INDUSTRIAL INNOVATION & EXPERTISE

JEUMONT Electric

Altawest Group

A TRADITION OF TECHNOLOGICAL CREATIVITY

Jeumont Electric's dynamics: put expertise at the service of industrial innovation

Jeumont Electric together with its branch companies is a major equipment provider to the power generation and conversion market. It has been manufacturing electrical generators and motors for all types of applications for more than 100 years.
With over 650 employees, Jeumont Electric operates in Europe, in Asia, in the Middle East and in Latin America.

The company's size and sphere of competence along with its management and shareholder structure are unquestionable assets:

UNDISPUTED TECHNOLOGICAL EXPERTISE

Owing to its long-standing tradition of industrial expertise and innovation, Jeumont Electric occupies a special position in the French industrial market. Its very name is synonymous with the technology and creativity which enabled it to play a leading part in the Nuclear and Naval markets, for example. It has become a benchmark both for equipment manufacturing and services (maintenance and refurbishment of machines of all makes, sizes and power ratings.)

DIVERSITY TO GUARANTEE PERFORMANCE

Over the years Jeumont Electric has consistently sought to develop new markets, new equipment sizes, and new commercial and industrial locations worldwide.
With a pool of expert skills available in-house, the Group demonstrates the importance it accords to promoting a diversity of competencies and handing them on to future generations. It thus ensures the continuity and renewal of skills and knowledge by training junior employees over 3 to 5-year cycles and by recruiting men and women of different cultural backgrounds for its management, technical and R&D teams. Such diversity is a driver for improvement of the company's performance.

FLEXIBILITY IN MANAGEMENT AND BUSINESS

Jeumont Electric is a human-sized company with a strong corporate culture and true team spirit. It favours short and effective decision-making processes for the benefit of its customers.

CONSTANT COMMITMENT TO INNOVATION

Jeumont Electric has always stood out for its ability to innovate, whether in order to optimize existing plants or to prepare for the future. Each year about 3% of its sales are allocated to R&D and 4 to 5% to production equipment. To engineer the products of tomorrow, the company also relies on industrial and scientific partnerships with highly reputed electrical engineering universities.

PROVEN AND RELIABLE PRODUCTS

Jeumont Electric offers a complete range of synchronous and asynchronous electrical rotating machines and auxiliaries.

SYNCHRONOUS MACHINES

TECHNICAL DATA

> **Power rating:** from 4 to 80 MW for industrial generators or conditioned by the driving motor
> **Voltage:** up to 20 kV
> **Polarities :** from 2 to 14 poles for heat cycle sets.

GENERATORS:

Jeumont Electric offers a large range of generators, which can be driven by gas, steam turbines or by diesel engines. Jeumont Electric's products are reliable, robust and highly flexible in that they can be connected to all types of turbines available on the market.

MOTORS:

Jeumont Electric can provide its customers with the following:

TWO POLE MOTORS for variable speed driving (up to 8000 rpm) at powers from 4 to 40 MW,

MOTORS WITH FOUR POLES AND MORE for driving compressors,

SLOW SPEED MOTORS mainly for Marine applications,

PERMANENT MAGNET MOTORS that are space saving and offer higher performance along with acoustic discretion especially appropriate for Navy programs (propulsion of FREMM frigates and submarines).

1898

A Belgian engineer, Julien Dulait, sets up a small electrical construction workshop in Jeumont. It soon begins to manufacture traction motors for tramways and metros.

1914

Over 200,000HP worth of traction motors produced since it was set up.

ASYNCHRONOUS MACHINES

TECHNICAL DATA

> **Power rating:**
from 0,5 to 25 MW
> **Axis height:**
from 355 to 1120 mm
> **Voltage:** from 3 to 15 KV
> **Polarities :** from 2 to 28 poles
> **Construction:**
horizontal or vertical

Jeumont Electric is globally recognized for the reliability of its equipment used in particularly demanding industrial drive applications (compressors, fans, pumps, etc.) and Power Generation applications. Jeumont Electric is the reference manufacturer for all the motors used in primary motor pump sets (RCP) for nuclear power plants in France and abroad.

