



Education for Digitalisation of Energy

Newsletter no.8 – October, November, December 2021

Description and Benefits

EDDIE is a four-year (starting January 2020) Erasmus+ European Union funded collaborative project creating a Sector Skill Alliance (SSA) to develop a long-driven Blueprint for the digitalization of the European Energy sector. The Consortium is coordinated by COMILLAS and brings together 16 partners from 10 EU Countries.

The challenge of the project is to develop a long-driven Blueprint for the digitalization of the European Energy sector to enable the matching between the current and future demand of skills necessary for the digitalization of the Energy sector and the supply of improved Vocational Education and Training (VET) systems and beyond.

Digital Energy Education

Briefly

Title: Education for Digitalisation of Energy

Type of action: Sector Skill Alliance

Topic: EPP-1-2019-ES-EPPKA2-SSA-B

Grant Number: 612398

Total Cost: € 3,995,690.00

EC Contribution: € 3,995,690.00

Start Date: 01/01/2020

End date: 31/12/2023

Duration: 48 months

Project Web Site: www.eddie-erasmus.eu

Key Words: Digitalization, Energy, Education, SSA, VET

Project Coordinator: COMILLAS

With the support of the
Erasmus+ Programme
of the European Union



Project Objectives

1. **Develop** a European Sectoral Skills Alliance
2. **Implement** improved/new qualifications in national VET and beyond systems.
3. **Fostering** the collaboration and mobility among European training centres, universities, and industries.
4. **Provide** a sustainable framework that allows education providers to define and update educational programs responding to industry changes.
5. **Improve** the attractiveness of the Energy sector as a career choice

Concept and approach

The objective of the project to develop a Blueprint Strategy for the Digitalisation of the Energy value chain (BSDE), will be based on the sustainable cooperation between key industry stakeholders, education and training providers, social partners and public authorities. The BSDE is an industry-driven strategy that will meet and anticipate the skills' demands for the sustainable growth and digitalisation for the European Energy sector. This new strategic approach will reinforce the competitiveness of the European Energy Sector in an efficient and innovative way by creating a highly skilled workforce.

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EDDIE at the "ENLIT EUROPE 2021"

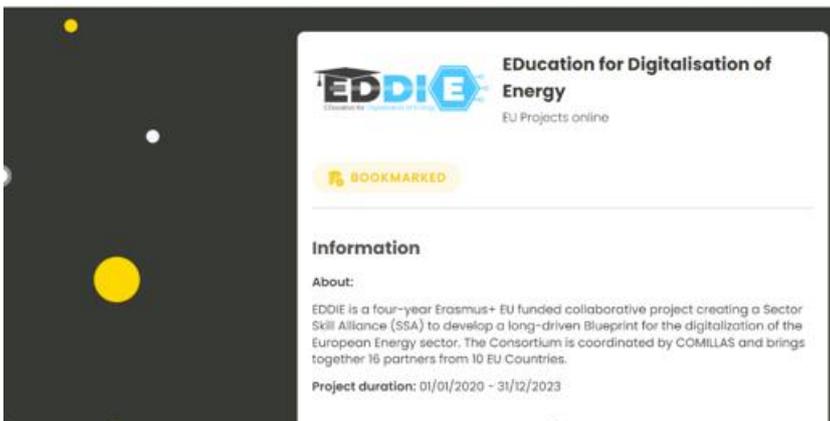
Enlit is a series of energy events and a community that for 365-days a year will collaborate and innovate to solve the most pressing energy-related issues. At the European edition, the Enlit community participated on the online platform and In-Person, in Milan from 30th of November through to 2nd of December, to meet and inspire each other and to develop their discussions and actions to take steps forward in the energy transition. Enlit Europe is the new unifying brand for European Utility Week and POWERGEN Europe.

EDDIE Project was part of the EU Project Zone in the Online Environment, within Enlit 365 Platform and Community, together with other successful projects. This was an important opportunity to get in touch with the consortium, stakeholders and community members. EDDIE Project was also part of the EU Project Zone in Milan.



CRE representatives interacted with stakeholders and presented the overview, the objectives and mission of the EDDIE Project.

Enlit Europe offers a dedicated platform to numerous EU Funded Projects contributing to the digitalisation of energy. During the Exhibition within the EU Projects Zone, dedicated presentations were showed and debated with best thought-leaders, innovators in the energy sector and beyond representing power generators, utilities, grid operators, energy companies, retailers, energy markets and energy traders to seize current opportunities, spotlight future ones, and inspire the next generation to participate in the journey of energy sector.



