EEDA

EXPLORE ENERGY DIGITAL ACADEMY

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NEWSLETTER

IN THIS EDITION

FROM THE EDITOR

CONNECTING EFFORTS, CREATING MEANING

There is a moment in every evolving initiative when individual actions begin to reveal a larger pattern.

What once appeared as isolated efforts, such as mobilities, discussions, courses, recognitions, it is now that starts to align into something more intentional.

That moment is where EEDA stands today.

Across different regions and institutions, we are witnessing how education is no longer confined to classrooms or single experiences. It moves. It connects. It adapts. A lecture delivered in one country sparks reflection in another. A discussion held online opens pathways for future collaboration. A course designed for a specific need becomes part of a broader learning ecosystem. These are not isolated achievements, they are signals of a system learning how to evolve.

At the same time, there is a growing awareness that quality in education must also evolve. Not only in what is taught, but in how it is recognized, shared, and continuously improved. Frameworks are being revisited, not as administrative exercises, but as living structures that must reflect new realities: digital learning environments, flexible pathways, and global audiences. In this context, even small elements or symbols, processes, interactions, carry meaning because they shape how education is perceived and trusted.

Equally important is the human story behind this transformation. Progress does not happen through systems alone, but through people who choose to persist, to collaborate, and to contribute beyond their immediate environment. Whether through research, teaching, or engagement in international initiatives, these efforts remind us that education is, at its core, a shared responsibility.

What becomes clear is that EEDA is not defined by any single activity or outcome. It is defined by its ability to connect these efforts into a coherent direction. It acts as a space where ideas are not only exchanged, but strengthened, where experiences are not only shared, but amplified, where learning is not only delivered, but continuously reimagined.

The challenge ahead is not simply to continue doing more, but to continue doing better, more connected, more relevant, and more meaningful. Because the true value of what we are building is not measured by the number of activities completed, but by the lasting impact they create across institutions, communities, and future generations.

The work is already underway, therefore what remains is whether we are ready to match its ambition.

Round Table Discussion On Climate Change Mitigation And Carbon-Neutral Energy Storage

George Mikiashvili - Georgian Technical University

Georgian Technical University hosted an online round table within the EU-AGM project, focused on "**Climate Change Mitigation and Promotion of Eco-Friendly Practices – Carbon-Neutral Energy Storage**". The event brought together representatives from academia, public institutions, regulatory bodies, and professional associations to exchange perspectives on how education, policy, and innovation can support the green transition and sustainable energy systems.

Screenshot of the round table hosted by Georgian Technical University within the EU-AGM project

The discussion emphasized the need for stronger cooperation between universities, government, and industry in addressing environmental and energy challenges. Participants highlighted the critical role of higher education in preparing professionals with skills in circular economy, energy efficiency, renewable energy, and low-carbon development. At the same time, the importance of making education more practical, interdisciplinary, and aligned with real sector needs was underlined.

A key message was that sustainable energy education must go beyond updated curricula, incorporating applied learning, stakeholder engagement, and awareness-raising. Priority areas identified included the modernization of academic programmes, development of new teaching materials on circular economy and sustainability, and closer collaboration between academia and external partners. The role of research, innovation, and regulatory support in promoting environmentally responsible technologies was also stressed.

The round table opened perspectives for the next phase of the EEDA / EU-AGM concept. While no formal challenge scheme was defined, several thematic areas were identified to guide future activities, including carbon-neutral energy storage, energy efficiency, sustainable construction, low-emission transport, and green technologies. These themes can support student engagement initiatives, practical training, and stronger university–industry collaboration.

Additional follow-up directions include the development of short learning formats such as targeted training courses or micro-credentials aligned with labour market needs, as well as remote laboratory collaboration to enhance practical learning and international cooperation.

Overall, the GTU round table served as both a platform for dialogue and a step toward shaping future EU-AGM actions in sustainable energy education. Its outcomes will inform upcoming work on educational content, practical learning, stakeholder engagement, and collaborative formats aimed at strengthening long-term impact in the region.

Co-funded by the European Union

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Creating a solid bridge between the Technical University of Moldova and KTH Royal Institute of Technology, Sweden

Cristina Efremov - Technical University of Moldova

How can we build meaningful bridges between academic environments and cultural horizons—ones that inspire teachers to pursue excellence and guide students in transforming learning into growth and purpose? International academic mobility offers a powerful answer, and the ERASMUS+ programme continues to be one of the most effective instruments to turn this vision into reality.

A recent example is the mobility of Doctor and Lecturer Jeevan Jayasuriya from KTH Royal Institute of Technology, Sweden, one of Europe's leading technical universities, who visited the Technical University of Moldova from March 9 to 13, 2026. His activities took place within the Faculty of Design and the Faculty of Mechanical, Industrial and Transport Engineering.

