FENNOVOIMA

Fennovoima's experience in capacity building in the sphere of nuclear infrastructure.

AtomExpo Roundtable: Building Nuclear Infrastructure as a Key Component for the Sustainability of Nuclear Projects

April 15, 2019 Toni Hemminki President and CEO

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Fennovoima is a Finnish nuclear power company,

which produces climate friendly electricity to fill the needs of Finnish households and industry.



Owners: 66% Voimaosakeyhtiö SF 34% RAOS Voima

Size of the investment:

6.5-7 billion euros of which 1.8-2.7 billion euros domestic

We are part of the solution.

FENNOVOIMA HANHIKIVI 1

FH1-nuclear power plant will be built
Pyhäjoki, Finland





No greenhouse gas emission

Third generation pressurized water reactor **VVER-1200**

Life time of the power plant: at least

60 years

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FENNOVOIMA Fennovoima capability phases





PSAR & FSAR Regulations Assessment Licensing



BD & 3D Availability Technology Specifications



FH1 Configuration Quality Lifetime



FV Competence Organization Production

FH1 – key capabilities to build capacity

Strong nuclear sector experience	Experience on international project management	Safety culture, audits, careful planning and monitoring of qualifications
Documenting, quality and precision	Effective co-operation across supply chain	Experience on cultural differences and language skills

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Engaged stakeholders supporting the project

Capacity through supply chain



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	RAOS, accepted	FENNOVOIMA, accepted	RAOS, in progress	FENNOVOIMA, in progress
Contractors;	740	260	70	10

HRD and capacity building – challenges and FENNOVOIMA solutions

Challenges

Finding competent and qualified employees at the right time

Employee retention (project progress, staff transfer to Pyhäjoki)

Ensuring that the Supplier is ready to deliver the specific technical trainings according to local requirements





Solutions

- Proactive resource planning
- Versatile recruitment methods, including networks and social media
- Using external consultants for temporary gaps and needs
- Enabling leadership to drive positive organization development
- Comprehensive wellbeing development, supervisor coaching, mobilization support to employees, etc.
- Active co-operation with the Supplier
- Supplier developing resources and competences to design and implement the trainings + methods, tools and systems

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Long term national approach to build and maintain knowledge and capabilities: Finnish Nuclear Power Plant Safety Research



Finnish Nuclear Energy Act: should new matters related to the safe use of nuclear power plants arise, the authorities possess sufficient technical expertise and other competence required for rapidly determining the significance of the matters.

- Continuation of national nuclear power plant safety research programmes that have proven their value in maintaining and developing expertise
- The nuclear facility operators pay an annual fee for the Finnish State Nuclear Waste Management Fund (VYR) that finances research projects in SAFIR2022
- The research projects shall be of a high scientific standard and their results shall be published





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