



TANDEM

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Summary Analysis of Stakeholder Engagement

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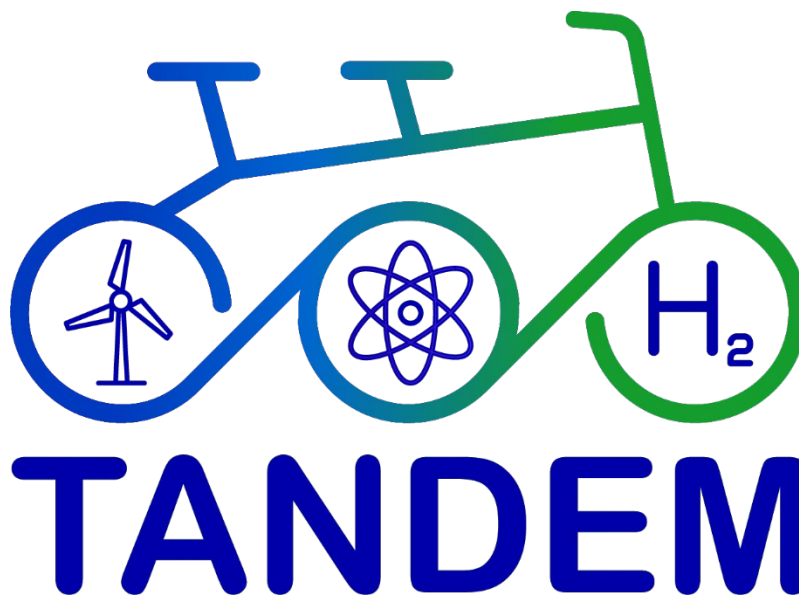
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Summary

Summary Analysis of Stakeholder Engagement

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D5.4 – Summary Analysis of Stakeholder Engagement

WP5 - Task 5.2

25 August 2025

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Table of Contents

1 Introduction..... 6

2 Communication & outreach 7

3 Stakeholder Outreach..... 8

3.1 Policy Briefs..... 8

3.2 E&T Webinars..... 8

3.3 Events 9

3.3.1 Joint ELSMOR-TANDEM Workshop 9

3.3.2 TANDEM Summer School 2024..... 9

3.3.3 1st TANDEM Technical Workshop 10

3.3.4 2nd TANDEM Technical Workshop 10

3.3.5 Final Stakeholder Workshop 10

3.4 Speaker opportunities..... 11

3.5 Publications..... 11

3.6 Other stakeholder engagement activities 11

4 Key Performance Indicators (KPIs) 13

5 Conclusion 15

List of Tables

Table 1. Key Performance Indicators..... 13



Abbreviations and Acronyms

Acronym	Description
IUG	Industrial User Group
KPIs	Key Performance Indicators
SAC	Scientific Advisory Committee
SMR	Small Modular Reactors
WP	Work Package



Executive Summary

An important aspect of the TANDEM project identified early on in the project is the timely and relevant outreach to stakeholders. Therefore, one of the key deliverables under Work Package 5 (WP5, Recommendations, stakeholder and citizen engagement, communication & dissemination) was the development of a Stakeholder Engagement Plan, with the goal of mapping and identify the various stakeholders to whom this project would be of interest (more information can be found under [Deliverable 5.3](#)).

This document provides a summary of all the interactions undertaken throughout the life of the project to raise awareness amongst stakeholders about the results achieved and activities undertaken.

Keywords

TANDEM, Stakeholders, Engagement, Communication, Dissemination, Events, News



1 Introduction

The goal of this document is to provide a summary of all the actions undertaken by the project to engage with the different stakeholders.



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2 Communication & outreach

A series of communication tools were developed in order to provide clear and memorable branding for the project (e.g. logo and templates) as well as tools through which news could be communicated (e.g. website and LinkedIn profile). Furthermore, all partners were encouraged to share any relevant project news through their channels. Examples of such actions are the nucleareurope newsletters (both the internal newsletter for members and the external one for EU stakeholders) which are sent out on a bi-monthly/monthly basis, as well as resharing of TANDEM LinkedIn posts via the nucleareurope LinkedIn profile and the SNETP newsletters.

