# SNETP Forum 2026

## Preliminary* PROGRAMME

*(version: 12 March 2026)*

*Please note that the following programme is a preliminary draft, some changes/adjustment/complements may occur before the event, we encourage you to follow up the weekly update using this link

**Day 1 – 25 March – SNETP Forum**

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| 10:00 | **SNETP GENERAL ASSEMBLY MEETING – J. Maritain Room** (4th floor)<br>**(restricted to SNETP members)** |
| 12:15 | Lunch (restricted to SNETP GENERAL ASSEMBLY members) |
| 13:30 | **Welcome and Opening of the SNETP FORUM 2026 - AUDITORIUM**<br>- **B. Salha,** President of SNETP (EDF)<br>- **Madrid Regional Minister**<br>- **Yolanda Benito Moreno,** Directora General del CIEMAT<br>- **Javier Dies**, Commissioner of the Spanish Nuclear Safety Council (CSN) and chairman of the Spanish Nuclear Energy Technological Platform R&D (CEIDEN) |
| 14:00 | **Presentation of the new SNETP Governing Board members**<br>- **B. Salha,** President of SNETP (EDF) |
| 14:20 | **Plenary session: The role of nuclear fission in Europe's energy systems - AUDITORIUM**<br>**Moderator: B. Salha,** President of SNETP (EDF)<br><br>**Topics of discussion:**<br>➢ *Incentives for Long term operation*<br>➢ *Ensuring Economy/Competitiveness/availability and security of energy*<br>**Panellists**<br>- **B. Salha: Nuclear Landscape in Europe and SNETP strategy**<br>- **Aline des Cloizeaux**, Nuclear Power Division Director, IAEA<br>- **Neva Espinosa,** Senior Vice President & Chief Generation Officer, EPRI<br>- **Stefan Kopecky**, European Commission, Joint Research Centre (JRC)<br>- **Andrei Goicea,** Policy Director- nucleareurope<br>- **Sergi Milà**, Tecnatom-Westinghouse group General Manager<br>- **Stephane Sarrade,** CEA/GIF Chair (France) |
| 15:30 | Coffee break |
| 16:00 | **Technical parallels sessions:**<br><br>**A1 - New Nuclear projects (financing, planning, construction) – ROOM *(TBC)***<br>***Moderators:** P. Nevitt (UKNNL) & I. Darby (UKNNL)*<br><br>**Topics of discussion:**<br>➢ *Experience on international and European project financing*<br>➢ *Review of and updates about the new European nuclear projects in development.* |

- *Viewpoints on the establishment of a new European nuclear skills base and supply chain.*

**Speakers**

- **Lou Martinez** (Westinghouse)
- **Steve Chengelis** (EPRI), Advanced Manufacturing and supply chain
- **Zbigniew Krysiak** (SGH Warsaw School of Economics)
- **Mathieu Scherer** (NUWARD), NUWARD SMR's strategy regarding constructability, including prefabrication and modularization
- **Pieter Dehairs** (Tractebel), Code selection for European SMRs considering ASME and RCC-M differences, supply-chain standardization and the European regulatory framework
- **Isabel Parrado** (Westinghouse), A training simulator for the eVinci microreactor and beyond
- **Salim El Bouzidi** (Metroscope), The role of AI-based expert systems in enhancing collaboration and knowledge management in nuclear power plants
- **Federica Pancotti & Valerio Piscini** (Sogin), Advanced Technologies for Large Scale Steam Generator Dismantling: The Latina Boilers Project

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**B1- Long-Term Operation** – **ROOM *(TBC)***

***Moderators:*** *P. Ferroni (Westinghouse) & J.C Huchard (EDF)*

**Topics of discussion:**

- *Modernization, modification, refurbishment projects or power uprate projects for LTO*
- *Safety analysis for design modification considering internal/external hazards*
- *Verification and validation of new technologies*

**Speakers**

- **Faiza Sefta** (OECD-NEA), NEA Nuclear Reactor Safety Research in support of LTO
- **Federico Rocchi** (ENEA), The need for robust and anticipated safety assessments in European LTE/LTO projects: ETSON's perspective
- **Pieter Hellings** (Tractebel), Long-Term Operation (LTO) of Doel 4 and Tihange 3 Nuclear Power Plant: Design Upgrades and Test & Inspection Strategy
- **Marie Bertholot** (EDF/MAI), The Materials Ageing Institute: An international consortium driving excellence in nuclear long-term operation
- **Yves Derriennic** (Westinghouse Belgium), LMD & Cold Spray to repair critical components
- **Mohamed Ben Chouikha** (GeePs - Sorbonne Université), AI-augmented Sensor Interface for NPPs safety assessment and Long Term
- **Hannu Malmberg** (Fortum), Loviisa NPP LTO in I&C technologies: current state and plans for remaining life time