Jeumont Electric's squirrel cage asynchronous machines stand out for their:
COMPETITIVENESS,
MODULAR DESIGN THROUGHOUT THE RANGE,
ROBUST, RELIABLE AND SIMPLE DESIGN,
ENERGY EFFICIENCY.

Jeumont Electric also supplies cement plants with slip-ring motors from 1 MW.

HYDRAULIC GENERATORS

Jeumont Electric has over 100 years' experience in the field of hydraulic generators up to 350 MVA driven by all types of turbines, and controls 50% of the market for hydraulic generators installed in France.
Jeumont Electric's range of hydraulic generators covers power ratings from 5 to 150 MVA with horizontal or vertical construction and 4 to 100 poles. Jeumont Electric also offers induction generators for powers up to 500 kVA.
Jeumont Electric's hydraulic generators meet all plant configurations. Cooling by even radial internal ventilation provides low thermal and mechanical stress, and thus enables extended equipment life.

To complete its range of hydraulic generators Jeumont Electric has developed excitation, voltage control, electronic protection and synchronization systems as well as monitoring control devices.

Jeumont Electric provides services and maintenance work throughout the equipment's lifetime, from commissioning up to refurbishment or revamping.

1926

Patent filed for the J-H (Jeumont-Heidmann) system.
This is cam-operated switching equipment with electrical servo-control for the control and braking of electrical traction motors.Jeumont's key products feature the AC commutator or "Latour" motor as it is known, the mercury vapor rectifier and the J-H system.

1939

Jeumont manufactures 20% of all French large electrical equipment.

CONVERTERS

Jeumont Electric designs and manufactures several complete ranges of frequency drives for synchronous and asynchronous machines:

LOW VOLTAGE FROM 1 TO 3 MW, used in particular in "direct drive" for wind turbine applications,

MEDIUM VOLTAGE FROM 3.3 TO 11 KV, PWM IGBT DFE or AFE, 3 & 5 levels for all types of applications,

SPECIFIC TO MARINE APPLICATIONS FROM 1 TO 10 MW, including military solutions for multi-phase magnet synchronous machines.

For these drives, Jeumont Electric has developed monitoring control systems based as far as possible on standard and "open source" solutions to facilitate long-term maintainability, using the most effective hardware solutions to enable the implementation of fully optimized control algorithms.

These latest generation systems offer enhanced output and are suited to all types of converters (LCI, cycloconverter, PWM, etc.) They are recommended both for retrofits and performance optimization for already existing plants.
The systems proposed by Jeumont Electric have successfully passed all the tests (EMC, heat, humidity, etc.) that guarantee their proper operation in the most demanding of environments.

EXCITATION SYSTEMS

Jeumont Electric supplies a complete range of excitation systems (AVR), for synchronous machines of all makes. This includes standardized products, such as GLOBALTA, for simple applications like diesel gen-sets or HYDRALTA, dedicated to hydro-power plants. Jeumont Electric also offers high power and high performance excitation solutions, static excitation systems with virtually no current limits and references above 2500 A, redundant systems with remote-diagnosis and 24/7 support.

