



Education for Digitalization of Energy

---

## *Deliverable 7.5*

### *Report on events (v2)*

---

Status -Version: V3.0

Delivery Date (DOW): 31 DEC 2023

Actual Delivery Date: 31 DEC 2023

Distribution - Confidentiality: Public

#### Authors:

Radu Plamanescu (CRE), Mihai Mladin (CRE), Paul Lacatus (CRE), Marta Sturzeanu (CRE), Carina Zidaru (CRE), Fernando de Cuadra, Belén Sánchez Alfayate (COMILLAS), Alexandros Chronis (NTUA), Konstantinos Michos (NTUA), Panos Kotsampopoulos (NTUA) Berna Benci (RWTH), Amila Kaharevic (RWTH), Andreas Stavrou (FOSS), Daniela Casiraghi, Bianca Santolini (POLIMI), María Durán Cabral (IBERDROLA), Michela Cremona (EDSO), Katerina Tasidou (NOVEL), Stephan Anders (UCBS), Arne Lilienkamp (EWI)

#### Keywords:

**Communication & Dissemination, Innovation Events, Scientific conferences, Exhibition fairs, stakeholders, and advisory board.**

#### Abstract:

This report describes the events organized, hosted and attended by the consortium within the Task 7.3 to create awareness of the project concept and results and trigger open discussions, facilitate collaborations and to spark innovation in the education for digitalization of the energy sector domain. The activities organized in the 48 months of the projects include the organizational and logistical enabling of communication and dissemination activities such as the participation in scientific and industrial events with exhibition stands, the organization of workshops and special session in conferences, the organization of stakeholders and advisory board meetings.

## DISCLAIMER

The European Commission's support for the production of this publication does not constitute an endorsement of the contents, which reflect the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein. All EDDIE consortium parties have agreed to full publication of this document.

Neither the EDDIE consortium as a whole, nor a certain party of the EDDIE consortium warrant that the information contained in this document is capable of use, nor that use of the information is free from risk, and does not accept any liability for loss or damage suffered using this information.

	Participant organisation name	Short	Country
01	UNIVERSIDAD PONTIFICIA COMILLAS	COMILLAS	Spain
02	NATIONAL TECHNICAL UNIVERSITY OF ATHENS	NTUA	Greece
03	RHEINISCH-WESTFAELISCHE TECHNISCHE HOCHSCHULE	RWTH	Germany
04	FOSS Research Centre for Sustainable Energy – U. of Cyprus	FOSS	Cyprus
05	Politecnico di Milano – METID	POLIMI	Italy
06	Kungliga Tekniska Högskolan	KTH	Sweden
07	Fundación Obra Social y Monte de Piedad de Madrid – Escuelas Profesionales Padre Piquer	PIQUER	Spain
08	Centrul Roman al Energiei	CRE	Romania
09	REPSOL SA	REPSOL	Spain
10	IBERDROLA	IBERDROLA	Spain
12	DNV Business assurance Spain SL	DNV	Spain
13	EDSO for Smart Grids	E.DSO	Belgium
14	NTT Data Italia SPA	NTT	Italy
15	NOVEL Group	NOVEL	Luxembourg
16	University of Cologne Business School	UCBS	Germany
17	Institute of Energy Economics at the University of Cologne	EWI	Germany

## ACKNOWLEDGEMENT

This document is a deliverable of EDDIE project. This project has received funding from the European Union's Erasmus+ under grant agreement N° 612398.

The opinions expressed in this document reflect only the author's view and in no way reflect the European Commission's opinions. The European Commission is not responsible for any use that may be made of the information it contains.

## Document History

Version	Date	Contributor(s)	Description
V1.0	November 2023	Radu Plămănescu (CRE) Marta Sturzeanu (CRE) Carina Zidaru (CRE)	Initial state of the document, ToC,
V2.0	December 2021	All partners	Inputs for all the events attended
V3.0	December 2023	Radu Plămănescu (CRE) Marta Sturzeanu (CRE) Carina Zidaru (CRE)	Integrate contributions and finalize document.

## Document Reviewers

Date	Reviewer's name	Affiliation
December 2023	<b>Mihai Mladin</b>	<b>CRE</b>
December 2023	<b>Miguel Ángel Sánchez Fornié</b>	<b>COMILLAS</b>

## Table of Contents

Table of Contents .....	4
Definitions, Acronyms and Abbreviations .....	7
Executive Summary .....	9
1. Introduction .....	10
1.1. Objectives and outline of the deliverable .....	10
1.2. How to read this document .....	11
2. EDDIE Dissemination Activities .....	12
2.1. Events where EDDIE project has been presented .....	12
2.1.1. THE EUROPEAN GREEN DEAL: SMART GRIDS AT THE CENTER (webinar) .....	12
2.1.2. EDDIE at The First International Online Video-Conference On Energy T&D Networks.....	13
2.1.3. #ERASMUS DAYS – OCTOBER 2020.....	15
2.1.4. Strengthening Education for Sustainable Energy Transition & Digitalization (Stakeholders Consultation Webinar) .....	15
2.1.5. 2021 IEEE International Forum on Smart Grids for Smart Cities (Virtual Forum) .....	17
2.1.6. IEEE PES PowerTech 2021.....	19
2.1.7. Erasmus Days .....	20
2.1.8. ENLIT EUROPE 2021 .....	21
2.1.9. Promoting Cooperation Between Digitalisation Of Energy Centres Of Expertise And Digital Innovation Hubs” Workshop .....	23
2.1.10. Skills for the twin green and digital transition. – EUSEW 2022 Extended Program .....	25
2.1.11. European Sustainable Energy Week (EUSEW) 2022 – In-person .....	29
2.1.12. ENLIT Europe 2022 .....	30
2.1.13. EDDIE and Digital4Energy Joint Events .....	34
2.1.14. EDDIE’s outcomes showcased at European Sustainable Energy Week 2023 .....	35
2.1.15. EDDIE Organized the 1st WORKSHOP on developing the LARGE-SCALE PARTNERSHIP for digitalization of energy .....	36
2.1.16. EDDIE Organized the 2 <sup>nd</sup> WORKSHOP on developing the LARGE-SCALE PARTNERSHIP for digitalization of energy .....	37
2.1.17. Enlit Europe 2023.....	38
2.1.18. EDDIE Final Event and LSP on the Digitalisation of the Energy System .....	40
2.2. Events where members of the EDDIE consortium took benefit of their attendance and mentioned EDDIE project.....	45
2.2.1. University of Sevilla Department of Electrical Engineering Webinar .....	45
2.2.2. ENTSO-E and E.DSO first InnoGrid virtual session on key role of electricity networks in the energy transition .....	45
2.2.3. European Vocational Skills Week .....	46
2.2.4. PLATform for Operation of distribution NETworks (PLATONE) Project Midterm Conference – “GROWING THE ENERGY TRANSITION” .....	47
2.2.5. ICAE2021-13th International Conference on Applied Energy (Conference)- “Sustainable Energy Solutions for a Post-COVID Recovery towards a Better Future” .....	48
2.2.6. Energy Education in the Future.....	49
2.2.7. Romanian Energy Day – 11th Edition – Repowering the European Energy Sector.....	50
2.2.8. Grid Service Market Symposium.....	50
2.2.9. Archimedean Sandbox program .....	51
2.2.10. Weeks of International Teaching – Inclusive and Digital .....	52
2.2.11. The Factory 4.0 Expo Conference – 3rd edition .....	53
2.2.12. RWTH Science Night .....	54

2.2.13.	16 <sup>th</sup> ETIP SNET Regional Workshop .....	55
2.2.14.	4 <sup>th</sup> E.DSO Projects in the Spotlight Event .....	57
2.2.15.	2 <sup>nd</sup> International workshop on "Open Source Modelling and Simulation of Energy Systems" (OSMSSES 2023) .....	58
2.2.16.	NSF Joint US European Workshop: Flexible Electric Grid Critical Infrastructure for Resilient Society .....	59
2.2.17.	EDDIE representatives at the "Girls' Day" Event .....	60
2.2.18.	Data Platforms for the Energy Infrastructure Workshop .....	61
2.2.19.	"IEEE PowerTech Belgrade 2023" Conference .....	62
2.2.20.	"Smart Energy Solutions for the Energy Transition" Conference .....	63
2.2.21.	The European MOOCs Stakeholder Summit .....	64
2.2.22.	E.DSO/Europacable/T&D Europe Webinar – "Unpacking the Green Deal Industrial Plan: Energy Industry implications" .....	65
2.2.23.	The 2023 IEEE Power & Energy Society (PES) General Meeting .....	66
2.2.24.	READY4DC – InterOPERA Joint Event .....	68
2.2.25.	6 <sup>th</sup> Event On Cybersecurity 'European Energy Grids' Security In A Changed Landscape .....	69
2.2.26.	Smart City Day .....	70
2.2.27.	ERASMUS+ DAYS 2023.....	70
2.2.28.	Sectoral skills intelligence and strategies as drivers of the just transition .....	72
2.2.29.	Lifelong learning for local sustainable growth: Policy and Practices for the Green Transition .....	73
2.2.30.	Visibility, Policy engagement, NETwork Strengthening in Vocational Education and Training (ViP-NEXT) Event.....	74
2.3.	Events attended due to their importance and relevance and content to be considered within EDDIE. ....	75
2.3.1.	Innovations for operating power systems with increasing shares of variable renewables (Webinar) .....	75
2.3.2.	Pact for Skills – support for upskilling and reskilling under Erasmus+. Seminar Pact for Skills. Blueprint Sector Skills Alliances 2017-2020. ....	75
2.3.3.	"Skill Building for the Energy Transition" .....	78
2.3.4.	"Remote Testing & EIRIE Platform" .....	79
2.3.5.	Launch of the New Manifesto for Enhancing Digital Competences across Europe .....	80
2.3.6.	EURASHE 30th Annual Conference - Professional Higher Education and sustainable development: creating a change that endures .....	81
2.3.7.	Power Summit 2021 – Electric Decade .....	82
2.3.8.	4th E.DSO-ENCS-ENTSO-E Webinar on Cybersecurity "Enhancing our grid resilience" .....	83
2.3.9.	10th INNOGRID EDITION - "Living the Transition" .....	83
2.3.10.	Workshop on Analyzing and Comparing VET Qualifications .....	85
2.3.11.	SEFI Annual Conference 2021 .....	86
2.3.12.	"The Truth about Sector Coupling".....	86
2.3.13.	Conference - Flexibility: The enabler for a clean energy future? .....	87
2.3.14.	3rd Coordinet Stakeholder Forum – Roadmap for a Green Deal fir market design .....	88
2.3.15.	Europe in transition: challenges for research and education .....	89
2.3.16.	DIGITAL EDUCATION STAKEHOLDER FORUM.....	89
2.3.17.	Automotive Sector Skills Blueprint projects underpinning an EU-wide long-term cooperation .....	90
2.3.18.	Raising the uptake of renewables by DSOs .....	91
2.3.19.	2022 World Sustainable Energy Days (WSED) .....	91
2.3.20.	ENERGY TECH SUMMIT 2022 .....	92
2.3.21.	European Vocational Skills Week 2022 .....	92
2.3.22.	Shaping the EO*GI Skills of the Future.....	93
2.3.23.	UNESCO World Higher Education Conference 2022 .....	94
2.3.24.	EU Green Week 2022 .....	94
2.3.25.	Networking Event for Pact for Skills Members.....	95

2.3.26. InnoGrid 2022 - Mission Acceleration .....	96
2.3.27. Power Summit 2022 - Game Changers .....	97
2.3.28. EDULEARN22 International Education Conference .....	97
2.3.29. Digitally Enabled Renewable Energy Communities: The role of Citizens in the Clean Energy Transition .....	98
2.3.30. Is Open Source the Next Big Thing in Electricity Distribution? .....	99
2.3.31. 2022 Edition of the European Week of Regions and Cities .....	100
2.3.32. Participatory lab: Regions tackling Skill Challenges for the Green and Digital Transitions under the Pact for Skills .....	100
2.3.33. Repowering Europe for a Sustainable EU Strategic Autonomy.....	101
2.3.34. Posting of Workers: the role of National Authorities in the Enforcement of the Rules.....	102
2.3.35. 16th SET Plan Conference - Towards a new Strategic Energy Technology Plan .....	102
2.3.36. 2022 Forum on Vocational Excellence .....	103
2.3.37. A Multi-Scale Calibration Approach For A Digitalised Energy System .....	104
2.3.38. 5th E.DSO-ENCS-ENTSO-E Event on Cybersecurity "European Energy Grids' Security in a Radically Changed Landscape" .....	105
2.3.39. E.DSO TF1 Go4Flex Workshop.....	105
2.3.40. 8 <sup>th</sup> Energy Storage Summit.....	106
2.3.41. World Sustainable Energy Days 2023 .....	106
2.3.42. Power to Buildings Hub Peer Exchange .....	107
2.3.43. The Future of Energy Materials: EERA EM4I and AMI2030 Joint Workshop.....	108
2.3.44. Online Info Session: Alliances for Innovation 2023 .....	109
2.3.45. Joint ENTSO-E & RGI Conference on Adaptation & Resilience.....	110
2.3.46. Fostering EU Clean Energy transition in Romania, SUPEERA/PANTERA workshop .....	111
2.3.47. EVision 2023- Power Sector Accelerating e-mobility.....	111
2.3.48. Energy Conversion and Storage Days.....	112
2.3.49. K.EY 2023 – The Renewable Energy EXPO .....	113
2.3.50. 2023 joint CEDEFOP/OECD Symposium on "Apprenticeships and the digital transition" .....	113
2.3.51. 2 <sup>nd</sup> Education and Innovation Summit.....	114
2.3.52. Empowering individuals for better mobility – transparency and recognition of VET qualifications ....	115
2.3.53. The European Education Area: A reality for all" Sixth European Education Summit .....	116
3. EDDIE Advisory Board Meetings .....	118
3.1. 1 <sup>st</sup> EDDIE Advisory Board Meeting – November 2020 .....	118
3.2. 2 <sup>nd</sup> Advisory Board Meeting – June 2021 .....	119
3.3. 3 <sup>rd</sup> Advisory Board Meeting – November 2021.....	121
3.4. 4 <sup>th</sup> Advisory Board Meeting – June 2022.....	123
3.5. 5 <sup>th</sup> Advisory Board Meeting – November 2022.....	125
3.6. 6 <sup>th</sup> Advisory Board Meeting – June 2023.....	127
4. Conclusions.....	130
5. References.....	131
List of Figures .....	132

## Definitions, Acronyms and Abbreviations

ATEE	Association for Teacher Education in Europe
CEDEFOP	European Centre for the Development of Vocational Training
CEER	Council of European Energy Regulators
CIREN	Centre for International Research of Environment and Development
DG	Directorate-General
DG-EAC	Directorate-General for Education and Culture
DSO	Distribution System Operators
EAEA	European Association for the Education of Adults
EASE	European Association for Storage of Energy
EC	European Commission
ECTS	European Credit Transfer and Accumulation System
ECVET	European Credit system for Vocational Education and Training
E.DSO	European Distribution System Operators
ENCS	European Network for Cyber Security
ENTSO-E	European Network of Transmission System Operators for Electricity
EP	Exploitation Plan
EPES	Electrical Power and Energy System
EQAVET	European Quality Assurance in Vocational Education and Training
EQF	European Qualifications Framework
ESCO	European Skills/Competences, Qualifications and Occupations
EU	European Union
EURASHE	European Association of Institutions in Higher Education
ICT	Information and Communication Technologies
IEA	International Energy Agency
IPR	Intellectual Property Rights
MOOCS	Massive Open Online Courses
PMU	Phasor Measurement Units

---

SEFI	European Society for Engineering Education
SSA	Sector Skill Alliance
TL	Task Leader
TSO	Transmission System Operators
VET	Vocational Education Training
I-VET	Initial Vocational Education Training
C-VET	Continuous Vocational Education Training
TVET	Technical and Vocational Education and Training
WAMC	Wide Area Monitoring and Control
WEC	World Energy Council
WP	Work Package
WPL	Work Package Leader

---

## Executive Summary

D7.5 – Report on events (v2) highlights the activities carried out by EDDIE consortium to increase the project impact and relevance, to disseminate the achieved results among relevant stakeholders groups and to pave the way for exploitation to support the education in the energy system as it evolves very much affected by its transition and digitalization. This report is a comprehensive and living document which gives an introduction and outline of the achieved dissemination activities and the ones proposed throughout the duration of the project, the tools, actions, and channels to be used in the dissemination and outreach of the products results.