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**C1 - Non-electric Applications** – **ROOM *(TBC)***

***Moderators****: M. Fütterer (JRC) & C. Boudet (CEA)*

**Topics of discussion:**

- Cost competitiveness of nuclear heat, H2 and other energy products
- The European market for decarbonised heat
- Pathways to demonstration and deployment of co-generation

**Speakers**

- **Józef Sobolewski** (NCBJ), The role of the Nuclear Cogeneration Industrial Initiative
- **Michael Fütterer** (JRC), Highlights from the GIF Working Group on Non-Electric and Cogeneration Applications

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| | ○ **Alina Constantin** (IAEA), IAEA activities on HTGR Technology Development and their Non-Electric Applications<br>○ **Allan Simpson** (Equilibrion), Update to the 2011 EUROPAIRS Report on European Industrial Heat Demand<br>○ **Fabio Nouchy** (Tractebel), Perspectives for SMR in industry and in future integrated Nuclear Hybrid Energy Systems<br>○ **Gianni Bruna** (Calogena), Bridging the District Heating Gap: The Competitiveness of Calogena's Low-Temperature SMR |
| 18:30 | Cocktail reception (all) |

# Day 2 – 26 March – SNETP Forum

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| 9:00 | **Plenary session: Small Modular Reactors advancement in the EU - AUDITORIUM**<br>**Moderator: P. Baeten -** SNETP Vice President (SCK CEN)<br><br>**Topics of discussion:**<br>➢ *Technological maturity of new designs and the role of R&D in accelerating a multi-lateral licensing process*<br>➢ *Need for new energy and decarbonization means for the industry*<br>**Panellists**<br>- **Michele Frignani,** Vice-President of Ansaldo Nucleare<br>- **Kiki Lauwers,** CEO, Thorizon<br>- **Nicolas Zweibaum**, Deputy CTO of HEXANA<br>- **Pascal Charles**, R&D Director of production at EDF |
| 10:00 | Coffee break |
| 10:30 | **Technical parallels sessions:**<br><br>**A2: Hybrid Energy Systems (Panel Debate)** – **ROOM *(TBC)***<br>***Moderators**: C. Vaglio-Gaudard (CEA) & A. Cagnac (EDF)*<br>**Topics of discussion:**<br>➢ *Modelling tools for HES (suitability for including nuclear, tool validation)*<br>➢ *Modelling of economics (LCOE vs. LCA, impact of assumptions, how to ensure the reliability of results)*<br>➢ *Effect of flexibility (e.g., power ramping) on lifetime, performance and economy*<br>**Speakers**<br>○ **Marco Ricotti** (POLIMI), Modelling approach for Hybrid Energy Systems analysis<br>○ **Sylvain Takenouti** (EDF), EDF experience and perspectives on nuclear cogeneration<br>○ **Cecilia Herrero-Moriana** (Westinghouse), Advancing Hybrid Energy Systems: Technical, Economic, and Operational Insights from Nuclear–Hydrogen Integration<br>○ **Martin Scheepers** (TNO), Small modular reactors in the Dutch energy system: combined heat and power production in industry<br>○ **Iain Darby** (UKNNL), FlexMix Insights – The power of industry collaborations on Integrated Energy Systems analyses<br>○<br>---<br><br>**B2: Digitalization & Artificial Intelligence (Demos)** – **ROOM *(TBC)***<br>***Moderators**: C. Schneidesch (ENGIE) & S. Szabolcs (AEMI)*<br>**Topics of discussion:**<br>➢ *Enhanced Predictive Maintenance and Anomaly Detection (machine learning model, sensor data analytics, real-time monitoring)*<br>➢ *high-fidelity digital twins of nuclear plants for simulation, optimization, and operator training*<br>➢ *AI-driven risk assessment tools*<br>**Speakers**<br>○ **Aurélien Schwartz** (Metroscope), Harnessing AI to improve the performance and reliability of nuclear power plants<br>○ **Agnieszka Czeszumska** (EPRI), AI in Action: Applied Research Projects for the Nuclear Sector at EPRI<br>○ **Nicolas Bousquet** (EDF), AI R&D at EDF: methodologies and tools serving the nuclear industry<br>○ **Sergio Canil** (NFQ), Presentation title to be confirmed |

