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1 Introduction

Task 6.4 within WP6 (International organizations cooperation in building nuclear competences) was focused the development of actions with non-EU partners.

The transition towards sustainable, secure, and innovative energy systems requires a highly skilled workforce capable of supporting the development, deployment, operation, and regulation of advanced nuclear technologies. In this context, international cooperation plays an important role in strengthening nuclear education, training, and knowledge transfer across borders. The ENEN2plus project addresses these challenges by supporting and encouraging collaboration among universities, research organizations, industry stakeholders, regulatory authorities, and international organizations to enhance nuclear competences throughout Europe and beyond.

Within ENEN2plus, Work Package 6 (WP6) focuses on internationalization and stakeholder involvement, aiming to establish extra-EU partnerships and develop joint actions that contribute to the education and training of future nuclear professionals. Task 6.4, “ENEN–International Organizations Cooperation in Building Nuclear Competences,” has been implemented through the collaborative efforts of the National University of Science and Technology POLITEHNICA Bucharest (UNSTPB), the European Nuclear Education Network (ENEN), the Joint Research Centre (JRC), the University Network of Excellence in Nuclear Engineering (UNENE), the European Nuclear Society (ENS), with the collaboration of the IAEA and other international organisations.

Throughout the project implementation period (June 2022 – May 2026), a broad range of activities were undertaken to support competence building in emerging nuclear technologies, particularly Small Modular Reactors (SMRs), and various Nuclear Management areas. These actions included the development of specialized training programmes, organization of international workshops and schools, implementation of hands-on simulator-based learning activities, cooperation with the International Atomic Energy Agency (IAEA), engagement with nuclear industry leaders and regulatory authorities, and the creation of collaborative educational initiatives involving European and international partners.

The activities reported herein demonstrate the successful establishment of a collaborative framework that connects educational institutions, industry representatives, regulators, international organizations, and students. By facilitating knowledge exchange, promoting mobility, and developing innovative training opportunities, WP6 has

contributed significantly to strengthening the nuclear talent pipeline and preparing the next generation of experts required to support the safe, secure, and sustainable development of nuclear technologies in Europe and globally. This report presents the main achievements, outcomes, and impacts of these international cooperation actions implemented under ENEN2plus Task 6.4 during the entire reporting period.

2 Small Modular Reactors (SMRs) technology and training tools workshop

For the first action, significant efforts were undertaken to support the development of nuclear competences in the field of Small Modular Reactors (SMRs), with a particular focus on the NuScale technology and the organization and delivery of an international training workshop hosted by the National University of Science and Technology Politehnica Bucharest (UPB).

A major activity consisted of the development of the educational framework for a dedicated NuScale SMR training programme. The work focused on defining the structure, content, learning objectives, and duration of the training modules, ensuring a balanced combination of theoretical knowledge and practical simulator-based exercises. The training programme was designed to provide participants with a comprehensive understanding of NuScale SMR technology, including the design and operation of the Nuclear Power Module and the 12-module Nuclear Power Plant configuration, inherent and passive safety features, and the role of advanced reactors within future energy systems.

The course outline included an introduction to NuScale technology and safety concepts, familiarization with the Energy Exploration Center (E2 Center) simulator environment at UPB, practical hands-on simulator exercises covering normal and abnormal plant operations, and a final session dedicated to participant presentations, discussions, and feedback. Particular emphasis was placed on experiential learning through simulator-based training activities, allowing participants to gain practical insights into reactor operations, start-up and shutdown procedures, reactor trips, power manoeuvring, and response to operational malfunctions.

In parallel with the development of the training programme, extensive organizational and coordination activities were carried out for the international workshop entitled “**Small Modular Reactors (SMRs) Technology and Training Tools**”, held in Bucharest, Romania, from 2 to 6 September 2024. The workshop was organized in

collaboration with UPB and brought together leading experts from Europe, the United States, and Canada representing academia, industry, regulatory authorities, international organizations, and research institutions.

The preparatory work included drafting and submitting the application for group event funding through the ENEN2plus Mobility Portal, securing the participation of international lecturers and experts, coordinating with stakeholders, and developing the scientific and technical programme. Close collaboration was established with the Romanian nuclear regulatory authority (CNCAN), RoPower Nuclear, SN Nuclearelectrica, and other national stakeholders to ensure the relevance and quality of the training content and workshop agenda.

