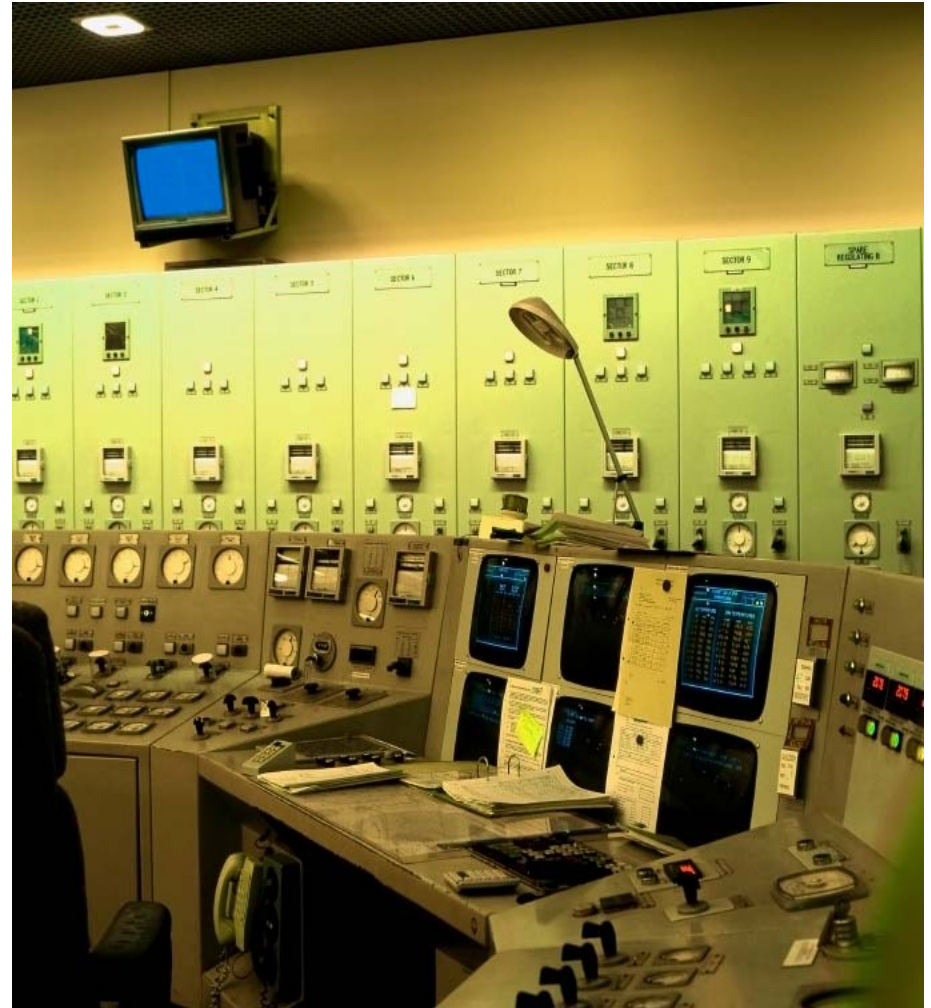


Systems - Nuclear

General Overview



Working with Systems

Over the past 30 years, Grontmij has developed a market leading Systems business providing a broad range of engineering & technology based services centred on real time asset management, automation & control, renewable energy & energy efficiency.

Energy: Thinking generates power



ENERGY

- ENERGY MANAGEMENT
- CONVENTIONAL POWER PLANTS (FOSSIL)
- ENERGY STORAGE
- RENEWABLE ENERGY
- ENERGY TRANSMISSION & DISTRIBUTION
- NUCLEAR POWER PLANTS
- ENERGY CONSUMPTION



Energy is the source of prosperity in our society.

That is why energy plays a major role in all of our projects in the industry, public buildings, housing and horticulture sectors.

Nuclear

Grontmij's nuclear capability:

Across Europe in the Grontmij Group, we have extensive knowledge and experience within the nuclear industry throughout the whole life cycle.

We offer services across nuclear power process and systems, drawing from a network of competencies including; radiation physics, radiology biology, chemistry, environment, dosimetry, radiation detection & measurement, radiological protection, material & safety technology, structural mechanics, electrical & automation engineering.



Nuclear Expertise & Capabilities

Nuclear Systems offer a range of services in the following areas:

- Project management
- Engineering validation / value engineering
- Asset management
- Risk assessment
- Contaminated land and remediation
- HAZID, HAZOP & HAZAN analysis
- Safety case (production, peer review, assessment & verification)
- Radiological Dose Assessments
- Frequency Assessments



Nuclear Expertise & Capabilities

- Radiological Protection Advice
- Nuclear safety integrity and assessment
- Review and assessment of safety-related systems
- Control and instrumentation
- Feasibility studies
- Nuclear decommissioning
- Waste management
- Mechanical handling and engineering



Nuclear Expertise & Capabilities

- Management and administration of multi-disciplinary engineering projects
- Fire risk analysis
- Integrated pollution prevention and control
- Environmental management systems
- Environmental impact assessments
- Environmental planning
- Soil engineering
- ICA/SCADA/Telemetry



Projects

Wide range of high Profile Nuclear Projects across Europe

- Expertise & analysis applied in high profile nuclear projects. High level consultancy services have enabled our clients to understand and meet the necessary legislative and regulatory requirements
- Extensive experience in engineering & design substantiation with expertise covering both operational and decommissioning phases of plant life. We have a demonstrable track record of providing engineering validation, working on a number of diverse projects.
- Our services have enabled our clients to direct a focused & safe approach when developing designs & operational activities.



Project Examples



Ignalina Nuclear Power Plant -
Decontaminating and dismantling of
redundant equipment within Unit 1
Turbine Hall.



Rectification of
an isotope
storage



Shield door Interlock
integrity



Engineering substantiation



Programmable electronic systems

Clients Worldwide...

We have an extensive range of nuclear clients worldwide including:

- Scott Wilson
- GE
- RSRL
- UKAEA Ltd.
- MOD
- Imperial College
- SKB
- SSM
- TACIS
- NDA
- Gravatom
- E.ON Kärnkraft
- Barsebäck Kraft AB
- Chernobyl NPP
- OKG NPP



GE imagination at work



UKAEA