



AFRY in Nuclear

GRENLANDSSAMARBEIDET IPR – VISIT TO RINGHALS/VARBERG 2025-08-13

Our history is unique and something to be proud of



1895

The steam boiler association is founded by owners of steam boilers and pressure vessels to prevent accidents



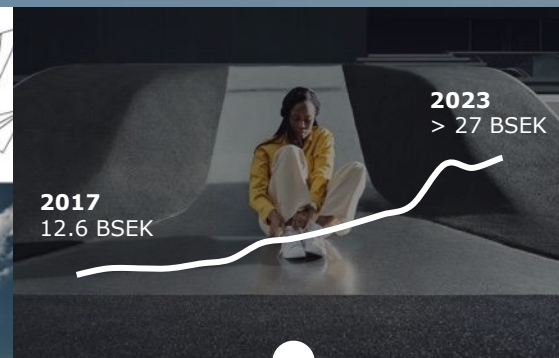
1958

Jaakko Pöyry starts his business with the roots in Finnish forest industries



2019

ÅF and Pöyry join forces, creating a leading company within engineering, design and advisory services



Today

Pioneers of technology and leading partner in the sustainability transition

AFRY AS A WHOLE

AFRY is a global engineering, design, and advisory company supporting clients via three divisions

AFRY AT GLANCE

EMPLOYEES GLOBALLY

18,000

NET SALES

EUR 2,4 bn
(in 2024)

NUMBER OF COUNTRIES
WITH OFFICES

> 40

NUMBER OF COUNTRIES
WITH PROJECTS

> 100

OUR OFFERING

ENERGY



- Nuclear
- Transmission & Distribution
- Renewables & Energy Storage
- Thermal
- Hydro
- Management Consulting

INDUSTRY



- Pulp & paper
- Mining & Metals
- Biorefining & Chemicals
- Food
- Life Science
- Automotive & Other Industries

