

The importance of education and training for the future of the nuclear industry

15th Anniversary of the European Nuclear Education Network (ENEN)

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What does nuclear contribute to Europe's economy?









127

NUCLEAR REACTORS
IN OPERATION IN THE EU

70

€ BILLION/YEAR

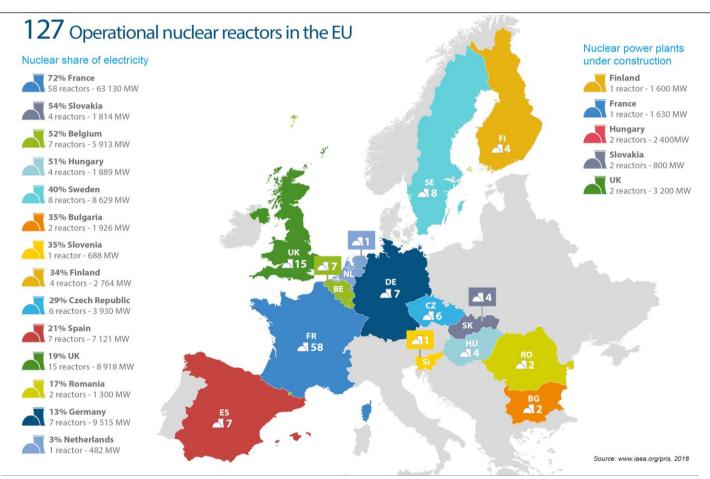
800,000

JOBS

27%

ELECTRICITY PRODUCTION

Nuclear energy in the EU



Examples of cooperation between the industry and universities



Spain

- •Launching a number of Post-Graduate and Master's degrees by the best Spanish universities together with the industry & R&D institutes
- Exemplary courses:
- European Master of Science in Nuclear Fusion and Engineering Physics (Universidad Complutense de Madrid)
- Master Course in Nuclear Engineering and Applications (Universidad Autónoma de Madrid)
- Master's Degree in Nuclear Technology and Instrumentation (Universidad de Huelva)
- Master's Degree in Sustainable Energy Engineering (Universidad Politécnica del País Vasco)
- Master's Degree in Nuclear Engineering (Universidad Politécnica de Cataluña)



France

- •2-year Master's degree programme created by Paris Sud University, Paris-tech, Centrale-Supelec & National Institute for Nuclear Science and Technology and supported by the industry (e.g. EDF, Orano) & CEA
- Covered topics:
- Nuclear Reactors Physics & Engineering
- Nuclear plant design
- Operations
- Fuel cycle
- Decommissioning & Waste Management

Education, Training & Knowledge Management Working Group





Tasks:

- Strengthening the link between the industry, research institutes and education and training stakeholders
- Providing a platform for the exchange of information on the current and future needs and the best examples of collaboration between the industry, universities and research institutes
- ✓ A gateway for representatives from both industry and research organisations to provide input to various EU institutions

External partners:

- ✓ IAEA Nuclear Knowledge Management division
- ✓ JRC
- ✓ ENEN
- ✓ SNETP

FORATOM involvement in selected European initiatives





EHRO-N

European Human Resource Observatory in Nuclear

Goal: to analyse and provide information on HR demand and supply in the nuclear sector



ANNETTE

Advanced Networking for Nuclear Education, Training and Transfer of Expertise

Goal: to promote a better coordination of academic learning initiatives in nuclear



ELINDER

European Learning Initiatives for Nuclear Decommissioning and Environment Remediation

Goal: to create a commonly qualified training programme in nuclear decommissioning



ENEN+

Goal: to attract develop and retain new talents in the nuclear professions

Key challenges facing the nuclear industry (education & training)

1

Maintaining knowledge

- Promote best practices
- Facilitate the transfer of knowledge and expertise

2

Meeting changing expectations of the young generation

- Set out a long-term vision
- Make nuclear more attractive
- Show the role nuclear energy can play in the EU energy transition

3

Putting forward good arguments

 Emphasise career opportunities, mobility, innovative projects and a decent salary

Thank you