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| | ○ **Mateo Ramos** (Westinghouse), Nuclear-Specific AI in Practice<br>○ **Manuel Sainz** (EAG), Digital Twin of Almaraz NPP in Spain<br>○ **Louis Bal-Dit-Sollier** (EDF), LLMs4EU Project<br>---<br>**C2: Advanced Fuels & Materials** – **ROOM *(TBC)***<br>***Moderators**: M. Bertolus (CEA) & O. Martin (JRC)*<br>**Topics of discussion:**<br>➢ *Fuel resilience under accident conditions(including ATF development)*<br>➢ *Materials for high burnup and closed fuel cycles*<br>➢ *Multi-scale modelling of microstructural evolution under irradiation*<br>➢ *Corrosion-resistant materials*<br>**Speakers**<br>○ **Lorenzo Malerba** (CIEMAT), Accelerating innovation in nuclear materials: the CONNECT-NM partnership<br>○ **Murthy Kolluri** (NRG Pallas), Irradiation Testing and Qualification of Fuels and Materials at HFR for Advanced Reactor Systems and proposal ideas for the current EURATOM call<br>○ **Didier Bardel** (Framatome), Framatome involvement in Advanced and Additive Manufacturing: a focus on LPBF developments for fuel assembly applications<br>○ **Alberto Saez Maduero** (CIEMAT), Highly Corrosion-Resistant Cladding Alloys: Results from the ECC-SMART Project and Future Applications (PRECISE Project)<br>○ **Tommaso Barani** (CEA), Advancing MOX nuclear fuel knowledge in Europe: from recent Euratom achievements to a future proposal for integrated fuel cycle strategies<br>○ **Jorge Sanchez Torrijos** (NFQ), Simulation of several ATF fuel rod concepts performance under LOCA conditions using TRANSURANUS and TRACE<br>○ **Antoine Claisse** (Westinghouse), Westinghouse orientations for near-and long-term fuel material developments |
| 12:30 | Lunch |
| 14:00 | **Plenary session:**<br>**Current status of Nuclear energy in the Spanish energy mix - AUDITORIUM**<br>**Moderator: E. Gonzalez –** SNETP-Governing Board (CIEMAT**)**<br><br>**Topics of discussion:**<br>➢ *How to meet the increasing electricity demand in the future while maintaining the grid stability?*<br>➢ *LTO approach and value creation*<br>➢ *Supply chain and other industries in Spain*<br>**Panellists**<br>- **Antonio González Jiménez,** Director de Estudios y Apoyo Técnico, Foro de la Industria Nuclear Española<br>- **Paulo Jorge Domingues dos Santos**, President of the Spanish Nuclear Society (SNE)<br>- **María Teresa Domínguez Bautista**, Director de proyectos avanzados en Empresarios Agrupados (EAG)<br>- **Alberto Martin Garcia**, Consultant in Energy Practice, PwC España<br>- **Pablo Teofilo Leon Lopez**, President of CEIDEN<br>- **Rafael Triviño Fernández,** General Director of ENSA |
| 15:30 | Coffee break |
| 16:00 | **Technical parallels sessions:** |

**A3: LWR Small Modular Reactors** – **ROOM *(TBC)***

*Moderators: N. Sobecki (EDF), M. Vázquez Cabezudo (EAG) & I. Horvatovic (SCK CEN)*

**Topics of discussion:**

- *Passive safety features and severe accident mitigation strategies tailored for SMR designs*
- *Innovations in factory fabrication and modular assembly*
- *Standardization of design codes and licensing frameworks for multi-country deployment*

**Speakers**

- **Antti Tarkiainen** (Steady Energy), Key Challenges involved in integrating passive safety systems into the LDR50 design to support its licensing
- **Oscar Campos** (Westinghouse), Advanced passive safety of the AP300
- **Céline Poret** (ASNR), Main Human & Organisational Issues regarding Passive Safety Systems in LW-SMRs
- **Elena Bernardo Quejido** (CIEMAT), Developing a qualification pathway for additive manufacturing
- **Arturo Suarez Reales** (Tractebel), Standardisation challenges for BWRX-300 Design Codes in the European context
- **Karel Deknopper** (NUWARD), NUWARD Joint Early Review: pragmatic multi-regulatory engagement for multi-country deployment

