



## EDucation for Digtalisation of Energy

Newsletter no.13 – January, February, March 2023

### Invitation for Registration to EDDIE database.

The consortium team has been working to develop a dynamized and elegant Stakeholder Database which will include all the relevant stakeholders for the EDDIE project.

The database aims to create synergies and provide relevant information for people interested in the energy sector, both for professional and educational matters.

Through the analysis of data previously gathered in the initial stakeholder database, the new and improved version of the EDDIE DATABASE has been developed in order to store information in a more organic way, best suited to be used everywhere when needed and easier to be managed.

Potential EDDIE members will be able to apply by filling in an application with the relevant information needed from them. Once the application is filled in, it will then have to be approved by the consortium members. This approval of the applications will ensure the quality and relevance of the members of the platform.

## REGISTRATION

### Welcome to EDDIE!

We are happy to have you with us! Please fill-in the form below and create your **EDDIE MEMBER** account on our website and become part of our Stakeholders list.

[EDDIE Home Page](#)

#### Create Account

##### Information about you

This section refers to your own profile. Unless explicitly specified, all data remain private

The platform is ready for the stakeholders to begin the applications, register their companies, research institutes, universities, VET providers, industry representatives etc.

The database has been launched through the EDDIE website and the registration process can begin by clicking on the button below.

## EDDIE Project is part of the CEDEFOP Skills Intelligence Webportal.

Recently EDDIE Project has been included in the European Centre for the Development of Vocational Training (CEDEFOP) Skills Intelligence Platform. The main objective is to involve blueprint projects in the Agency's work by contributing with specific information about the activities conducted, key findings and key outcomes related to skills and vocational education and training.

In 2015, CEDEFOP started powering the Skills Panorama, an interactive website offering skills intelligence on countries, occupations and sectors in the EU. After six years, the Skills Panorama journey as a standalone website has concluded and is now hosted in the Cedefop website under the new Skills intelligence tool.

Cedefop's goal is to bring together and meaningfully combine components of its research work on skills and labour markets into one overarching narrative to better meet the information needs of its stakeholders.



The screenshot displays the CEDEFOP Skills Intelligence Platform interface. The header includes the CEDEFOP logo and navigation links: Home, Themes, Publications and reports, Online tools, News and events, Countries, and About Cedefop. The main content area is titled "Education for Digitalisation of Energy – EDDIE" and features a yellow banner for "EU-FUNDED SECTORAL SKILLS PROJECTS". Below the title, it states "Co-funded by the Erasmus+ Programme of the European Union". The "Overview" section contains a table with the following details:

<b>Title</b>	Education for Digitalisation of Energy – EDDIE
<b>Abstract</b>	The EDDIE project aims at bringing together all the relevant stakeholders in the energy value chain such as industry, education and training providers, European organisations, recruiters, social partners, and public authorities towards developing a long-term strategy for the education in digitalisation of the European energy sector. The objective is to enable the matching between the current and future demand of skills necessary for the digitalisation of the energy sector and the supply of improved Vocational Education and Training (VET) systems and beyond.
<b>Status</b>	On-going
<b>Duration</b>	Start date: 1 January 2020 End Date: 31 December 2023
<b>Sector</b>	Education, energy sector including electricity, oil and gas, and heating and cooling.

On the right side of the overview, there are links for Overview, Details, and Links.



**More details**

Understanding skill trends and developments at sectoral level is critical in designing suitable approaches to support stakeholders overcome challenges and opportunities in skills anticipation and formation.

EU-funded initiatives, such as those under the Blueprints for sectoral cooperation on skills, in this case EDDIE Project, bring together sectoral stakeholders to produce sectoral skills intelligence, develop sectoral skills strategies and education and training solutions.

Currently, on the EU-funded sectoral skills platform EDDIE can be found between other 12 projects.

## EDDIE Project releases the MOOC “Energy management for real estate - Fundamentals, methods and digital tools”.

The MOOC (Massive Open Online Course) "Energy management for real estate - Fundamentals, methods and digital tools" is officially online!