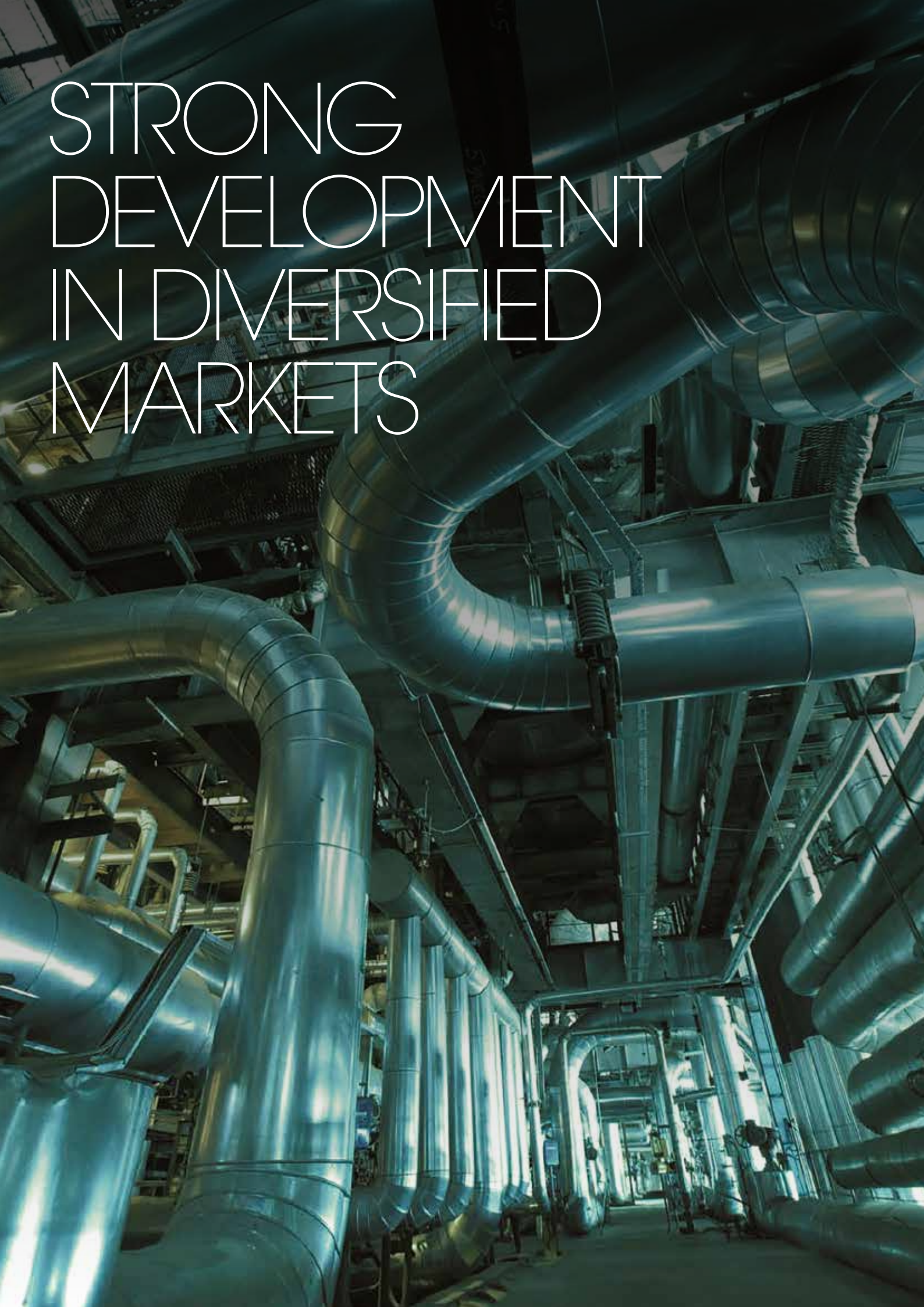
1952

First order for a Marine application including five 1,600 HP diesel-electric powered propulsion motors.

1958

Marine application order for propulsion equipment designed for six Daphne type two-shaftline submarines.

STRONG DEVELOPMENT IN DIVERSIFIED MARKETS



Jeumont Electric operates on a number of markets in which its products enjoy an undisputed reputation.

OIL & GAS

Jeumont Electric controls all aspects of the Oil & Gas market, from the prospection and production of oil and gas to its refining and transformation.

Its offer of fixed or variable speed synchronous and asynchronous machines covers all production and compression applications as well as power generation equipment on rigs, especially offshore.

Within an environment where the technical specifications are increasingly complex, Jeumont Electric has widely acknowledged references. Its teams demonstrate their proactivity and expertise throughout their projects, from the design and engineering stage to technical assistance.

