



Power Solutions

PSO-IN-DO-US-11



Energy Solutions Provider

An energy solution

SDMO is renowned as one of the top manufacturers of generating sets worldwide. SDMO has channelled all its energy into designing a range which is both highly competitive and high-performance, the largest range available on the market. As a response to the increasingly precise nature of your energy requirements, which relate directly to the specific characteristics of your particular industry, SDMO is devoting the majority of its resources to the continuous improvement of its range and services.

The result of a strategy focussed on a single industry: a professional requirement which guarantees you a reliable source of energy, complying with the strictest of standards. The pioneering mindset of its teams, and the mastery and flexibility of its production methods mean that SDMO is constantly innovating. The proximity of its distribution network and the dynamism of its customer service policy enable SDMO to be a powerful force and provide the basis for the company's values.

SDMO, the source of energy for your comfort and safety. SDMO, providing energy to connect people.

whatever the energy required

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Whether you require emergency power to be able to cope with potential power cuts (e.g. hospitals, shopping centres) or continuous power when conventional electrical grids are faulty (power plants), SDMO will be able to offer you a large range of performance products which meet all the requirements of the market. This range comprises 3 main categories:

- **Standard products**
(Portable Power, Residential Power, Power Products and Rental Power)
- **Expertise and Services**
(Power Solutions, Training, Spare Parts, Technical Assistance)
- **Related products**
(Nexys, Telys, Kerys command/control units)



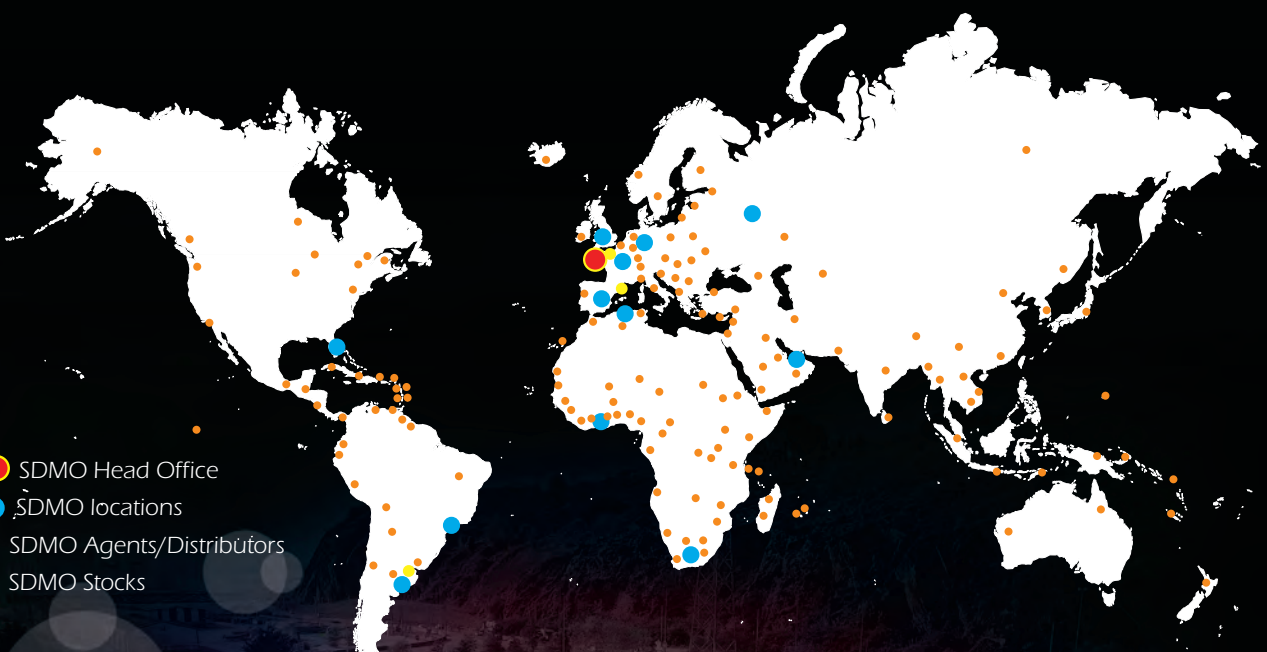
www.sdmo.com

National coverage, international presence, "think globally, act locally"

In order for SDMO to continue to grow and expand into new markets, it relies on:

- a distribution network present in over 150 countries,
- 8 overseas subsidiaries,
- 4 offices,
- 7 sales offices and 3 regional divisions in France.