The final programme of the workshop was structured around five thematic sessions:

1. **Small Modular Reactor Technologies, Design and Fuel Cycle**, covering SMR concepts, technology developments, reactor designs, and fuel cycle considerations.
2. **Legislative and Regulatory Framework**, addressing licensing approaches, regulatory requirements, and international perspectives.
3. **Safety, Security and Safeguards**, focusing on key technical and regulatory aspects, supported by interactive discussions and group activities.
4. **Operation of a 12-Unit SMR-Based Nuclear Power Plant**, including practical training using the NuScale VOYGR-12 control room simulator hosted at the Energy Exploration Center.
5. **Desktop Simulator versus Full Engineering Simulator**, demonstrating the differences between educational simulators and engineering-grade simulation platforms through practical examples using the IAEA iPWR simulator.

The workshop announcement was disseminated through the nuclear-education.eu platform, which facilitated participant registration and application management. A total of 46 applications were received and evaluated by an international selection committee composed of representatives from UPB, Politecnico di Milano, and the University of West Bohemia (UWB) in Pilsen. Following the evaluation process, 20 participants were selected to attend the event. Applicants were informed of the outcomes through the platform and by formal acceptance notifications.

The workshop successfully gathered 28 expert speakers representing universities, industry, research organizations, regulatory authorities, professional associations, and international organizations. Participating institutions included Politehnica Bucharest, Politecnico di Milano, Ontario Tech University, Texas A&M University, the University of West Bohemia, RoPower Nuclear, SN Nuclearelectrica, the Institute for Nuclear Research,

Ansaldo Nucleare, CNCAN, the International Atomic Energy Agency (IAEA), ROMATOM, the Romania Energy Center (ROEC), ANUEN, and the European Nuclear Education Network (ENEN).

The educational activities combined lectures, expert presentations, interactive discussions, technical demonstrations, and practical exercises. Participants benefited from hands-on training using the NuScale VOYGR-12 Control Room Simulator, enabling them to gain operational experience with advanced SMR technology. The programme also included a technical visit to the Romanian regulatory authority's emergency response centre (CIPRIERN), providing additional exposure to nuclear safety and emergency preparedness practices.

Despite a limitation related to the seating capacity of the Energy Exploration Center simulator room, which restricted the number of participants that could be accommodated during practical training sessions, the event was successfully delivered without significant operational issues. All planned objectives were achieved within the scheduled timeframe, and the workshop provided a highly effective platform for strengthening SMR-related knowledge, fostering international collaboration, and supporting the education and training of future nuclear professionals.

Overall, the activities performed during the reporting period contributed substantially to the development of specialized educational resources and practical training opportunities in the field of advanced nuclear technologies. Through the creation of a structured NuScale SMR training programme and the successful delivery of a high-level international workshop, the project strengthened capacity-building efforts and enhanced the preparedness of students and young professionals for the deployment and operation of future SMR technologies.

3 THE HACKATHON “SUSTAINABLE ENERGY IN UKRAINE”

Another action consisted in development and implementation of a collaborative educational initiative aimed at strengthening nuclear competences among students through the organization of the international Hackathon **“Sustainable Energy in Ukraine.”** The activity was implemented as a joint cooperation between the European Nuclear Education Network and the European Engineering Learning Innovation and Science Alliance (EACEA/Erasmus+ project EELISA), bringing together universities, experts, and students from several European countries to address challenges related to sustainable energy development and post-war recovery in Ukraine.

The work began with the establishment of a common framework for cooperation between ENEN and EELISA, focusing on the development of nuclear-related knowledge and skills for young students. The initiative was designed to combine expert lectures, practical learning activities, mentorship, and collaborative problem-solving exercises. Particular attention was given to ensuring that participating students could benefit from the European Credit Transfer and Accumulation System (ECTS), thereby enhancing the academic recognition of their participation across European higher education institutions. In addition, the activity was aligned with the Sustainable Development Goals (SDGs), allowing students to receive EELISA credentials recognizing their contributions to sustainability-oriented projects.

A significant part of the preparatory work focused on defining the thematic scope of the hackathon and identifying areas where nuclear knowledge could contribute to Ukraine's future recovery and sustainable development. Potential topics included nuclear engineering applications, Small Modular Reactor (SMR) deployment, nuclear medicine infrastructure, dosimetry and radiation protection, nuclear physics, environmental sustainability, and workforce development. Extensive coordination activities were carried out to identify and engage experts from relevant disciplines and partner institutions who could support the event as lecturers, mentors, and evaluators.