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**B3: Innovation in the Nuclear sector (including case studies from Young generation)** – **ROOM *(TBC)***

*Moderators: B. Pothet (Framatome) & E. Guillaut (Orano)*

**Topics of discussion:**

- *Fostering cross-sector collaboration between industry, research institutions, and authorities to accelerate deployment.*
- *Leveraging EU open innovation ecosystems to integrate AI, digitalization, and cross-sector applications for safety and competitiveness.*

**Speakers**

- **Roger Garbil** (EC DG RTD), Building Tomorrow, Today: Scaling R&I Desks from Horizon to Euratom
- **Hidde Baars** (Urenco), Nuclear fuel: today and tomorrow
- **Thibault Louvet** (Orano), Fuelling Nuclear Ambition to Sustain Small, Advanced and Large Reactors
- **Annick Elie** (Framatome), Fueling the Future of Advanced Nuclear Technologies
- **Sergii Pugach** (National Science Center Kharkiv Institute of Physics and Technology) & **Kateryna Piliuhina** (ENEN), Nuclear education and industry collaboration in Ukraine: joint e-learning system
- **Vinicius Alves Fernandes** (EDF R&D, METI2S): Methodologies and Tools Innovation and Industrialization for Seismic Risk Assessment

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**C3: Advanced Modelling & Simulation (incl. high performance, fidelity, computing)** – **ROOM**

*Moderators: F. Roelofs (NRG Pallas) & L.E. Herranz (CIEMAT)*

**Topics of discussion:**

- *Advanced Modeling and Simulation for accurate predictions of reactor behavior and safety margins including uncertainty quantification, verification and validation*
- *Integration of HPC with real-time monitoring and digital twins for nuclear plants*

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| | ➢ *Data-Driven Approaches and AI Integration*<br><br>**Speakers**<br>○ **Mohamed Hibti** (EDF R&D), Quantum Computing in Safety Assessment: Present Status and Future Outlook<br>○ **Kevin Zwijsen** (NRG Pallas), DRAKCAR: A Horizon Europe Project Proposal on Flow-induced Vibrations in Prototypical Configurations<br>○ **Aya Barakat** (NEEXT), Chemically Reactive Working Fluids for High-Efficiency Secondary Thermodynamic Cycles in Next-Gen Nuclear Plants<br>○ **Patrick Blaise** (Framatome), AMETIST: Advanced Models Evaluation and Tools for Improved reactor Simulation during Transient<br>○ **Luis Herranz** (CIEMAT), Consolidation of UaSA application in severe accident analysis<br>○ **Sofiane Benhamadouche** (EDF), Experimental and numerical perspectives for predicting the flow in a dead branch |
| 18:00 | End of the day |