The responsiveness of the company is based on its 5 storage platforms which, in co-operation with the subsidiaries, constitute an efficient means of operating. The links forged with the Kohler group have strengthened SDMO's standing amongst its customers through a strategy of synergistic installations.

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- SDMO Head Office
 - SDMO locations
 - SDMO Agents/Distributors
 - SDMO Stocks



Production logic for greater reactivity

The production units based in Brest are organised according to product lines relating to the product range offered, with a site specifically dedicated to the production of Power Solutions special applications.

A dedicated laboratory, 69 test platforms (from 40 to 4000 kVA) and a training academy complement the available equipment with perfect consistency.

SDMO strengthens its position as a reliable and responsive partner through an overall synergy between the industrial teams and sales and marketing departments: prescription, responsiveness, and presence in key markets.



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Power Solutions, proactive engineering for specific applications

From the simplest of installations to the most complex, with the Power Solutions range, the engineering department at SDMO will strive to accommodate all requests, regardless of energy requirements. The department's international experience coupled with its involvement in some of the most groundbreaking projects seen on the planet are proof of this.

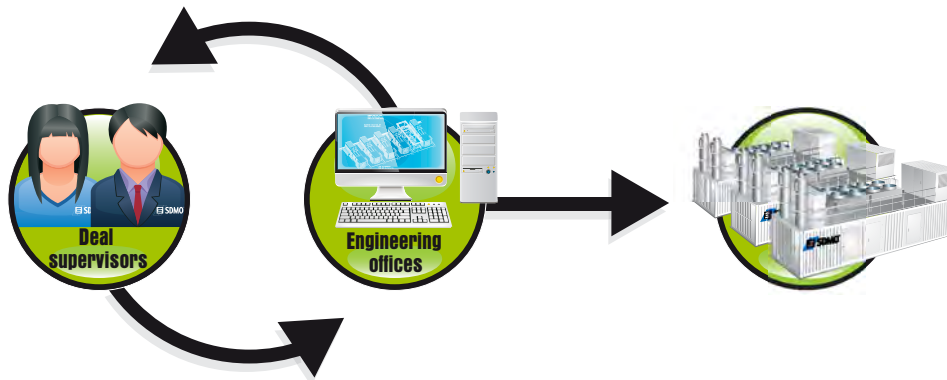
Engineering: a global process

- understanding
- analysing the exact requirements
- offering real solutions
- integrating innovative solutions
- designing complete programmes
- carrying out the installation
- following up with technical inspections and maintenance

Additional teams

The Engineering Department is made up of close to 100 engineers and technicians and assists you in the development of your project, both from a technical and sales point of view.

Its role is to study the particular needs and constraints of your requirement precisely and to offer you practical solutions using the most innovative technology.



The latest technologies at the early stages of research



SDMO knew how to innovate early on to optimise the development of its custom products and solutions. Our **3 specific engineering offices** (generating sets, electricity and automation, installations) rely on benchmark technologies for the design of generating sets and energy production plants, to guarantee their compliance with international standards and regulations: design with the help of 2D and 3D CAD tools, calculation of structures by completed elements, modal analysis of vibration frequencies, acoustic modelling, etc.

GENERATING SETS	ELECTRICITY AND AUTOMATION	INSTALLATIONS
A PROPOSED MISSION		
Respect the requirements in the specifications, the environmental and soundproofing constraints, etc.	Study and design the table for complex automation, regulation and power.	Carry out the implementation plans for the generating set.
AN ADAPTED RESPONSE		
Integration in specific containers, determining the sound intensity measurement of soundproof hoods, calculation of base frame structures.	Complete electrical calculations (short circuit current, sections of wiring with layout, auxiliary power balance, selectiveness in low voltage), studies and diagrams for HV.	Consideration of architectural and environmental constraints (climate, topography, etc.) for ideal integration of the equipment at the sites.

Power Solutions, people on your side



Factory/Installation Deal supervisor

Dedicated contact person for the client, from allocation of the file until operational handover of the power plant/generating set(s).

In cases where the installation is carried out by the client directly, SDMO offers supervision and advice, checks and commissioning starting.