As can be found in this document, the EDDIE partners have participated and organized different actions during the 4-year implementation of the project. These actions included organization of conferences and workshops, participation in conferences, workshops and fairs, social media dissemination, newsletters and flyer and poster preparation, non-peer-reviewed articles, and had heterogeneous audience and objectives. Moreover, these activities sometimes involved not only cooperation between the partners of the consortium but also collaborations with other projects and European initiatives, creating new synergies and networking. Additionally, some of the project Key Performance Indicators (KPIs) related to events and other dissemination activities purposed at the beginning of the project were achieved.

Within EDDIE stakeholder mapping, relevant target groups were identified with the aim of establishment of a Sector Skills Alliance, to develop an industry-driven Blueprint Strategy for the education and training in the energy sector which is continuously affected by digitalization. This Blueprint is an industry-driven strategy that will meet and anticipate the skills' demands for sustainable growth and digitalization for the European Energy sector. The relevant members of EDDIE stakeholder map were approached during private consultations and public events including the international advisory board meetings, stakeholder meetings, the participation to industry fairs and innovation events as well as through the active participation to initiatives promoted by the European Commission.

The EDDIE consortium constantly continued to disseminate the project outcomes to the stakeholders during the implementation of the project. EDDIE Partners were involved in different activities, events, dissemination conferences which created and updated the dissemination materials, policy briefs, newsletters, press releases, demo trials, best practices, and surveys.

Also, the Consortium focus, and main objective was to identify and assess skills gaps, needs, high-impact policies and regulations in the energy sector, for energy transition through digitalization. Furthermore, the emerging digital era of the energy sector, but also on the way towards building a Large-Scale Partnership (LSP) under the EU Pact for Skills initiative taking benefit from the Sectorial Skills Strategy that will be developed by EDDIE project, was a key activity during the implementation of the Project.

## 1. Introduction

This deliverable is the major outcome of Tasks 7.3 but has received contributions from all the tasks associated with WP7, whose overarching objective is to maximize the scientific, industrial, educational and societal impact of the project by creating awareness of the strategy of the blueprint, new directions and trends, technologies and the innovation activities within the project but also to engage actively with the public and the relevant stakeholders channeling and guiding feedback that will be incorporated in the strategic orientation of the project. From a wider perspective, D7.4 reviews also the communication and dissemination measures implemented within Tasks 7.1, 7.2 and 7.4 to foster specifically the support for matching the current and future demand of skills necessary for the digitalization of the Energy sector.

With this aim, the tools used by EDDIE, besides the web portal which serves as the first link to disseminate the project (<https://www.eddie-erasmus.eu/>), are the organization and participation in innovation and dissemination events like workshops, conferences, industrial fairs, and other events. Another important tool that will be used is the development and organization of educational activities aiming to demonstrate the feasibility and materialization of the blueprint strategy for the digitalization of the energy value chain (BSDE) while training professionals with new skills to manage the new context of energy systems.

The impact objectives of the communication and dissemination activities organized and attended by EDDIE can be sorted in multiple groups based on different target audiences:

- Dissemination towards relevant stakeholders groups in energy industry (Energy producers and suppliers, Network Operators, Industrial and ICT suppliers, both equipment and services) These activities include the participation to industrial conferences, fairs and innovation events, the private and public, stakeholders (manufacturers, energy providers, policy decision makers, etc.), as well as the commitment in initiatives promoted by the European Commission like BRIDGE and ETIP-SNET.
- Dissemination towards the education providers and research community (Academic, training, research, and life-long learning community). The activities in this category include the participation in international peer-reviewed scientific conferences, the organization of special sessions, the publication in highly ranked, prestigious, international peer-reviewed journals and magazines. The aim is to create awareness of the project work and assessments for skills gap identification, best practices at EU level.
- Dissemination towards the VET systems and life-long learning (Sectoral organizations in the energy and lifelong learning fields). EDDIE addresses the gaps in current educational programs and the need for professionals with new skills crossing energy and ICT fields by organizing a face-to-face and an online interdisciplinary course to promote the of BSDE.
- Dissemination towards other EU Erasmus+ Alliances projects and initiatives. The objective of these kind of activities and initiatives is to create a detailed view of the cross-cutting issues found during research projects, allowing to tackle the obstacles that innovation is facing, create synergies with other projects paving the way towards innovation for the digitalization of the energy sector.
- Dissemination towards Administration bodies and policy makers. Within this group of stakeholders, the aim is for presentation of the EDDIE concepts and results concerning the definition of a new framework for the education curricula and discussion about the implications for the educational providers. The objective is to raise awareness of the importance of the EDDIE topics and achievements among interested groups able to influence future decisions at National and EU level.
- EDDIE Advisory Board members. Within this group the focus is for comprehensive presentation of the ongoing work on the definition of new strategies for education of digitalization and discussion about the implications for the sector actors. Objective of the meetings is to collect feedback on the definition of blueprint strategy validated in the pilot trial and thereby ensure the European-wide acceptance and usability of the project outcomes.

### 1.1. Objectives and outline of the deliverable

The objective of this deliverable is to report about all EDDIE communication and dissemination events that took place in the first 24 months of the project, and whose organizational and logistical enabling has been coordinated by WP7 leader (CRE) within all tasks.

The description of the events is reported in Chapter 2, where the activities have been organized according to the following categories:

1. Events where EDDIE project has been presented
2. Events where members of the EDDIE consortium took benefit of their attendance and mentioned EDDIE project.
3. Events attended due to their importance and relevance and content to be considered within EDDIE.
4. Scientific work and publications.
5. EDDIE international advisory board meetings.
6. Plan for future events.

## **1.2. How to read this document**

This is a stand-alone document that can be read on its own. However, more information regarding the methodology and philosophy of the activities listed in Section 2.2 (Stakeholder consultations events) can be found in Deliverable D7.2: “Dissemination and Exploitation plan”, which describes more in detail the communication and dissemination activities carried out in Task 7.1, 7.2 and 7.4 to promote EDDIE consistent work and blueprint strategy to relevant, stakeholders representing the whole energy value chain, education providers, VET systems, and the project advisory board.

## 2. EDDIE Dissemination Activities

### 2.1. Events where EDDIE project has been presented

This section highlights and reviews the participation and organization of scientific and industrial events. The selected events include very well-known international fairs and conferences such as the European Vocational Skills Week, IEEE conferences, Innogrid etc.

#### 2.1.1. THE EUROPEAN GREEN DEAL: SMART GRIDS AT THE CENTER (webinar)

- **Date:** 16 April 2020
- **Location:** online
- **Type of activity:** Organization of an Event
- **Organisers:** Comillas University
- **Estimated participants:** 120
- **EDDIE participants:** Comillas, NTUA, CRE
- **Type of participation:** Presentations, master classes, attendance
- **Presentation/Speech/ title:** The European Green Deal: Smart Grids at the Center.
- **Relation to EDDIE:**

The event, programmed to be presential, became online as the COVID19 impact in all over Europe was around that time. Registered 121 people. The event was chaired by the principal of COMILLAS ICAI School of Engineering, Dr. Antonio Muñoz. In the Introduction, Miguel A. Sanchez-Fornie mentioned very specially EDDIE project as the best opportunity to align the needed education in energy as impacted by digitalization with the real request from the Industry. Master classes were given by Dr. Manuel Sanchez Jimenez, head of Smart Grids in DG Energy European Commission and Dr. Agustin Delgado Martin, Chief Innovation Officer if IBERDROLA. Both confirmed the importance of Education for the future European Energy System and the clear opportunity of EDDIE project. Their presentations are available, registering to EDDIE's Newsletter

- **Photo for the event:** Figure 2-1 and Figure 2-1.

**The European Green Deal: Smart Grids at the Center**  
 16-04-2020 17:00  
 ONLINE, MICRO, ESPAÑA

**The EDDIE Project**

**Digital Energy Education - Briefly**  
 Title: Education for Digitalisation of Energy  
 Type of action: Sector Skill Alliance  
 Total Cost: € 3,995,690.00  
 Start Date: 01/01/2020  
 End date: 31/12/2023  
 Duration: 48 months  
 Project Web Site: [www.eddie-erasmus.eu](http://www.eddie-erasmus.eu)  
 Key Words: Digitalization, Energy, Education, SSA, VET  
 Project Coordinator: COMILLAS

Figure 2-1. EDDIE at the webinar "The European Green Deal: Smart Grids at the Center" organized by COMILLAS



## Energy Transition

### Technologies for the Decarbonization and Electrification of the Economy

April 2020

INTERNAL USE

Figure 2-2. Master Classes given by Manuel Sanchez Jimenez (left) and Agustin Delgado (right).

## 2.1.2. EDDIE at The First International Online Video-Conference On Energy T&D Networks

- **Title:** Integrated Approach in the Management and Operation of Electricity Transmission and Distribution Networks
- **Date:** 30 April 2020
- **Location:** Online Event
- **Type of activity:** Scientific Conference, International Stakeholders Consultation
- **Organizers:** Romanian Energy Center (CRE)
- **Estimated participants:** 220
- **Website:** <https://www.crenerg.org/web-conference-sogno-eu-projects/>
- **EDDIE participant:** EDDIE Consortium
- **Type of participation:** Presentation, Panelists, Speakers, Participation to a Conference
- **Relation to EDDIE:**

Romanian Energy Center (CRE) organized on the 30<sup>th</sup> of April 2020 the first International online video conference „*Integrated Approach in the Management and Operation of Electricity Transmission and Distribution Networks*”. The format of the Event was an International Stakeholders Consultation focusing on the preliminary results and synergies within six EU funded projects: SOGNO, WISEGRID, PHOENIX, CROSSBOW, EDDIE and DEFENDER.

The highlights of the conference: The future look of the Energy and the European Green Deal enabled by a Stable and Smart Grid with high RES were two of the main topics addressed by the two distinguished keynote speakers in the Opening Part of the conference.

The first session “*Innovative T&D Solutions and ICT Services for Grid Operators*”, started with the SOGNO project achievements (deploying more automated services in the MV and LV grids and Open Platform and Modular Services) demonstrations.

*WISEGRID* focused on the nine tools developed, standardization cooperation and citizen engagement for the EU Smart Grid of the future. *PHOENIX* project highlighted a self-learning and centralized ecosystem, to protect existing and new EPES components, from known and un-known cyber-threats, while ensuring data-privacy.

*EDDIE* project was introduced by the coordinator, prof. Miguel Ángel Sánchez Fornié who underlined the strategic approach for Education in the EU Energy sector as an industry-driven movement, where the skills emerge as a need of the real application. The session ended with a panel discussion underlining the expanded responsibilities of the DSO due to large penetration of renewables and specifically of the distributed generation for securing the Smart grids towards up to 100% Renewables.

Second session “*Developments in the Standardization for the Power Sector*” highlighted through its speakers that the current paradigm and goal of energy self-sufficiency is too expensive and the best way for the future being cooperation, the blockchain technology can democratize the energy markets and can support the production and consumption of green energy while improving the efficiency of energy exchanges. The conference ended with a panel discussion with the focus on the issues of software products and implementation at national and regional levels, regulatory implications, the impact of digitalization on standardization and standardizing cyber security products and services.

EDDIE was firstly ever introduced to the potential stakeholders and general public during an international event with participants from 35 countries. (as can be seen in Figure 2-3).

**Participants:**



**Figure 2-3. Statistics for the first international online conference organized by CRE**

- Photo for promoting the event:** In Figure 2-4 it can be seen some of the highlights related to EDDIE also during the panel session dedicated to the role of TSOs and DSOs for securing the Smart Grid towards up to 100% Renewables. For dissemination purposes, the association CRE shared a lot of information, documents and press releases for its members and participants via email and social media (shared by all the involved parties and projects including EDDIE). An example of such document is in Figure 2-5, but more information can be found on the dedicated webpage on CRE website, [here](#).



Figure 2-4. Integrated Approach in the Management and Operation of Electricity Transmission and Distribution Networks event



**ROMANIAN ENERGY CENTER – CRE ORGANIZES THE FIRST INTERNATIONAL ONLINE VIDEO-CONFERENCE ON ELECTRICITY TRANSMISSION AND DISTRIBUTION**

**27 April 2020, Mihai PAUN**

Romanian Energy Center (CRE) is organizing the first International Online Video Conference under the title „*Integrated Approach in the Management and Operation of Electricity Transmission and Distribution Networks*” on 30 April. The format of the Event is an International Stakeholders Consultation focusing on the preliminary results and the synergies within the European H2020 Projects **SOGNO, WISEGRID, PHOENIX, CROSSBOW, EDDIE** and **DEFENDER**.

More than 180 registrations of participants representing more than 120 organizations from over 35 countries are counted to date.

The main objectives of the event are: **Consultation with Stakeholders** on the Preliminary Results on Electricity T&D grid operation, regulation, standardization, as well as on New Solutions and Services proposed to TSOs and DSOs for improving the operation and security of the electricity grid through Digitalisation and Education; **Dissemination of the Projects Solutions** for the Management of Variable Renewable Energies and Storage Units enabling more Secure Smart Grid; **Presentation of integrated solutions and Business Models** for the integration of more RES into the European Smart Grid with increased protection and fast mitigation of the Cyber-Attacks against assets and the Networks of the Future; **Identify synergies within EU H2020 Projects** on Electricity T&D; **Consolidating** the European dimension of **Innovation and Development** in the Energy Sector.

Figure 2-5. CRE's press release for the first international online videoconference

### 2.1.3. #ERASMUS DAYS – OCTOBER 2020

- **Date:** 15, 16 & 17 October 2020
- **Location:** Online Event
- **Type of activity:** Participation
- **Organizers:** European Commission
- **Estimated participants:** 300
- **Website:** <https://www.erasmusdays.eu/>
- **EDDIE participant:** Romanian Energy Center (CRE)
- **Type of participation:** Presentation
- **Relation to EDDIE:**

Launched in 2017 for the 30<sup>th</sup> anniversary of the programme, the ErasmusDays have become in four editions an unmissable European celebration for citizens and stakeholders of European projects. A new opportunity for EDDIE to increase its visibility among external stakeholders is the event ErasmusDays. It was a great moment to spread the word about our project, share our experience and showcase the impact of EDDIE work. For this year, all the activities were hosted online, and EDDIE took this opportunity to share all its dissemination activities under the hashtag #ErasmusDays. ErasmusDays is an initiative of the Erasmus+ French National Agency on the 30<sup>th</sup> anniversary of Erasmus+ and consists of a series of bottom-up events organized by various Erasmus+ programme players.

An example of activity within the ErasmusDays is the newsletter #3 (Figure 2-6) that was disseminated and exhibited using the logo of the event. On social media, the consortium used #ErasmusDays to share content.

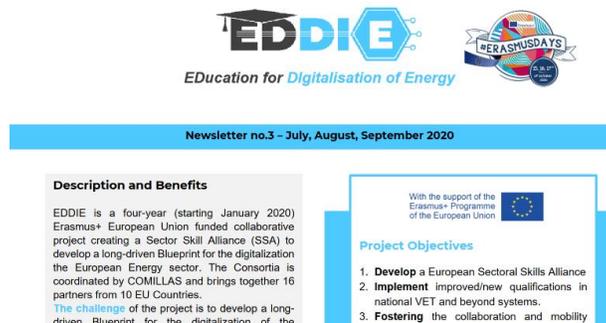


Figure 2-6. EDDIE's Newsletter #3 with ErasmusDays logo

- **Logo and Photo of the event:** Figure 2-7



Figure 2-7. ErasmusDays logo 2020

### 2.1.4. Strengthening Education for Sustainable Energy Transition & Digitalization (Stakeholders Consultation Webinar)

- **Date:** November 17, 2020
- **Location:** online
- **Type of activity:** Organization of an event (webinar)
- **Organizers:** CRE
- **Estimated participants:** 200

- **Website:** <https://www.eddie-erasmus.eu/events-eddie/eddie-webinar-evsw-2020/>
- **EDDIE participant:** EDDIE Consortium.
- **Type of participation:** Moderator, Speaker, Panelist
- **Relation to EDDIE:**

EDDIE Webinar wanted to respond to key questions raised by the 4th Revolution, addressing the main forces of change in ENERGY Transition: Low Carbon Objectives & Digitalization. Using EDUCATION lenses, we will look at the ENERGY Sector to find solutions for the LEARNING Transition, as well. Synergies with EdgeFLEX and PHOENIX H2020 research projects in the digitalization of energy allowed a better understanding of the landmarks for the mandatory transformation in education as a sustainable response to the new and future requirements.