The course is part of the Pilot Activities organized by the EDDIE Project, that aim to test the Blueprint Strategy for the digitization of the European energy system proposed by the project. The MOOC focuses on the role of the Energy Manager, one of the profiles that the EDDIE project has identified as key figures for the development of the future energy landscape in Europe.



The course, aimed primarily at professionals in the sector, will provide the information needed to:

- verify consumption, through ad hoc audits or, if available, through digital models or reports produced by remote management;
- optimize consumption through proper regulation of systems and their energy-appropriate use;
- promote energy-conscious behavior by employees and/or occupants of the facility;
- propose improvement investments, possibly by improving production processes or performance of related services.

The course is delivered online through the POK-Polimi Open Knowledge platform of the Politecnico di Milano (Italy) and is available free of charge by clicking the More details button.

**More details**

## New deliverables and summaries for the pilot activities published on EDDIE website.

Blueprint: Roll out and action plan	
<b>D6.1</b> Detailed development plan for the field tests. Due Date: M30 This report will define all the details for the implementation envisioned in T3.2. The report will not only define the specificity of the actions but will also identify measures to identify the impact of the proposed actions and their coherence with the EDDIE.	<a href="#">Deliverable D6.1</a> <a href="#">Summary of D6.1 - Available soon</a>
<b>D6.2</b> Intermediate report on the field tests. Due Date: M36 This report will catch the main result of the first phase of deployment of the field test. Main strength and weaknesses of the implemented actions will be identified and used as guidelines for the second phase of the test.	<a href="#">Deliverable D6.2</a> <a href="#">Summary of D6.2 - Available soon</a>
<b>D6.3</b> Final report on the field test Aachen Due Date: M48 This report complements D6.2 and presents the updates and changes in the second phase of the test.	<a href="#">Deliverable D6.3</a> <a href="#">Summary of D6.3 - Available soon</a>
<b>D6.4</b> First presentation of E-learning platforms and pilot activities. Due Date: M36 An e-learning platform will be developed, which will act as an online resource centre, to support the pilots. It will include all the developed tools, material, webinars and courses in a user-friendly environment. Access to the material will be free of charge, during the educational period will be made available. This platform will be in particular tested in the second phase of the field test Aachen for a first check with the first users.	<a href="#">Deliverable D6.4</a> <a href="#">Summary of D6.4 - Available soon</a>

EDDIE Consortium published on the project website summaries for the deliverables completed so far and approved by the European Commission with the intention to ease the user access to the main results of the work done. The deliverables presented below now have available short summaries on the EDDIE website.

- D6.1 – Detailed development plan for the field test Aachen.
- D6.2 – Intermediate report on the field test Aachen.
- D6.4 – First version of the learning platform.

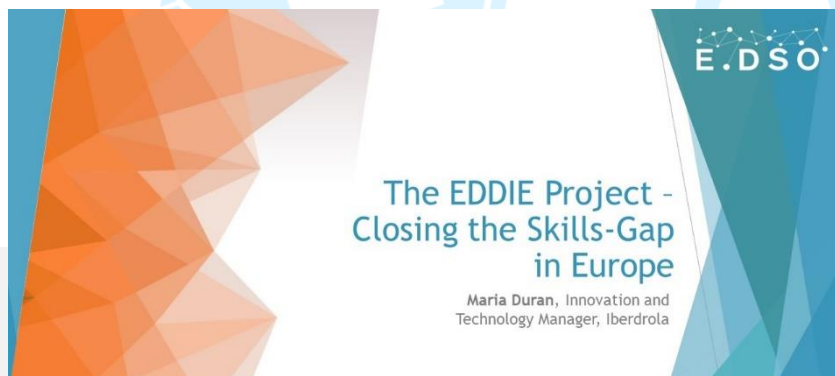
The deliverables are part of the work conducted in the central pilot in the city of Aachen where the Blueprint Strategy for the Digitalization of Energy will be fully deployed addressing all the considered EQF levels and stakeholders.

