

An Overview of the SNETP

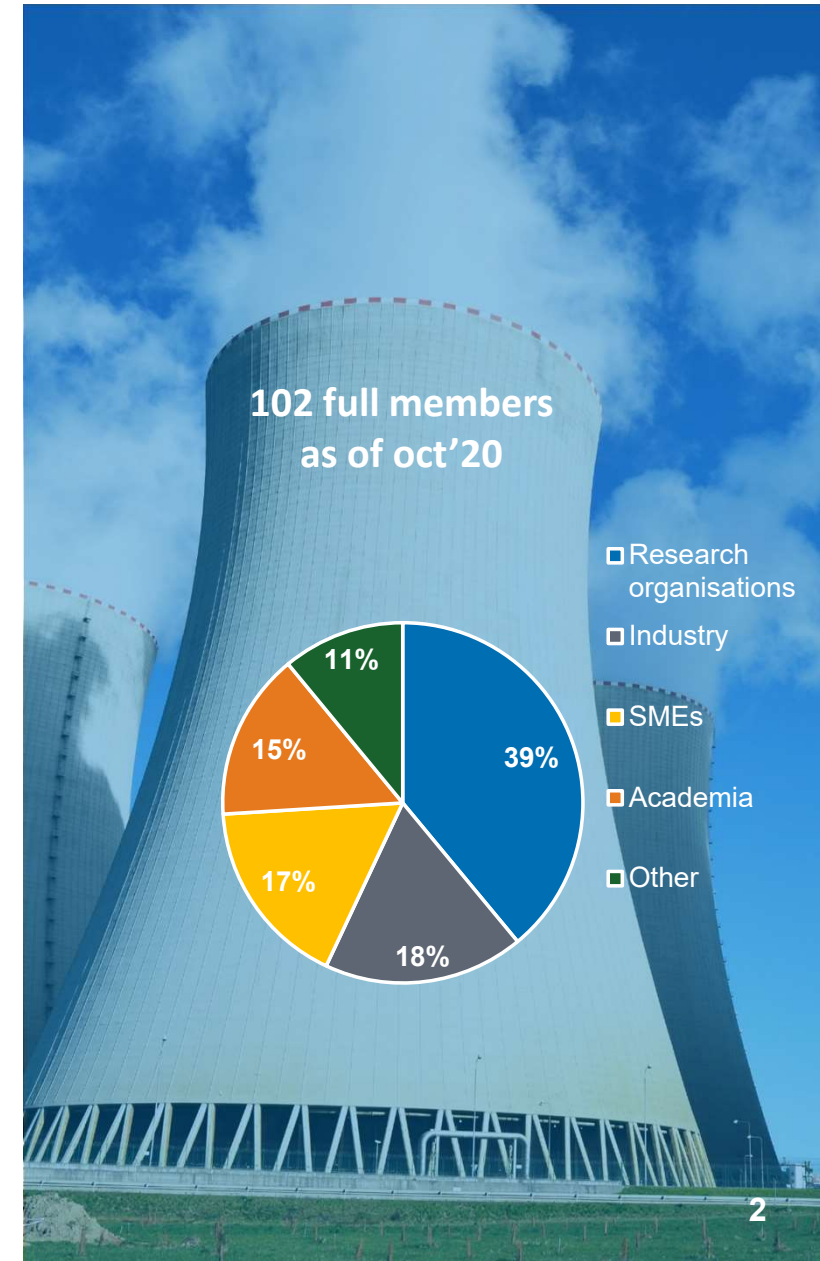
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Waste Management and Decommissioning