TRANSPORTATION & PLACES

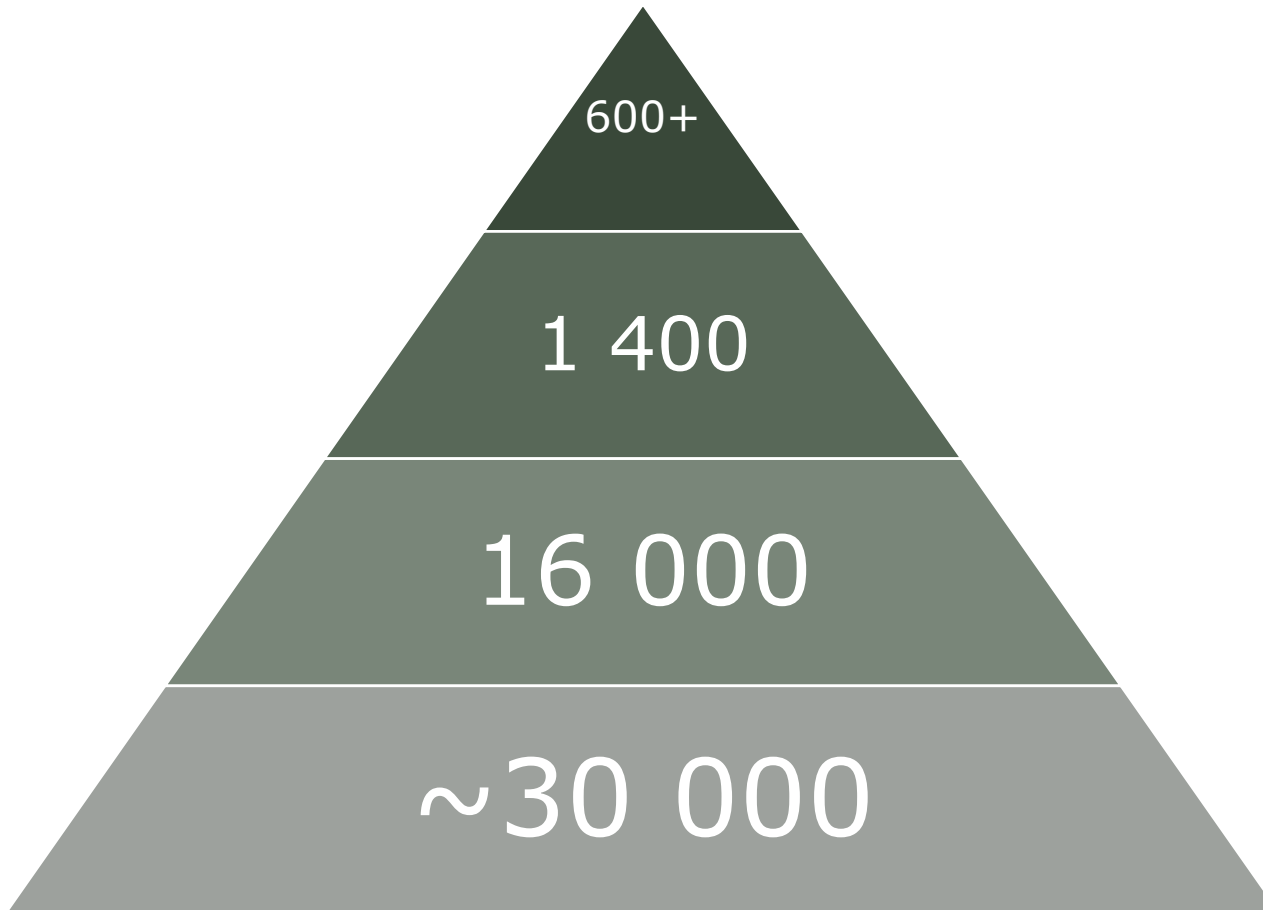


- Road & Rail
- Public & Commercial Places



AFRY in Nuclear

Making full use of AFRY's capabilities



Work in nuclear daily



Have worked in nuclear and understand the business and culture



Employees with relevant knowledge and expertise



Partners

AFRY Nuclear mainly operates within Europe but drives International Development as well



AFRY's Nuclear position in the Nordics

- AFRY has ~400 engineers in Norway, Sweden and Finland, currently working in nuclear.
- We provide support to all national nuclear facilities, as well as to international stakeholders and regulators.
- Services and expertise covering the whole life cycle
- AFRY holds seminars and takes an active role in nuclear forums and debates. We also cooperate with universities and give lectures in nuclear technology and safety.



OUR OFFERING

Services covering the entire lifecycle of a NPP – from early feasibility studies to decommissioning

Feasibility Stage:

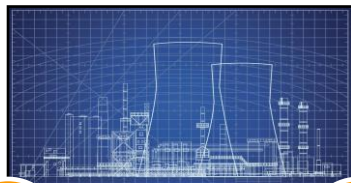
- Stakeholder engagement
- Business modelling
- Market/technology analysis & DD
- Siting & environmental studies

Construction

- Owner's engineering or vendor support
- Supply chain assessment
- Expert services
- Site, construction and installation supervision
- Licensing support

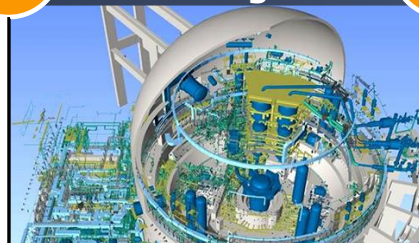
Decommissioning & Waste:

- Intermediate and final repositories
- Rad waste inventory
- Safety and risk assessment (AFRY ISM)
- Waste treatment and packaging studies



Feasibility

Planning & Design



Planning & Design

- Cooling water investigations
- Licensing, documentation & regulatory support
- EPC/EPCM Contracting
- Project and Quality Management, Procurement support
- Plant, System and Detailed Design (mech, I&C, electrical, civil, HVAC, fire)



Construction



Operation & Maintenance

O&M support

- O&M planning and support
- Refurbishment projects, Safety improvements
- Plant, System and Detailed Design
- Lifetime extension, Power upgrades
- Training



Decommissioning & Waste management

We take national responsibility for supplying the Nuclear industry with competence



COMMUNICATE

We create attractiveness and faith in the future for the industry.



RETAIN

We make it attractive to stay and develop in the industry.



RECRUIT

For us, it is important that we add new resources to the industry, and we also have the ability to offer and train AFRY resources from other industries.