The organizational activities also included the preparation and launch of the student application process. Dedicated registration procedures and application forms were developed, while the event was widely promoted through multiple communication channels, including ENEN dissemination platforms, university communication networks, international affairs offices, and professional social media channels. These activities ensured broad visibility of the initiative and encouraged participation from students across several European universities.

Following the application phase, a selection and evaluation process was conducted to identify suitable participants. In parallel, substantial efforts were dedicated to finalizing the hackathon agenda, coordinating the participation and mobility of teachers, mentors, and experts, and establishing the technical infrastructure required for both on-site and online participation. These preparatory actions ensured that the educational objectives and logistical arrangements were fully aligned before the event implementation.

The Hackathon **“Sustainable Energy in Ukraine”** was successfully held from 7 to 11 April 2025 at the National University for Science and Technology Politehnica Bucharest. The event brought together seven experts specializing in nuclear engineering, nuclear

physics, dosimetry, and radiation protection in medical applications. The experts represented several leading academic institutions, including Taras Shevchenko National University of Kyiv, Universidad Politécnica de Madrid, National University of Science and Technology Politehnica Bucharest, and Budapest University of Technology and Economics, with additional support and guidance provided by ENEN members.

The hackathon engaged thirteen students from universities across Europe, including participants from Kyiv, Madrid, Bucharest, Budapest, and Istanbul Technical University. Working in multidisciplinary and multinational teams, students were challenged to develop realistic and innovative solutions addressing key aspects of Ukraine's post-war recovery. The proposed solutions covered a broad range of topics, including the rehabilitation of nuclear medical infrastructure, development of future nuclear physics expertise, strengthening of the nuclear workforce, deployment of Small Modular Reactor technologies to support energy infrastructure recovery, and measures contributing to a cleaner and more sustainable environment.

The event successfully fostered collaboration at multiple levels, including expert-to-expert exchanges, student-to-student cooperation, and direct mentorship interactions between students and experienced professionals. Through lectures, mentoring sessions, teamwork activities, and solution-development exercises, participants gained practical experience in applying nuclear knowledge to real-world societal challenges while strengthening their technical, interdisciplinary, and international collaboration skills.

In addition to the successful implementation of the hackathon, follow-up discussions were initiated to further expand educational cooperation within the nuclear sector. A strategic meeting was organized involving the National University for Science and Technology Politehnica Bucharest, ENEN leadership, [Framatome Academy](#), and [SN Nuclearelectrica](#) to explore opportunities for collaboration within the Framatome Education programme. These discussions represented an important step toward strengthening links between academia, industry, and international nuclear education initiatives and creating new opportunities for competence development in the nuclear field.

Overall, the activities performed during the reporting period successfully achieved their objectives by creating an innovative educational environment that combined nuclear science and engineering expertise, international cooperation, sustainability-oriented problem solving, and student engagement. The initiative contributed to the development of future nuclear professionals while demonstrating the important role that education,

mentorship, and international collaboration can play in addressing complex societal and energy challenges.

4 Nuclear Energy Management School in Zagreb, Croatia

Within the framework of Work Package 6, Task 6.4, the European Nuclear Society (ENS) played an important role in the preparation, coordination, and successful implementation of the Nuclear Energy Management School (NEM School), held in Zagreb, Croatia, from 26 to 30 May 2025 (announcement in Picture 1, below). The activity was carried out through close cooperation between several international and national organizations, including the International Atomic Energy Agency (IAEA), European Nuclear Education Network (ENEN), European Nuclear Society-ENS Young Generation Network, Croatian Nuclear Society, and the European Nuclear Young Generation Forum (ENYGF).

The primary objective of the Nuclear Energy Management School was to strengthen the leadership, management, and strategic decision-making capabilities of young nuclear professionals by providing a multidisciplinary perspective on nuclear energy. The programme addressed technical, economic, managerial, regulatory, and societal aspects of nuclear technologies, enabling participants to gain a comprehensive understanding of the challenges and opportunities associated with the deployment and operation of nuclear energy systems.



Picture No. 1 - Nuclear Energy Management School, Zagreb, May 2025

ENS, working closely with ENS-YGN and other partner organizations, contributed extensively to both the planning and execution phases of the event. A major component of the work involved coordinating with the IAEA to establish the framework for cooperation, define organizational responsibilities, and ensure alignment of the programme with the educational objectives of all participating institutions. Considerable effort was also dedicated to the design and implementation of a communication and outreach campaign, developed jointly with ENYGF, to promote the event, disseminate the call for applications, and maximize visibility across European and international nuclear networks.