REFERENCE: ZIRKU POWER PLANT UPGRADE

Zakum Development Company (ZADCO) is an oil company located in Abu Dhabi. Among other things, it operates a large industrial process plant on Zirku Island, 140 kms northwest of Abu Dhabi. The 125 MW installed base originally included Alstom machines, turbines and generators.

Jeumont Electric, recognized for its professional equipment design and services as well as for its references, was chosen in 2013 to replace both the five turbo-generators (25 MW, 11 kV, 3000 rpm, two-pole and water cooled) and the excitation systems. These machines will be installed within a highly corrosive offshore environment subjected to temperatures of 55°C. The whole project is being managed by Jeumont Electric on a turnkey basis, from the supply of the equipment to its installation and commissioning.

1961

Using Westinghouse technology Jeumont builds a 750cu.m/h prototype primary motor pump set (RCP) for the Chooz A power station in Belgium and thus becomes a player in the French nuclear program. Start-up of the biggest hydroelectric plant in la Bâthie France totaling 528 MW.

1964

Merger with Schneider to form Jeumont Schneider.
The equipment manufacturing plant, built by Schneider in Champagne-sur-Seine between 1901 and 1903, becomes part of the Group and works under a Westinghouse license.

MARINE

Jeumont Electric is a frontline player offering considerable technical capabilities in the field of on-board electrical equipment used in Naval and Merchant Marine applications:

POWER GENERATION AND DISTRIBUTION EQUIPMENT,
MAIN AND AUXILIARY PROPULSION,
AUXILIARY POWER UNITS.

Jeumont Electric has built its reputation in the Naval market thanks to its customized engineering studies and developments. The technologies used in Jeumont Electric's permanent magnet machines are a reference in terms of equipment compactness, stringent acoustic discretion, very low vibration levels, equipment reliability and availability. For all the above reasons, it has been selected to supply many naval programs both in France and abroad (Australia, Brazil, Canada, Chile, India, Italy, Malaysia, Morocco, Pakistan and Sweden). Jeumont Electric can also adapt its offering to the Merchant Marine market (cruise liners, tankers, LNG tankers…)
Jeumont Electric provides a wide range of services, including technical assistance (Integrated Logistics Support – ILS) for the three components of its offering (mechanical, electrical and power electronics) and long-term support for machines over 30 years old.

REFERENCE: THE FREMM FRIGATES

The multi-mission frigates (FREMM) program launched at the end of 2005 concerns the renewal of the French Navy's land-attack and anti-submarine warfare frigates. The program includes eight ships ordered from DCNS, the first of which, FREMM Aquitaine, was delivered in November 2012.

Each frigate is equipped with a hybrid diesel-electric propulsion system. Jeumont Electric was appointed to manufacture the electric drives (motors and drives.) It worked on the basis of submarine technology to ensure the silent propulsion of the FREMM frigates necessary for anti-submarine warfare operations.

1966

Jeumont Schneider builds the first 600 MW turbo-generator for the Porcheville power station. This breakthrough positions Jeumont as a leader in the field of turbo generators in France.

1968

Start-up of La Rance tidal power plant, the largest in Europe and a technological challenge in motor cooling for Jeumont.
For Marine applications Jeumont engineers water-cooled motors used on Agosta class submarines, the first of which were commissioned in 1978. This is a decisive step forwards in terms of compact design and acoustic discretion.

NUCLEAR

The expertise acquired by Jeumont Electric over the last 40 years in the field of electrical rotating machines for electrical power plant auxiliaries led EDF (Electricité de France) as of 1975 to choose the company as the pilot manufacturer for all French programs for 900, 1300 & 1400 MW nuclear power plants.
Jeumont Electric designed and manufactured for these power plants:

STANDBY AND EMERGENCY GENERATORS (SAFEGUARD),

SAFEGUARD AND PRODUCTION ASYNCHRONOUS MOTORS,
K1, K3 & NC categories,

SPECIAL SAFEGUARD AND PRODUCTION SETS.