The event brought together industry representatives, policy and decision makers, researchers, practitioners as well as key representatives from the education sector to discuss challenges relating to digitalization, education, and their role for the future of the Energy Sector. For the energy sector there is a number of occupations defined according to the European ESCO classification, and several skills are associated to each occupation, according to the current provisions. These are not very well correlated with the new realities of digitalization, and curricula and training programs in both academia and VET (Vocational Education and Training) also have gaps in what the industry requires. Therefore, during the event, EDDIE project addressed these challenges to identify the skills relevant to the context of digitalization in the field of energy, the expert profiles participating in the panel allowing us to have a broad perspective on the subject, coming from academia, industry, and VET. During Session 1 – Education for Digitalization of Energy, dr. Panos Kotsampopoulos held the presentation “*Identification of industrial challenges and skill needs in the energy sector within EDDIE framework*”, and highlighted the assessments and conclusions for the investigation upon the skill gaps between education and the industry demands using surveys and questionnaires and providing useful conclusions about the skillsets and the sectors that showcase the biggest skill gaps.

For this event, a page was created on EDDIE website to disseminate the relevant information to all the stakeholders groups. The page can be found [here](#). After the event a lot of activities regarding dissemination and communication were carried out such as a press release on behalf of EDDIE consortium with the webinar highlights. A print-screen of this press release can be seen in Figure 2-8. All the activities were shared on the social media channel as well. In addition, CRE created a dedicated page on its website and shared a lot of content among its members via email and social media. (more information can be found [here](#)). An example of a press release on behalf of CRE disseminated among its members but also on social media can be seen in Figure 2-9.



Figure 2-8. EDDIE Webinar Highlights



Figure 2-9. Example of a press release on behalf of CRE

- **Photos of the event:** Figure 2-8, Figure 2-9, Figure 2-10.



Figure 2-10. Strengthening Education for Sustainable Energy Transition & Digitalization – Dissemination

### 2.1.5. 2021 IEEE International Forum on Smart Grids for Smart Cities (Virtual Forum)

- **Date:** March 17-23, 2021
- **Location:** online
- **Type of activity:** Participation to a Virtual Forum, Scientific Conference, Fair
- **Organizers:** IEEE
- **Estimated participants:** 200
- **Website:** <https://ieeesg4sc.org/> and <https://www.eddie-erasmus.eu/events-eddie/eddie-at-ieeesg4sc-2021/>
- **EDDIE participant:** EDDIE Consortium
- **Type of participation:** Moderator, Speaker, Panelists, Participants, Audience
- **Presentation/Speech/ title:** Education in the digital within the energy sector: the EDDIE project (Professor Miguel Angel Sanchez Fornie); Emerging skill needs of the industry and skill offer of education providers on the digitalization of the energy sector (dr. Panos Kotsampopoulos).
- **Presentation abstract:** Miguel Angel SANCHEZ FORNIE - EDDIE Consortium Coordinator, Comillas University addressed during his presentation the European context of the Digitalization of Energy Sector, underlining the EC initiatives in this regard, key information about the EDDIE project like the methodology to review national systems defined by three main stages: review legal framework of VET, review structuring and functioning of VET, review position of vocational training in relation to energy transition and digitalization. All of these will help the identification of legislation-related, territorial, or organizational challenges for future skills delivery required by energy transition and digitalization.

Panos KOTSAMPOPOULOS - Senior Researcher, NTUA underlined in his presentation important aspects extracted from the Industry Survey and the Survey on Education and Training Providers conducted inside the EDDIE project. Challenges by sector were presented and the assessment of skill needs for the digital transformation by the industry and the skill offer by education and training providers led to the identification of skill gaps. It was found that the lack of adequate skills of employees is a very warning challenge and a useful insight for the EDDIE Project since the blueprint will attempt to mitigate those skill gaps. It also resulted that data management is also a significant challenge for the digital transformation. Some photos during the presentations can be found in the Figure 2-11.



Figure 2-11. Photos during the presentations of EDDIE Representatives during 2021 IEEE SG4SC

- **Relation to EDDIE:**

Additionally, EDDIE Project was part of the Project Zone of IEEE International Forum on Smart Grid for Smart Cities, by setting up a Virtual Booth. There, participants of the Smart Grid for Smart Cities event were able to interact with consortium representatives of the project and discover information about the project's overview, objectives, ongoing work and more other interesting details. The first-year brochure, the EDDIE project presentation video and relevant material have been uploaded on the platform for users to access them. For this event, a page was created on EDDIE website to disseminate the relevant information to all the stakeholders groups. The page can be found [here](#). After the event a lot of activities regarding dissemination and communication were carried out such as a press release on behalf of EDDIE consortium with the webinar highlights. A print-screen of this press release can be seen in Figure 2-12. All the activities were shared on the social media channels as well.

In addition, CRE created a dedicated page on its website and shared a lot of content among its members via email and social media. (more information can be found [here](#)). An example of a press release on behalf of CRE disseminated among its members can be found [here](#). All the dissemination activities were carried out via email and social media. A print-screen of the document can be seen in Figure 2-13.



EDUCATION IN THE DIGITAL ERA FOR DIGITALIZATION - "2021 IEEE INTERNATIONAL FORUM ON SMART GRID FOR SMART CITIES"  
CONFERENCE HIGHLIGHTS

EDDIE project participated and was part of the Project Zone in the Online Video-Conference organized by IEEE Smart Grid in collaboration with RWTH Aachen University. During the Conference, EDDIE Project – „Education for Digitalization of Energy”, created the context for the interventions in Tech Session 8 „Education in the Digital Era for Digitalization” on Tuesday, 23<sup>rd</sup> of March 2021, from 17:00 – 18:30 CET, within a lineup secured by distinguished professors and researchers from high ranked universities. The role of Education in the Digital Era for Digitalization and the Development of synergies with other innovation projects funded by the European Commission (EC) through the ERASMUS+ and H2020 program will create the framework for EDDIE Project to actively contribute to decisions in the process of Digitalization of the European Energy Sector (DEES).

Figure 2-12. 2021 IEEE SG4SC event highlights



EDUCATION IN THE DIGITAL ERA FOR DIGITALIZATION - "2021 IEEE INTERNATIONAL FORUM ON SMART GRID FOR SMART CITIES"  
CONFERENCE HIGHLIGHTS

1<sup>st</sup> of April 2021, Carina Ioana ZIDARU & Marta STURZEANU

The representatives of the Romanian Energy Center (CRE) Association participated in the Online Video-Conference organized by IEEE Smart Grid in collaboration with RWTH Aachen University. During the Conference, EDDIE Project – „Education for Digitalization of Energy”, created the context for the interventions in Tech Session 8 - „Education in the Digital Era for Digitalization” on Tuesday, 23<sup>rd</sup> of March 2021, from 17:00 – 18:30 CET (18:00 – 19:30 RO), within a lineup secured by distinguished professors and researchers from high ranked universities. The role of Education in the Digital Era for Digitalization and the Development of synergies with other innovation projects funded by the European Commission (EC) through the ERASMUS+ program will create the framework for EDDIE Project to actively contribute to decisions in the process of Digitalization of the European Energy Sector (DEES).

“2021 IEEE International Forum on Smart Grids for Smart Cities” ended its 3<sup>rd</sup> edition, a five-day Event, on the 23<sup>rd</sup> of March. In the session „Education in the Digital Era for Digitalization” were addressed different angles of the topic like New Trends in Education and Training in Engineering, Educational Services in Energy Transition, Education at the Nexus of Smart Grids and Smart Cities. EDDIE representatives, Miguel SANCHEZ-FORNIE and Panos KOTSAMPOPOULOS, covered the general context for the important role of Education for Digitalization within the Energy Sector presenting core insights about the project development supported by data results regarding Emerging Skill Needs of the Industry and Skill Offer of Education Providers during DEES.

Figure 2-13. CRE's press release to its members for 2021 IEEE SG4SC events

During the event, EDDIE project was also represented by a virtual booth, where all the stakeholders could interact with the project and exchange knowledge. A photo of this virtual booth is in Figure 2-14.



Figure 2-14. EDDIE's Virtual Booth during 2021 IEEE SG4SC event

### 2.1.6. IEEE PES PowerTech 2021

- **Date:** 28 June -2 July 2021
- **Location:** online
- **Type of activity:** Organization of an Event
- **Organisers:** IEEE PES with the support of Comillas University
- **Estimated participants:** 300
- **Website:** <https://www.powertech2021.com/>
- **EDDIE participants:** Comillas, NTUA, CRE
- **Type of participation:** Two presentations, within an special session panel
- **Presentation/Speech/ title:** Title EDUCATING FUTURE POWER ENGINEERS

IEEE POWER TECH ANNUAL CONFERENCE was held mainly online in spite that it was programmed to take place in Madrid, Spain. This highly respected international event had this year the umbrella title “Power for the sustainable development goals”. Within it, there was an special session in the form of a panel, moderated by professor Carlo Alberto Nucci (University of Bologna), entitled “Educating Future Power Engineers” where professors Panos Kotsampopoulos (NTUA) and Miguel A. Sanchez-Fornie (COMILLAS) gave presentations very much related to EDDIE, respectively, as follows:

- “Emerging Needs and Tools in Power System Education”. The presentation mainly focused on the new educational and training needs, the results of EDDIE’s industry and education surveys on the digitalization of energy, and the new technical tools for education and training. If we examine the latest educational and training needs, we come to the conclusion that there is a demand for new skills and expertise to foster the energy transition, a broader understanding of topics of different domains is necessary (i.e. electric power, heat, markets and definitely ICT where a holistic understanding is needed) as well as interdisciplinary approach and understanding of interactions. Finally, new educational approaches like lectures combined with simulations, e-learning,

- laboratories etc. are necessary. Regarding the skill gap surveys on industry and education we conclude that there is lack of adequate skills of employees which is a challenge for the industry and skill gaps converge towards data management and analysis, big data, cybersecurity, and programming & development competences
- “Education for Digitalization in Energy” with a detailed description of the Energy EU policy framework, objectives, content and achievements of EDDIE project.
- **Photo for the event:** Figure 2-15

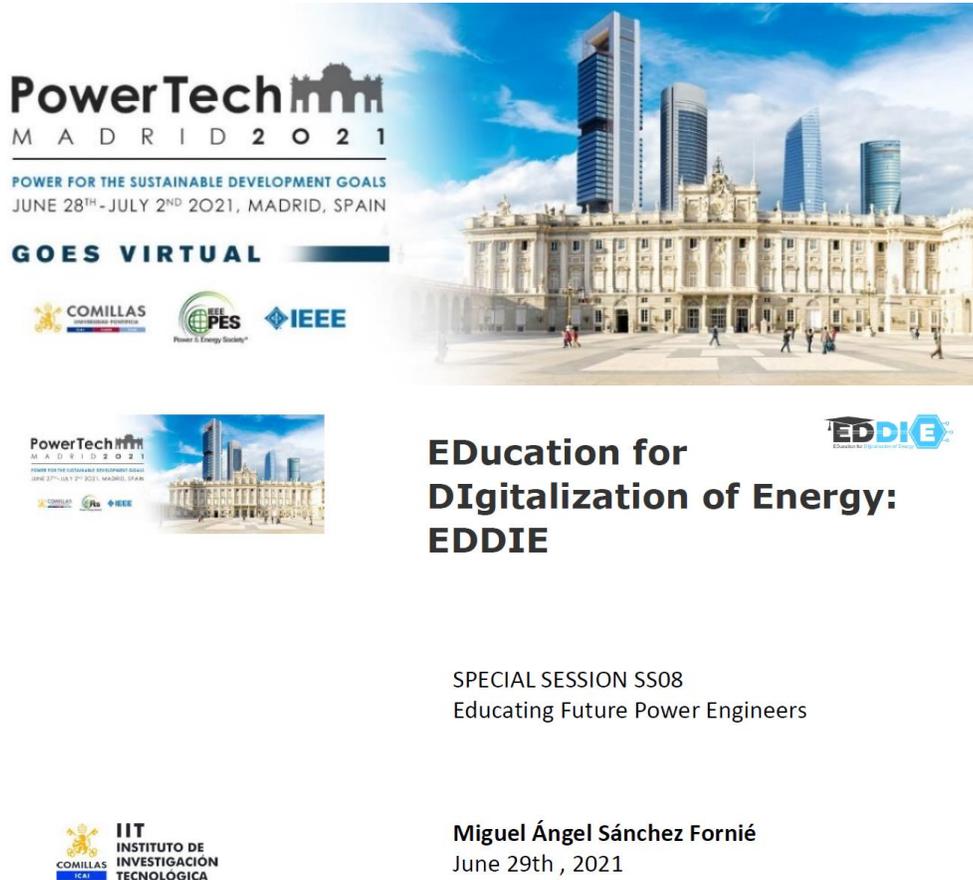


Figure 2-15. PES PowerTech 2021 banner and presentation of EDDIE.

### 2.1.7. Erasmus Days

- **Date:** October 14, 15, 16, 2021
- **Location:** online
- **Type of activity:** Participation to a Programme
- **Organizers:** EC
- **Estimated participants:** 2000
- **Website:** <https://www.erasmusdays.eu/>
- **EDDIE participant:** EDDIE Consortium
- **Type of participation:** Participant
- **Relation to EDDIE:**

Since #ErasmusDays is an initiative of the Erasmus+ French National Agency on the 30th anniversary of Erasmus+ and EDDIE Project is part of the Erasmus+ funded projects, we celebrated on 14, 15, 16 October the programme success and the benefits of the life-changing learning experience that offers. Institutions, organizations and individuals who have benefitted from an Erasmus+ funding could organize their events and share their project

results. The options for these events were endless: from exhibitions, conferences and discussion panels to poetry slams or digital events like e-tournaments, webinars or podcasts, EDDIE consortium decided to share all its dissemination activities under the hashtag #ErasmusDays. It was a great moment to spread the word about our project, share our experience and showcase the impact of EDDIE work.

- **Logo of the event:** Figure 2-16

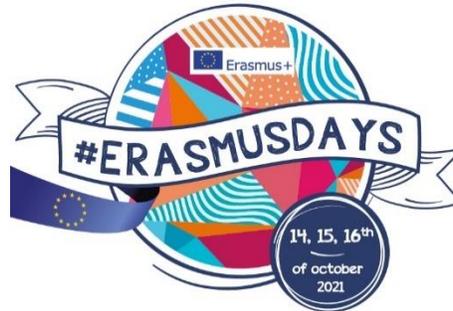


Figure 2-16 – Erasmus Days logo 2021

### 2.1.8. ENLIT EUROPE 2021

- **Date:** 30<sup>th</sup> of November – 3<sup>rd</sup> of December 2021
- **Location:** Hybrid Event
- **Type of activity:** Participation, Presentation, Fair.
- **Organizers:** Clarion Energy
- **Estimated participants:** 300
- **Website:** <https://www.enlit-europe.com/365>  
<https://www.enlit-europe.com/live>
- **EDDIE participant:** EDDIE Consortium
- **Type of participation:** Presentations, Participation to a Conference
- **Relation to EDDIE:**

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 30<sup>th</sup> of November through to 2<sup>nd</sup> 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, the new unifying brand for European Utility Week and POWERGEN Europe, brought the 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.

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 from CRE Representatives regarding the H2020 EU Funded Projects were addressed.

In the context of Enlit 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.