[More details](#)

EDDIE Partner E.DSO visited Iberdrola Campus.

In October 2021 E.DSO partner visited Iberdrola Innovation and Training Campus and meet with part of the Comilla's team.

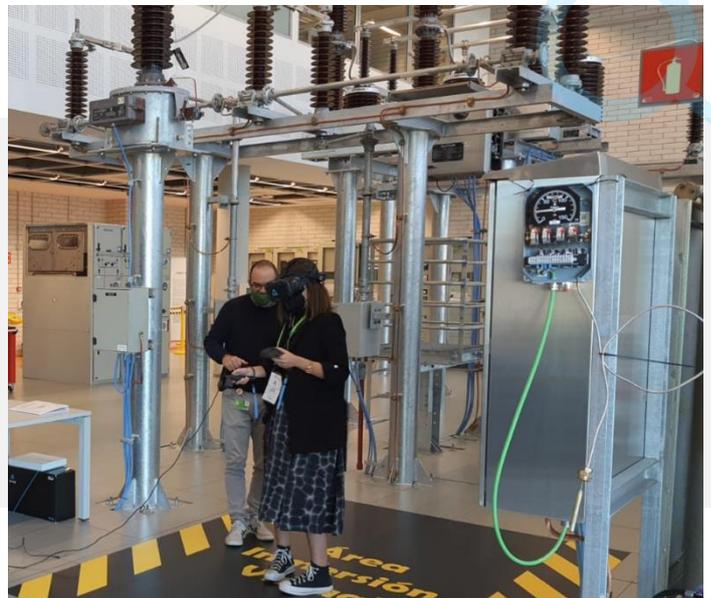


Since the beginning of the pandemic, part of the EDDIE team had the chance to physically meet in Madrid in October 2021.

The E.DSO representatives had the amazing opportunity to visit the innovation and training campus of Iberdrola, who offer the possibility to about 13,000 people to receive development training in its classrooms every year.

The Iberdrola Campus for Innovation and Training embodies the group's commitment to technology, R&D and collaboration with technology centres as levers for leading the energy transition, the green recovery of the economy and employment, improving the employability of young people and senior professionals in sectors with a future.

EDDIE team was able to experience in first person the challenges of skill gaps in the energy sector.



[More details](#)

EDDIE Project participated at the EUREC workshop.

EDDIE Project participated at the EUREC Workshop on 10th December 2021.

EUREC, the Association of European Renewable Energy Research Centers wants to contribute into the upcoming European debate on the "Action Plan on the Digitalisation of the Energy System" and, as a result, they launched a special issue on digitalisation and data, where the main aim is to collect success stories in an open access journal as a showcase of the potential of digitalisation and data applications in the European energy sector as well as to identify business cases for data sharing.

The most relevant topics are energy and data policy; data sharing; digitalisation benefits for energy customers and other stakeholders; innovative IT technologies in the energy sector; cybersecurity; energy consumption of the IT sector; business models for digitalisation in the energy sector.



EUREC

The Association of European
Renewable Energy Research Centres

EUREC Initiative on Energy Digitalisation and Data

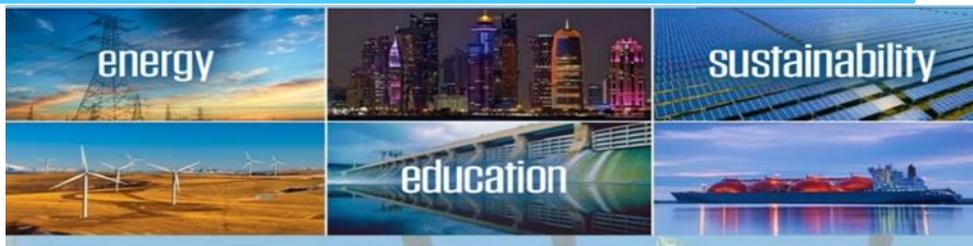
Andrea Michiorri, Guest Editor
Carsten Hoyer-Klick, Guest Editor
Christina N. Papadimitriou, Guest Editor

Anna Spoden, EUREC Communications and Policy Officer

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EDDIE Project participated at “Energy Education in the Future” Workshop.

Comillas Partner, through Miguel A. Sanchez-Fornie, took part in the Forum and contributed with as panellist in the discussion on “Energy Mentors-Building and Strengthening the Energy Talent Pipeline”. This workshop aims to develop a robust career-spanning mentor program to diversify, expand, and enhance the energy talent pipeline.