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Further to the tests and checks carried out at each manufacturing step, Jeumont Electric was awarded the "Q1" label, which corresponds to the highest quality assurance level.
All items of equipment have been engineered and qualified to operate for at least 40 years. They meet the rules for the design and construction of electrical equipment (RCCE) designed to be installed in nuclear power plants.
As a result of this experience Jeumont Electric has extended its activities to most of the countries equipped with nuclear power plants (Belgium, Korea, China, South Africa, Spain, USA, Finland, India) while meeting the applicable quality standards (IEEE, KTA).

REFERENCE:
THE O'CONEE NUCLEAR POWER PLANT (USA)

The O'Conee nuclear plant on Keowee Lake, South Carolina, is operated by Duke Power Energy. It houses three PWR reactors (Pressurized Water Reactors) built by Babcock & Wilcox and commissioned between July 1973 and 1974. O'Conee is one of the largest American power stations with 2600MWe total capacity (three units.) This is the first US power plant to have supplied more than 500 MWh of electricity since it was commissioned.

Within the framework of the nuclear plant life extension program, O'Conee is the second US power plant (out of 102 units) which was authorized by NRC to operate for another 20 years.

In this context and after demonstrating its manufacturing capabilities for all (212) French motor pump sets (GMPP/RCP) in partnership with Framatome/Areva, Jeumont Electric supplied O'Conee with 13 replacement stators for these motors (originally built by Westinghouse.) This brings the total number of replacement stators delivered throughout the world to 60 (Switzerland (1), USA (46), Korea (6), and Spain (7)). The "reverse engineering" studies carried out show Jeumont Electric's capability to rebuild machines of all sizes and makes.

1970

The Jeumont Schneider factory receives over half of its orders from abroad.

1972 - 1980

Jeumont builds the main propulsion system and auxiliary equipment for nuclear attack submarines (SNA).

HYDROELECTRIC ENERGY

The equipment of each hydroelectric plant must be specifically engineered to match the waterfall and site configuration. The hydro-generators manufactured thus have different technical characteristics. Moreover, mechanical assembly and transport issues must be carefully considered. Finally, this optimized power generation method depends on the turbine/generator unit which, owing to its efficiency and reliability, is a key component of the economic aspects of the system.
Jeumont Electric has long-standing expertise in the hydroelectric field, both in new and retrofit installations, and thus can rapidly propose the optimum technical and economical solution.

REFERENCE:
CHEVES POWER PLANT FOR SN POWER

SN Power chose Jeumont Electric for the manufacture of two 104 MVA vertical axis machines designed for the Cheves hydroelectric power plant located on the Rio Huata, north of Lima in Peru.
At the design stage, Jeumont Electric produced a small-scale prototype machine to optimize cooling and ventilation losses, both of which are critical for guaranteeing the expected output within the limits of temperature rise criteria.
The Cheves power plant features an installed capacity of 168 MW and an annual production of 838 GWh.

POWER GENERATION

Jeumont Electric also offers machines and services for electrical power generation units, whether diesel-electric, industrial heating or wind turbine plants.

1982

In the Nuclear domain, Jeumont Schneider, in partnership with EDF, becomes the first European manufacturer to be K1 rated (the highest safety label) for its safeguard motors installed in every French nuclear power plant.

PROCESS INDUSTRY

Jeumont Electric is specialized in high power electrical machines such as blast furnace blowers and rolling mill drives for the steel industry, crusher drives for cement plants as well as more specific machines for test benches and power conversion applications (50-60Hz).

SERVICES

Jeumont Electric's service offering stands out for its excellence in all markets worldwide. Jeumont Electric's staff are available 24/7, and are backed by engineering and operations teams to specifically meet each type of operating requirements.
They operate on all types of electrical rotating machines from 200 kW to 1450 kW, irrespective of the original manufacturer.
Jeumont Electric's service missions include:

PREVENTIVE MAINTENANCE:
type 1, 2 or 3 inspections, electrical and mechanical checks, vibration signatures and measurements, etc

CORRECTIVE MAINTENANCE:
stator and rotor rewinding, bar changing,etc.