The representatives of the Romanian Energy Center Association (CRE) participated at Enlit Europe 2021 Event which took place on 30<sup>th</sup> of November – 2<sup>nd</sup> of December 2021. The Enlit Europe Event was organized In-Person in Milan, Italy and Online on Enlit Europe 365 Platform. The Romanian Energy Center Association was present at the EU Projects Zone pavilion, representing more European H2020 Funded Projects, in which CRE is a consortium member "CROSSBOW" – "CROSS BORDER management of variable renewable energies and storage units enabling a transnational Wholesale market", "PHOENIX" – "Electrical Power System's Shield against complex incidents and

extensive cyber and privacy attacks”; “EDGEFLEX” – “Providing flexibility to the grid by enabling VPPs to offer both fast and slow dynamics control services”, “TRINITY” – “Transmission System Enhancement of Regional Borders by Means of Intelligent Market Technology”.

For this event, on EDDIE website were posted relevant information under [Events](#) and [News](#) to disseminate it to all the stakeholders groups. After the event a lot of activities regarding dissemination and communication were carried out such as a press release on behalf of EDDIE consortium with the webinar highlights. A print-screen of this press release can be seen in Figure 2-17. All the activities were shared on the social media channels as well.

In addition, CRE shared a lot of content among its members via email and social media. An example of a press release on behalf of CRE disseminated among its members can be found [here](#). All the dissemination activities were carried out via email and social media. A print-screen of the document can be seen in Figure 2-18.



#### EDDIE Project at ENLIT EUROPE 2021

8<sup>th</sup> of December 2021

EDDIE project representatives participated and contributed at Enlit Europe 2021 Event which took place between 30<sup>th</sup> of November and 2<sup>nd</sup> of December 2021. The Enlit Europe Event was organized In-Person in Milan, Italy and Online on [Enlit Europe 365 Platform](#). CRE, COMILLAS and EDSO were at the EU Projects Zone pavilion, representing the European Commission (EC) Erasmus+ funded Project, “[EDDIE](#)” – “[Education for Digitalization of Energy](#)”, that was part of Enlit Europe Event in the [Online Environment](#), but also part of the EU Project Zone, in Milan. Project representatives interacted with stakeholders and presented the overview, the objectives and mission of EDDIE. The partners also highlighted some of the project in their portfolios of implementation such as: “[CROSSBOW](#)” – “[CROSS BOrder management of variable renewable energies and storage units enabling a transnational Wholesale market](#)”; “[PHOENIX](#)” – “[Electrical Power System’s Shield against complex incidents and extensive cyber and privacy attacks](#)”; [EDGEFLEX](#)” – “[Providing flexibility to the grid by enabling VPPs to offer both fast and slow dynamics control services](#)”, and “[TRINITY](#)” – “[Transmission System Enhancement of Regional Borders by Means of Intelligent Market Technology](#)”.

[Enlit Europe](#), the new unifying brand for European Utility Week and POWERGEN Europe, brought the best thought-leaders, innovators in the energy sector 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 this journey.

Figure 2-17. EDDIE's press release for ENLIT Europe 2021



#### REPRESENTATIVES OF THE ROMANIAN ENERGY CENTER ASSOCIATION WILL ACTIVELY PARTICIPATE AT ENLIT EUROPE 2021

24<sup>th</sup> of November 2021

The representatives of the Romanian Energy Center Association (CRE) will participate and will actively contribute at Enlit Europe 2021 Event which will be organized on 30<sup>th</sup> of November – 2<sup>nd</sup> of December 2021. The Enlit Europe Event will be organized In-Person in Milan, Italy and Online on [Enlit Europe 365 Platform](#). The Romanian Energy Center Association will be present at the EU Projects Zone pavillion, representing the following European H2020 Funded Projects, in which [CRE](#) is a consortium member (click on each Project to access the relevant ENLIT EU Projects Zone page):

- 1) “[CROSSBOW](#)” – “[CROSS BOrder management of variable renewable energies and storage units enabling a transnational Wholesale market](#)” (stand 12.EU29);
- 2) “[PHOENIX](#)” – “[Electrical Power System’s Shield against complex incidents and extensive cyber and privacy attacks](#)” (stand 12.EU12);
- 3) “[EDGEFLEX](#)” – “[Providing flexibility to the grid by enabling VPPs to offer both fast and slow dynamics control services](#)” (stand 12.EU25);
- 4) “[TRINITY](#)” – “[Transmission System Enhancement of Regional Borders by Means of Intelligent Market Technology](#)” (stand 12.EU28).

The European Commission (EC) funded Project, “[EDDIE](#)” – “[Education for Digitalization of Energy](#)”, in which CRE is also a partner, will be part of Enlit Europe Event in the [Online Environment](#).

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 will come together on the online platform and In-Person, in Milan from 30<sup>th</sup> of November through to 2<sup>nd</sup> of December, to meet and inspire each other and to develop their

Figure 2-18. CRE's press release on ENLIT Europe 2021

- **Photo from the event:** Some photos from the live event in Milan can be seen in Figure 2-19.



Figure 2-19. EDDIE at ENLIT Europe 2021

In addition, the EDDIE was part of the online platform, included in the EU project zone marketplace where the stakeholders and general public could interact with the project representatives, via chat or via email. (a print-screen of EDDIE virtual booth can be seen in Figure 2-20.)

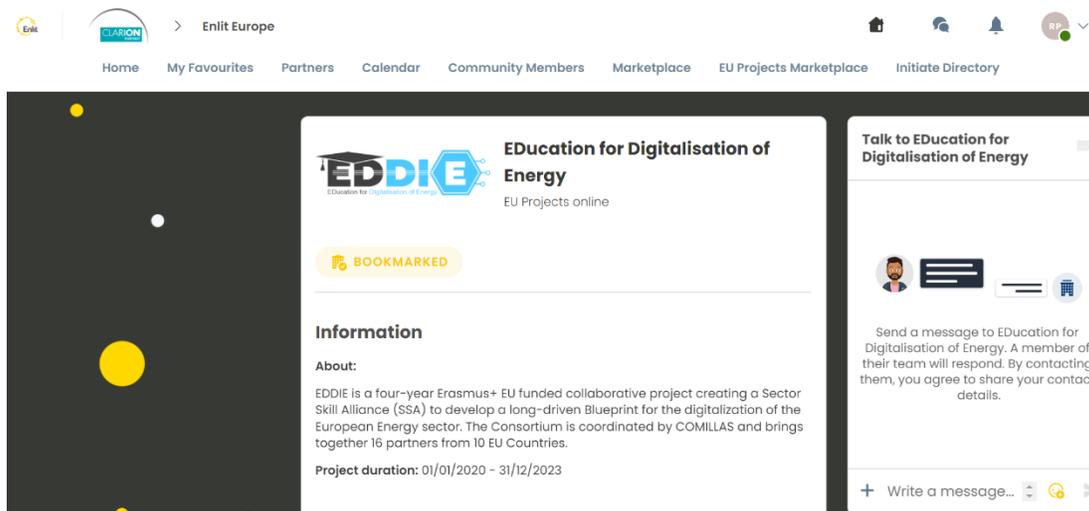


Figure 2-20. EDDIE's virtual booth at Enlit Europe 2021

### 2.1.9. Promoting Cooperation Between Digitalisation Of Energy Centres Of Expertise And Digital Innovation Hubs” Workshop

- **Date:** 25 February 2022
- **Location:** Online
- **Type of activity:** Participation, Presentation, workshop.
- **Organizers:** European Commission, DG ENER, DG CONNECT
- **Estimated participants:** 150 – 200 participants.
- **Website:** N/A
- **EDDIE participant:** EDDIE consortium
- **Type of participation:** Presentation
- **Relation to EDDIE and Feedback:**

The representatives of EDDIE Project participated and contributed at the Online Workshop „PROMOTING COOPERATION BETWEEN DIGITALISATION OF ENERGY CENTRES OF EXPERTISE AND DIGITAL INNOVATION HUBS”, organized by the European Commission, on Friday, 25th of February 2022. The European Commission, namely DG ENERGY and DG CONNECT organized this dedicated Workshop as the first step towards the creation of a platform to support innovation ecosystems - gathering national, regional, local, European institutions and energy and digital players to support investments, skills and expertise of strategic digital technologies in the energy system, from innovation to deployment.

The Workshop who aimed at collecting further input from stakeholders and other relevant Commission services, was structured in two Sessions: "The digitalisation of energy: Opportunities, challenges and needed actions for a EU-Local Innovation ecosystem" and "The way towards a European digital energy platform". During the Workshop, EDDIE Project was represented by Dr. Claudia BATISTELLI - Institute for Automation of Complex Power Systems of RWTH Aachen University. Ms. BATISTELLI addressed the important role of the Digitalization of the Energy Sector by sharing core insights about the digital energy technical topics, people's needs in terms of digital skills, as well as digital and energy local/regional innovation ecosystems.

Furthermore, opening Session 1 – "The digitalisation of energy: Opportunities, challenges and needed actions for a EU-Local Innovation ecosystem", Vincent BERRUTTO - Head of Unit, Research, Innovation, Digitalization, Competitiveness, DG ENERGY, presented in its introduction the main five areas of the Digitalization of the Energy Action Plan, namely Data Exchange Framework, Benefits for Consumers, Literacy, Skills and Digital Tools to Empower Citizens, Cybersecurity and Climate Neutrality of the ICT Sector. During the first panel, the assessments was for the need of horizontal and vertical sharing of best practices, the need for use-cases to be implemented into the real world, the need to coordinate the local realities and scale-up solutions that are developed at local and regional level.

The digitalization of the energy system can boost the European Union (EU) competitiveness, drive innovative solutions, and even open new global markets for components and services. Meanwhile, digital transformation should be an enabler for citizens, prosumers, and energy communities to play an active role in the energy markets. Digital solutions shall be seen as key enablers to accelerate the energy transition but also having an approach that is citizen and consumers centric. The main drivers shall be commitment, engagement, consensus, and awareness, not only when it comes to research and innovation or specific solutions but also on the need to integrate them in the energy system. The Digitalisation of Energy Action Plan, which will be adopted in June 2022, is therefore exploring actions to design an investment pathway targeting the entire energy value chain without neglecting the central role of citizens, prosumers, and energy communities.

„When it comes to local digital ecosystems, skills are very important. One of the top priorities for local digital ecosystems to be successful is to produce awareness of the opportunities that digital technologies offer and to ensure that the technological talent needed to cope with technological change is added to the local ecosystem. This means adding the required skills to the local labour market, but also beyond, to the society, to improve the lives of citizens. Another equally important thing is the capacity to attract talent and expertise, open talent networks to facilitate its awareness and improve the quality of life for people, and in the end the customers' quality of life” highlighted EDDIE representative – Dr. Claudia BATISTELLI.

Moreover, during the discussions in Panel 2 – „The Way Towards a European Digital Energy Platform”, the exchange of information was towards the features and characteristics of such platform, how to create synergies, how to create added value on top of existing solutions and what stakeholders to be involved. The main outcome was identified as the platform shall integrate other sector of activity, not only energy and digital sectors, but the platform would also help integrating multiple ecosystems, interaction with other platforms with the focus on creating an open environment for new players, new business models can emerge. The assessment was that the platform shall create a common language between energy, digital players, between different sectors and also involve small realities with the goal of accelerating innovation cycle and bringing digital solution into the energy sector. Professor Antonello Monti, Coordinator of OneNet and Platone projects, pointed out a long-term vision for engagement in digitalization: to create European-wide digital solutions, to create consensus from the beginning to establish a common way to keep solutions alive and locally engaged.

The role of Education in the Digital Era for Digitalization and the Development of synergies with other innovation projects funded by the European Commission (EC) through the ERASMUS+ program will create the framework for EDDIE Project to actively contribute to decisions in the process of Digitalization of the European Energy Sector (DEES).

For this event, on EDDIE website were posted relevant information under [Events](#) and [News](#) to disseminate it to all the stakeholders groups. A dedicated page for this event can be found [here](#). After the event a lot of activities regarding dissemination and communication were carried out such as a press release on behalf of EDDIE consortium with the workshop highlights. A print-screen of this press release can be seen in Figure 2-21. All the activities were shared on the social media channels as well.

In addition, CRE shared a lot of content among its members via email and social media. An example of a press release on behalf of CRE disseminated among its members can be found [here](#). All the dissemination activities were carried out via email and social media. A print-screen of the document can be seen in Figure 2-22.



#### EDDIE PROJECT CONTRIBUTED AT "PROMOTING COOPERATION BETWEEN DIGITALISATION OF ENERGY CENTRES OF EXPERTISE AND DIGITAL INNOVATION HUBS" WORKSHOP

28<sup>th</sup> of February 2022, EDDIE Consortium

The representatives of EDDIE Project – „Education for Digitalization of Energy" participated and contributed at the Online Workshop „*PROMOTING COOPERATION BETWEEN DIGITALISATION OF ENERGY CENTRES OF EXPERTISE AND DIGITAL INNOVATION HUBS*", organized by the European Commission, on Friday, 25<sup>th</sup> of February 2022. The European Commission, namely DG ENERGY and DG CONNECT organized this dedicated Workshop as the first step towards the creation of a platform to support innovation ecosystems - gathering national, regional, local, European institutions and energy and digital players to support investments, skills and expertise of strategic digital technologies in the energy system, from innovation to deployment.

Figure 2-21. EDDIE at the "Promoting cooperation between digitalisation of energy centres of expertise and digital innovation hubs"



#### THE REPRESENTATIVES OF ROMANIAN ENERGY CENTER ASSOCIATION PARTICIPATED AT "PROMOTING COOPERATION BETWEEN DIGITALISATION OF ENERGY CENTRES OF EXPERTISE AND DIGITAL INNOVATION HUBS" WORKSHOP

2<sup>nd</sup> of March 2022, Carina Ioana ZIDARU

The representatives of the Romanian Energy Center (CRE) Association participated at the Online Workshop entitled: „*PROMOTING COOPERATION BETWEEN DIGITALISATION OF ENERGY CENTRES OF EXPERTISE AND DIGITAL INNOVATION HUBS*", organized by the European Commission, on Friday, 25<sup>th</sup> of February 2022. During the Workshop, EDDIE Project – „Education for Digitalization of Energy", created the context for the interventions in Session 1 - „*The digitalisation of energy: Opportunities, challenges and needed actions for a EU-Local Innovation ecosystem*". The European Commission, namely DG ENERGY and DG CONNECT organized this dedicated Workshop as the first step towards the creation of a platform to support innovation ecosystems - gathering national, regional, local, European institutions and energy and digital players in order to support investments, skills and expertise of strategic digital technologies in the energy system, from innovation to deployment.

Figure 2-22. CRE press release on EDDIE participation at the workshop.

### 2.1.10. Skills for the twin green and digital transition. – EUSEW 2022 Extended Program

- **Date:** 22 September 2022
- **Location:** Online

- **Type of activity:** Organization of a policy session.
- **Organizers:** EDDIE Consortium, EdgeFLEX Project - Providing flexibility to the grid by enabling VPPs to offer fast dynamics control services, IEEE PES Task Force on Innovative Teaching Methods for Modern Power and Energy Systems, DG EMPL.B2.
- **Estimated participants:** 50 – 100 participants.
- **Website:** [https://european-sustainable-energy-week.b2match.io/agenda?track\\_id=21187](https://european-sustainable-energy-week.b2match.io/agenda?track_id=21187)
- **EDDIE participant:** EDDIE consortium
- **Type of participation:** Presentation
- **Relation to EDDIE and Feedback:**

To support the adoption and implementation of innovative solutions proposed by several research projects, the emerging occupations and industry-driven skills, regulatory framework and policies play an important role. Thus, the European education system must adapt and align with the requirements of green technologies and sustainable business solutions, for the increasing share of RES-based generation, digitalization and flexibility in operation, by mitigating the mismatch of skills between the industry and education.

The focus of the proposed session was to discuss and highlight some of the most significant skill gaps, the necessary curricula changes, and the most appropriate regulatory and policy measures required for the adaptation of technologies in the emerging digital era of the energy sector. All these challenges require specific knowledge and skills, not always present in the current work streams. Furthermore, another objective of the proposed session is to pave the way towards building a large-scale partnership under the Pact for Skills taking benefit from the Sectorial Skills Strategy that will be developed by EDDIE project.

The proposed interactive session combined the efforts of two project consortia, one (EdgeFLEX) promoting smart energy and cybersecurity solutions, which will trigger discussions on emerging technologies and associated skills needs and occupations. EDDIE (Erasmus+ funded project) will bring the perspective on education and the design of an industry-driven sector skills strategy on how to address the skills gaps and needs. This will be enhanced by the participation of the IEEE PES Task Force on Innovative Teaching Methods for Modern Power and Energy Systems, which investigates, creates, and promotes the use of innovative teaching methods and material in modern power and energy systems. The interaction with the audience during the session will be facilitated by using Slido.

