

ENGIE Axima, your key partner for engineering, procurement, construction and operation maintenance of your nuclear HVAC projects.

Engineering

- Design of HVAC & air treatment systems, of process fluids, process vacuum, and cooling systems, including the preparation of the technical specifications for the equipment and general documentation.
- 3D CAD model used for our design and implementation studies, including manufacturing and construction drawings for ductwork with associated supports.
- Compliance with regulations regarding design and management of the construction project.
- All types of calculations and simulations: air flow (CFD), hydraulic, thermal and seismic.

Procurement

- Qualification of the equipment (either by analysis or testing).
- Long-term partnership with reputable suppliers for the procurement of all equipment according to technical requirements and required quality.
- Inspection of the equipment and monitoring of deliveries in order to guarantee the completion of the project within the agreed deadlines.
- Logistics management at an international level for the delivery of components and equipment to the site.
- Material tracking management with 4D and 5D analysis.

Construction

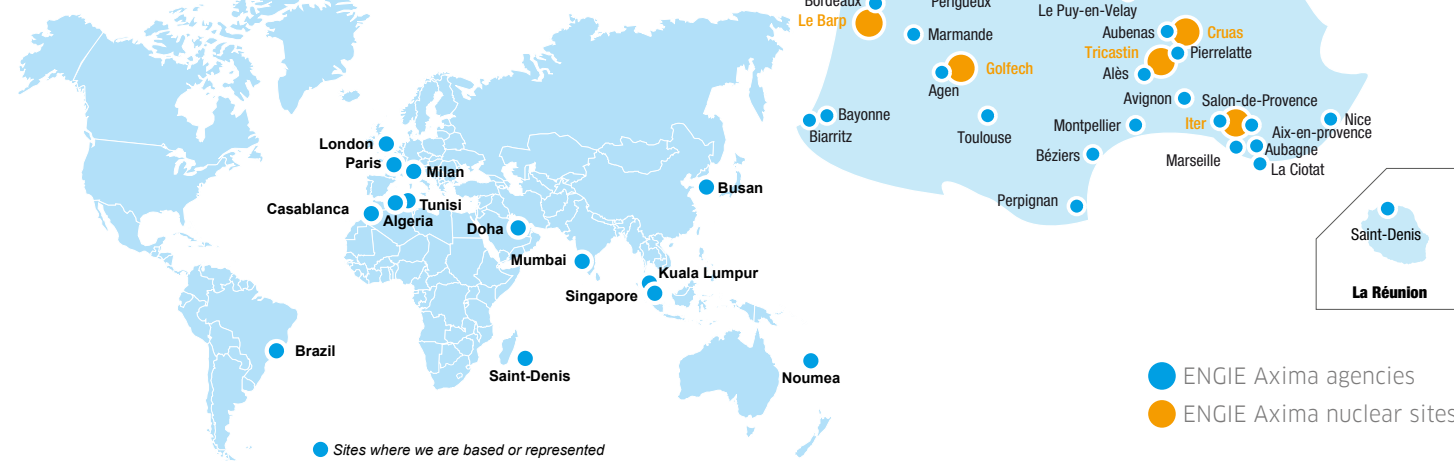
- Installation of HVAC systems in coordination with other work packages.
- Testing, commissioning, acceptance, operation and maintenance.
- Guaranteeing that the facility will be completed within the agreed deadlines, in accordance with the allocated budget and with the specifications.



ENGIE Axima your local partner

With a network of **140** offices in France

7 500 employees at your service



A few references

ENGIE Axima is the commercial branding of the AXIMA Concept company.

- CEA (Atomic Energy Commission) / LMJ (works and maintenance)
- CEA / CADARACHE and RES (works)
- CEA / VALDUC (works & maintenance)
- CEA / CESTA (works & maintenance)
- EDF / Flamanville Pressurised Water Reactor
- EDF / French nuclear power stations: maintenance of nuclear HVAC systems
- EDF / French nuclear power stations: Upgrading nuclear HVAC systems to comply with new regulations on all operational french nuclear power stations
- EDF Energy / EPR Hinkley Point C
- F4E / ITER Organization
- AREVA / Nuclear power stations of Koeberg (RSA), Uijjin (South Korea), Daya Bay and Ling Ao (China)
- AREVA / Pressurised Water Reactors (studies) - Finland
- AREVA / Georges Besse II - La Hague
- DCNS / Charles de Gaulle aircraft carrier
- ANDRA (National Agency for management of radioactive waste)



ENGIE Axima

Nuclear HVAC
Choosing our technical expertise to control your process environments



Your highly secured facilities at the core of our business.

The HVAC and air treatment facilities implemented for nuclear projects are used to monitor the parameters required by the process and for employee operation: temperature, hygrometry, air change, filtration, dynamic confinement of the rooms, negative pressure gradients, fire protection zoning.

These HVAC, filtering, heating, cooling, fluid production and distribution systems must comply with specific requirements related to fire, irradiation, seismic and tornado hazards, in order to ensure appropriate operating conditions **guaranteeing optimal safety**, in accordance with applicable codes, standards and relevant specifications.

Innovation at ENGIE Axima

3D LASER SCANNING: a low-intrusion 3D modelling methodology adapted to complex and confined environments

How?

- Measurements of facilities using a 3D laser scanner.
- Generation of a point cloud to represent current conditions.
- CAD modelling (2D or 3D) of existing and futures facilities.
- Laser positioning of future facilities.

Where?

- In sensitive environments with restricted access, confined spaces and a high technical density.

Why?

- No interruption of work or production.
- Reduced need for site visits
- Reduced design time (intelligent CAD).
- Quick and easy installation (laser guiding).



3D Laser Scanning

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