Below is a list of all the articles published via both the TANDEM website and LinkedIn page:

- Kick-Off Meeting for TANDEM, 12-13 September 2022
- TANDEM Project Approved by European Commission
- Joint ELSMOR-TANDEM workshop to be held in Brussels on the 6th and 7th of December 2022
- TANDEM participates in joint workshop dedicated to SMRs
- Watch the KoM video now!
- TANDEM organises Scientific Advisory Committee kick-off meeting
- TANDEM organises first meeting of Industrial Users Group
- TANDEM project presented at both ICAPP Conference & SNETP Forum
- TANDEM presents specifications for development of safety and techno-economic analysis case studies
- TANDEM issues Stakeholder Engagement Plan
- TANDEM partners meet in Milan
- TANDEM participates in Technical Webinar on Nuclear Desalination
- TANDEM participates at the ENLIT Conference 2023
- TANDEM participates in joint meeting dedicated to hydrogen from nuclear
- TANDEM holds Industrial User Group meeting
- TANDEM presented at SNETP Forum
- TANDEM Summer School Kicks-Off
- TANDEM Summer School Comes to a Close
- TANDEM publishes deliverable relating to techno-economic and environmental results
- TANDEM Technical workshop kicks-off in Cadarache
- TANDEM Modelica Library now available!
- TANDEM joins international workshop on SMR safety
- TANDEM joins IAEA conference on Small Modular Reactors
- TANDEM Consortium meets in Brussels
- TANDEM Summer School & Cadarache Technical Workshop materials now available!
- TANDEM organises second citizen engagement workshop in Finland
- TANDEM meets with Industrial User Group



- TANDEM organises technical workshop on hybrid energy systems
- Recap video of the 2nd TANDEM Technical Workshop on Hybrid Energy Systems
- TANDEM organises stakeholder engagement workshop in Brussels
- TANDEM partners organise workshop dedicated to safety aspects of SMR integration within hybrid energy systems
- TANDEM project discussed at nucleareurope, Polish Presidency joint event
- TANDEM Final Conference

Full news articles can be found [here](#) on the project website.

3 Stakeholder Outreach

This section provides an overview of the actions undertaken in order to reach out to the relevant stakeholders.

3.1 Policy Briefs

One of the key outputs of the TANDEM project was the identification of which policies would need to be implemented, and how, in order to enable the integration of SMRs into hybrid energy systems. As a result, a series of policy briefs were produced, targeted primarily at policymakers (EU, national and regional level). These policy briefs were issued in June 2025 and presented at both the final project conference in July 2025, with draft versions also presented during an IAEA workshop on cogeneration held in April 2025. These policy briefs can be found [here](#) (Deliverable 5.1).

3.2 E&T Webinars

A series of webinars were organised as part of the TANDEM project (please refer to Deliverable 5.7: Communication & Dissemination Plan). Below is an overview of these webinars.

- Nuclear Desalinization (17 November 2023 - Gianfranco Caruso - 94 participants)
- Nuclear Batteries, a New Way in Energy (15 December 2023 - Jacopo Buongiorno - 81 participants)
- What must be known when using system codes for reactor design and safety analysis (19 april 2024 - Dominique Bestion - 100 participants)
- Economy of Scale vs Multiples: Bottom-up Cost Estimation of Nuclear Reactors (26 april 2024 - Koroush Shirvan - 62 participants)
- Technoeconomic Modelling & Simulation of Integrated Energy Systems (21 June 2024 - Elizabeth Worsham - 30 participants)
- Non-electric applications of nuclear energy (28 june 2024 - Francesco Ganda - 33 participants)



3.3 Events

A series of events were organised as part of the TANDEM project (please refer to Deliverable 5.7: Communication & Dissemination Plan). Below is an overview of these events.

3.3.1 Joint ELSMOR-TANDEM Workshop

On 6 & 7 December 2022, TANDEM joined forces with ELSMOR in the organisation of a workshop dedicated to Small Modular Reactors (SMRs). Over the course of two days, speakers from the European Commission, OECD Nuclear Energy Agency, nucleareurope, ASN (French Nuclear Safety Authority) and the Permanent Representation of Romania to the EU provided an overview on:

- EU research & initiatives in the field of SMRs
- Support in the field of SMR safety research
- The European SMR pre-partnership
- The roll out of SMRs in Romania.

The goals of the TANDEM project were also presented, alongside the conclusions of the ELSMOR project.

3.3.2 TANDEM Summer School 2024

From 24-28 June 2024, the TANDEM project organised a Summer School at the Politecnico di Milano in Italy. The Summer School was specifically designed for MSc and PhD students, PostDocs, young and experienced researchers and engineers with an interest in the potential role that hybrid energy systems including nuclear can play in the ongoing energy transition. The course included:

- An extensive overview of the advantages and challenges of concepts of nuclear reactors producing commodities beyond power supply
- Training in the use of tools and methodologies essential for designing and simulating the operation of hybrid energy systems with nuclear
- Quantitative skills necessary for assessing the impact of these systems within different contexts, ranging from a local scale to the global decarbonisation of the energy system.
- Stakeholder needs and Public engagement for SMRs

Thirty-four students participated in the TANDEM Summer School, with lecturers including representatives from CEA, VTT, EDF, TRACTEBEL, Ansaldo Nuclear, Ontario Power Generation, University of West Bohemia, Pilsen, Canadian Nuclear Safety Commission – Commission canadienne de sûreté nucléaire, Politecnico di Milano & the International Atomic Energy Agency (IAEA). In total, over 80 people participated in the summer school.