The objective of the session was to identify and assess skills gaps, needs, high-impact policies and regulations in the Energy Sector, for energy transition through digitalization. The focus of the "Skills for the twin green and digital transition" highlighted some of the most significant skills gap, the necessary curricula changes, and the most appropriate regulatory and policy measures required for the adaptation of technologies in the emerging digital era of the energy sector. Furthermore, another objective of the session was to pave the way towards building a large-scale partnership under the Pact for Skills taking benefit from the Sectorial Skills Strategy that will be developed by EDDIE project.

Addressing skills gaps and need for the energy transition through digitalization and investigating the possibility of creation of a large-scale partnership for digitalization of the energy sector, the session was attended by more than 60 specialists from various organizations representing the education system, industry-energy companies, stakeholders from the administration domain, industry-ICT technologies and industry-engineering and services.

The proposed interactive session was moderated by Cristiana Marchitelli, on behalf of DG ENER that created the context of skills and required actions also from the point of view of the soon to be published Digitalization of the Energy Action Plan. The session combined the efforts of two project consortia, one EdgeFLEX promoting smart energy and cybersecurity solutions, which triggered discussions on emerging technologies and associated skills needs and occupations. EDDIE underlined the perspective on education and the design of an industry-driven sector skills strategy on how to address the skills gaps and needs. Moreover, the discussion were complemented by the participation of the IEEE PES Task Force on Innovative Teaching Methods for Modern Power and Energy Systems, which investigates, creates, and promotes the use of innovative teaching methods and material in modern power and energy systems.

During the discussions, Miguel Ángel Sánchez FORNIÉ – EDDIE Project Coordinator, COMILLAS highlighted interesting aspects: "Energy transition is a must and digitalization accelerates it. The result is a deep transformation of the energy sector. In terms of the Digital Education Action Plan there are two strategic priorities: fostering the development of a high-performing digital ecosystem and enhancing digital skills and competences for the digital transformation. With regards to the EDDIE project let me underline the importance of using European system for classification of jobs and skills such as CEDEFOP and the needed link with other European projects in the area of energy where education is a matter of interest".

"The energy transition has two main triggers related to High Renewable Penetration and Distributed generation, and the second one is about digitalization of energy. EDDIE Project put us in position to assess how the learning and education should be properly adapted to the new technologies and the new realities coming from the digitalization of the energy sector. Within the EDGEFLEX project, we have a cloud-based ICT solution containing a set of grid services referring to voltage control, inertia estimation, frequency control and VPP optimization and we are counting on several technology enablers such as policy-based grid control, edgePMU, edgeFLEX architecture and 5G communication", pointed out Mihai MLADIN – Romanian Energy Center (CRE).

Panos KOTSAMPOPOULOS - IEEE PES Task Force on Innovative Teaching Methods for Modern Power and Energy Systems mentioned that "This Task Force is responding to the emerging industrial needs in a complex multi-domain environment such as decentralization of energy production, multi-energy systems, new market models and digitalization. There is clearly a need for new skills and expertise in the power and energy sector and we have identified the needs of data analytics and machine learning training and tools for cyber-physical power systems, the needs for interdisciplinary approach for power systems cybersecurity and social, leadership and communication skills".

The new era of the energy system requires re-skilling and up-skilling across all levels to develop clean energy technologies and solutions. In the context of the Pact for Skills launched in 2020, Felix ROHN – DG EMPL pointed out key aspects: "The Pact for Skills aims to mobilise private and public stakeholders to take concrete actions. Skills partnerships allow to pool expertise and resources and make concerted efforts for up-skilling and re-skilling actions. There is a strong need to increase and maximise the impact of public and private skills investments. Investments in skills needs a joint effort".

During the panel discussions, Bianca DE VIVO – DG GROW underlined interesting aspects regarding the New Pact for Skills partnership to boost digital skills: "The digital ecosystem is very important and produce the need to bring new digital skills that needs to be implemented also in the ecosystem. It is an interesting ecosystem with a lot of challenges that have an impact in all the other ecosystems".

"The digital ecosystem does have the responsibility to re-skill and up-skill the people that work in the ecosystem itself but also to reach out the certain ecosystems", pointed out Joachim SCHWERIN – DG GROW.

In terms of cybersecurity solutions, Tero VARTIAINEN – CC-RSG, University of Vaasa mentioned that "The main idea of our project is to develop education and training in smart grid area from the point of view of cybersecurity. The technical and social aspects should interact. The other point of view in our project is real time simulation, how to model parts of smart grids to stand for inevitable attacks that occur in real time and how to learn from those attacks".

Regarding the regulatory framework, Charles ESSER – CEER pointed out that: "Indeed cybersecurity is very important. The network code should give a change to clean energy packages directives to be implemented in large scale areas. We need to stimulate demand side flexibility across Europe. From the regulators point of view there is a need to connect to society and our strategy is to empower consumers for the energy transition".

"ETIP SNET is the place where we can anchor also the skills dimension. We have a specific group looking at the digital technologies, digitalization and customers. The energy sector also faces a lot of issues regarding cyber security because we have these devices which are full of sensors, so we have many gateways, and we need to pay attention. I will mention the dimension of skills in the architecture, the need to have these types of skills that are looking at architecture of the different sectors which are able to create these interfaces and to integrate at the end. Real time is very important, as Tero said, because this requires acting immediately", pointed out Norela CONSTANTINESCU – ENTSO -E.

For this event, on EDDIE website were posted relevant information under [Events](#) and [News](#) to disseminate it to all the stakeholders groups. A dedicated page for this event can be found [here](#). Before and after the event a lot of activities regarding dissemination and communication were carried out such as a press release on behalf of EDDIE consortium with the workshop highlights. A print-screen of this press release can be seen in Figure **2-23**. All the activities were shared on the social media channels as well.



With the support of the  
European Programme  
of the European Union



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

**EDDIE PROJECT PARTICIPATED AT THE EUROPEAN SUSTAINABLE ENERGY WEEK 2022**

29<sup>th</sup> of September 2022, EDDIE Consortium

EDDIE Project participated to a policy session within European Sustainable Energy Week – EUSEW 2022, on 22<sup>nd</sup> of September 2022, 13:30 – 15:00 CET, hosted Online. The session “*Skills for the twin green and digital transition*” was part of the European Sustainable Energy Week 2022 Extended Programme, jointly organized by the EDDIE Project – Education for Digitalisation of Energy, EdgeFLEX Project – Providing flexibility to the grid by enabling VPPs to offer fast dynamics control services, IEE PES Task Force on Innovative Teaching Methods for Modern Power and Energy Systems, DG EMPL.B2, and DG ENER.

The objective of the session was to identify and assess skills gaps, needs, high-impact policies and regulations in the Energy Sector, for energy transition through digitalization. The focus of the “*Skills for the twin green and digital transition*” highlighted some of the most significant skills gap, the necessary curricula changes, and the most appropriate regulatory and policy measures required for the adaptation of technologies in the emerging digital era of the energy sector. Furthermore, another objective of the session was to pave the way towards building a large-scale partnership under the Pact for Skills taking benefit from the Sectorial Skills Strategy that will be developed by EDDIE project.

**EDDIE PROJECT WILL PARTICIPATE AT THE EUROPEAN SUSTAINABLE ENERGY WEEK 2022**

13<sup>th</sup> of September 2022, EDDIE Consortium

EDDIE Project is pleased to invite its stakeholders to a policy session within European Sustainable Energy Week – EUSEW 2022, on 22 September 2022, 13:30 – 15:00 CET, hosted Online. The session “*Skills for the twin green and digital transition*” is part of the European Sustainable Energy Week 2022 Extended Programme, jointly organized by the EDDIE Project – Education for Digitalisation of Energy, EdgeFLEX Project – Providing flexibility to the grid by enabling VPPs to offer fast dynamics control services, IEE PES Task Force on Innovative Teaching Methods for Modern Power and Energy Systems, DG EMPL.B2, and DG ENER.

The goal of the session is to identify and assess skills gaps, needs, high-impact policies and regulations in the Energy Sector, for energy transition through digitalization.

The focus of the “*Skills for the twin green and digital transition*” Session is to discuss and highlight some of the most significant skills gap, the necessary curricula changes, and the most appropriate regulatory and policy measures required for the adaptation of technologies in the emerging digital era of the energy sector. Furthermore, another objective of the session is to pave the way towards building a large-scale partnership under the Pact for Skills taking benefit from the Sectorial Skills Strategy that will be developed by EDDIE project.

Figure 2-23. Press releases before and after EDDIE policy session at EUSEW 2022.



- Visual identity of the policy session:
- Figure 2-24



Figure 2-24. Visual identity of EDDIE policy session.



- Picture from the event:
- Figure 2-25.



Figure 2-25. Speakers at "Skills for the Twin Green and Digital Transition" Policy Session within EUSEW 2022

### 2.1.11. European Sustainable Energy Week (EUSEW) 2022 – In-person

- **Date:** 26<sup>th</sup> – 30<sup>th</sup> September 2022
- **Location:** Brussels Charlemagne Building and Online
- **Type of activity:** Participation, Presentation, Fair.
- **Organizers:** European Commission
- **Estimated participants:** 1,500 in person delegates and 5000 online participants
- **Website:** <https://european-sustainable-energy-week.b2match.io/>
- **EDDIE participant:** E.DSO
- **Type of participation:** Presentation
- **Relation to EDDIE and Feedback:**

The European Sustainable Energy Week (EUSEW) is the biggest annual event dedicated to renewables and efficient energy use in Europe and comprises a series of activities aimed at building a secure and clean energy future for Europe.

It brings together public authorities, private companies, NGOs, EU project partners, researchers and consumers to promote initiatives to go green and digital for Europe's energy transition.

In the context of EUSEW, EDDIE Project was present on the European Distribution System Operator's (E.DSO) stand. This was an important opportunity to interact with various stakeholders and further disseminate the project.

The representatives of E.DSO participated at EUSEW 2021 Event which took place on the 26<sup>th</sup> – 30<sup>th</sup> of September 2022. EUSEW was organized In-Person in Brussels, Belgium and Online. E.DSO was present at the fair, representing more EU Funded Projects, either Horizon Europe or Horizon 2020 in which E.DSO is a consortium member. The latter include 'Large scale campaigns to demonstrate how TSO-DSO shall act in a coordinated manner to procure grid services in the most reliable and efficient way' (CoordiNet), 'PLATform for Operation of distribution Networks' (Platone), 'Interoperable Solutions Connecting Smart Homes, Buildings and Grids' (Interconnect), 'Boosting Engagement To Increase Flexibility' (BeFlexible), 'Interoperability Network for the Energy Transition' (IntNet) and 'One Network for Europe' (OneNet).

For this event, E.DSO had a stand whereby a presentation was played displaying all the projects including EDDIE. Different stakeholders approached the table to then further inquire about the projects. A picture from the event can be found below.



Figure 2-26. EDDIE being presented at EUSEW 2022

### 2.1.12. ENLIT Europe 2022

- **Date:** 29<sup>th</sup> of November – 1st of December 2022
- **Location:** In-person Frankfurt, Germany and Online
- **Type of activity:** Participation, Presentation, Fair.
- **Organizers:** Clarion Energy
- **Estimated participants:** 15,000 participants, 300+ Speakers, and 300+ exhibitors
- **Website:** <https://www.enlit-europe.com/365>  
<https://www.enlit-europe.com/live>
- **EDDIE participant:** EDDIE Consortium
- **Type of participation:** Presentations, Participation to a Conference
- **Relation to EDDIE:**

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 Frankfurt from 29<sup>th</sup> of November through to 1<sup>st</sup> 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, brought the 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.

EDDIE Project participated in this year's ENLIT Europe event held between the 29th of November and the 1st of December in Frankfurt, Germany. Enlit is a constantly growing, inclusive and end-to-end forum that addresses every aspect of the energy agenda. Throughout the year, Enlit Europe tries to ensure collaborations and innovative discussions to solve the most pressing issues in energy. Enlit Europe brings one face-to-face with the best thought-leaders, innovators and disruptors in the energy sector and beyond. The various exhibitors present, represent power generators, IPPs, utilities, grid operators, energy companies, retailers, energy markets, energy traders and exchanges, plus commercial and industrial energy users. Apart from the latter, the Exhibition Floor doesn't only offer leading organisations showcasing their latest tech, solutions and strategic insights, but different Zones, Country Pavilions and Hub Sessions. EDDIE was present in two locations which were the 'EU Project Zone' and the 'Global Smart Grids Innovation Hub' powered by Iberdrola.

Enlit Europe, in collaboration with the European Commission (EC) for the 5th consecutive year, offered a live platform where projects could introduce themselves to the public. The EU Projects Zone in Frankfurt was where the projects and their representatives came together for the 3 days and presented their projects either through the project stands, participation in the different sessions or both. This year, the programme of the EU Projects Zone focused on key topics and themes guiding the energy transition. Smart Grid, Energy Storage, Islands, Digitalisation, and RES (especially Wind and Solar) were the focus points of our programme. The project leaders and coordinators, representing many EU countries, met in Frankfurt and discussed successes and lessons learnt. Representatives from the EU Commission and associations also joined the various panel discussions.

In the context of Enlit Europe, EDDIE Project was part of the EU Project Zone in Frankfurt, together with other successful projects. This was an important opportunity to get in touch with the consortium, stakeholders and community members. E.DSO Representatives interacted with stakeholders and presented the overview, the objectives and mission of the EDDIE Project. Apart from the latter the EDDIE project was also present on the Iberdrola stand.

EDDIE consortium prepared roll-ups and brochures which were sent to Frankfurt prior to the event. These were then on full display for the entirety of the 3 days, both in the 'EU Project Zone' and also in the 'Global Grids Innovation Hub.' The roll up and the brochures depicted the EDDIE project in a simplified manner whilst also attracting interested parties. Throughout the 3 days interested stakeholders approached the 'European Distribution System Operators' (E.DSO) representatives, which were there representing the EDDIE consortium, enquiring about the project whilst also offering ideas and inputs. Stakeholders visiting the stand were also walked through the idea of the EDDIE database and highly encouraged to sign up. Apart from the latter interested parties were also invited to get in touch with the consortium, after Enlit, for the possibility of further discussions.

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 from E.DSO Representatives regarding the H2020. Horizon Europe and Erasmus+ EU Funded Projects were addressed.

For this event, on EDDIE website will be posted relevant information under [Events](#) and [News](#) to disseminate it to all the stakeholders groups. A dedicated page for this event can be found [here](#). After the event, dissemination activities are being prepared such as a press release on behalf of EDDIE consortium with the highlights of the

participation and stakeholder impact. A print-screen of a first draft of the press release can be seen in



#### EDDIE PROJECT PARTICIPATION AT ENLIT EUROPE, 2022

23<sup>rd</sup> December 2022, EDDIE Consortium

EDDIE Project participated in this year's ENLIT Europe event held between the 29<sup>th</sup> of November and the 1<sup>st</sup> of December in Frankfurt, Germany. Enlit is a constantly growing, inclusive and end-to-end forum that addresses every aspect of the energy agenda. Throughout the year, Enlit Europe tries to ensure collaborations and innovative discussions to solve the most pressing issues in energy. Enlit Europe brings one face-to-face with the best thought-leaders, innovators and disruptors in the energy sector and beyond. The various exhibitors present, represent power generators, IPPs, utilities, grid operators, energy companies, retailers, energy markets, energy traders and exchanges, plus commercial and industrial energy users. Apart from the latter, the Exhibition Floor doesn't only offer leading organisations showcasing their latest tech, solutions and strategic insights, but different Zones, Country Pavilions and Hub Sessions. EDDIE was present in two locations which were the 'EU Project Zone' and the 'Global Smart Grids Innovation Hub' powered by Iberdrola.