Material Resources:

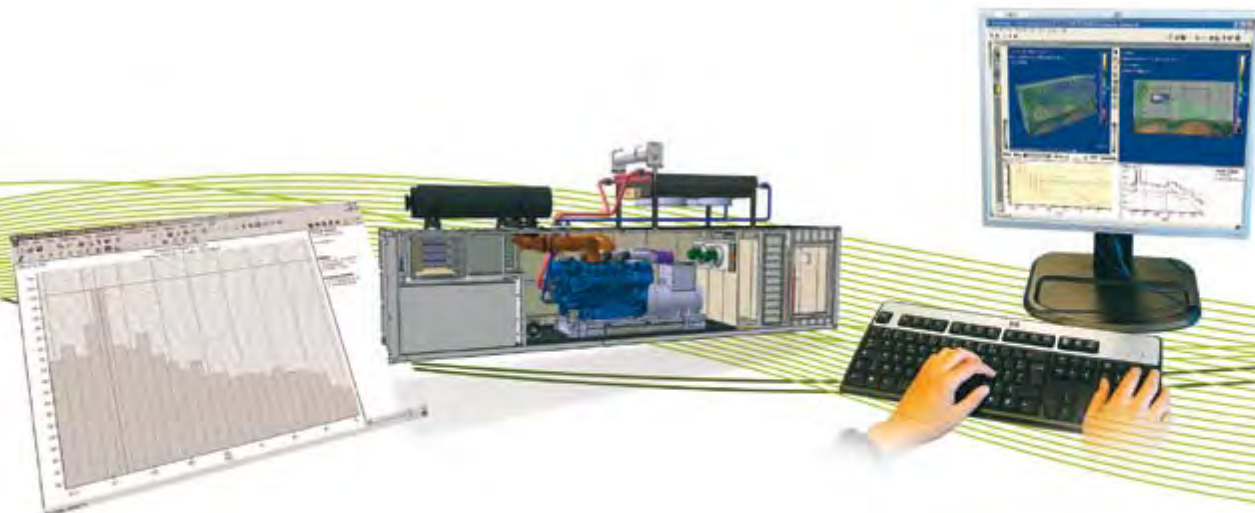
- Production area: 38,000 m²
- 69 test platforms: from 40 to 4,000 kVA
- Dedicated test laboratory: 2,400 m²
- Training academy for internal and external personnel
- Additional sound level testing area as per ISO standards

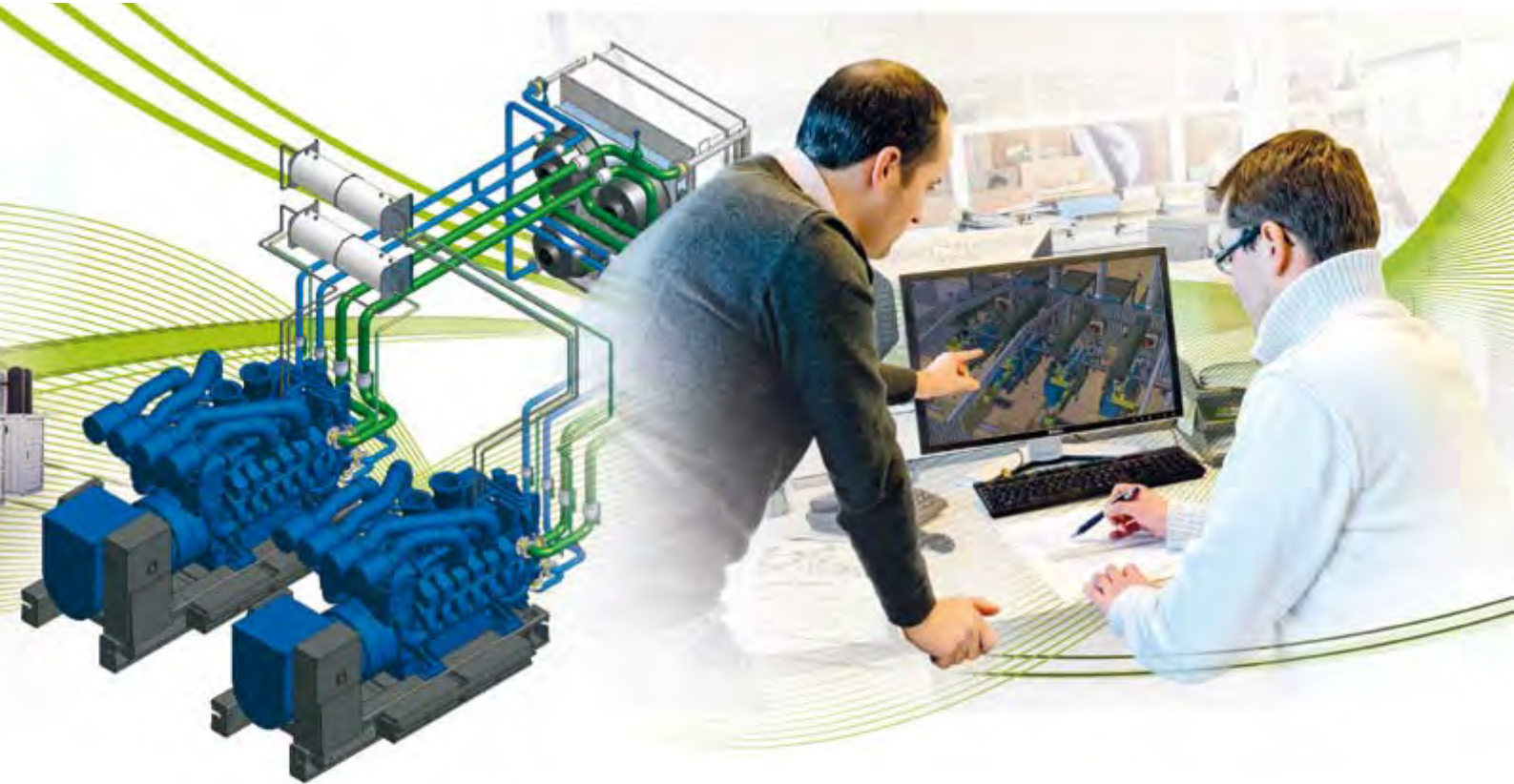
SDMO's test engineers use a state-of-the-art technique for analysing sound emissions - sound intensity measurement - which, used in conjunction with modal analysis for determining vibrational frequencies, enables them to carry out particularly delicate work in this sensitive field.