Energy Education of the Future Forum

Doha, Qatar
December 5&6, 2021

Such a mentoring program could start very early, such as high school, and offer a professional mentor from their home country and research experiences through a university. Therefore, it will convene a group of industry and academic energy professionals interested in developing and supporting such an initiative.

[More details](#)

EDDIE Project continues the “Policy Briefs” topic.

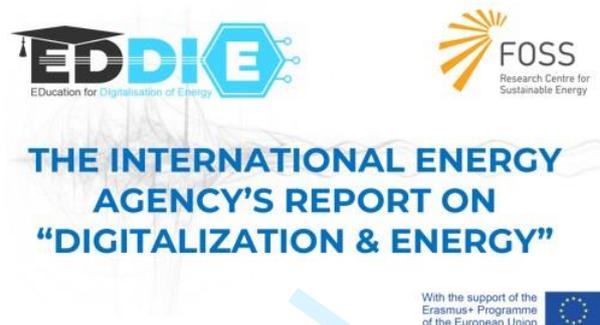
The EDDIE Project continues the action of publishing on its website summaries on the topic “Policy Briefs” by addressing relevant policy briefs for the energy sector.

The new titles are “Assessment and Roadmap for the Digital Transformation of the Energy Sector towards an Innovative Internal Market” and “The International energy Agency’s Report on *Digitalization and Energy*”.

The first policy brief mentions the comprehensive report of the EC on digitalization policies and aims to first analyze whether digitization is necessary by examining the extent to which digital solutions impact the energy

system, whether it is worth paying for, and who should pay for it. It then develops a roadmap that includes short-term measures to remove barriers along the energy value chain and accelerate the implementation of key provisions of the clean energy package. The relevant EU policies and investment programmes are in line with the bond established by the “European Green Deal” and “Europe fit for the Digital Age”.

EDDIE project is thus encouraged to continue his work at high standards.



The second policy brief focus the Technology Report published on November 2017 by the International Energy Agency (IEA) and speaks of the effort to depicting how digitalisation could transform the world’s energy systems with expertise from across the agency. IEA aims to provide an accurate and balanced view of what is happening using analytical tools, to paint a picture of what could happen next.

This topic is particularly relevant for the EDDIE project which aims at fostering the digital transformation in the Energy sector through the creation of an integrated education ecosystem.

[More details](#)

EDDIE Project participated at “SEFI Annual Conference 2021”.

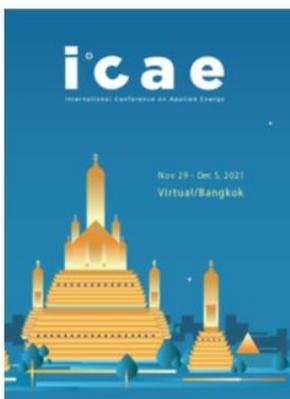
The year 2020 has challenged universities worldwide in an unprecedented way. On short notice, universities had to switch from on-site classroom teaching to online teaching formats. This extensive online teaching will have for sure a sustainable impact on the way we teach and learn.

SEFI Annual Conference focused on the implications of this very special experience on Engineering Education in Europe and worldwide. Most universities will use this opportunity for extensive evaluations and supporting research to assess the pros and cons of this transition. During the discussions, topics such as the adapting teachers and learners to a new situation, which formats, and methods have proven so successful that teachers would like to integrate them into their courses in the long term were addressed.

[More details](#)



EDDIE Project participated at ICAE2021-13th International Conference on Applied Energy Conference.



The role of microgrids in electrification planning: an integrated distribution approach

Fernando de Cuadra
IIT, Comillas-ICAI, cuadra@comillas.edu

Panel session on microgrids of the ICAE 21 conference. December 2, 2021

EDDIE partner Comillas participated in the ICAE 2021 Conference through Professor Fernando de Cuadra, panellist in the discussion on “The role of microgrids in electrification planning: an integrated distribution approach from the Universal Energy Access group”.

EDDIE was introduced in the self-presentation of the speaker, mentioned as Principal Investigator of EDDIE.

Additionally, the research topics introduced, all of them based on the digital models for design, modelling and operation of microgrids, are related to EDDIE interests.