The city of Aachen, as pilot site, entails an ideal scenario to carry out the project deployment due to its wide offer in terms of education: High level Education, Vocational, High School and industrial education.

[More details](#)

## EDDIE at the “4<sup>th</sup> E.DSO Projects in the Spotlight Event”.

On March 29<sup>th</sup>, Maria Duran, Innovation and Technology Manager at Iberdrola, represented EDDIE project at the 4<sup>th</sup> E.DSO Projects in the Spotlight Event. The event tackled challenges to cross-sector integration to achieve the FitFor55 and REPowerEU targets. In this context, to address emerging skills gaps and needs, the EDDIE project presented its first operational objective: to define a methodology to identify skill gaps for the digitalisation of the Energy sector by developing a common approach for assessing the current situation and anticipating future needs. As a results, EDDIE will help set the ground for a new generation of technicians, engineers and researchers who are able to use, develop, improve, and deploy new energy technologies.



[More details](#)

## EDDIE Project at the “16<sup>th</sup> ETIP SNET Regional Workshop”.

On the 28<sup>th</sup> of February 2023, representatives of EDDIE project participated to the Western Region session of the 16<sup>th</sup> ETIP SNET Regional Workshop. European Technology & Innovation Platforms (ETIPs) have been created by the EC in the framework of the new Integrated Roadmap Strategic Energy Technology Plan (SET Plan) by bringing together a multitude of stakeholders and experts from the energy sector.

The main purpose of this event was to present the most recent information related to the national and regional research, development and innovation (RDI) and how and if these are aligned to the RDI activities on the EU level. As such, participants from the of national and regional funding and support programmes from Western Europe have discussed together with the EC, national funding authorities and ministries about RDI priorities and next funding programmes.



EDDIE Project has been represented by Miguel Ángel Sánchez Fornié, from University of Comillas, who talk about the project's objectives, current activities, outcomes and future plans. Mr. Sanchez, also addressed the EC Digital Action Plan for Energy and how the project is planning to contribute, especially by providing at a short term the structure to establish the large-scale partnership in accordance with the Pact for skills principles, namely:

- Best examples of other Blueprints for sectorial cooperation on skills and creating large-scale partnerships;
- Guidance handbook that introduces and set up skills partnerships.



The workshop had been for EDDIE an unique opportunity to learn about other research and innovation projects around Europe and contribute to the identification of research and innovation gaps, challenges and priorities.

**More details**



## EDDIE Project at the “8th Energy Storage Summit”.

EDDIE Project participated in the first part of the year 2023 at 8<sup>th</sup> Energy Storage Summit event, organized by European Association for Storage of Energy (EASE) held between 22 February - 23 February 2023 in London, UK. The 8<sup>th</sup> Energy Storage Summit, Europe is the largest event on energy storage innovation, investment and policy since challenges such as the growing urgency for market redesign, supply chain constraints, technology risk, etc. create uncertainty for energy storage business models and are subsequently holding up project deployment.

As Europe grapples with an energy security crisis, net-zero targets and increasing amounts of intermittent renewable generation, energy storage continues to play an essential role in the power sector. The 8<sup>th</sup> edition in 2023 expanded the growing opportunities for energy storage across the renewable sector.

This year, Europe's leading investors, policymakers, developers, utilities, energy buyers and service guided the market on how to maximize storage revenues and reduce energy costs.

[More details](#)

## EDDIE participated at the “World Sustainable Energy Days 2023”.

In March 2022 representatives of EDDIE project participated at the World Sustainable Energy Days 2023 Event which is an annual conference and a leading event on the energy transition and climate neutrality with over 650 participants from over 60 countries.



In 2023, the World Sustainable Energy Days showed the critical role of the energy transition in securing our clean energy future and concrete policies, technologies and markets to get us there.

Considering the price crisis, multiplying signs of climate change, and threats to energy security urge us to act like never before and the REPowerEU Plan reflects this urgency and provides new momentum for the energy transition.

EDDIE supports EC plans and contributes with its outcomes to the energy transition.