SDMO technicians have dedicated tools:

SDMO's expert technicians and engineers are trained to master the latest design and analysis tools. They have access to advanced 3D modelling software incorporating a very precise structural calculation module.

- generating set sizing software
- product recommendation programme
- training support
- encryption tool





Energies in synergy

Each project follows a proven process from the preliminary review, through to maintenance of the installation. A succession of previously-established steps, mastered by all our teams, offers all the guarantees for flawless efficiency.

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The 6 procedure steps for your project:

1. Preliminary review:

Consultation, analysis and management...

Defining the needs of the client or the engineering office representing them relies on the complementary expertise of the SDMO teams, as well as on their different engineering tools, such as the Sizing Program.

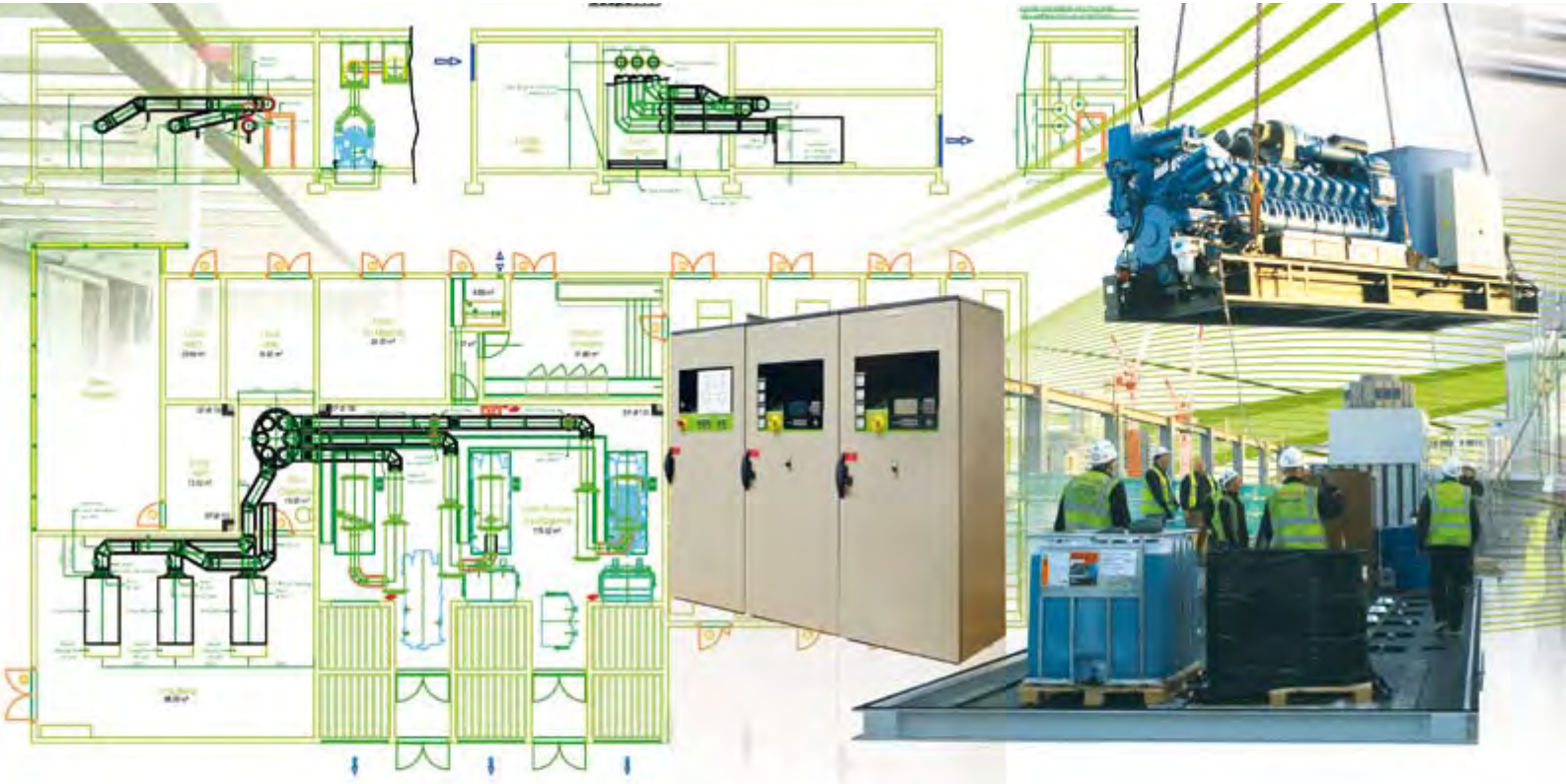
If necessary, a project plan as well as an initial study and calculation notes can be implemented and added to the specifications.

2. Order:

Feasibility, costing, proposal...

Once the best solution has been determined based on energy needs, technical constraints and the financial resources available, the project is transferred to the relevant SDMO departments. This handover is carried out using a complete file containing all the technical and contractual data.





3. Study:

Planning, calculation and projection...