The call for applications generated significant interest within the global nuclear community, attracting 132 applications from young professionals. ENS actively participated in the review and evaluation of applications, collaborating with the IAEA to assess candidates and support the participant selection process. This activity ensured the identification of a diverse and highly qualified group of attendees representing different sectors and professional backgrounds within the nuclear field.

In parallel, ENS contributed to a wide range of organizational and logistical activities necessary for the successful delivery of the school. These included securing and coordinating the event venue, arranging catering services, organizing the technical visit programme, and supporting all practical aspects related to participant attendance. ENS also

facilitated communication with participants before and during the event, providing guidance, logistical information, and continuous support to ensure a smooth learning experience.

Additional efforts focused on the development of the educational programme itself. ENS supported the identification and engagement of local and international speakers, contributed to the refinement of the agenda, and assisted in ensuring a balanced programme that combined technical expertise, managerial knowledge, and interactive learning activities. During the event, ENS representatives provided on-site support to IAEA officials, lecturers, and participants, helping coordinate daily activities and ensuring the effective implementation of the programme. ENS also supported the preparation and distribution of participation certificates upon completion of the school.

The Nuclear Energy Management School brought together 37 young professionals from 14 countries, creating a highly international and multidisciplinary learning environment. Hosted by the Croatian Nuclear Society at the University of Zagreb's Faculty of Mechanical Engineering and Naval Architecture, the programme combined contributions from international experts, industry specialists, academics, and nuclear professionals. Through lectures, panel discussions, group exercises, and networking activities, participants were exposed to a broad range of perspectives on nuclear energy management and leadership.

The educational content covered the entire nuclear energy lifecycle and addressed key topics relevant to current and future nuclear programmes. Participants explored the role of nuclear energy in the energy transition, technological developments and reactor generations, nuclear safety and safeguards, risk management and stakeholder engagement, nuclear fuel cycle considerations, project management methodologies, leadership and knowledge management practices, and the economic dimensions of nuclear energy projects. The programme was specifically designed to complement technical expertise with managerial and strategic competences, reflecting the growing need for multidisciplinary skills within the nuclear sector.

A major highlight of the school was the technical visit to the Krško Nuclear Power Plant and its simulator training facilities. The visit provided participants with direct exposure to operational nuclear power plant environments, training methodologies, safety culture principles, and operational excellence practices. Through interaction with plant personnel and practical demonstrations at the simulator centre, participants gained valuable insights into the realities of nuclear facility operation and management.

The Nuclear Energy Management School successfully achieved its objectives by fostering a deeper understanding of nuclear energy management among emerging professionals and strengthening international cooperation within the nuclear community. The strong collaboration among ENS, IAEA, ENEN, HND, ENS-YGN, and ENYGF demonstrated the effectiveness of coordinated international efforts in developing the next generation of nuclear leaders.

Overall, the work performed contributed substantially to the advancement of nuclear education, leadership development, and professional networking. By supporting the successful organization and delivery of the Nuclear Energy Management School, ENS helped strengthen the competencies of young professionals, promote knowledge exchange across countries and institutions, and support the development of a skilled, internationally connected nuclear workforce capable of addressing the future challenges of the nuclear sector.

5 SMR School in Romania, May 2026

One of the last actions and efforts performed under Work Package 6 was dedicated to the preparation, organization, participant selection, and implementation of the international workshop **“SMR School in Romania”**, held in Bucharest, Romania, from 11 to 15 May 2026. The event was designed as an advanced education and training initiative targeting Master's students, PhD candidates, and young professionals pursuing studies, research, or professional activities in the field of nuclear engineering and advanced nuclear technologies.

The workshop was organized through the collaboration of key national and international stakeholders, including the International Atomic Energy Agency, the National Commission for Nuclear Activities Control, the Romanian nuclear utility SN Nuclearelectrica, and RoPower Nuclear, the company responsible for the deployment of NuScale Small Modular Reactor technology in Romania. The initiative aimed to strengthen competencies related to Small Modular Reactors (SMRs), advanced reactor technologies, regulatory aspects, operational practices, and workforce development, while providing participants with direct exposure to nuclear facilities and state-of-the-art training tools.

A substantial part of the work focused on the planning and organizational aspects of the event. This included the preparation and submission of the application for group event funding through the ENEN2plus Mobility Programme, which successfully enabled financial support for international participants through travel and accommodation grants. The

mobility scheme played an important role in facilitating the participation of students and young professionals from outside Romania and contributed to the international dimension of the event.