**Gala Dinner – 20:30**

**Venue: Perrachica**

**Address: C. de Eloy Gonzalo, 10, Chamberí, 28010 Madrid**

# Day 3 – 27 March – SNETP Forum

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| 9:00 | **Technical parallels sessions:**<br><br>**A4: Advanced Modular Reactors (AMR) & Generation IV** – **ROOM *(TBC)***<br>*Moderators: H. Aït Abderrahim (Myrrha) & A. Goicea (nuclearеurope)*<br><br>**Topics of discussion:**<br>➢ *Innovative Reactor Concepts and Coolant Technologies*<br>➢ *Fuel Cycle Innovation and Sustainability*<br>➢ *Accelerating the time to market of AMRs (maturity of design, licensing, …)*<br><br>**Speakers**<br>○ **Nicolas Zweibaum** (HEXANA), HEXANA: building on the EU's SFR legacy to accelerate time-to-market<br>○ **Jean Dhers** (newcleo) & **Vincent Schryvers** (SCK CEN) (EAGLES-NEWCLEO), Strengthening Europe's Leadership in Advanced Reactors: The EAGLES–newcleo Alliance<br>○ **Mariusz Dąbrowski** (NCBJ), Current Advancement of HTGR-POLA Project<br>○ **Stéphane Sarrade** (CEA/GIF Chair), Fuel cycles for Advanced Modular Reactors (AMR) & Generation IV : What needs for a sustainable deployment?<br>○ **Wolfgang Denk** (Denk Nuclear AG), Advanced Nuclear Reactors: How fast can they be deployed?<br>○ **Ferry Roelofs** (NRG Pallas), The THESEUS Proposal: Thermal Hydraulics Experiments and Simulations for EUropean innovative Systems<br>---<br>**B4: Safety and licensing (Role of R&D)** – **ROOM *(TBC)***<br>*Moderators: P. Kinnunen (VTT) & T. Ethvignot (ASNR)*<br>**Topics of discussion:**<br>➢ *adaptive licensing pathways for advanced technologies (materials, fuels, digital, IA, Robotics,…) enabling faster innovation while maintaining safety*<br>➢ *Risk-informed licensing approaches adapted to novel reactor designs*<br><br>**Speakers**<br>○ **Michele Frignani** (Ansaldo Nucleare), The path to a common nuclear safety approach for EAGLES-300 and its precursors<br>○ **Aleksi Valkeapää** (STUK), Nuclear Legislation Reform in Finland and Its Implications for SMRs<br>○ **Erlend Hagen** (Traneberget AS), A framework for enabling and governing a pan-European Closed Fuel Cycle (CFC), compatible with safeguards, industrial scalability, and EU regulatory realities<br>○ **Javier Dies** (CSN), Nuclear Energy and nuclear skills<br>○ **Fernando Cebriano** (Westinghouse), Fire Event Sequence Families Quantification for the eVinci® Microreactor Using New Licensing Methodologies (LMP - NEI-18-04) for ANLWR<br>○ **Laurent Billet** (EDF), How to ease SMR licensing with codes and standards?<br>○ **Faiza Sefta** (OECD-NEA), NEA International RegLab Project |

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| | ---<br>**C4: Waste management and decommissioning** – **ROOM *(TBC)***<br>*Moderators: A. Banford (UKNNL) & Giuseppe A. Marzo (ENEA)*<br>**Topics of discussion:**<br>➢ *Advanced dismantling technologies and Digital twins for decommissioning: Robotics, remote handling, and AI-driven planning*<br>➢ *Waste volume reduction techniques*<br>➢ *Long-term storage and disposal solutions*<br><br>**Speakers**<br>○ **Erika Holt** (VTT), Snapshot of ongoing predisposal and disposal R&D within the EURAD-2 partnership<br>○ **Diego Espejo** (ENRESA), Enresa´s volume optimization strategies and R&D for radioactive waste management and decommissioning<br>○ **Reka Szoke** (IFE), End-User Driven Digital Twins for Geological Radioactive Waste Disposal: EURAD-2 DITOCO2030<br>○ **Sylvain Benazet** (EDF), Overview of the EDF R&D supports on Waste & Decommissionning<br>○ **Samir Dziri** (Tractebel), Radiological characterisation for dismantling waste classification using underwater gamma-ray spectrometry at ENGIE Electrabel nuclear power plants<br>○ **María Ines García Lodeiro** (IETcc-CSIC), Innovative conditioning matrices for the immobilisation of problematic radioactive waste streams (EURAD-2 STREAM)<br>○ **Elena Torres Álvarez** (CIEMAT), Lessons Learned from European Collaborative Projects and the FEBEX Programme for Enresa's R&D Plan: Supporting Next Steps on DGF Implementation |
| 11.00 | Coffee break |
| 11:30 | **Plenary session:**<br>**Collaboration as a driver for innovation - AUDITORIUM**<br>**Moderator: L. Martinez** SNETP-Governing Board (Westinghouse)<br><br>**Topics of discussion:**<br>➢ *Collaboration vs. Competition: where the EU stands?*<br>➢ *Competitive energy supply as major driver for the industrial competitiveness*<br>➢ *Artificial intelligence impact in the nuclear sector*<br><br>**Panellists**<br>- **Aline des Cloizeaux**, Nuclear Power Division Director, IAEA<br>- **Tatiana Ivanova**, NEA Head of the Division of Nuclear Science, OECD-NEA<br>- **Roger Garbil,** Head of Euratom Research Fission Sector, EC DG RTD<br>- **Patrick Blanc-Tranchant,** Deputy Director of Low Carbon Energy Programs, CEA<br>- **Stephanie Barron,** Nuclear Power Engineer, ESA/ESTEC |
| 12:30 | **Wrap up and conclusions, B. Salha** |
| 13:00 | End of the SNETP Forum 2026 |

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