The mission focused on teaching and research in the field of sustainable energy systems, fostering a dynamic international exchange of ideas and best practices within the course Sustainable Energy Technologies, led by Associate Professor Cristina Efremov. This discipline plays a key role in advancing a sustainable and resilient society, with emphasis on renewable energy, energy storage, and electric mobility.

Master's students from groups MET-251M and DI-251M highly valued the lectures and discussions, particularly on sustainability, systems thinking, and the role of engineers in sustainable development. The sessions explored innovative solutions and practices for a clean energy future.

Beyond teaching, the mobility enabled key collaborative activities:

- Exchange of experience: Meetings with faculty to explore future cooperation in mobility.
- Promoting innovation: Discussions on teaching methods, including KTH's Remote Solar Laboratory.
- Strengthening partnerships: Reinforcing collaboration to enhance higher education quality.
- Joint initiatives: Exploring opportunities for international projects and digital collaboration.

Such ERASMUS+ mobilities go beyond academic visits, they are catalysts for knowledge exchange, cultural enrichment, and institutional collaboration. They contribute to professional development, alignment with international standards, and the strengthening of academic networks.

Through these initiatives, institutions build resilient partnerships and prepare future generations of professionals to meet the challenges of a global society.

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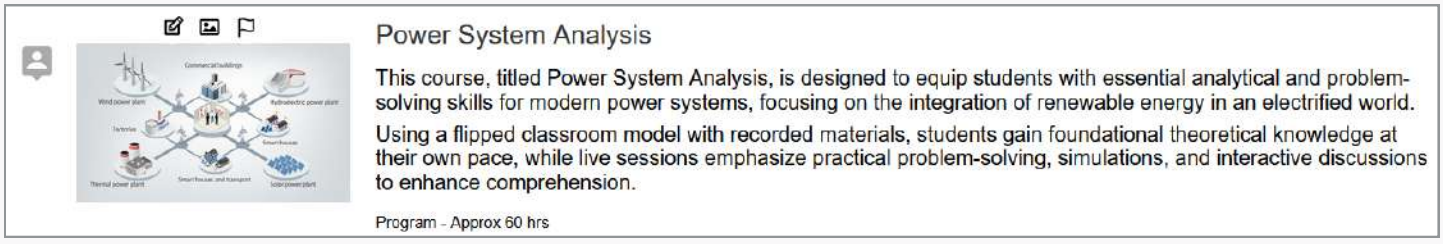
Power System Analysis Course in the EEDA LMS

Alex Junior Da Cunha Coelho - Universidad Politécnica de Madrid

A new course has been incorporated into the current catalogue of the Explore Energy Digital Academy (EEDA) platform: ***Power System Analysis***.

Developed with the objective of creating high-quality educational resources and making them accessible worldwide, this course contributes to strengthening the digital learning ecosystem of EEDA. The platform enables students from different regions to access the learning materials online and, in most cases, progress through the contents at their own pace.

Of course, the course remains open to suggestions for improvement in order to further enhance its pedagogical value and learning experience.



EEDA Module Badge: New Look For QIP 2.0

As part of the continuous evolution of the Explore Energy Digital Academy (EEDA), an updated design for the Quality Badge will be introduced under QIP Version 2.0. This new look aims to better reflect the values of excellence, innovation, and international collaboration that define EEDA's educational framework.

The redesigned badge is more than a visual update — it represents a renewed commitment to quality assurance in digital energy education, aligned with emerging trends such as micro-credentials, modular learning, and global accessibility.

To ensure the new design meets the expectations of the academic and professional community, EEDA is opening the process to feedback. Educators, researchers, and practitioners from around the world are warmly invited to review the proposed badge and contribute their insights, suggestions, and recommendations.

Your perspective can help shape a symbol that will represent quality and credibility across EEDA modules , courses and programmes worldwide.

If you are interested in contributing to this initiative, please contact the EEDA team at fransson.kth@outlook.com before April 10, 2026.

Together, we can build a stronger and more recognizable identity for quality in digital energy education.

Reflecting On The OWSD - Elsevier Foundation Award: A Journey In Energy Research And Education

Dr. Duleeka Sandamali Gunarathne - Senior Lecturer, Department of Chemical and Process Engineering, University of Moratuwa, Sri Lanka

Duleeka Gunarathne
UOM, Sri Lanka

Receiving the OWSD–Elsevier Foundation Award for Early-Career Women Scientists in the Developing World represented a significant milestone in my journey as a researcher and educator in renewable energy. Beyond personal recognition, this achievement reflected ongoing efforts to advance Sustainable Development Goal 7 (Affordable and Clean Energy) in Sri Lanka and beyond.