[More details](#)

## EDDIE Project at the “Power to Buildings Hub Peer Exchange”.

EDDIE Project participated at the Power to Buildings Hub Peer Exchange organized by EURELECTRIC and held on 28<sup>th</sup> February 2023, in Paris, France.

The main topics of the event has been related to how to identify optimal locations for solar PV installations in an urban zone, the role DSOs play in facilitating energy communities and behavioural demand response. This information has been presented by companies like Schneider Electric, Urbio, Oracle and Enel X. EDDIE representatives heard about the latest smart and sustainable technologies, devices and solutions for decarbonising buildings in Europe in order to identify the new skills that will be required for such activities.



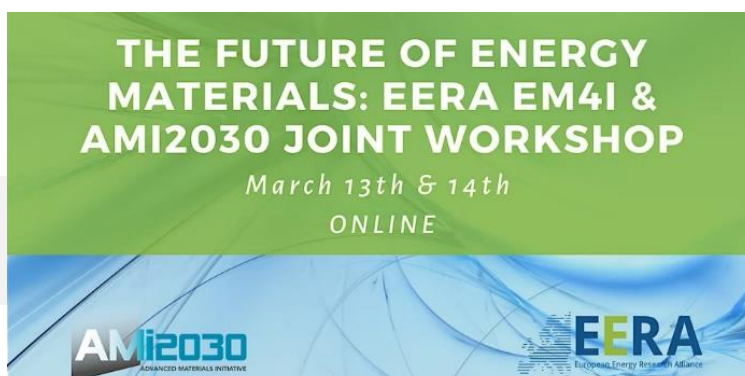
[More details](#)

## EDDIE Project at “The Future of Energy Materials: EERA EM4I and AMI2030 Joint Workshop”.

Eddie representatives participated on 13<sup>th</sup> of March 2023 at the Future of Energy Materials: EERA EM4I and AMI2030 Workshop, jointly organised online by The European Energy Research Alliance (EERA), EM4I and AMI2030. This event aimed at ensuring that materials research is addressed in Europe in a comprehensive and consistent way to promote innovation in several fields, including energy. Considering the net-zero objective, is important to bring materials science to the forefront of Europe’s energy research landscape.

EDDIE Project will stay connected to this research areas and will analyze the upcoming white paper on materials for innovation as result of an expert panel discussion that has been held on 13 and 14 March.

[More details](#)



## EDDIE Project at “Online Info Session: Alliances for Innovation 2023”.

EDDIE Project participated at Online Info Session: Alliances for Innovation 2023 Event, organized by European Commission and the European Education and Culture Executive Agency (EACEA) held on 9<sup>th</sup> March 2023, via web streaming.

The aim of the event was to present the action, the policy priorities, the application procedure, the eligibility and award criteria and the financial aspects of funding. The objective of the action Alliances for Innovation **is** to strengthen cooperation and flow of knowledge among higher education, vocational education and training (both initial and continuous), and the broader socio-economic environment, including research. In particular, the event aimed to boost innovation by supporting projects with a specific focus on talent and skills development. Digital competences have become increasingly important in all job profiles across the entire labour market.

In addition, the transition to a circular and greener economy needs to be underpinned by changes to qualifications and national education and training curricula to meet emerging professional needs for green skills and sustainable development.

[More details](#)



## EDDIE participated at the “Joint ENTSO-E & RGI Conference on Adaptation & Resilience”.

On the 14<sup>th</sup> of March 2023, representatives of EDDIE project participated at the Joint ENTSO-E & RGI Conference on Adaptation & Resilience - Ensuring the energy transition is built on resilient infrastructure. How can our energy system adapt to the impacts of climate change? ENTSO-E and the Renewable Energy Grid Initiative (RGI) organised this online conference to help answering these questions and kick-start a discussion on the necessary steps to prepare the energy system for the future.



Experts on climate change, energy infrastructure and policies discussed the actions required to adjust to the realities of climate change. In particular, the experts underlined the following important topics: the key elements we need to consider when planning a robust and resilient renewable energy system, and what is needed to successfully embed adaptation needs of energy infrastructure into modelling and planning processes.