**Figure 2-27.** All the activities will be shared on the social media channels as well.



#### EDDIE PROJECT PARTICIPATION AT ENLIT EUROPE, 2022

23<sup>rd</sup> December 2022, EDDIE Consortium

EDDIE Project participated in this year's ENLIT Europe event held between the 29<sup>th</sup> of November and the 1<sup>st</sup> of December in Frankfurt, Germany. Enlit is a constantly growing, inclusive and end-to-end forum that addresses every aspect of the energy agenda. Throughout the year, Enlit Europe tries to ensure collaborations and innovative discussions to solve the most pressing issues in energy. Enlit Europe brings one face-to-face with the best thought-leaders, innovators and disruptors in the energy sector and beyond. The various exhibitors present, represent power generators, IPPs, utilities, grid operators, energy companies, retailers, energy markets, energy traders and exchanges, plus commercial and industrial energy users. Apart from the latter, the Exhibition Floor doesn't only offer leading organisations showcasing their latest tech, solutions and strategic insights, but different Zones, Country Pavilions and Hub Sessions. EDDIE was present in two locations which were the 'EU Project Zone' and the 'Global Smart Grids Innovation Hub' powered by Iberdrola.

Figure 2-27. EDDIE's press release for ENLIT Europe 2022

- **Photo from the event:** EDDIE participation at Enlit Europe can be seen in **Figure 2-28**.



Figure 2-28. EDDIE part of the EU project zone (right side) and EDDIE Roll up on the Iberdrola, Global Smart Grid Innovation Stand (left side)

In addition, EDDIE was part of the online platform, included in the EU project zone marketplace where the stakeholders and general public could interact with the project representatives, via chat or via email. (a print-screen of EDDIE virtual booth can be seen in

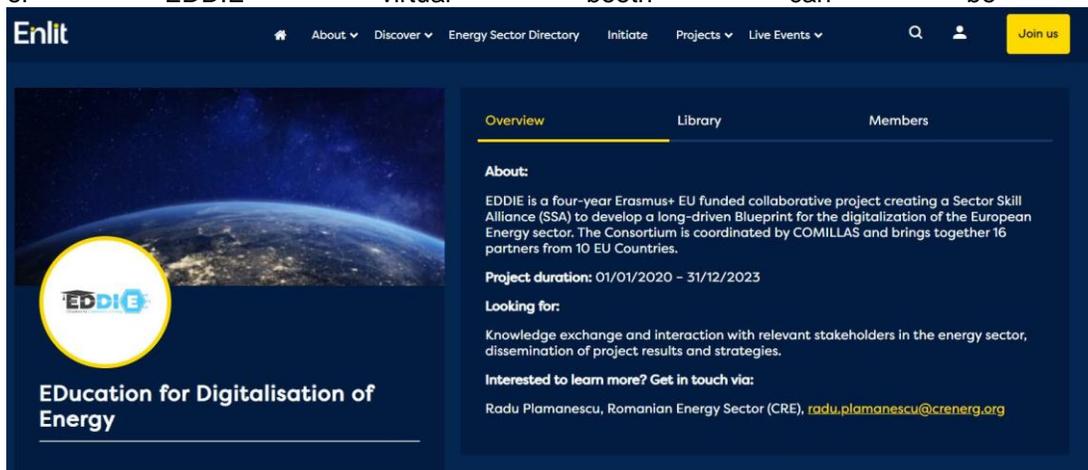


Figure 2-29.)

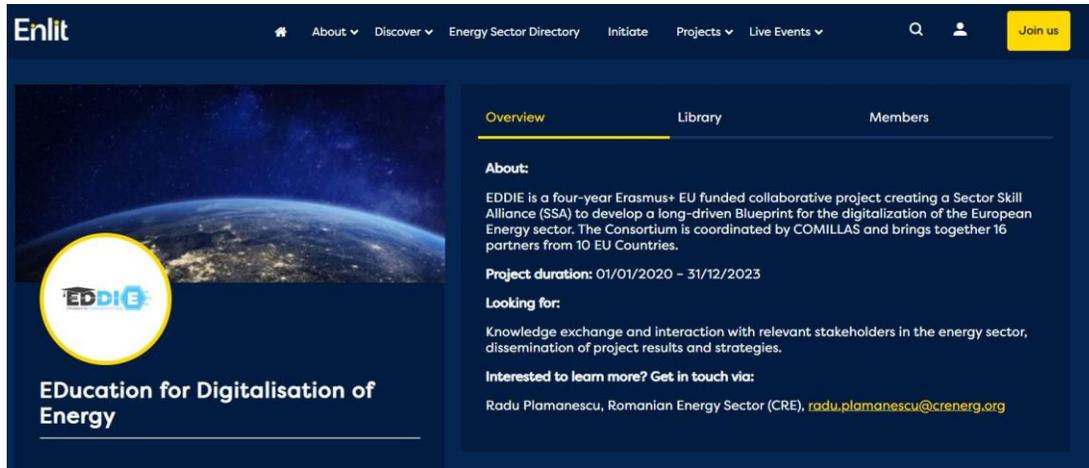


Figure 2-29. EDDIE's virtual booth at Enlit Europe 2022

### 2.1.13. EDDIE and Digital4Energy Joint Events

- **Date:** Multiple events in January, March, May and June 2023
- **Location:** In-person but also hybrid
- **Type of activity:** Organization and Presentations during multiple events
- **Organisers:** CRE and local universities
- **Estimated participants:** 200.
- **Website:** <https://crenerg.org/Digital4Energy/evenimente/>
- **EDDIE participants:** CRE and EDDIE Consortium
- **Type of participation:** Presentation, attendance.
- **Relation to EDDIE:**

An example of good practice in the field of education for the digitalization of energy, but also in other fields of activity, is the [Digital4Energy](#) project coordinated by the Romanian Energy Centre Association – CRE. It included actions to raise awareness of the importance of participation in continuing vocational training (CVT) programs among small and medium-sized enterprises in Romania. More specifically, 13 participating SMEs were supported in organizing in-house learning and specialization programs at the workplace and more than 400 employees from over 50 SMEs benefited from 10 CVT courses to improve specific digital skills.





Figure 2-30. Different pictures from the joint events of EDDIE and Digital4Energy

### 2.1.14. EDDIE's outcomes showcased at European Sustainable Energy Week 2023

- **Date:** 14 – 16 June 2023
- **Location:** Hybrid
- **Type of activity:** Participation and Presentation in an Event
- **Organisers:** The Hasso Plattner Institute for Digital Engineering
- **Estimated participants:** 100.
- **Website:** [https://sustainable-energy-week.ec.europa.eu/eusew-2023-highlights\\_en](https://sustainable-energy-week.ec.europa.eu/eusew-2023-highlights_en)
- **EDDIE participants:** E.DSO and EDDIE Consortium
- **Type of participation:** Presentation, attendance.
- **Relation to EDDIE:**

In June 2023, the outcomes of the project have been showcased during the EUSEW conference by various expert members of the EDDIE ecosystem. The hybrid event took place between the 20th and the 22nd of June 2023 and is the biggest annual event dedicated to renewables and efficient energy use in Europe. It was organised by the European Climate, Infrastructure and Environment Executive Agency (CINEA) and the Directorate-General for Energy. Moreover, the European Commission declared the year 2023, from the 9th of May 2023 up until the 9th of May 2024, as the European Year of Skills, which aims to address skills gaps in the European Union and boost the EU skills strategy, which will help reskill people. The focus is on digital and green technology skills. The idea is that throughout the year, relevant stakeholders will work together to promote skills development, and this could also be seen during the sessions presented in EUSEW.

During the "Revision of the Strategic Energy Technology Plan: boosting skills and competitiveness in clean energy technologies" panel, Maria Laura Trifiletti – coordinator of the European Technology and Innovation Platform Smart Network for Energy Transition (ETIP SNET), mentioned the EDDIE project and its results in terms of skills. She underlined that the consortium has identified on the technical side, skill gaps like cloud services, digital platforms, cybersecurity and communication technologies. By comparing the use of digital tools versus the training offer, a significant gap has been identified in cloud servers and online collaboration platform.

Moreover, during the panel discussion on the "Upskilling the EU's industrial workforce to create clean energy systems for electric mobility" Tzeni Varfi – Principal at the European Association representing the leading Distribution System Operators (E.DSO), spoke about digitalisation in general, and commented on how the EDDIE project is a relevant source of information in terms of skill needs, coverage and gaps.

The EDDIE consortium is pleased that the project had gained traction in the industry and is continuously dedicated to identifying the skills needed for the digitalisation of the energy sector in its transition, either through re-skilling, upskilling, or life-long learning at all levels of education.

In order to promote this action, the consortium produced a press release on the subject, share it with the relevant stakeholders and some print-screens can be found in **¡Error! No se encuentra el origen de la referencia..**



Figure 2-31. . EDDIE's outcomes showcases at EUSEW 2023

### 2.1.15. EDDIE Organized the 1st WORKSHOP on developing the LARGE-SCALE PARTNERSHIP for digitalization of energy

- **Date:** 27 June 2023
- **Location:** Online
- **Type of activity:** Organization of the 1<sup>st</sup> workshops on "Large Scale Partnership for Digitalisation of Energy"
- **Organisers:** EDDIE Representatives in collaboration with European Commission's (EC) Directorate-General for Internal Market, Industry, Entrepreneurship and SMEs (DG GROW) and Directorate-General for Energy (DG ENER)
- **Estimated participants:** 150
- **Website:** [https://eddie-erasmus.eu/wp-content/uploads/2023/07/230711\\_EDDIE-PROJECT-1st-WORKSHOP-ON-LSP.pdf](https://eddie-erasmus.eu/wp-content/uploads/2023/07/230711_EDDIE-PROJECT-1st-WORKSHOP-ON-LSP.pdf)
- **EDDIE participants:** EDDIE Consortium
- **Type of participation:** Organization of an Event, Presentation, attendance.
- **Relation to EDDIE:**

EDDIE representatives launched the first online workshop for the development of a "Large Scale Partnership for Digitalisation of Energy" on the 30<sup>th</sup> of May 2023. The event has been organized in collaboration with European Commission's (EC) Directorate-General for Internal Market, Industry, Entrepreneurship and SMEs (DG GROW), Directorate-General for Energy (DG ENER), Ecorys and 3S, to address the need of having a skilled workforce to accelerate the digital transition.

The main objective of the meeting was to discuss and establish the Agreement on which the Partnership will operate. Considering that a rapid clean energy transition and a fast digitalisation of the society are mandatory, the EC has established through a series of interlinked official initiatives like The Digital Decade Policy Program 2030, Action Plan on Digitalising the Energy System, Digital Education Action Plan, Green Deal Industrial Plan, Net-Zero Industry Act, The Pact for Skills, the need for a joint effort at the European level. Specifically, on the 18th of October 2022, through the Action 4.4 of the Digitalizing the energy system - EU action plan, the EC has manifested the intention to "Support the establishment of a large partnership on the digitalisation of the energy value chain as part of the EU's Pact for Skills".

Therefore, taking into account the EDDIE's activities focusing on the demand for skills from the industry, the offer from education and training institutions, the education and training systems of many European countries, the designed and implemented EDDIE DataBase to support a strategic map of stakeholders and the deployment of several demos and pilots, are qualifying the project ecosystem to be in charge of creating a Large-Partnership on skills for the digitalisation of the Energy System (the Partnership). The strategy was to build on the results and platform of EDDIE project to achieve the digital skills required by the European energy system during its transition.

Currently, the EDDIE ecosystem is supported by its members pathing the way towards ensuring the sustainability of the skills strategy and blueprint. The services implemented will aim to connect stakeholders and disseminate useful information related to skills gaps, training, validation, certification, monitoring and research. They will show available training programmes and employment opportunities, as well as sector-related tools and systems.

After the Agreement approval, the Partnership will be coordinated by EDDIE and all types of activities related to education and skills of the digitalisation of the energy value chain may be performed, based on the specific partners' commitments taken when adhering to the Partnership.

A set of commitments and KPIs will be agreed for the well-functioning of the Partnership and will include coverage of the partnership; communication, dissemination, and policy recommendation activities; assessments on skills intelligence in the sector; commitment on training programmes and the promotion of careers in the energy value chain.

To promote this action, the consortium produced a press release on the subject, share it with the relevant stakeholders and some print-screens can be found in Figure 2-32.



Figure 2-32. EDDIE at the 1st WORKSHOP on developing the LARGE-SCALE PARTNERSHIP

## 2.1.16. EDDIE Organized the 2<sup>nd</sup> WORKSHOP on developing the LARGE-SCALE PARTNERSHIP for digitalization of energy

- **Date:** 27 June 2023
- **Location:** Online

- **Type of activity:** Organization of the 2<sup>nd</sup> workshops on "Large Scale Partnership for Digitalisation of Energy"
- **Organisers:** EDDIE Representatives in collaboration with European Commission's (EC) Directorate-General for Internal Market, Industry, Entrepreneurship and SMEs (DG GROW) and Directorate-General for Energy (DG ENER)
- **Estimated participants:** 150
- **Website:** [https://eddie-erasmus.eu/wp-content/uploads/2023/07/230711\\_EDDIE-PROJECT-1st-WORKSHOP-ON-LSP.pdf](https://eddie-erasmus.eu/wp-content/uploads/2023/07/230711_EDDIE-PROJECT-1st-WORKSHOP-ON-LSP.pdf)
- **EDDIE participants:** EDDIE Consortium
- **Type of participation:** Organization of an Event, Presentation, attendance.
- **Relation to EDDIE:**

In June 2023, EDDIE representatives hosted the second online workshop for the development of a "Large Scale Partnership for Digitalisation of Energy". The event has been organized in collaboration with Ecorys, European Commission's (EC) Directorate-General for Internal Market, Industry, Entrepreneurship and SMEs (DG GROW) and Directorate-General for Energy (DG ENER) to address the need of having a skilled workforce to accelerate the digital transition.

The 2<sup>nd</sup> workshop has been registered at The European Year of Skills which is putting skills at the heart of the EU policy debate. This EU's initiative is a key one for the project since it is in line with its objectives and having a workforce with the skills that are in demand contributes to sustainable growth, leads to more innovation and improves companies' competitiveness. Throughout the year, various stakeholders, including the Commission, the European Parliament, Member States, social partners, public and private employment services, chambers of commerce and industry, education and training providers, as well as workers and businesses, will work together to promote skills development.

To promote this action, the consortium produced a press release on the subject, share it with the relevant stakeholders and some print-screens can be found in Figure 2-33.



Figure 2-33. EDDIE at the 2nd WORKSHOP on developing the LARGE-SCALE PARTNERSHIP

### 2.1.17. Enlit Europe 2023

- **Date:** 28-30 November 2023
- **Location:** Paris/Online
- **Type of activity:** Participation in an Event
- **Organisers:** Enlit
- **Website:** <https://www.enlit-europe.com/2023/day-1-highlights>
- **EDDIE participants:** All EDDIE Partners
- **Type of participation:** Attendance and contributions to sessions and panels.

- **Relation to EDDIE:**

Guests from business, research, innovation and society met in Paris for the Enlit Europe 2023. The three-day event with summit, hub and keynote sessions has been completed by the exhibition floor and the specific zones and pavilions. EDDIE representatives from NTUA partner have been present at the event and disseminated the projects results and outcomes. A European Project Zone was created at the venue to share best practices, findings, and technologies with the Enlit audience.

The conference provided a space for energy leaders, start-ups, scale-ups and entrepreneurs to learn about new technologies and new insights related to the energy transition. Enlit Europe is a critical opportunity for energy leaders to meet and learn from each other.

A SET-PLAN session "Empowering the Energy Transition" at ENLIT Europe 2023 referenced EDDIE project in one of the panel presentations. In the revised Set Plan upskilling and reskilling of the workforce is considered of paramount importance to meet the needs of a new energy and societal model. The key findings of EDDIE project, which is an industry-driven activity, indicate that challenges are not particularly differentiated among energy system sectors regarding digitalisation, namely: Technology integration, Data management and IT security issues. The industry also indicate the ability to easy learn new technical innovations, combined with logical thinking and the ability to quickly analyze data as very important qualities. Besides technical skills, green skills (energy efficiency, recycling, health and safety concerns, renewable sources, etc.), transversal skills, resilience and adaptability techniques are equally important.

- **Number of participants:** 10000
- **Photo of the event:** Figure 2-34.