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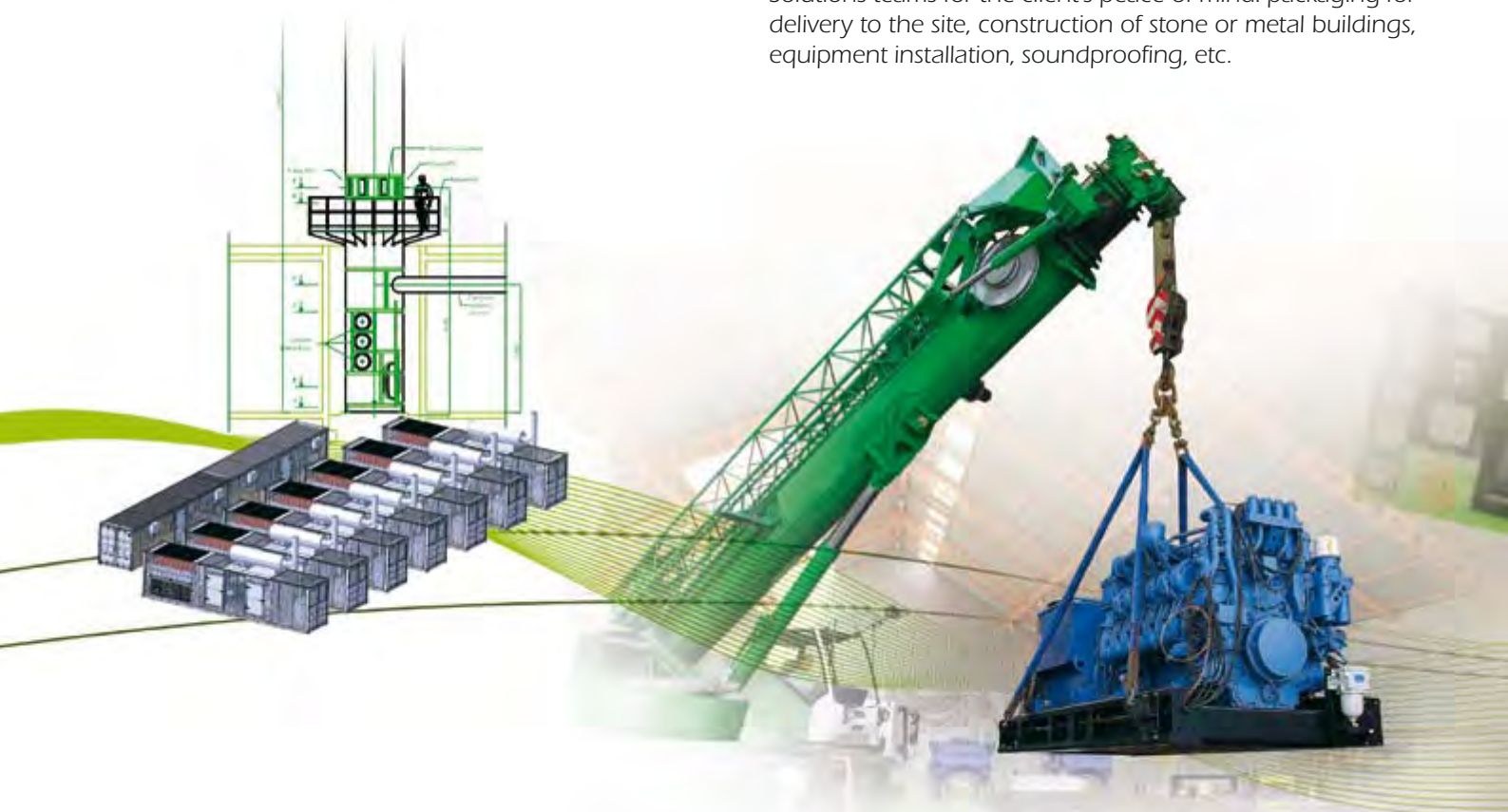
The client's designated SDMO contact person sets up the project. Plans, diagrams, calculations, schedule, technical documentation, etc. are all approved to provide as much clarity and transparency as possible.

4. Implementation:

Manufacturing, testing and delivery...

The manufacturing of generating sets, containers, and command and control panels is carried out in line with the order. Equipment testing on test benches guarantees its reliability.

Various additional services can be included by Power Solutions teams for the client's peace of mind: packaging for