SUCH DIVERSE OPERATIONS as rewinding, installation of machines, technical support training and connection to the grid.

Jeumont Electric's expert knowledge enables the management of all components of equipment revamping projects on a turnkey basis, from the technical specification up to commissioning.
Familiar with most technologies available in Europe and worldwide, Jeumont Electric is a frontline player in terms of "reverse engineering" based reconstruction, which can enable machine efficiency to be optimized while limiting impacts on the rest of the plant.

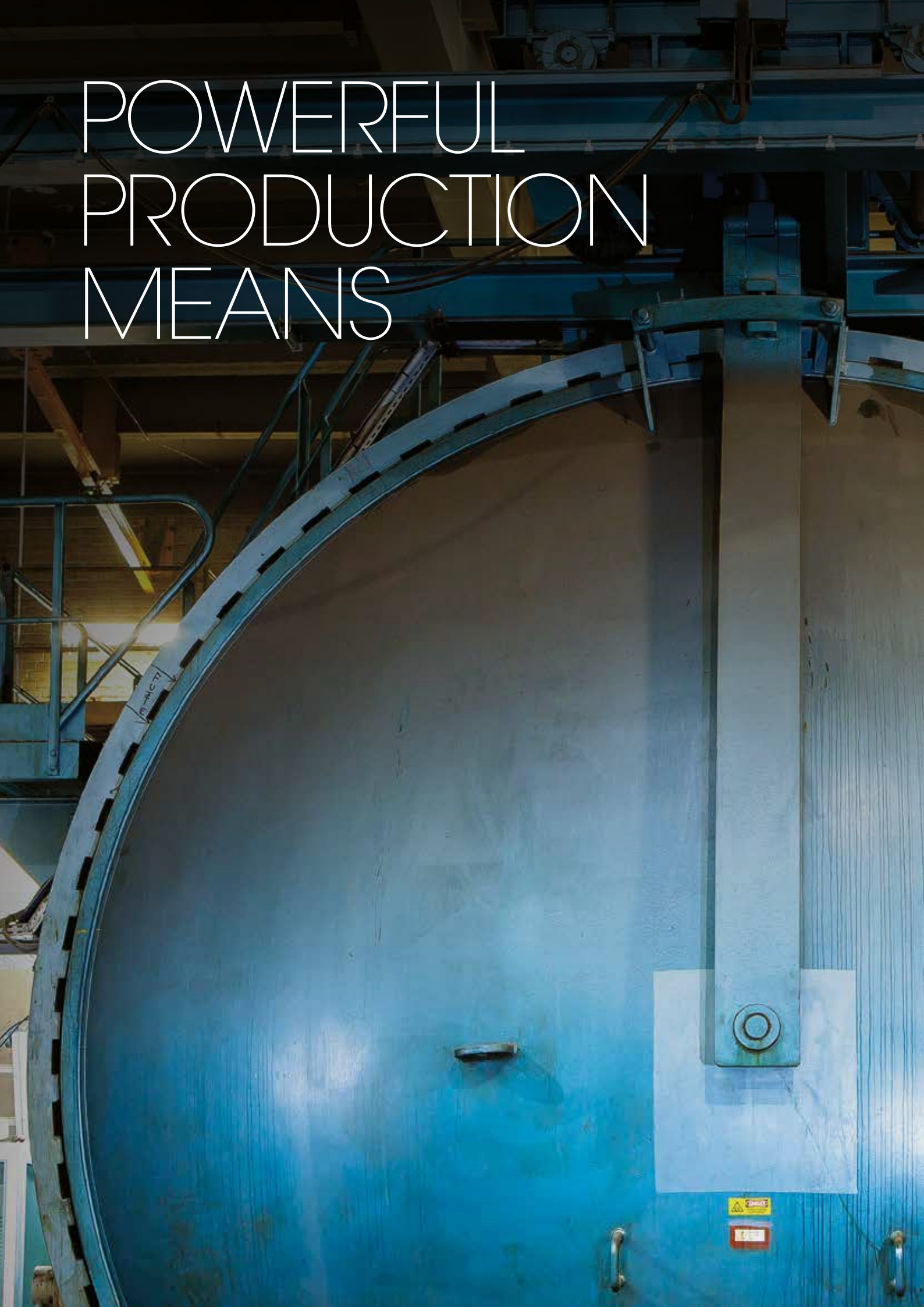
REFERENCE:
EDF 900, 1300 AND 1450 MW TURBO GENERATORS