My path in energy research began after completing my undergraduate studies in Chemical and Process Engineering at the University of Moratuwa, when I joined the National Engineering Research and Development Centre of Sri Lanka as a Research Engineer (2008–2012).

There, I worked on anaerobic digestion and biomass gasification, laying the foundation for my focus on bioenergy.

At the same time, I pursued an MSc in Sustainable Energy Engineering (2009–2012) through KTH Royal Institute of Technology in distance mode. This early experience in digital learning reflects the evolution toward initiatives such as the Explore Energy Digital Academy, which now expands access to high-quality energy education worldwide.

A defining stage was my PhD at KTH (2012–2016), where I researched advanced biomass and waste gasification to replace fossil fuels in industrial applications. Combining experimental work with process modeling, this experience strengthened my ability to connect laboratory research with real-world implementation.

In 2016, I returned to Sri Lanka and joined the University of Moratuwa as a Senior Lecturer. Over the past decade, my research has focused on biomass thermochemical conversion, including torrefaction, process optimization, and fuel-switching studies, while expanding into biomass-derived materials for energy storage and advanced applications.

Along this journey, I secured several competitive research grants and received recognition through national awards and institutional distinctions. Equally meaningful has been mentoring students who have achieved success at national and international research competitions.

Beyond research, I have remained actively involved in energy education and capacity building. Through the Explore Energy Digital Academy, led by Prof. Torsten Fransson, I contributed as Project Manager to the development of Sri Lanka's first joint online MSc in Energy for Circular Economy under the Erasmus-funded EUSL Energy project. Launched in 2023, the programme integrates remote laboratories and challenge-based learning and is currently running successfully.

Working in a developing country, especially during periods of economic crisis, has required resilience and adaptability. Despite limited resources, I have continued to sustain research productivity, international collaboration, and contributions to both academia and policy.

Looking back, my journey reflects a continuous effort to connect research, education, and real-world impact. This award reinforces my commitment to advancing sustainable and accessible energy solutions for Sri Lanka and the wider Global South.

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The EEDA Community

EEDA is a collaborative educator-to-educator ecosystem that brings together Erasmus+ projects, universities, and individual educators committed to modernizing education in energy and sustainability.

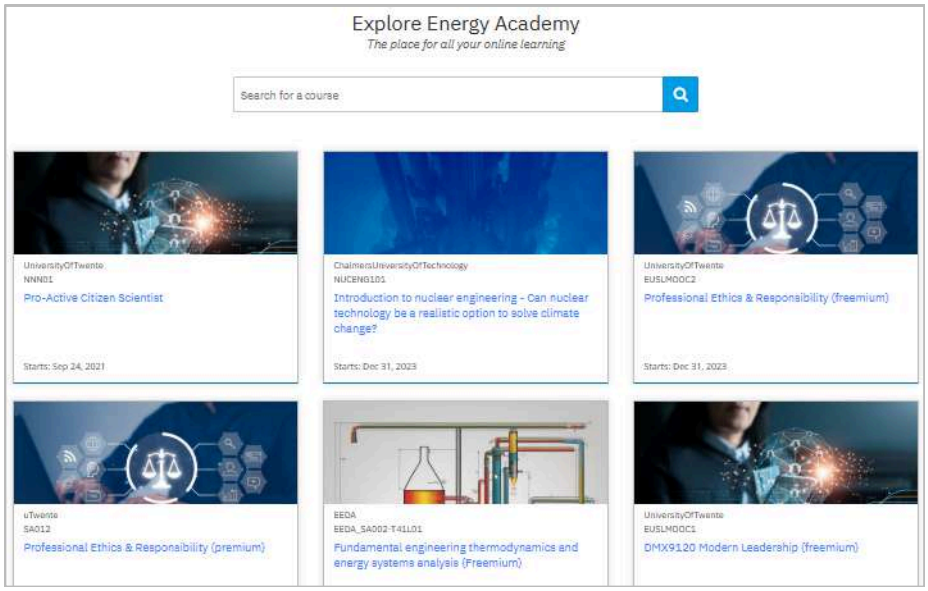
Beyond projects and institutions, EEDA is an open academic community where educators can engage, contribute, and collaborate at an individual level to generate lasting educational impact.

Supported by the European Union through Erasmus+ Capacity Building projects, which provide the foundation for collaboration and long-term impact within the EEDA community.

Interested in joining the EEDA Community?

Whether you are part of an Erasmus+ project, a university, or an individual educator, you can engage, contribute, and benefit from the **EEDA ecosystem** through collaboration, shared learning resources, and peer-to-peer exchange.

To create your free account, please visit:
EEDA Academy



Stay Connected with EEDA

Be part of a growing global community shaping the future of energy education through collaboration, learning, and shared expertise.

Learn. Share. Connect. Grow — together.

Follow us on:

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