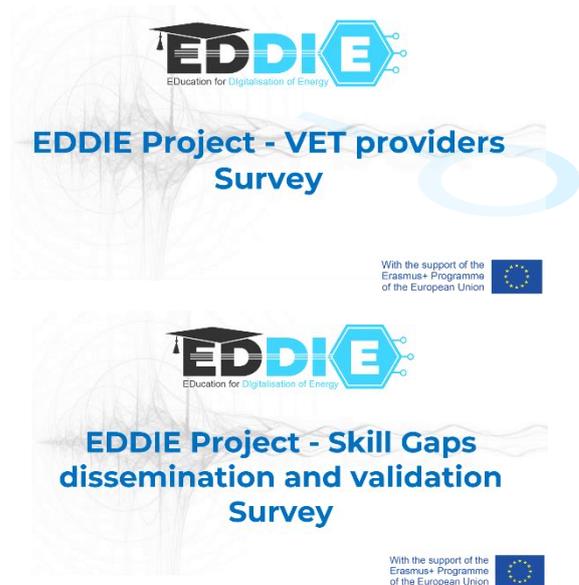
[More details](#)

EDDIE Project launched two dedicated surveys.

EDDIE Consortium launched 2 dedicated surveys in order to collect relevant information for the good development of the project.

The first survey – “VET providers Survey” aimed to identify the main challenges the VET systems face in the scope of the digitalization of the energy system and the new skills needed. The purpose of this questionnaire is to disseminate and expand the scope of our partial results about VET systems in Europe.

The second one, “Skill Gaps dissemination and validation Survey”, targeted the challenges faced by the industry during the digitalisation process of the energy systems and the new skills needed. The skills will be identified and classified in accordance with their impact and importance to improve education and training in this field.



[More details](#)

EDDIE Consortium completed a set of deliverables by the end of 2021 year.

For EDDIE Consortium the December of 2021 has been a very challenging one, since a set of deliverables had to be completed by the end of the month.

The deliverables presented below are currently under the European Commission evaluation and after approval, they will also be available on the EDDIE website.

- D1.2 - Mid-term report
- D4.2 Report on Best Practice for VET education
- D4.3 Report on Best Practice for University education
- D4.4 Report on Best Practice for continuous learning
- D5.1 - Specification, conceptual design and application to the partial results compiled from other work packages.
- D5.2 - Intermediate draft templates for educational programs
- D7.4 - Report on events (v1)

Until the approval of the newest documents, the previous deliverables can be consulted by accessing the “More details” button.

[More details](#)

EDDIE Project Application for Pact for Skills has been officially accepted.

The EDDIE Project application of joining the Pact for Skills has been officially accepted by the Commission and published on the website.

As a result, the consortium became member of the Pact and join a growing community of private and public stakeholders (businesses (large and small), social partners, education and training providers, associations, clusters organizations, national, regional and local authorities, chambers of commerce or employment services, among others) who contribute to making up- and reskilling a reality.

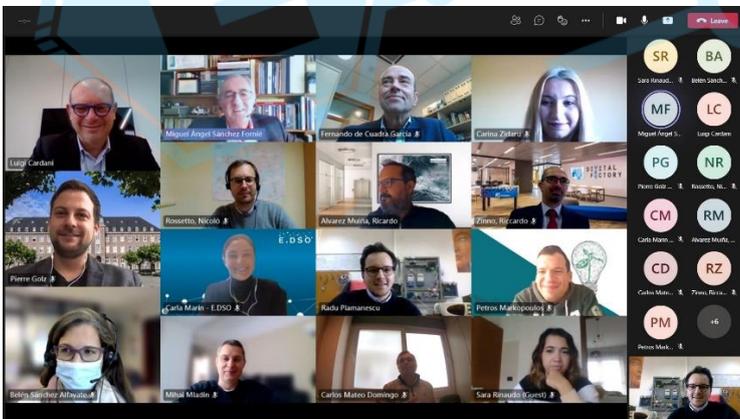
The Pact for Skills aims to mobilize a concerted effort for quality investment in skills for all working age people across the European Union.

Pact for Skills



[More details](#)

EDDIE Project Organized the 3rd International Advisory Board.



The 3rd International Advisory Board (IAB) was organized by the Project Coordinator COMILLAS, in November 2021. The IAB highlighted interesting and significant topics for the development of the project, the feedback, dissemination and stakeholders' campaign, best practices in education for Vocational Education and Training (VET), university and continuous learning, blueprint strategy and latest actions on stakeholders mapping.

[More details](#)

EDDIE project consortium