Extensive coordination activities were undertaken to identify, engage, and confirm the participation of lecturers and experts from academia, industry, regulatory organizations, and international institutions. These efforts resulted in the development of a multidisciplinary programme bringing together specialists with expertise in SMR technologies, reactor operations, regulation, fuel cycle activities, safety, and workforce development. Particular attention was given to ensuring that the programme combined theoretical learning with practical experience through simulator-based training and technical visits.

The workshop agenda was developed in close collaboration with SN Nuclearelectrica (SNN), CNCAN, RoPower Nuclear, the IAEA, and other Romanian stakeholders. Their active involvement ensured that the content reflected current developments in SMR deployment, regulatory preparedness, operational experience, and industry needs. The final programme covered a broad range of topics, including advances in SMR design and technology development, the IAEA technology roadmap for SMRs, high-temperature gas-cooled reactor technologies, international training initiatives, the Romanian SMR deployment project at Doicești, the status of nuclear power development in Ukraine, and the evolving regulatory framework for SMRs in Romania.

A major educational component of the event consisted of practical simulator-based training activities hosted at the Energy Exploration Center of the National University of Science and Technology Politehnica Bucharest. Participants received hands-on training using the NuScale VOYGR-12 Control Room Simulator, gaining practical experience in the operation of a multi-module SMR-based nuclear power plant. These activities provided valuable insights into reactor operations, plant management, and operational decision-making within advanced reactor environments.

The programme also incorporated several technical visits that enabled participants to gain direct exposure to operational nuclear facilities. Participants visited the full-scope simulator facilities of the Cernavodă Nuclear Power Plant, where they received presentations on CANDU reactor operation, operational experience, and future development plans from SN Nuclearelectrica specialists. An additional technical visit was organized to the nuclear fuel manufacturing facility in Mioveni, where participants were introduced to fuel fabrication processes, safety protocols, quality assurance practices, and

facility development activities. These visits complemented the classroom sessions by providing practical examples of nuclear technology deployment and operation within the Romanian nuclear sector.

Another important component of the workshop addressed human resource development through a dedicated session on attraction and retention of talent in the SMR sector. This activity facilitated discussions on workforce challenges, skills development needs, career opportunities, and strategies to ensure the availability of qualified personnel for future SMR deployment projects. The session encouraged interaction between students, young professionals, industry representatives, and experts, fostering networking opportunities and knowledge exchange.

The event announcement and application process were managed through the nuclear-education.eu platform, an interactive system developed to support the publication of educational opportunities and the management of participant applications. The platform facilitated transparent communication with applicants and enabled an efficient evaluation and selection process.

A total of 41 applications were received for participation in the workshop. Following the evaluation process, 19 participants were selected, including 15 international participants and 4 participants from Romania. The selection procedure was conducted in accordance with the eligibility criteria established for the event and focused on candidates' educational background, academic achievements, research activities, professional experience, publications, current positions, and relevance to the field of nuclear engineering. Priority was given to Master's students, PhD students, and early-career professionals who demonstrated a strong interest and potential for contributing to the future nuclear workforce.

Applicants were informed of the outcomes of the selection process through the nuclear-education.eu platform, and formal acceptance letters were provided to successful candidates to facilitate their participation and mobility arrangements.

Overall, the work performed resulted in the successful preparation and delivery of a high-level international training event dedicated to Small Modular Reactor technologies and advanced nuclear education. The combination of expert lectures, simulator-based training, technical visits, regulatory perspectives, and workforce development discussions provided participants with a comprehensive learning experience. The activity contributed significantly to the development of competencies in advanced nuclear technologies, strengthened collaboration among academic, industrial, and regulatory stakeholders, and

supported the preparation of the next generation of nuclear professionals required for the deployment and operation of future SMR projects in Europe and beyond.

6 Conclusions

The activities implemented under Work Package 6 – Task 6.4 of the EURATOM ENEN2plus project have successfully demonstrated the value of international cooperation in strengthening nuclear education, training, and competence development across Europe and beyond. Through strategic partnerships with international organizations, universities, research institutions, industry stakeholders, regulatory authorities, and professional networks, the project has established a robust framework for knowledge exchange and capacity building that directly supports the development of the next generation of nuclear professionals.

Over the course of the project, a diverse portfolio of educational and training actions was successfully designed and delivered, addressing both emerging technological developments and broader strategic challenges facing the nuclear sector. Particular emphasis was placed on Small Modular Reactor (SMR) technologies, nuclear leadership and management, sustainability, workforce development, and international collaboration. These activities provided participants with opportunities to acquire technical knowledge, practical skills, managerial competencies, and professional networks that are essential for the future deployment and operation of advanced nuclear technologies.

