital of Cameroon, Douala is the largest city in the country and its airport has the highest volume of air traffic in the central African republic.

The equipment has been purchased through our distributor in Cameroon, Global Engineering Systems (GES). The company was founded in 2001 by Cameroon and European financial operators and its main business is the installation of electricity and information technology networks. It also sells, installs and maintains generator sets, voltage regulators and security cameras.

Contact information for the Inmesol generator set distributor in Douala, Cameroon:

Global Engineering Systems (GES)

Zone Industrielle Bassa-Douala

Face usine Icrafton

BP: 12525 Douala (Cameroon)

Phones:

(+237) 33 37 47 37 / 33 20 74 72 /

33 20 24 67 / 33 43 20 72.

Fax: (+237) 33 37 47 36 / 33 42 86 81.

E-mail:

gesdla@yahoo.fr, leonard.kamdem@gesdla.com

Léonard Kamdem (General Manager)

TODAY'S WORLD DEMANDS FAILSAFE NETWORKS

In many companies nowadays, **mobile telephones and Internet connections have replaced almost all the functions of the old fixed networks.** Moreover, some organisations have even dispensed with them completely, considering them obsolete, meaning that **the smooth running of their communications systems relies on the infrastructures of the electricity and telecommunications companies.** This situation of dependence frequently exposes their intrinsic vulnerability when there are failures in the power system, with consequent—and sometimes serious—losses for companies and the general public alike.

Failures in the electricity networks are inevitable. Recurrent incidents in different countries around the world demonstrate that there are multiple single points of failure. **The reasons are several:** a broken cable on a pylon due to a tree branch falling in a storm; electrical and solar storms; network overloads; extreme cold or heat waves; substation failures; or dilapidated cables. (See article: The Greatest Power Cuts in History.) **When this happens, the power supply is interrupted and, consequently, Internet connections and telecommunications may also fail, unless the companies in these sectors have backup infrastructures,** a circumstance which, unfortunately, is not the norm.

In the scenario described above, when Internet and mobile telephone use was not as widespread and the only requirement was an alternative to the fixed networks, the communications systems were not contingent on the electricity supply, as they were distributed in such a way that, if the network failed in one area, the incidence did not affect their operability. Today, however, we may find that we cannot even contact the technical and/or emergency services for systems essential to society and the world of business if our mobile operator leaves us without service. For example, when the hydraulic pumps used in floods, the fire alarm systems, etc. become inoperative. **Why have telecommunications become so dependent? Above all, what might be the solutions to this global problem?**



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“THE INMESOL GEN SETS IN THE STAND-BY RANGE COME INTO OPERATION AUTOMATICALLY WHEN THERE IS A POWER FAILURE, GUARANTEEING A RELIABLE AND EFFICIENT SUPPLY”

Growth in the sector of mobile telephones has been so fast that many operators, in a race to gain clients and offer them maximum reception by expanding their networks, have given precedence to the development of new technologies rather

than investing in robust, secure infrastructures with backup systems to deal with failures in the power supply (standby networks). Likewise, many copper lines have yet to be replaced by fibre optic cabling, even though they are much more robust for connections between hubs than the pylons located, for instance, in the countryside. Moreover, some operators rent spaces to other operators to save costs, jeopardising the service they provide to their users if their supplier has problems.

When the **telecom regulations** were devised, the evolution we have experienced could not have been predicted, but the current situation means modifications are required to **minimise the impact of future power supply failures.** Both the electricity and telecommunications companies have to be willing to invest in (fault-tolerant) standby networks and, when these failures occur, they should be invisible to the user. In other words, the systems need to be prepared to detect failures with the electrical current or data passing to another line in such a way that users are unaffected by the problem.

One solution to ensure backup without having to establish new physical networks is to obtain emergency power through generator sets. At Inmesol we manufacture equipment designed to provide power in all circumstances where a backup supply may be necessary: for server rooms, for **communication towers** installed in locations where there is no electricity network (in this case, two generator sets operate alternately as a power source), or as a **standby supply source.** We also manufacture mobile generator sets, which can be used in specific areas affected by a breakdown. Inmesol has a very extensive range of generator sets and our technical team is always happy to provide advice to find the best solution for your company.

Source: This article was inspired by information published in the Swedish newspaper Dagens Nyheter.

ADAPTED TO BE STRONG, VERSATILE AND RELIABLE

The INMESOL RENTAL RANGE provides ample and reliable power where and when it's needed.

