Power Plant
Training & Simulation
Power Plant Training & Simulation
From full-scope training simulators to dedicated engineering solutions

Full-scope training simulators

Simulation is our area of expertise. With more than 45 years’ experience, we are specialists in providing training simulators for both thermal and nuclear power plants. Our control room replicas include both conventional control panels and touch screen HMIs.

Train for any scenario

Thales’ simulators replicate the behaviour of power plants accurately and dynamically. Operators can be trained to handle any situation, from normal operations to emergencies. Unlimited training sequences can be performed and replayed for educational purposes.

Full flexibility

Our soft panel simulators make it possible to create configurable control rooms, allowing you to focus on specific power plant subsystems via multi-functional screens.

High-level requirements

Operators can receive ab initio or recurrent training in compliance with national regulatory authorities.

Engineering simulators

Total design support

Our engineering simulators allow you to validate each step of power plant delivery, from initial design to full-load operation. They also enable you to prepare and validate design upgrades.

Our assets

• Customised solutions to meet customer requirements
• Integration of any type of physical and neutronic models
• Modular and adjustable solutions to interconnect new components if needed
• Preparation for future plant evolution
• Schedule, performance and quality guarantees
• Dependable through-life solutions for your plant

Our differentiators

Unique global expertise

Nuclear and thermal power plant simulators delivered in 14 countries worldwide.

Multi-project capacity

Thales can build multiple full-scope simulators simultaneously.

Proven solutions to support your success

AGLAé is Thales’ development and test software workshop dedicated to power plant modelling. More than 95% of our modelling software is automatically generated.

Our geographical coverage from National to International

Prime contractors for the development of 17 nuclear power plant full-scope training simulators in France.

Thales has already delivered around 80 systems worldwide, including 31 full-scope simulators for nuclear power plants.

For more detailed information, please contact us at sim.tts@thalesgroup.com • www.thalesgroup.com/en/activities/market-specific-solutions/training-simulation

NFS: Nuclear Full-scope Simulator
NES: Nuclear Engineering Simulator
NPTS: Nuclear Part Task Simulator
TFS: Thermal Full-scope Simulator
TGS: Thermal Generic Simulator

Europe

France
20 NES
33 NFS
Italy
3 NES
1 NFS
Germany
4 NES
Netherlands
1 NFS

Belgium
3 NES
1 NFS

North America

Canada
1 TFS

Middle East

United Arab Emirates
1 TGS

South America

Zimbabwe
1 TFS

Asia-Pacific

China
1 NFS
Indonesia
2 TFS
Australia
1 TFS
South Korea
1 NFS

Africa

Egypt
1 TGS
South Africa
1 NFS

Zimbabwe
1 TFS