3.3.3 1st TANDEM Technical Workshop

On 18 and 19 September 2024, the first technical workshop was organised in Cadarache, France. This hybrid event was hosted by the French Alternatives Energies and Atomic Energy Commission (CEA). A total of 23 participants attended in person, while additional 35 participants registered for online participation. The list of participants included MSc and PhD students, PostDocs, young and experienced researchers and engineers. It provided an opportunity to learn more about the potential role that hybrid energy systems including Small Modular Reactors (SMRs) play in the ongoing energy transition. Topics covered during the workshop included non-electric applications of SMRs (such as district heating, hydrogen production, sea water desalination and synthetic fuel production) as well as the coupling of SMRs with other energy sources and energy storage systems in hybrid energy systems.

3.3.4 2nd TANDEM Technical Workshop

On 20 and 21 February 2025, the second technical workshop was organised in Pisa, Italy bringing together people from academia, research and industry. A total of 24 participants attended in person, while an additional 37 participants registered for online participation. The workshop provided attendees with a comprehensive understanding of the potential role that hybrid energy systems including Small Modular Reactors (SMRs) can play in the ongoing energy transition. It focused on SMR modelling and optimisation tools which can be used to assess hybrid energy systems integrating nuclear reactors, together with the coupling of SMRs with other energy sources and energy storage systems in hybrid energy systems.

3.3.5 Final Stakeholder Workshop

On 2 July 2025, the Final project conference was held in Brussels, Belgium. Whilst the majority of participants attended in person, online attendance was enabled for a limited number of people. Over 60 people attended the event, which was open to all stakeholders interested in the integration of SMRs within hybrid energy systems and the production of heat, electricity and hydrogen. The programme was designed to share the main outcomes of the project and to engage in a constructive dialogue with EU & national policy makers and regulators, as well as representatives from the broader energy sector, energy intensive industries, R&D community and NGOs. The event was split into two, with the morning focusing on the more policy-oriented topics and the afternoon delving into more technical aspects. This allowed participants to join the parts of the conference most relevant to them.



3.4 Speaker opportunities

As part of the mapping process a series of events were identified as being of relevance to the TANDEM project. Below is an overview of these events during which representatives presented the TANDEM project and/or took part in panel discussions:

- April 2023: 2023 International Congress on Advances in Nuclear Power Plants (ICAPP)
- May 2023: SNETP Forum
- November 2023: Consortium meeting of the GEMINI 4.0 Euratom project
- November 2023: ENLIT 2023
- January 2024: A joint meeting GIF/NEANH Task Force – GIF/VHTR HP PMB – IEA-H2 TCP/Task 44 – IAEA – OECD/NEA, hosted by the Idaho National Laboratory, in Idaho Falls, USA
- April 2024: SNETP Forum
- June 2024: Working Group on Hydrogen Value Chains (H2-VAL) at OECD/NEA
- October 2024: International workshop on SMR safety for a sustainable short-term deployment (organised by the SASPAM Euratom project)
- October 2024: IAEA conference on Small Modular Reactors
- October 2024: Technical Meeting on Recent Developments in Cogeneration Processes in Member States, organised by IAEA
- February 2025: The final conference of the NPHyCo Euratom project
- April 2025: Powering the Future: Policy & Siting Strategies for New Nuclear (event organised by nucleareurope in partnership with the Permanent Representation of the Republic of Poland to the EU and the Polish Ministry of Industry)
- May 2025: Webinar organised by the SNETP platform

3.5 Publications

Several articles outlining the results of the project were also project. Below is an overview of these articles:

- C. Vaglio-Gaudard et al, “The TANDEM Euratom project: context, objectives and workplan”, Proc. Int. Conf. ICAPP 2023, Gyeongju, South Korea, 2023.
- C. Vaglio-Gaudard et al, “The TANDEM Euratom project: context, objectives and workplan”, Nuclear Engineering and Technology, 993-1001, 2024.
- A. De Angelis et al, “Technology review and safety assessment of nuclear-renewable hybrid energy systems with light-water small modular reactors”, Proc. Int. Conf. ICONE31 Prague, Czech Republic, 2024.
- G.C. Masotti et al, “Dynamic modelling and optimisation of a Small Modular Reactor for electricity production and district heating in th Helsinki region”, Proc. Int. Conf. ICAPP 2024, Las Vegas, Nevada, USA, 2024.