delivery to the site, construction of stone or metal buildings, equipment installation, soundproofing, etc.





5. Commissioning:

Startup, initial testing and adjustments...

During commissioning, an initial test is carried out in terms of the equipment unit's operation (mechanical and electrical) before on-load tests can guarantee completely safe operation.

Thanks to its cooperation with competent and responsive distributors and partners who are capable of providing this services on its behalf, SDMO resources are devoted to its customers all over the world.

6. Maintenance:

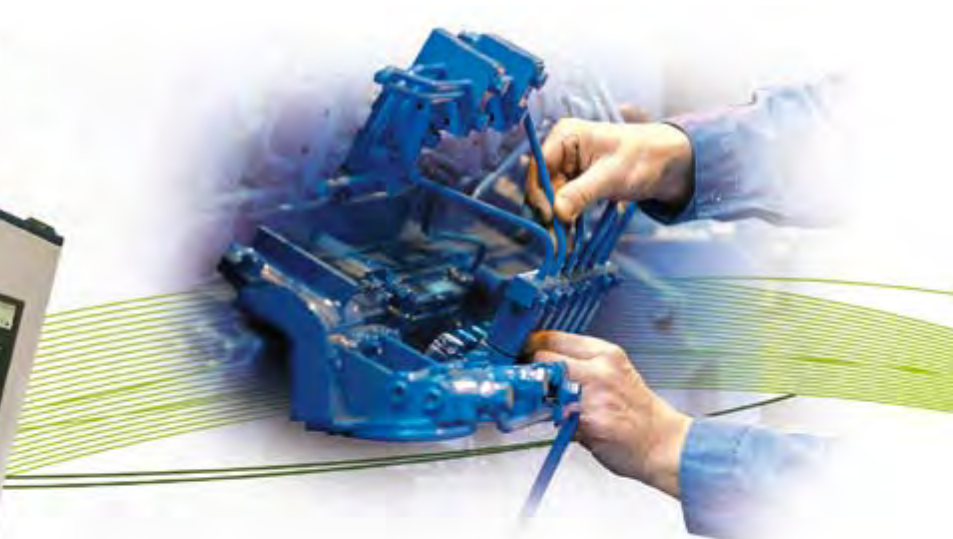
Assistance, training and monitoring...