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SNETP in a nutshell

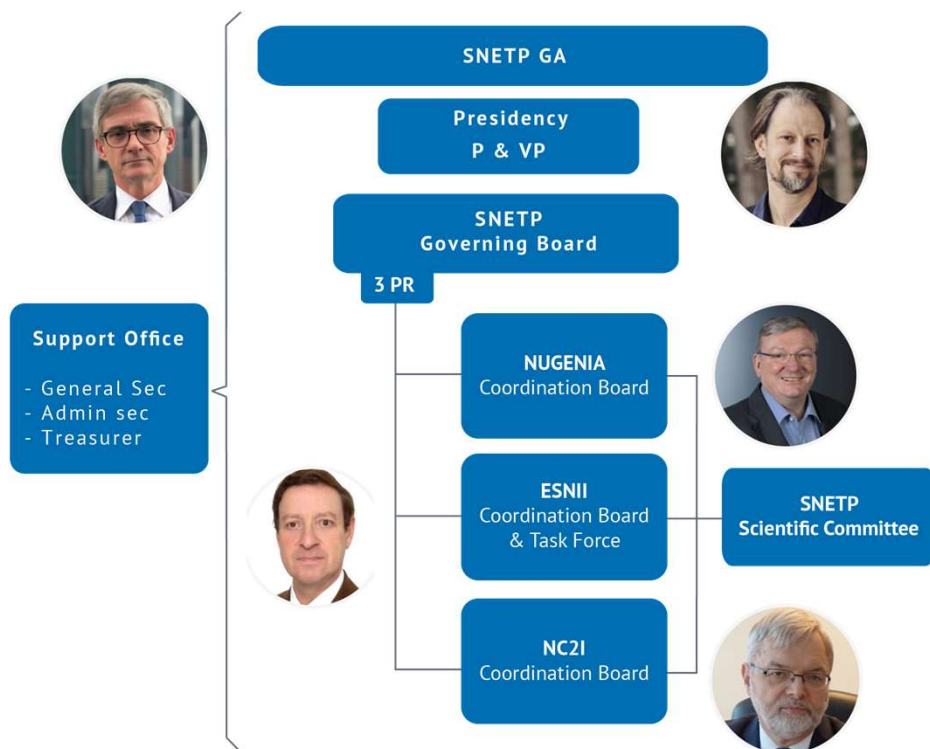
- SNETP was set up in 2007 under the auspices of the European Commission with the goal to **support technological development for enhancing safe and competitive nuclear fission in a climate-neutral and sustainable energy mix.**
- In line with the objectives of the SET-Plan, SNETP aims to contribute to:
 - Lowering European greenhouse gas emissions
 - Assuring security of energy supply for Europe
 - Stabilizing electricity prices in Europe
- The association gathers various types of stakeholders: industry, research centres, safety organisations, universities, non-governmental organisations, SMEs, etc.



Who is SNETP?



SNETP governance



- The **General Assembly** gathers all members and votes on key decisions.
- The **Presidency** is responsible for the high-level representation of the Association and channels the positions of the General Assembly to external stakeholders.
- SNETP is steered and monitored by a **Governing Board** which is in charge of executing the decisions taken by the General Assembly.
- **GB Committees**
 - Feed the reflection and interactions between meetings
 - Strengthen the association presence at various levels
 - Ensure the subsidiarity of decisions and actions
- Three **pillars** (NUGENIA, ESNII & NC2I) and a Scientific Committee carry out the technical work of the Association.
- The **Support Office** is composed of the General Secretariat, an Administrative Secretariat and a Treasurer.
 - Alain Le Gac: Treasurer
 - Abdou Al Mazouzi: General Secretariat

Objectives

Promoting Scientific Excellence

- Agree on, implement and promote common R&I priorities within the SNETP community representing the three pillars and strengthen EU expertise and excellence

Boosting Innovation

- Facilitate industrial-driven and intersectoral innovation (digital, robotics, materials, etc.) in nuclear for current and new applications (non-power, hydrogen, etc.)

Representing nuclear fission R&D in European Affairs

- Promote SNETP expertise and research priorities towards European institutions

Strengthening International Relations

- Promote SNETP expertise and research priorities towards international nuclear institutions (IAEA, OECD/NEA, GIF, etc.)

Providing solutions to Industry

- Foster industrial-driven research addressing the needs of SNETP industrial members in particular regarding safety, supply chain, licensing and cost-competitiveness

Cooperating closely with Regulators

- Reinforce cooperation between SNETP and the different regulatory and standardization bodies.

Supporting R&D infrastructures

- Support projects and initiatives aiming at maintaining/refurbishing/building the needed infrastructure to perform R&D&I in the nuclear field.