The **international workshop on “Small Modular Reactors (SMRs) Technology and Training Tools”** demonstrated the effectiveness of combining expert-led instruction with simulator-based learning. Through the development of dedicated training materials and hands-on experience using the NuScale VOYGR-12 simulator, participants gained valuable insights into advanced reactor technologies, safety, regulation, and plant operation. The strong engagement of international experts, industry representatives, regulators, and academic institutions highlighted the importance of multidisciplinary cooperation in preparing the workforce required for future SMR deployment.

The **Hackathon “Sustainable Energy in Ukraine”**, developed in collaboration with EELISA, showcased an innovative educational approach that integrated nuclear knowledge with societal challenges and sustainable development objectives. By bringing together students and experts from multiple countries and disciplines, the initiative fostered creativity, teamwork, mentorship, and problem-solving skills while demonstrating the potential contribution of nuclear technologies to post-war recovery, environmental

sustainability, healthcare, and energy security. The activity further strengthened links between nuclear education and broader European educational initiatives, creating new pathways for interdisciplinary learning and competence development.

The **Nuclear Energy Management School in Zagreb** represented a significant contribution to the development of leadership and management capabilities among young nuclear professionals. Through close collaboration between ENS, IAEA, ENEN, and other international partners, participants were exposed to the technical, economic, managerial, regulatory, and societal dimensions of nuclear energy. The programme highlighted the increasing importance of multidisciplinary competences and strategic thinking in ensuring the successful implementation and long-term sustainability of nuclear energy programmes worldwide.

The **SMR School in Romania** further consolidated the achievements of ENEN2plus by providing an advanced training platform focused on the deployment and operation of Small Modular Reactors. The integration of expert lectures, simulator-based exercises, technical visits to nuclear facilities, and discussions on workforce attraction and retention enabled participants to develop a comprehensive understanding of the technological, regulatory, operational, and human resource dimensions associated with SMR projects. The event also reinforced cooperation between academia, industry, regulators, and international organizations, creating a model for future competence-building initiatives in advanced nuclear technologies.

Collectively, the actions implemented under Task 6.4 have reached students, young professionals, academics, industry experts, and regulators from a broad range of countries and institutions. They have promoted mobility, facilitated the transfer of knowledge and best practices, encouraged interdisciplinary cooperation, and strengthened the visibility of nuclear education and training opportunities at the international level. The strong participation rates, high-quality contributions from international experts, and positive engagement of stakeholders demonstrate both the relevance and impact of these initiatives.

A particularly important achievement of the project has been the establishment and reinforcement of long-term collaborative relationships with international organizations such as the IAEA, EELISA, ENS, ENS-YGN, ENYGF, national nuclear societies, regulatory bodies, utilities, technology developers, and academic institutions worldwide. These partnerships provide a solid foundation for future educational and training activities and contribute to the creation of a globally connected nuclear knowledge community.

In conclusion, the activities carried out under ENEN2plus Work Package 6 have successfully fulfilled their objective of strengthening international cooperation in nuclear competence building. The project has delivered innovative educational programmes, expanded opportunities for international collaboration and mobility, enhanced awareness of advanced nuclear technologies, and contributed to the preparation of a skilled and adaptable workforce capable of supporting the safe, secure, and sustainable development of nuclear energy. The outcomes achieved provide a strong basis for future cooperation and demonstrate the strategic importance of continued investment in international nuclear education and training initiatives.

During the period of ENEN2Plus, UNENE has expanded its nuclear education and training program and collaboration activities in Canada, and opened discussions with EU organizations, to enable more detailed cooperation in the future.

In particular:

1. UNENE has expanded its M.Eng program in Nuclear Engineering, now with 92 students enrolled. UNENE is adding qualified instructors to the program, and therefore builds a capability to support EU university courses and programs through exchange of instructors.
2. UNENE has developed an initial range of non-degree professional development courses for early career or entry level nuclear employees, and is now expanding the range of courses. This material is suitable for collaboration with EU organizations, and will enable discussions regarding a common approach to professional certification.
3. UNENE has been an active participant in a competency development initiative led by EPRI, to develop nuclear educational roadmaps for Romania and Slovakia, during the first quarter of 2026, including an extensive workshop in Bucharest.
4. UNENE has developed collaborative relationships with EU member institutions, including an MOU with IZEN, in addition to the collaboration with Romanian organizations. UNENE is also active in educational cooperation with the OECD-NEA.