For more than ten years Jeumont Electric has been carrying out major maintenance operations on all turbo-generators of the 58 units of EDF nuclear power plants. Within the framework of this project, Jeumont Electric changes over stators and rotors on site within optimum time periods. It then performs the rewinding in its workshops of ten 900 MW rotors, which will thereafter be installed and restarted on site.
The upgrading of the voltage control systems, a strategic part of European power grid quality, is another speciality of Jeumont Electric, which was awarded an order for ten complete units currently being installed at the sites of Fessenheim, Tricastin and Dampierre in France. Jeumont Electric is thus very actively involved in the maintenance of all French nuclear power plants to keep them in perfect operating condition.

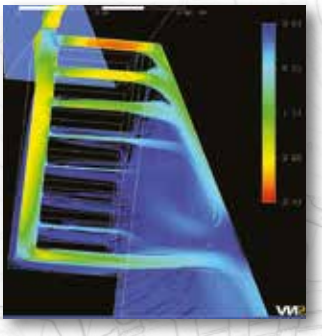
1982 -1992
Partnership between Alstom and Jeumont for hydraulic generators.

1993
Sale and takeover by Areva Framatome.

POWERFUL PRODUCTION MEANS



ENGINEERING DESIGN DEPARTMENT



Technology plays a fundamental role in each of Jeumont Electric's projects. Preliminary design and analyses are therefore crucial to studying the customers' needs and adapting equipment performance to the specific features of each plant. The engineering department, comprising 50% technical specialists, relies on the expertise of its teams, internal and external CAD resources, which have been qualified and proven through model testing. This department has four centers of expertise: electrical, mechanical (thermal, ventilation), control (protections) and services (maintenance support.) The department can ensure the design of brand-new machines, maintenance and the optimizing or preparation of retrofit operations.

MANUFACTURING MEANS AND SITES

Depending on their size or power rating, Jeumont Electric's machines are entirely built on the Group's various manufacturing sites (Jeumont, Champagne-sur-Seine and Nantes in France, and Vadodara in India.) The modern and efficient workshops are capable of all operations for the manufacturing, maintenance and retrofitting of electrical machines: metal work, winding, impregnation, welding, machining, handling, checking and testing.

Before being delivered to the customer, each brand-new or retrofitted machine must pass a series of tests in accordance with IEC or IEEE standards. The propulsion drive system is subjected to back-to-back tests in order to validate the overall operation, as well as structure-borne noise and vibration and acoustic measurements.

ALKOPHOS: HIGH-RELIABILITY ISOLATION

Jeumont Electric has developed an insulation process for the stator and rotor laminations based on a chemical reaction, called Alkophos.

It provides higher electrical insulation in comparison to conventional insulation varnish, and guarantees excellent heat resistance up to over 500°C. This improves machine service life, which is particularly important in case of high temperatures, chemical aggression or radiation. This process is especially recommended for applications that require higher reliability such as hydraulic generators, nuclear, oil & gas or marine plants.

1998

The Chilean Navy orders propulsion systems for Scorpene O'Higgins Class submarines from Jeumont.

2002

Development of the servicing activity designed for the turbo-generators of nuclear power plants.

