

Monday, 21 September 2026

09:00	90 min	Session 1. Opening keynotes on the current nuclear landscape
10:30	30 min	Coffee break 1
11:00	90 min	Session 1. Opening keynotes on the current nuclear landscape, continued
12:30	60 min	Lunch
13:30	90 min	Session 2. The Norwegian context
15:00	30 min	Coffee break 2
15:30	30 min	Platinum sponsor session
16:00	45 min	End-of-day chaired discussion

Tuesday, 22 September 2026

09:00	120 min	Session 3. Political and societal aspects of renewed nuclear interest
11:00	30 min	Coffee break 1
11:30	90 min	Session 4. Future nuclear systems and applications
13:00	60 min	Lunch
14:00	90 min	Session 4. Future nuclear systems and applications, continued
15:30	30 min	Coffee break 2
16:00	30 min	Gold sponsor session
16:30	45 min	End-of-day chaired discussion

Wednesday, 23 September 2026

09:00	90 min	Session 5. Human–Technology–Organisation Perspectives for Nuclear Systems
10:30	30 min	Coffee break 1
11:00	75 min	Session 6. From innovation to market-ready solutions
12:15	60 min	Lunch
13:15	90 min	Session 6. Demonstration and discussion session: from prototype to deployable solution
14:45	30 min	Coffee break 2
15:15	20 min	Silver sponsor session
15:35	60 min	Session 7. Nordic and international collaboration
16:35	35 min	End-of-day chaired discussion
19:00		Gala dinner

Thursday, 24 September 2026

09:00	90 min	Session 8. AI/LLM applications for nuclear data
10:30	30 min	Coffee break 1
11:00	90 min	Session 9. European and international R&D developments
12:30	60 min	Lunch
13:30	90 min	Session 9. European and international R&D developments, continued
15:00	30 min	Coffee break 2
15:30	60 min	Closing chaired discussion

Friday, 25 September 2026

09:00	~180 min	Optional laboratory visits in Halden
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Session details

1. Opening keynotes on the current nuclear landscape

Keynotes and strategic perspectives from organising partners and invited stakeholders.

- European, Nordic, and international nuclear developments
- International collaboration
- Industrial and policy developments
- Innovation priorities and deployment challenges
- Energy security and competitiveness
- Regulatory and strategic developments, etc.

2. The Norwegian context

Discussion of the evolving Norwegian nuclear landscape following the publication of the Government-commissioned NOU on nuclear power.

- National timelines and next steps
- Collaboration opportunities
- Competence and infrastructure needs
- Industrial and regulatory considerations
- Nordic perspectives and integration opportunities, etc.

3. Political and societal aspects of renewed nuclear interest

Perspectives on governance, public acceptance, and strategic drivers shaping renewed interest in nuclear energy in Europe.

- Public and political perspectives
- Energy security and resilience
- Societal acceptance and stakeholder engagement
- European strategic priorities
- Workforce and competence development, etc.

4. Future nuclear systems and applications

Perspectives on future nuclear technologies and applications, including advanced fuel cycles and emerging deployment areas.

- Closed fuel cycles
- Thorium fuel concepts
- SMRs and advanced reactors
- Maritime nuclear propulsion and shipping
- Infrastructure and licensing challenges
- Industrial and deployment considerations
- Optional student short presentations
- Student poster contributions, with students invited to bring posters connected to their work
- Future fuel cycle strategies, etc.

5. The Halden HTO Project

Human–technology–organisation research for nuclear systems, with focus on operational safety, human performance, and human–AI interaction across the nuclear lifecycle.

- Human performance and operational decision-making
- Human–AI collaboration
- Digital support systems
- Lifecycle management and decommissioning
- Applications relevant for future reactor concepts
- Organisational and competence aspects, etc.

6. From innovation to market-ready solutions

What it takes to move AI-, data-, robotics-, and Digital-Twin-based solutions from prototype stage to deployable tools supporting nuclear decommissioning, lifecycle management, preparedness, and operation of current and future nuclear systems.

- Technical implementation aspects
- Licensing, regulation, cybersecurity, and safety case development
- Supply chain, manufacturing, and industrialisation
- Economics, financing, and business models
- Human–technology–organisation and competence development
- Demonstrations of prototype tools and platforms, including VRdose Nova and DecomGPT
- Validation and deployment pathways
- Decommissioning and preparedness applications, etc.

7. Nordic and international collaboration

Strengthening collaboration between research organisations, industry, authorities, and international bodies.

- Existing Nordic collaboration frameworks
- New bilateral and multilateral agreements
- Euratom and international cooperation
- Cross-border competence and infrastructure development
- Joint innovation and deployment opportunities, etc.

8. AI/LLM applications for nuclear data

Maximising the value of existing nuclear and reactor data through AI-enabled approaches.

- AI/LLM applications for nuclear data
- Halden Reactor Project database initiatives
- Knowledge extraction and retrieval
- Validation and reliability considerations
- Research and industrial applications
- Data-driven decision support, etc.

9. European and international R&D developments

Updates from European and international projects supporting innovation, deployment, preparedness, and sustainability across the nuclear sector.

- Euratom programme developments
- DORADO, XS-Ability, GUARDIANS, HARPERS, EURAD-Ditoco, EASI-SMR, and related projects
- Nuclear decommissioning and lifecycle management
- Emergency preparedness and response
- AI-enabled digital infrastructure and interoperability
- Data management and digital continuity
- Robotics and Digital Twins
- Applications relevant for current and future reactor systems, including SMRs, etc.

Sponsor sessions

Sponsor sessions will be distributed across the main workshop days, giving industrial partners and sponsors opportunities to present company pitches, technology showcases, deployment perspectives, and collaboration opportunities according to sponsor level.

Optional laboratory visits in Halden

DigiDECOM 2026 – NuclearNEXT Deep Dive Workshop 2026 September 21 – 25, Halden, Norway

Optional technical visits to selected laboratory and demonstration facilities hosted in Halden.