[More details](#)



## EDDIE Project at the “Fostering EU Clean Energy transition in Romania, SUPEERA/PANTERA workshop”.

EDDIE Project participated at Fostering EU Clean Energy transition in Romania workshop organized by PANTERA project in collaboration with SUPEERA project and held on 23<sup>rd</sup> March 2023, in Bucharest, Romania.

The two projects joined forces with the objective to enhance collaboration in R&I activities in Romania, facilitate knowledge exchange and showcase best practices of how international networking and cooperation between national stakeholders and key international associations and organizations can be beneficial for establishing long-lasting interactions and fostering joint R&I activities.

EDDIE Project benefited from a detailed overview of the European policies, strategies, EU funding programmes and collaboration opportunities that can be translated on the long-run in partnerships between EDDIE and similar projects.



[More details](#)

## EDDIE at “EVision 2023- Power Sector Accelerating e-mobility”.

Eddie representatives participated on 21-22 of March 2023 at the EVision 2023- Power Sector Accelerating e-mobility event organised by Eurelectric in collaboration with EY. Considering that transport is at the centre of Europe's quest for energy independence since it is one of the sectors most reliant on fossil fuels, clean and renewable electrification is today the fastest way to accelerate transport's decarbonisation.

This year, the event analysed a series of dependencies (critical minerals and metals, low clean power generation, grid resiliency, EV infrastructure, consumer acceptance) and tried to identify critical solutions.

Among the subjects address during the event was also the way in which workforce shortages and upskilling needs from the transport sector can be tackled.

[More details](#)



## EDDIE Project participated in “Energy Conversion and Storage Days”.

EDDIE Project participated at the workshops hold by the StoRIES project during “Energy Conversion and Storage Days”. The three-day event had been organized by the Karlsruhe Institute of Technology (KIT) in Karlsruhe from 21 to 23 March 2023. The topics of the workshops have been related to the deployment of cost-competitive, highly efficient materials for renewable energy conversion and storage technologies; preliminary results from the StoRIES project on the development of reference cases and key performance indicators for application-oriented benchmarking of hybrid storage; current and future applications for hybrid energy storage. During the workshops, EDDIE representatives met with experts from the European Commission, industry, and research.



[More details](#)

## EDDIE Project at “K.EY 2023 – The Renewable Energy EXPO”.

Eddie representatives participated between 22-24 March 2023 at K.EY 2023 – The Renewable Energy EXPO. K.EY provides a comprehensive showcase for the technology, integrated solutions and services that can guide the energy transition towards a carbon-neutral economy. It is also a cultural, scientific and technical hub and community catalyst able to connect stakeholders, players and leaders in the renewable energy sector, giving them an opportunity to communicate with each other: not just a business platform, but also and above all an opportunity for education and information on the subject of energy and the acceleration of the energy transition process already underway.



[More details](#)

## EDDIE Project updates the public deliverables list and urges you to read the latest outcomes of the consortium's work so far.

EDDIE Consortium successfully completed by the end of March 2023 the following deliverables:

**D2.1 – Current challenges in the energy sector and state of the art in education/training** – It elaborates on the contemporary technical, social and economic challenges in the energy sector. An analysis of the state of the art in education and training in the energy sector has been performed.

**D2.2 – Current and future skill needs in the Energy Sector** – It identifies current and future skill gaps for the digitalisation of the energy sector. First, the current skills of professionals and students has been analysed.

**D3.1 – Identification of stakeholders in each area** – Desk research to identify institutions, companies, organisations and all other relevant interest groups to evaluate their influence and interest in the energy transformation process.

**D3.2 – Stakeholders' Map in order of importance within each area** – Once identified and evaluated the analysis can be represented with a visual map, presented as a grid or matrix that show influence and interest.

**D3.3 – Strategic Network** – Strategic partners and stakeholders' network definition for the BSDE implementation.

**D4.1 – Identification and assessment of VET systems for delivery of skills and professional knowledge to address digitalization.** – A consolidated assessment of the skill delivery methods, policies and legal framework of operation of VET and beyond systems, and a set of requirements on introductory and professional knowledge and skills to address at each age level digitisation of energy.