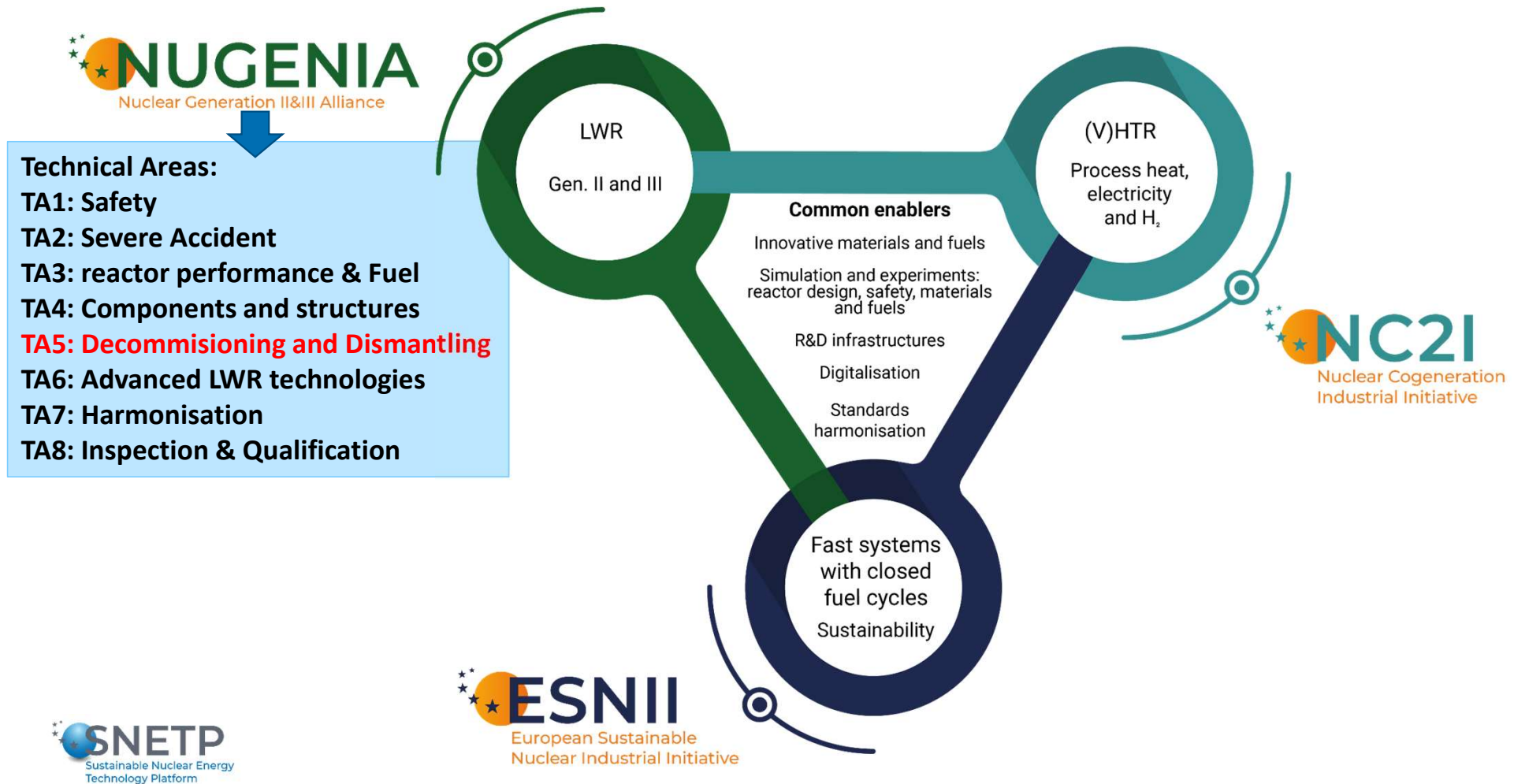
Sharing Experience with European Associations

- Fostering & coordinating interactions with European associations in the field of nuclear, and any other sector with potential mutual interests with nuclear.

Engaging with Civil Society

- Engage with civil society and non-nuclear stakeholders to rationalize the debate on the European energy mix and enhance the acceptability of nuclear.

Three Pillars



Nugenia TA5: Waste Management & Decommissioning

Challenges:

- (i) to develop enhanced approaches to minimize waste arising, through design operation and decommissioning, **i.e adopting a holistic lifecycle approach to waste management and decommissioning**,
- (ii) to enhance waste treatment processes & options, and
- (iii) to develop technologies and approaches to deliver decommissioning safer, cheaper, faster and sustainably.

Decommissioning and Dismantling



- Decommissioning strategies, end-points and evaluation
- Plant characterisation, Laser-scanning, 3D modelling,
- Digital planning options for decommissioning –
- Remote operations
- Improve automation of tools

Waste treatment and recycling



- Circular economy
- Lifecycle assessment
- In-situ waste and effluent treatment: Modular, mobile technology
- Challenging wastes
- Sort and segregation
- Technology demonstration

Decontamination & release



- Increase automation in decontamination tasks
- Improve techniques for decontamination
- Intelligent tools for decontamination characterization & control

Storage and Disposal requirements



- Reducing hazard
- Minimizing waste volumes
- Develop recycling options
- Improve disposal options for med /low active waste
- Digital tools

SNETP added value

- **SNETP is the only European wide association dedicated to collaborative nuclear research fostering** the creation of project ideas and **facilitating** their financial support (EC, national, industry, etc.)
 - All major European R&D organisations involved in nuclear are members of the association.
 - Various events are organised and online tools are deployed to facilitate collaboration of the community on new projects proposals. SNETP has supported discussions on approximately 300 project ideas, labelled about 80 of them. More than ½ got financial support to be launched.
- **The specific European Technology & Innovation Platform (ETIP) status provides an important visibility to SNETP and its members**
- **SNETP and its members contribute to the shaping of European energy policies**, by exchanging with peers on research priority topics, by producing reference documents (e.g. SRIA) on the state of R&D&I in Europe, by publishing position papers, etc.

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