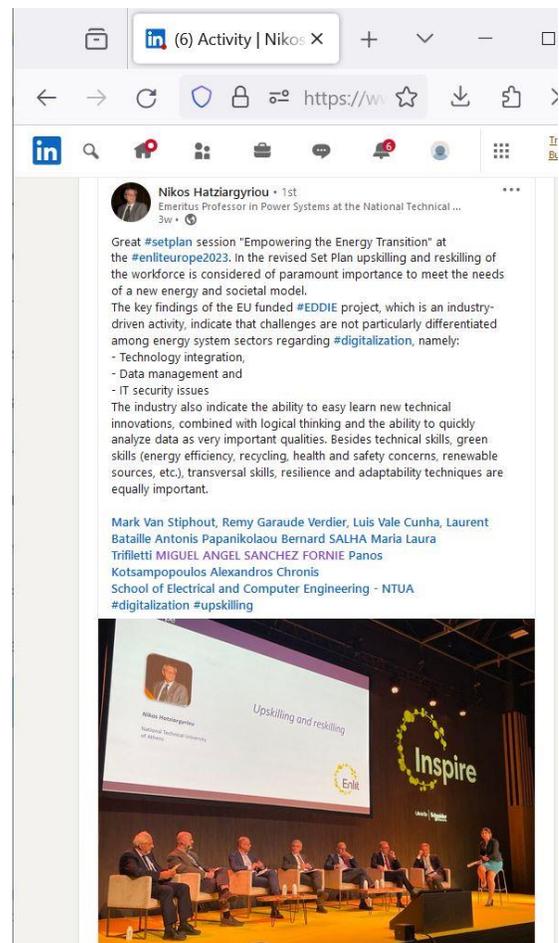


Figure 2-34. EDDIE at ENLIT Europe 2023

### 2.1.18. EDDIE Final Event and LSP on the Digitalisation of the Energy System

- **Date:** 14 December 2023
- **Location:** Belgium /Online
- **Type of activity:** Organizing an Event
- **Organizers:** EDDIE Consortium
- **Estimated participants:** 80
- **Website:** <https://eddie-erasmus.eu/events-eddie/eddie-final-event/>
- **EDDIE participants:** EDDIE Consortium
- **Type of participation:** Organization of an international event.
- **Relation to EDDIE:**

The EDUcation for DIgitalization of the Energy Project organized its final event - "EDDIE Final Event and LSP on the Digitalisation of the Energy System" - after almost four years of constant activity of the European Consortium which implemented the project. The event took place on Thursday, 14th December 2023, at the Permanent Representation of Romania to the European Union in Brussels and it was dedicated to identifying and assess skills gaps, needs, high-impact policies and regulations in the energy sector, for energy transition through digitalization. The focus of the event was on the emerging digital era of the energy sector, but also on the way towards building a Large-Scale Partnership (LSP) under the [EU Pact for Skills](#) initiative taking benefit from the Sectorial Skills Strategy that will be developed by EDDIE project. The consortium is pleased to announce that the European Commission (EC) [promotes the strategic partnership](#) for skills to advance the digitalisation of the energy system.

#### EDDIE FINAL PROJECT MEETING – SESSION 1

Opening the EDDIE Final Event and LSP on the Digitalisation of the Energy System, Miguel Ángel SÁNCHEZ FORNIE - Associate Researcher at Institute for Research in Technology, belonging to the School of Engineering, COMILLAS, and coordinator of the project pointed out the aim of the event of presenting all the results, achievements and outcomes of the EDDIE project, as well as to promote the Large-Scale Partnership, that, move is a further step in the EU response to the shortage of skills linked to the clean energy transition. In his introductory speech, Mr. FORNIE, underlined that *"The main objective of this SSA was to develop a long-driven Blueprint for the digitalisation of the European Energy sector to enable the matching between demand the current and future demand of skills necessary for the digitalisation of the Energy sector, and supply - the supply of improved VET and beyond (University, LLL)"*

After a short introduction, the coordinator of the project invited Mr. Pavol Krempasky, project officer for EDDIE on behalf of the funding Agency, to address a few words in the context of the final event in the context of EC visions for greener, more digital and more resilient future. He pointed out the collaboration and innovations carried out within the project as a way of commitment to advancing the digital transformation of energy systems, aligning seamlessly with the European Union's strategic objectives for sustainability and efficiency. The achievements of EDDIE paved the way for the development of the large-scale partnerships to drive meaningful change in this critical sector. The EC will benefit from the dedication and expertise of all involved stakeholders and will leverage the insights gained from EDDIE for endeavors in the pursuit of a more sustainable and digitally integrated energy landscape.

Further on, Roberto ZANGRANDI - Secretary General - E.DSO for Smart Grids, gave a keynote introduction. Mr. Zangrandi mentioned that we are discussing about digitalisation since long time ago, and he mentioned that the E.DSO will continue to support digitalization of the energy system and that large distributors are extremely attentive in bridging the gap between competences. Their investments are significant in the area of upskilling and reskilling of their resources. Mr. Zangrandi underlined that *"The role of the LSP is to cooperate with academia, corporate university, the institutions in order to promote and sustain the evolution."*

Dr. Panos KOTSAMPOPOULOS - Senior Researcher at National Technical University of Athens (NTUA), addressed the skills gaps and needs by presenting the main outcomes of the WP2. He started by describing the methodology used, challenges, current and emerging skill needs and gaps. Mr. Kotsampopoulos mentioned also the surveys conducted, underlining that the key area that present skill gaps towards digitalization converge towards data management and analysis, bug data, cybersecurity and programming & development competences. "The

(electric) power sector showcases the biggest skill gaps” pointed him. “University curricula, online training platforms and industrial training programs cover several aspects of digitalisation, yet there is plenty of room for improvement to foster digital transformation.”, said the Senior Researcher.

Michela CREMONA - Projects Officer at E.DSO, spoke about the stakeholders’ identification, classification, and characterization topic, mostly covered in the WP3. The process behind was to first identify the stakeholders (industry, education, administration, social & others, and individuals), to map them based on impact metrics and to create in the end a very well-connected network. Ms. Cremona underlined that *„The Strategic Network: The Database summarizes at this moment 55 members and 25 entities.”* She said that *“Jobs marketplaces, training programs, tools & systems marketplaces, and marketplaces for other services have been identified and used to determine the stakeholders’ interest”*.

Berna BALCI - Research Associate at RWTH Aachen University addressed the subject of EU context for skills and how synergies can be developed. Ms. Balci mentioned that the topic has been done in the project by the assessment of the policies and requirement, part of the WP4 that targeted the preparation and evaluation of the best practices for Vocational Education and Training (VET) and Long-Life-Learning (LLL) at national, regional and European level and about the synergies with European frameworks. As such, a series of best practices have been collected for VET, university education and LLL. *“One of the synergies is emphasis on digital literacy, digital competencies, and digital fluency in education”*, she mentioned.

Fernando DE CUADRA – Professor, COMILLAS and coordinator of the project talked about the Blueprint strategy and about the sector skills strategy. Mr. de Cuadra presented the methodology and tasks of the EDDIE strategy, but also the results based on 4 candidate services (marketplaces on dissemination, training, jobs and systems). The main outcomes of the strategy are the “Entity” (Association) and the LSP. *“The research and dissemination portal, that will be a living observatory of the technologies, state of the art, inform source for both the training providers and companies about future needs so that can anticipate their training plans.”*, underlined Mr. de Cuadra. Other ideas are training programmes, jobs, tools & systems marketplace and other services.

Eduardo Lessa – NTT Data talked about the implementation of the Training Programme Marketplace. First, Mr. Lessa detailed what EDDIE Database represents: information collector of the online website in order to manage the wide variety of data regarding energy digitalization. In the database context, a training programme (TP) is a set of structured fields compiled and managed by the Entity Official Content Editor. Further, he explains, “There are 2 actors, TP supplier (ex: institution) and TP consumer (ex. student)” that have the possibility to filter the page and access the training that is of interest and read all the information related.” The next step of the TP will consist in future updates after feedback from users, validation workflow, virtual assistant and option to clone an existing training.

Alexandro CHRONIS – Researcher, NTUA presented the validation and pilot sites experiences. The central pilot was performed in the city of Aachen and 4 smaller pilot sites in Cologne, Athens, Milano and Spain. The implementation was followed by an assessment to measure the impact of the activities. Mr. Chronis revealed that *“The main finding from the Aachen pilot are the enhanced understanding and interest of participants of the energy grid and the digitalization of the energy transition, focus on career exploration, improvement potential of used demonstrating objects with small updates, hands-on, interactive approaches are effective in motivating participant and enhancing interest.”*

## Roundtable for the Association for Digital Skills in Energy

The moderator of section *Roundtable for the Association for Digital Skills in Energy*, part of the Session 1, Miguel Ángel SÁNCHEZ FORNIÉ, presented the speakers and led the conversation, mentioning that in January 2024, in accordance with Belgium’s laws, a legal, non-profit Association will be implemented.

Zabala Innovation (leading international consultancy firm in innovation strategy and R&D financing), represented by Alessandro PROVAGGI and Maria Laura TRIFLETTI, presented the way in which they will support the establishment and management of the new Association. *“Zabala is excited to be part of the initiative, since we also supported Comillas at the proposal writing stage. There are some projects that bring a lot of value to the sector and EDDIE is such a project.”*, mentioned Mr. Provaggi. Further, Ms. Trifletti underlined: *“The EDDIE Entity, The Association, will function based on a set of strategic objectives (need to match with the EC intentions, like support*

research & education initiatives that promote digital literacy) and operational objectives (keep & maintain EDDIE's strategy)."

PIERSTONE Brussels (full-service law firm for the digital economy), represented by Patrice VANDERBEEKEN, presented the way in which he supported the drafting of statute. The option was a regular non-profit entity, which can have regular members (membership fee, voting rights in GA, participation in WG/TF, director) and associate members (contribution to certain costs, no voting rights in GA, no director). The Association will have a secretariat for daily management and a president with director for all matters towards third parties. Mr. VANDERBEEKEN, mentioned that "The incorporation should not take longer than 2 weeks and it will have a legal personality."

## LARGE-SCALE PARTNERSHIP (LSP) ON THE DIGITALISATION OF THE ENERGY SYSTEM – SESSION 2

The moderator of the second session "LARGE-SCALE PARTNERSHIP (LSP) ON THE DIGITALISATION OF THE ENERGY SYSTEM" was Mr. Miguel SANCHEZ-FORNIE who introduced the speakers and led the panel discussions.

Karsten KRAUSE - Head of Sector, Directorate-General for Energy (DG ENER), European Commission underlined that there is a positive trend on the employment in the energy sector, and looking on not only in the industry, but also on the the SMEs, in the surveys, four SMEs said that they already faced some shortages when they wanted to hire new employees. " *We need to have the right skills needed for a clean tech industry*". Digitalization is one of the driving factors and a game changer for the energy sector. " *We talked this morning about the Action Plan that we published and we are trying to see what digital innovation could mean for the energy sector moving towards digital innovation that needs digital business models in the industry, for the consumers and for SMEs side*". Mr. Karsten pointed out that the Large-Scale Partnership on digitalization of the energy system is harmonising the work in the different areas and indicates some milestones that needs to be coordinated with the stakeholders to start the partnership agreement.

Felix ROHN, Policy Officer, Directorate General for Employment, Social Affairs and Inclusion (DG EMPL), European Commission stressed out that: " *We have now more and more Large Scale Partnership like Digitalization of the Energy System and we want to support them. The Pact for Skills and the Large-Scale Partnership are here to stay and support you, and we want of course also, observe the work, the training programmes, the people who are trained and change their carrer because of the impact of the Large-Scale Partnership.*"

### Panel Presentation of the Partnership Agreement of the LSP for the Digitalisation of the Energy System

The moderator, Mr. Miguel Ángel SÁNCHEZ-FORNIÉ, presented the panel speaker, mentioning the challenges in the Energy Sector and there is an unprecedented transformation. " *The Strategic View that is mentioned in the Digital Action Plan and states that was created the Large-Scale Partnership on Skills for the Digitalization of the Energy Sector with the vision of achieving the Digital Skills, as required by the European Energy Sector, during its transition building on the results and platform of the EDDIE Project.*"

Mr. Nikos HATZIARGYRIOU - National Technical University of Athens – NTUA underlined the importance of ETIP-SNET Platform that is important to support the partners in the Large-Scale Partnership. " *ETIP-SNET is a platform which gathered all the stakeholders of energy, meaning TSOs, DSOs, flexible generators, renewable, storage, ICT and also research and acadamia. It is an important tool in development of the skills.*" Mr. Nikos concluded his remarks that can confirm the high interest of ETIP-SNET in the Partnership activities.

Mr. Vasileios ZOTAKIS, Novel Group Sarl – NOVEL recall the words of Dr. Panos KOTSAMPOPOULOS from NTUA, that there is a large demand on skills about cybersecurity, data management and the gap in the E-Learning Platforms that could be developed. " *The training materials and the standardization are most important. This is actually the first step, what we have done so far, we have opened the market of digitalization in the energy systems about skills, public and private bodies that cooperate together with tools like surveys, digital tools*". Mr. Vasileios stressed out that the Vocational Education Training and the certification as well is the best combinations that is needed for young people in the framework of the employment market, that needs training courses, specializations and connecting them with the energy market.

Lorant DEKANY, European Network of Transmission System Operators for Electricity - ENTSO-E pointed out regarding the Large-Scale Partnership for Digitalization of the Energy sector and the fact that it is a huge opportunity.

This requests high commitment for ENTSO-E from multiple sides. *"We are currently working on the implementation of the Digitalization of the Energy System Action Plan. We hope that the Large-Scale Partnership will bring the skills workforce that is required and that will be to a centralized level"*.

Mihai Mladin, Romanian Energy Center – CRE highlighted that EDDIE Consortium succeed to create synergies in the context of European Projects, and to build in a proper way the project results. *"We are in the middle of the energy transition. The digitalization is a key point. There are two main triggers that determines the energy transition: high renewable penetration and distributed generation and this two are envolving the digitalization of the energy sector. We are finally in position to have skilled people to properly run these solutions and this was the main gap."* Mihai also pointed out the important foundation for education for digitalisation in energy sector that EDDIE promoted and the synergies that have been developed at national and European level in this context.

In this framework, the European Commission [recently published](#) an article that promotes the strategic large-scale partnership for skills to advance the digitalisation of the energy system. This new large-scale skills partnership is an important action identified in the Action Plan for the Digitalisation of the Energy System, adopted in October 2022, to deliver on the Commission priorities of the European Green Deal and the digital transition – also in line with the REPowerEU plan. It will complement existing skills partnerships in the renewable energy industrial ecosystem regarding on- and offshore renewable energy, as well as the digital ecosystem skills partnership.

## Final Remarks

In the Final Remarks, Ms. Cristiana MARCHITELLI, Policy Officer, Directorate-General for Energy (DG ENER), European Commission pointed out the challenges faced when drafting this Digitalization of Energy Action Plan regarding the consumers engagement, realized that to boost the competitiveness of the sector and to create the services that not only could be competitive, but to be usefull for the society, we need to have skills trained workforce to actually create those products and services. *"If I can tell what I would like for the project to go further is to have even more concrete objectives, because the Partnership Agreement sets and indication of the path forward, but I would like that once the Entity is established, all the Partners came together to have a clear idea of the target and the timeline and clear milestones"*. Ms. Cristiana concluded with the need to identify the target stakeholders and then to come up with an objective that creates concrete outputs.

- Number of participants: 80
- Photo of the event: Figure 2-35.