**D4.2 – Report on Best Practice for VET education** – Presentation of good practices developed and implemented in VET provision in the field of energy efficiency and transition.

**D4.3 – Report on Best Practice for University education** – One of a triplet of "technical reports" on Best Practice for higher education, and in particular focuses on Best Practice for university.

**D4.4 – Report on Best Practice for continuous learning** - Presentation of good practices developed and implemented in lifelong learning provision in the field of energy transition.

**D5.1 – Specification, conceptual design and application to the partial results compiled from other work packages.** – A consolidated view of the skill gaps, the stakeholders and the current policies and requirements, assessing and stressing the ones with the highest usefulness to define the BSDE and providing an initial draft view on how this can be applied to build the blueprint.

**D5.2 – Intermediate draft templates for educational programs.** – The pre-design of education programmes, initial and continuous training activities.

**D5.3 – Final education programmes and training activities** – The main results of the works in education programmes, initial & continuous training activities, together with relative impact in the correction of skill gaps.

**D6.1 – Detailed development plan for the field tests.** – It defines the specificity of the actions, but also identifies measures to identify the impact of the proposed actions and their coherence with the BSDE.

**D6.2 – Intermediate report on the field test Aachen** – The main result of the first phase of deployment of the field test are presented. Main strengths & weaknesses are identified as guidelines for the second phase of the test.

**D6.4 – E-Learning Platforms V1** – An e-learning platform is developed, which act as an online resource centre, to support the pilots. It includes all the developed tools, material, webinars, courses. Access is free of charge.

**D7.1 – Project website** – Presents the structure of the EDDIE's website in order to create an interactive collaboration among the partners, stakeholders and policy makers.

**D7.2 – Dissemination and Exploitation plan** – It provides systematic information on raising awareness about the project's activities, goals and results. It will describe the target audiences, key messages, outreach activities and communication channels. The purpose is to report on all initial communication & marketing activities of the project.

**D7.3 – Report on fostering support for the project results** – It includes an assessment of interactions between stakeholders and the synergies that is created within the project, going to a conceptualization of how each category of stakeholders will be able to support the transition to digitization within the energy sector. It provides also an assessment of the measures taken as a preparation for the exploitation activities of the project results.

**D8.4 – Blueprint yearly progress monitoring 3** – Periodical progress of the project was needed and is reflected on annual reports (deadlines, targets, indicators, status (achievement/ progress made). Suitable KPIs are defined to monitor the project evolution and objectives' achievement during the project and after its completion.

In order to read them please access the EDDIE website by clicking on the button below.

**DELIVERABLES**

## EDDIE Project at the 2<sup>nd</sup> International workshop on "Open Source Modelling and Simulation of Energy Systems" (OSMSES 2023).

EDDIE Representatives has been present at the 2<sup>nd</sup> International workshop on "Open Source Modelling and Simulation of Energy Systems" (OSMSES 2023) which took place in Aachen from 27 to 29 March 2023.

In cooperation with the ERIGrid 2.0 Project and the IEEE PES Task Force on Innovative Teaching Methods for Modern Power and Energy Systems, NTUA partner co-organised the tutorial: "Emerging skill needs and training tools for professionals and researchers in the field of smart energy systems" and presented the EDDIE's results related to this topic.

### 2<sup>nd</sup> International workshop on OPEN SOURCE MODELLING AND SIMULATION OF ENERGY SYSTEMS

The main objective of the workshop was to foster discussion on simulation methods as a tool to manage the complexity of modern energy systems and to define effective solutions for planning, designing and operating these systems, among experts from academia, industry and utilities. The main topics on which the workshop provided a qualified forum for contributions to the advancement of knowledge include subjects such as electromagnetic transient simulation, dynamic phasor simulation, electromechanical transient simulation, load flow – energy systems analysis, real-time simulation, equation based modelling, building simulation, gas grids simulation, open models and metamodeling, visualization.



[More details](#)

## EDDIE project consortium