- G.C. Masotti et al, “Simulation of flexible small modular reactor operation with a thermal energy storage system”, Proc. Int. IAEA Conf. on Small Modular Reactor and their applications, Vienna, Austria, 2024.
- G. Simonini et al, “Integrating Small Modular Reactors into hybrid energy systems: the TANDEM Modelica library”, Proc. Int. Conf. on Small Modular Reactors and their applications, IAEA, Vienna, Austria, 2024.
- C. Vaglio-Gaudard et al, “The TANDEM Euratom project to study the integration of SMRs into low-carbon hybrid energy systems: progress status at mid-term”, Proc. Int. IAEA Conf. on Small Modular Reactor and their applications, Vienna, Austria, 2024.
- C. Serin, M. Glückler, M. Pasquet, C. Vaglio-Gaudard, “Outcomes of three Euratom projects on cogeneration of electricity, heat and hydrogen”, EPJ. Nuclear Sci. Technol., 11, 12 (2025).
- C. Vaglio-Gaudard et al, “The Euratom TANDEM project to pave the way of nuclear SMR integration into hybrid energy systems contributing to net-zero emissions”, submitted to Sustainable Energy Technologies and Assessment.
- G. Masotti, S. Crevon, S. Lorenzi, M. Ricotti, “Optimising a Nuclear Hybrid Energy System’s dispatch strategy: coupling dynamic and techno-economic optimisation tools”, Proc. Int. Conf. on Advances in Nuclear Power Plants (ICAPP), Antibes, France (2025).
- J.P. Ikonen, T. Lindroos, P. Hiltunen, Feasibility of small modular reactors for decarbonizing district heating systems: a case study of the Helsinki metropolitan area, Nuclear Engineering and Design, 442, 114262, 2025.
- G. Masotti et al, “Modelling nuclear hybrid energy systems: objectives, architecture, and applications of the TANDEM Modelica library”, submitted to Sustainable Energy Technologies and Assessments

3.6 Other stakeholder engagement activities

Below is an overview of additional activities undertaken by the TANDEM project:

- Citizen Engagement: One of the Tasks conducted during the TANDEM project was citizen engagement. As part of this action, 2 workshops were held in Finland, one event was held in the Czech Republic and one workshop in Belgium. The results of this work culminated in Deliverable 5.8 which outline recommendations on how to best engage with citizens. The final deliverable can be found [here](#).
- Industrial User Group (IUG): An industrial User Group was set up under the project, bringing together representatives from other relevant EU project as well as potential downstream users. A summary of the activities undertaken with the IUG can be found under Deliverable 5.5.
- Scientific Advisory Committee (SAC): This committee was established to enable interactions with a number of international organisations in order to obtain feedback on the results of the project. More information on the conclusions of the SAC can be found under Deliverables [7.4](#) & 7.5.



4 Key Performance Indicators (KPIs)

The table below provides the final project achievements in terms of KPIs.

Table 1. Key Performance Indicators

ACTIVITY	DESCRIPTION	TARGET	STATUS
Public website	General project information, public deliverables, and announcement of relevant events.	7,500 visits per year by the end of the project	Since launch: <ul style="list-style-type: none"> 181 695 visitors 220 594 sessions 396 070 pages visited
Bi-annual inputs to SNETP E-newsletters	Inputs to the SNETP electronic newsletter to inform the project and SNETP community on the project activities and news.	At least 2 contributions to the SNETP newsletters yearly	8: Sept 2022, Dec 2022, Oct 2023, Dec 2023, January 2024, July 2024, Oct 2024, Dec 2024.
Social media: LinkedIn	To build an online community among nuclear and non-nuclear professionals and raise awareness among followers. To provide online stories on the project context, progress and main results/achievements.	At least 200 followers by the end of the project At least 30 posts by the end of the project	906 Followers +50 posts
External events	Participation of partners to selected events to disseminate the project's outcomes and engage citizens.	At least 10 events/seminars At least one paper accepted At least one oral presentation per year (3 total): Events organized by SNETP Forum	See above
Webinars	E&T webinars	5	5



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Technical Workshops	Technical workshop shaped to engineers and students involved in education and training activities.	2	2 completed. See more information above
Publications	Targeted peer-reviewed journals	At least 1 article accepted: Nuclear Engineering and Design journal International Journal of Energy Research (or Energies)	See above



5 Conclusion

Thanks to the work undertaken under the TANDEM project and the efforts of all partners, the results achieved were communicated to a broad audience at both national, EU and even international level. This enabled the project to engage with different stakeholders, obtain their feedback on the work to date and incorporate their recommendations in the final work.

As shown under the KPI's table, all dissemination activities were well achieved.