RR RENTAL RANGE

STAGE IIIA COMPLIANT
SMART POWER

ISO 9001
BUREAU VERITAS Certification

ASSESSMENT OF INMESOL'S PARTICIPATION AT MIDDLE EAST ELECTRICITY 2015



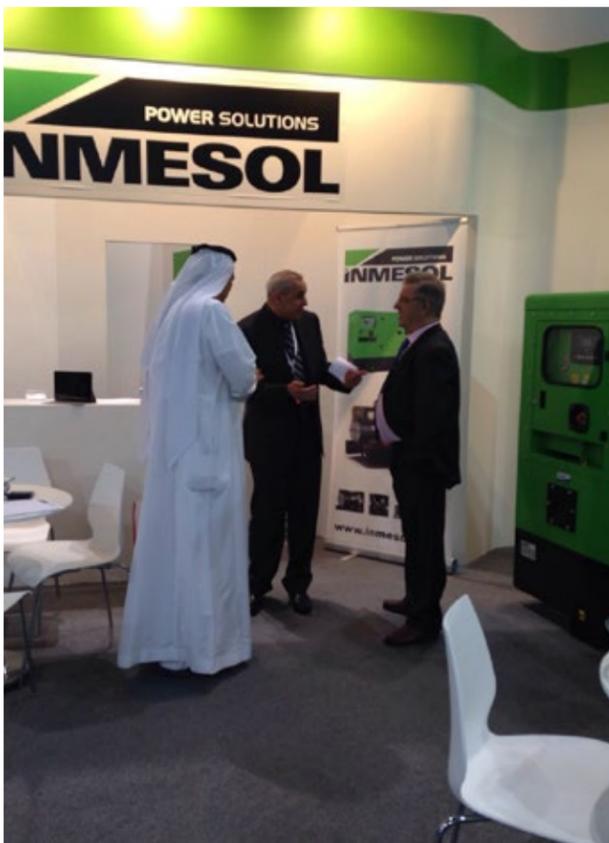
Image of the Inmesol stand at the Fair.

The Inmesol team in charge of our stand at **Middle East Electricity** last week has returned from Dubai with an even more positive **assessment**, if that's possible, of our presence at the fair than for the last four editions. One of the reasons for this is that over the past few years, our distributors in Middle Eastern countries have succeeded in positioning our brand as a synonym for quality in the market. As a result Inmesol **has a reputation and penetration which enables us to compete with the large global manufacturers of generator sets.**

Having met the objective of the previous editions, which was to make the companies in the general energy sector aware of the Inmesol brand, this year we have focused on the companies that are our direct core target. With a stand located in the pavilion along with other generator set manufacturers, the large exhibition space available to us meant we were able to present the new models with different powers and uses. These have recently been put on the market and potential clients were able to see **our product differentiation** in situ.

Moreover, this year we also expanded the area used to attend to our clients and visitors. Aiming for maximum comfort in our design, the efforts to make a welcoming ambience were appreciated.

Middle East Electricity is undoubtedly **the energy fair which gathers the best companies in the sector each year.** It is therefore a source of great satisfaction for Inmesol to be present in this environment and to obtain recognition from new Middle Eastern companies interested in the **high quality of the technology in our generator sets**, as well as being attracted by the **competitive conditions** we offer them.



Images showing Inmesol's participation at Middle East Electricity 2015



The new logo for the Middle East Electricity 2016 edition.

The **dates for the next edition of Middle East Electricity** have already been announced: it will be held from 1st to 3rd March 2016 and will have a **new logo.** The new design is an acronym of the name of the fair and is a graphic representation of the universal electrical diagram of battery and power sources.

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POWER SOLUTIONS
INMESOL

INMESOL, S.L.
CENTRAL HEAD OFFICE
Carretera de Fuente Álamo, 2. 30153 Corvera · MURCIA. SPAIN
Phone: +34 968 38 03 00 | Fax: +34 968 38 04 00
E-mail: inmesol@inmesol.com

Inmesol is present in over 80 countries worldwide

www.inmesol.com



Inmesol, S.L. company with ISO 9001 quality management system certificate and ISO 14001 Environmental Management System Certificate for the: "Design, manufacture, marketing and technical assistance of power generators, lighting towers, welding generators, tractor with PTO generator and hybrid generation systems."



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