



# STRATEGIC ASPECTS OF THE SOCIAL RESEARCH IN THE DEVELOPMENT OF THE ROMANIAN NUCLEAR SECTOR

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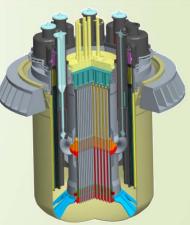
# **National Nuclear Agenda**



- Operational safety (NPP and other nuclear installations)
- Continuation of works at Unit3&4, Cernavoda NPP
- Plant life extension for Cernavoda NPP Unit 1&2
- ALFRED GenIV demonstrator implementation
- Radioactive waste management (LILW repository construction, geological disposal strategy)
- Mining and environmental issues







### **S1 - Moderate development**

- plant life extension for Unit 1 (from 2026 to 2055) and Unit 2 (from 2037 to 2066) by refurbishment and modernization
- continuation of works at Unit 3 and Unit 4, commissioning and operating

### S2 - Accelerated development

- plant life extension for Unit 1 (from 2026 to 2055) and Unit 2 (from 2037 to 2066) by refurbishment and modernization
- continuation of works at Unit 3 and Unit 4, commissioning and operating
- build a new NPP, eventually in coupled functioning with Tarnita-Lapusesti hydro storage pumping system

## S3 - Technological development

- plant life extension for Unit 1 (from 2026 to 2055) and Unit 2 (from 2037 to 2066) by refurbishment and modernization
- continuation of works at Unit 3 and Unit 4, commissioning and operating
- implementing of Generation IV nuclear systems with the LFR demonstrator ALFRED as a first step

### **S4 - Continuation**

- plant life extension for Unit 1 (from 2026 to 2055) and Unit 2 (from 2037 to 2066) by refurbishment and modernization
- abandonment of the investment at Unit 3 and Unit 4

### S5 - Decreasing

- decommissioning of Unit 1 and Unit 2 after the end of life (2022 and 2032, respectively)
- abandonment of the investment at Unit 3 and Unit 4

- Use of natural resources
- Export of electricity (distribution of the risks and benefits)
- Knowledge transfer for complex technologies
- Sustainable development for nuclear sector
- Early/delayed disposal
- •SF retrievable or not
- RWM

Aspects of the intragenerational ethics and intergenerational ethics

. Construction of the dialogue in post-communist societies

- Risk communication and risk acceptability for nuclear power
- Normal periods communication on IR
- Crisis communication
  - Institutional obstacles for participation
    - Barriers and difficulties perceived by public in nuclear debate

SSG research

- Plant life extension
- · Risks derived from the institutional malfunctions
- · Security of supply. geopolitical risks
- Nuclear technology and seismic risks
- · Risks from terrorism and the security of nuclear installations
- · New technologies, benefits and responsibilities of the society

Risks analysis, communication. and perception

Confidence, trust and control

Construction of a

continuous

dialogue

- Legal aspects related to operation, monitoring and surveillance of nuclear installations
- ·Health surveillance for communities living near nuclear installations
- Communication with national and local authorities
- Public involvement in DMP (beyond SEA and EIA)