With the support of a large network of approved agents, SDMO is able to guarantee all of its clients efficient and responsive technical assistance wherever they are in the world.

Command/control system, electrotechnical and mechanical innovations, every year the SDMO training unit shares its expertise on the subject of generating sets.

Guaranteeing the longevity of its installations throughout the world, the Spare Parts department responds to requests as quickly as possible, offering over 40,000 numbered parts, including GenParts (SDMO brand).

GenPARTS





Non-traditional applications

SDMO also offers solutions using non-traditional technologies:

- dynamic UPS
- slow motors
- gas/cogeneration

Applications anywhere...

Production plants installed in the middle of the desert, back-up generating sets in hospitals, military generating sets, etc.:

SDMO generating sets can be adapted to a host of applications, from the simplest to the most complex, while respecting the associated requirements (sound level, dimensions, environmental constraints, etc.).





...and for everyone

From generating sets of a few kVA to power plants of several megawatts, in France and anywhere in the world, whether in the public or private sector, SDMO partners with anyone who has a need for energy.

Renowned expertise in a number of fields

- Telecommunications
- Health
- Power plants
- Mining
- Banking and insurance
- Data centres
- Military generators
- Cogeneration
- Supermarket distribution
- Agri-food
- Building
- Hire equipment
- Transport
- Industry
- Prestigious sites, etc.



French Offices

WEST

SDMO BREST

TEL. 02 98 41 13 48 - FAX 02 98 41 13 57

CENTRAL WEST

SDMO CHOLET

TEL. 02 41 75 96 70 - FAX 02 41 75 96 71

PARIS/NORTHERN NORMANDY

SDMO GENNEVILLIERS

TEL. 01 41 88 38 00 - FAX 01 41 88 38 37

EAST

SDMO METZ

TEL. 03 87 37 88 50 - FAX 03 87 37 88 59

SOUTH EAST

SDMO VALENCE

TEL. 04 75 81 31 00 - FAX 04 75 81 31 10

SDMO AIX

TEL. 04 42 52 51 60 - FAX 04 42 52 51 61

SOUTH WEST

SDMO TOULOUSE

TEL. 05 61 24 75 75 - FAX 05 61 24 75 79

Subsidiaries

ARGENTINA

SDMO ARGENTINA S.A.

TEL. +54 11 48363511 - FAX +54 11 48363516

BELGIUM

SDMO NV/SA

TEL. +32 3 646 04 15 - FAX +32 3 646 06 25

BRAZIL

SDMO DO BRASIL

TEL. +55 (11) 43 908 434 - FAX +55 (11) 43 908 434

SPAIN

SDMO INDUSTRIES IBERICA

TEL. +34 902 30 56 56 - FAX +34 93 580 31 36

US

SDMO GENERATING SETS

TEL. +1 305 863 00 12 - FAX +1 305 863 97 81

UK

SDMO ENERGY LTD

TEL. +44(0) 1932 345 777 - FAX +44(0) 1932 350 033

NIGERIA

SDMO LAGOS

TEL +234 (0) 80 56 66 64 44 - FAX + 33 (0) 1 72 27 55 62

GERMANY

SDMO GMBH

TEL +49 (0) 6332 97 15 14 - FAX +49 (0) 6332 97 15 11

Offices

SOUTH AFRICA

SDMO JOHANNESBURG

TEL. +33 (0) 631 594 701 - FAX +33 (0) 172 276 151

ALGERIA

SDMO ALGER

TEL. +213 (0) 21 68 12 13 - FAX +213 (0) 21 68 14 14

DUBAI

SDMO MIDDLE EAST

TEL. + 971 43 357 910 - FAX +971 43 357 920

RUSSIA

SDMO MOSCOW

TEL. +7 926 838 05 34 - FAX +33 (0) 1 72 27 55 48



SDMO Industries - 12 bis rue de la villeneuve
CS 92 848 - 29 228 Brest Cedex 2 - France
Tél. +33 (0)2 98 41 41 41 - Fax +33 (0)2 98 41 63 07
www.sdmo.com



SDMO industries
Implantation en France