JEUMONT ELECTRIC'S MANUFACTURING SITES

JEUMONT

> 66000sq.m. workshops and offices
> Access by road, waterway (up to 250 tons) and rail (up to 375 tons)
> 5.4m dia. Mirabelle impregnation tank
> 55 overhead bridge cranes, hoisting capacity up to 400 tons
> 4 testing platforms
> 4 balancing stands, including a pit suitable for rotors up to 3600 rpm, 20 m and 240 tons
> Clean pressurized area for the winding of turbo generator rotors

CHAMPAGNE SUR SEINE

> 17000sq.m. workshops
> Road access
> 25 overhead bridge cranes with hoisting capacity up to 32 tons
> 2.5m dia. impregnation tank
> 4 testing benches for synchronous and asynchronous machines
> 2 balancing platforms

NANTES
(JEUMONT ELECTRIC MAINTENANCE – JEM)

> 12000sq.m. workshops
> Hoisting capacity of 40,15 and 10 tons
> 8 impregnation tanks
> 2 balancing stands
> 3 testing platforms

VADODARA

> 11000sq.m. workshops
> Motorway access
> Hoisting capacity up to 50 tons
> 3.5m dia. impregnation tank
> 3 testing platforms, including one for on-load tests up to 2.5 MW

ETUPES

Development and industrialization center for medium voltage drive systems

CONSTANT COMMITMENT TO SAFETY

As a responsible and committed player, Jeumont Electric gives prime importance to health & safety, quality and protection of the environment, including the sorting of waste and materials recycling.
The company has been certified in accordance with international standards, i.e. ISO 140001 for the environment, ISO 9001 for quality, and OHSAS 18001 for health & safety.
An all-employee action plan has been deployed to enable everyone to play an active part in the assessment, prevention and reduction of risks. It combines both theoretical and practical awareness, interactive communication and training, monitoring of thematic indicators and practical exercises in crisis or emergency situations.

2006

Start of the framework contract for the rewinding of 900 MW rotors. Order for the propulsion system of FREMM frigates.

2007

Jeumont's electro-mechanical activity is taken over by the Altawest Group and is renamed Jeumont Electric.

FUTURE CHALLENGES

GEOGRAPHICAL DIVERSIFICATION

Jeumont Electric's strategy involves the expansion of its commercial actions and production facilities, particularly in emerging countries. Over the past few years, Jeumont Electric has strengthened its sales network outside Europe, with sales agents in all countries and representation offices in the Emirates, in Brazil and in India.
The new manufacturing plant opened in Vadodara, Gujarat, India enables the Group to consolidate its position on the vast Indian, Asian and Middle Eastern markets. Jeumont Electric knows how important it is to maintain close relations with its customers and be able to provide local support for their international development.

REAFFIRMED PRIORITY GIVEN TO R&D

With an average budget amounting to over 3% sales for the self-financed part, R&D remains the cornerstone of Jeumont Electric's strategy. Among its priorities, Jeumont Electric aims at optimizing the performance of existing machines by defining and validating the technological options selected for the development of its future machines.

In this context, Jeumont Electric places the emphasis on improving machine cooling and on new topologies of smart rotating machines. The company is regularly involved in large public calls for tenders, like the one launched by the ADEME in 2012 within the framework of the call for expression of interest (AMI) regarding a large wind turbine project, which resulted in the JEOLIS project (development of an innovating wind generator and its power electronics) considered to be of national interest. Jeumont Electric also works closely with the Medee technical hub and has put in place scientific partnerships with universities and research laboratories (Lille, Valenciennes, and Nancy), for instance for work on superconducting coils cooled at –240°C. At this stage, the aim is the technical or economical optimization of the product through various simulations and models, testing the manufacturing processes and the electrical and mechanical characteristics etc.

2011

Jeumont Electric supplies two 104 MVA vertical machines for a hydroelectric power plant in Cheves, Peru, thus re-entering the hydropower market abroad.

2013

Jeumont regains its foothold in the Oil & Gas market with the first project for new machines in the Middle East to replace five 25 MW generators on Zirku Island (turnkey project.)

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