DEVELOP

We train and develop new employees for the industry together with our energy experts.

AFRY NUCLEAR

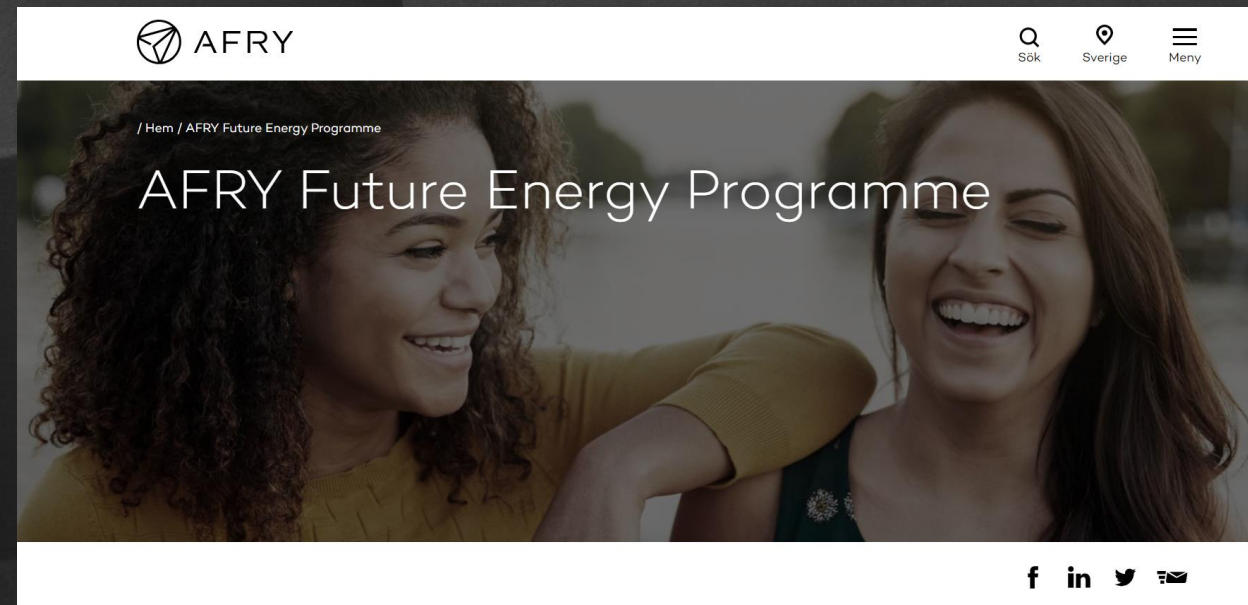
AFRY Nuclear Academy

No. of individuals
trained since 2008

> 1000

AFRY Nuclear Academy

- A platform for competence development
- Tailored courses in e.g.
 - Project management
 - Reactor technology
 - Nuclear safety
 - Nuclear introductory courses
- Trainee programs
- Seminars and webinars
- Mentor programs
- Cooperations with universities



References for new projects



Fennovoima Owners Engineering Services

Design review and support
Nuclear safety & licensing
Structural analyses for containment
Site seismic hazard studies
Expert support in specific areas



New build early studies

AFRY has conducted several studies for both private and public stakeholders, and delivered:

- Strategic support and advice
- Market analysis
- Site selection, evaluation and characterization
- EIA and permitting
- Power Investigations and Grid Connections
- Cooling Water investigations
- Training



Kuopion Energia Siting study

Investigation for suitability of SMR as a source for district heating. AFRY conducted a study that included considerations related to nuclear technology, licensing and permitting, land-use planning, environmental aspects, site characteristics, district heating network as well as economic aspects.

AFRY Services at Ringhals



- Safety Analysis
- Safety Assessments
- Environmental studies



- Design
- Logistics
- Technical Calculations



- Operations support
- Maintenance support



- Project management services

Projects and services:

Plant modifications

Competence development

Radioactive waste management

New Build of facilities

Decommissioning

Making Future

Contact:

PETER KEYSER, SECTION MANAGER, AFRY NUCLEAR NORWAY
+47 90539038, PETER.KEYSER@AFRY.COM