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

# SAVE THE DATE

## EDDIE FINAL EVENT

14 DECEMBER 2023

9:00 – 17:00 CET

Permanent Representation of RO to the EU –  
107 Avenue de Cortenbergh, Brussels, Belgium

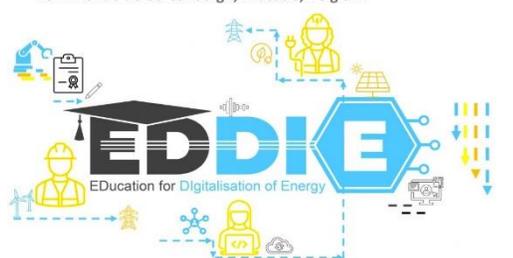




Figure 2-35. EDDIE Final Event and LSP on the Digitalisation of the Energy System

## 2.2. Events where members of the EDDIE consortium took benefit of their attendance and mentioned EDDIE project.

### 2.2.1. University of Sevilla Department of Electrical Engineering Webinar

- **Date:** 6 November 2020
- **Location:** Online
- **Type of activity:** Webinar
- **Organisers:** University of Sevilla Department of Electrical Engineering
- **Website:** <http://departamento.us.es/ielectrica/wp-content/uploads/2020/10/WEBINARS-Dr.-Panos-Kotsampopoulos.pdf>
- **Participant:** NTUA
- **Type of participation:** Presentation by Panos Kotsampopoulos
- **Presentation/Speech/ title:** New trends in power system education: HIL simulation, remote/virtual labs, interactive notebooks, and advanced educational methods.
- **Presentation abstract:** The presentation mainly focused on the new and advanced educational methods while presenting the results of EDDIE's industry and education surveys on the digitalization of energy, and the new technical tools for education and training.
- **Relation to EDDIE:** Assessment of the new and advanced educational methods and identification of the skill gaps between education and training skills offer and the industry demands in order to achieve better education and training for the digitalisation of energy.
- **Photo from the event:** Figure 2-36.




**Departamento de Ingeniería Eléctrica**  
**E.T.S. Ingeniería - Universidad de Sevilla**


**Máster en “Sistemas de Energía Eléctrica”**  
**y Máster en “Ingeniería Industrial”**  
**Doctorado Interuniversitario en “Sistemas de Energía Eléctrica”**

**WEBINARS**

**Dr. Panos Kotsampopoulos**  
National Technical University of Athens (NTUA)

1) 4/11/2020, 12:00-14:00, Real time simulation: key features, applications and interfacing issues.

2) 5/11/2020, 12:00-14:00, Voltage control in distribution networks, microgrids and islanded system.

3) 6/11/2020, 10:00-12:00, New trends in power system education: HIL simulation, remote/virtual labs, interactive notebooks and advanced educational methods.

<http://departamento.us.es/ielectrica/eventos/>


PROGRAMA IBEROAMERICANO DE CIENCIA Y TECNOLOGÍA PARA EL DESARROLLO

Asociación de Investigación y Cooperación Industrial de Andalucía  
Centro de Excelencia Cervera, otorgado por el Ministerio de Ciencia e Innovación y del CDTI, bajo el expediente CER20191019.

Figure 2-36. Presentation during the Webinar hosted by the University of Sevilla

### 2.2.2. ENTSO-E and E.DSO first InnoGrid virtual session on key role of electricity networks in the energy transition

- **Date:** 18 June 2020
- **Location:** online
- **Type of activity:** Participation and organization of an Event
- **Organisers:** EDSO and ENTSO-E
- **Estimated participants:** 200
- **Website:** [https://ec.europa.eu/social/vocational-skills-week/index\\_en](https://ec.europa.eu/social/vocational-skills-week/index_en)

- **EDDIE participant:** EDDIE Consortium
- **Type of participation:** Audience, Participant
- **Relation to EDDIE:** The European Distribution System Operators' Association (E.DSO) and the European Network of Transmission System Operators for Electricity (ENTSO-E) organized this year's InnoGrid edition as two independent webinars. InnoGrid's objective has always been to highlight what is new on innovation and to feature some of the leading R&D projects in Europe. In the first webinar, on June 18th, thoughts and projects were presented to contribute in making the Green Deal a reality. Richard Vidlička, responsible for Innovation and International Grid Projects at CEZ Distribuce and Chair of E.DSO Projects Committee stressed once again the crucial role of EU funded projects for the grids of the future and the fundamental importance of electricity networks playing as the "platform" for an effective climate neutral economy by 2050. While mentioning the important role of the EDDIE project, among others, in bringing the goal of a green Europe one step closer. The EDDIE project will bridge the gaps of digital skills and the energy transition by analysing major technology, economy, and social challenges. The Virtual Session showed that power network operators are committed to support the energy transition overcoming the pandemic crisis. Innovative resilience means continuing to support the creation, on top of an adequate physical infrastructure, of a technologically advanced environment with smart, digitalized, and integrated solutions. Cristobal Irazoqui, Energy Policy Officer at DG Energy, stressed the fact that the Green Deal is a roadmap of actions which needs innovations and initiatives to reach the climate and energy targets in allotted time. Only innovation in hand of hand with digitalization can render the Green Deal a reality.
- The official logo of the event:



Figure 2-37. INNOGRIG - Virtual Sessions

### 2.2.3. European Vocational Skills Week

- **Date:** November 9-13, 2020
- **Location:** online
- **Type of activity:** Participation and organization of an Event
- **Organisers:** European Commission
- **Estimated participants:** 500
- **Website:** [https://ec.europa.eu/social/vocational-skills-week/index\\_en](https://ec.europa.eu/social/vocational-skills-week/index_en)
- **EDDIE participant:** EDDIE Consortium
- **Type of participation:** Audience, Participant
- **Relation to EDDIE:**

European Vocational Skills Week is an annual event where local, regional or national organisations showcase the very best of vocational education and training (VET). VET is a path to a more fulfilling personal and professional life. European Vocational Skills Week is a platform to make VET's potential more widely known, and an opportunity to exchange information and good practice across Europe and beyond. The focus of the 2020 edition has been on higher VET (post-upper secondary school level) and VET skills for green and digital transitions. Promoting digital learning platforms, establishing a culture of lifelong and continuous education, and implementing sustainable VET structures are key issues.

EDDIE has been involved in the European Vocational Skills Week 2020 between 09 – 13 November as an associated event for dissemination project's results, lesson learned and conclusions from the needs identified in the professional environment regarding the knowledge and skills on digitalization, VET providers, and the education system, with the involvement of policy makers.

As part of the European Vocational Skills Week 2020, local, regional, and national organisations from the EU and beyond hosted virtual events and activities, emphasising the benefits of VET and its crucial role in lifelong learning. They provided young learners with the initial skills they need for a fulfilling career and creating the means for adults

to build on existing skills (upskill) and develop new skills (reskill) throughout their lives. Over 781 associated events and activities registered in 38 countries, reaching more than 1.6 million people.

A set of social media posts and activities has been done by EDDIE project using the EVSW hashtags especially dedicated to this kind of actions.

- The official logo of the event can be found in Figure 2-38



Figure 2-38. European Vocational Skills Week

#### 2.2.4. PLATform for Operation of distribution NETworks (PLATONE) Project Midterm Conference – “GROWING THE ENERGY TRANSITION”

- **Date:** 14 – 15 September 2021
- **Location:** online
- **Type of activity:** Participation of an Event
- **Organizers:** PLATONE Project, E.DSO, RWTH
- **Estimated participants:** 180
- **Website:** <https://www.platone-h2020.eu/Events/1021/Growing-the-energy-transition--The-Platone-midterm-conference>
- **EDDIE participant:** CRE, E.DSO, RWTH, NTUA
- **Type of participation:** Audience
- **Relation to EDDIE:** CRE, EDSO and RWTH participated at the PLATform for Operation of distribution NETworks (PLATONE) Project Midterm Conference “*GROWING THE ENERGY TRANSITION*”, organized Online, on Tuesday, 14<sup>th</sup> of September 2021 and Wednesday, 15<sup>th</sup> of September 2021. The PLATform for Operation of distribution Networks Project is funded by the European Union (EU), through the Horizon 2020 Research and Innovation (R&I) Programme.

The event aimed to boost knowledge sharing, know-how and expertise by discussing key topics of the present global transformation of the Energy Sector. “*Growing the Energy Transition*” highlighted the Future of Flexibility and Digitalization, created an interesting dialogue that enabled an active discussion between the Participants, Speakers and the Project itself and allowed to participants to interact with the Italian PLATONE Demonstration.

Additionally, Day 2 Event underlined the “Strategies for Consumer and Citizen Engagement in the Energy Transition”. Also, participants were able to interact with the German and Greek PLATONE demonstrations which gained insights into their unique local activities and set-ups. During the presentations of the trials, synergies with EDDIE were highlighted by the mutual partners participating in both projects (RWTH and NTUA). To manage the Energy Transition, Distribution System Operators (DSO) require innovative tools. Volatile Renewable Energy Sources in combination with less predictable consumption patterns call for higher levels of observability and exploitation of flexibility. While these two challenges are traditionally treated with separate means, PLATONE proposes an innovative approach to a joint data management for both. In this context, EDDIE Project gathered relevant information regarding the energy transition.

For this event, CRE Association shared **content** and information for its members.

- Photos from the event: Figure 2-39



**Tue, 14.9.2021, 13:30 Uhr**  
Online conference  
Organizer: Platone consortium

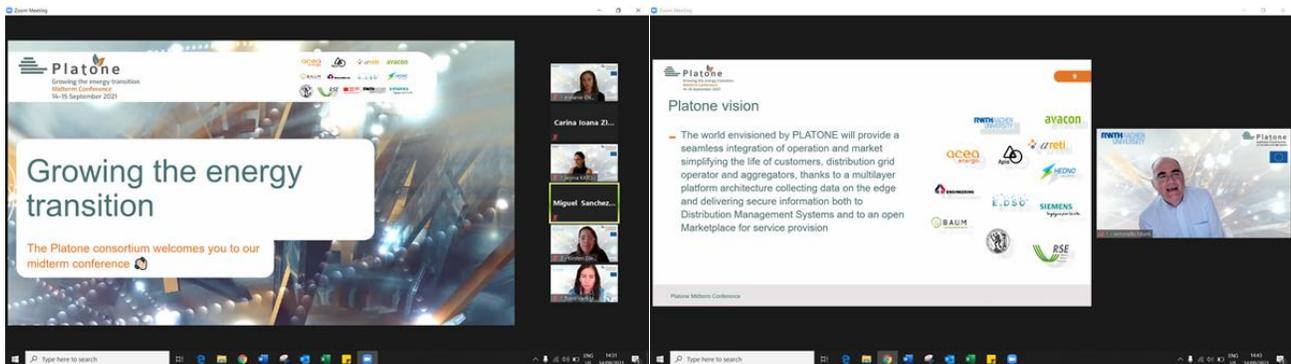


Figure 2-39. Growing the Energy Transition - Platone project synergies with EDDIE project

## 2.2.5. ICAE2021-13th International Conference on Applied Energy (Conference)- “Sustainable Energy Solutions for a Post-COVID Recovery towards a Better Future”

- **Date:** December 2<sup>nd</sup>, 2021
- **Location:** Bangkok, Thailand (Online)
- **Type of activity:** Participation to a Conference
- **Organizers:** ICAE (International Conference on Applied Energy)
- **Website:** <https://applied-energy.org/icae2021/wp-content/uploads/2021/12/Program-Book-V3.pdf>
- **Participant:** Comillas
- **Type of participation:** Panelist (Professor Fernando de Cuadra)
- **Presentation/Speech/ title:** The role of microgrids in electrification planning: an integrated distribution approach from the Universal Energy Access group.
- **Presentation abstract:** The role of microgrids in electrification planning will be presented from the perspective of the diverse activities of our research group (<https://universalaccess.mit.edu>). The software tools used by the group for large-scale electrification planning like REM, LREM and RNM will be presented, highlighting their relations with the microgrids design problem. The core of the presentation will be devoted to our current topics of research in microgrids, stressing challenges and motivations. Such topics include market models for energy management, under-the-grid microgrids, diverse customer types — with their cost/reliability trade-offs —, and hierarchical distribution based on spot prices. Finally, current activities and immediate challenges will be summarized, along with conclusions derived from the research.

- **Relation to EDDIE:** EDDIE was introduced in the self-presentation of the speaker, mentioned as Principal Investigator of EDDIE. It is also related because of the research topics introduced, all of them based in digital models for design, modelling and operation of microgrids.
- **Photo:** Figure 2-40

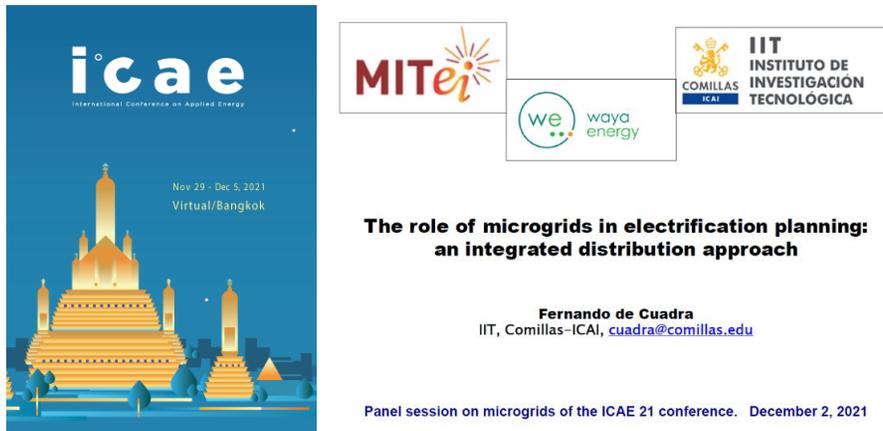


Figure 2-40. Icae event frontpage and presentation on microgrids and EDDIE role in education for digitalization of electrification planning.

### 2.2.6. Energy Education in the Future

- **Date:** December 6<sup>th</sup>, 2021
- **Location:** Doha, Qatar
- **Type of activity:** Event
- **Organizers:** Texas University at QATAR
- **Website:** <https://na.eventscloud.com/website/25091/home/>
- **Participant:** Universidad Pontificia Comillas (Miguel A. Sanchez-Fornie)
- **Type of participation:** Panelist
- **Presentation/Speech/ title:** Workshop: Energy Mentors-Building and Strengthening the Energy Talent Pipeline.
- **Presentation abstract:** This workshop aims to develop a robust career-spanning mentor program to diversify, expand, and enhance the energy talent pipeline. Such a mentoring program could start very early, such as high school, and offer 1) a professional mentor from their home country and 2) research experiences through a university. This workshop will convene a group of industry and academic energy professionals interested in developing and supporting such a pipeline mentoring program.
- **Relation to EDDIE:** Dissemination of EDDIE project and initial results.
- **Picture promoting the event:** Figure 2-41



#### Energy Education of the Future Forum

Doha, Qatar  
December 5&6, 2021

Figure 2-41. Presentation during Energy Education in the Future event

### 2.2.7. Romanian Energy Day – 11th Edition – Repowering the European Energy Sector

- **Date:** June 21, 2022
- **Location:** Stanhope Hotel, Brussels, Belgium
- **Type of activity:** Event.
- **Organizers:** Romanian Energy Center
- **Estimated participants:** 70 in person and online participants
- **Website:** <https://www.crenerg.org/red2022/>
- **EDDIE participant:** CRE
- **Type of participation:** Speaker at the Event, Presentation, Audience
- **Relation to EDDIE:**

Representing probably the most ambitious European projects since the inception of the EU, the goals of carbon neutrality by 2050 and the independence from Russian fossil fuels by the end of the decade will seriously test the cohesion among the Member States and the dynamics and adaptability of the 27 energy markets. Consequently, Romanian Energy Day (RED), at its 11th edition, builds upon the European commitment towards accelerating the Green Deal by ramping up renewables and boosting energy efficiency, whilst setting the stage to achieve the independence from certain energy imports. Moreover, RED 2022 highlights Romania's endeavour to strengthen the European energy security by actively diversifying energy sources, resources and transport routes, as well as achieve markets integration by creating an effective link between the South-Eastern and Central European regions. The role and impact of research projects in this context were brought to the fore, the holistic approach which on the one hand considers the digitalization of energy systems, and on the other hand, as a corresponding response to digitalization, the acquisition of new skills and abilities for energy employees.

- **Photo relevant for the event:**



### 2.2.8. Grid Service Market Symposium

- **Date:** 5 July 2022
- **Location:** KKL Auditorium, Lucerne, Switzerland
- **Type of activity:** Speaker at the Event
- **Organizers:** HSUL, Lucerne, Switzerland
- **Estimated participants:** 50 in person and online participants
- **Website:** <https://gridservicemarket.com/>
- **EDDIE participant:** CRE
- **Type of participation:** Presentation, Audience
- **Relation to EDDIE and Feedback:**

The electricity market is changing, opening opportunities for more flexibility in generation, storage and consumption. The integration of a large amount of new renewable energy sources poses great challenges for the European electricity grids & markets. Network reinforcement, market harmonisation and integration are solutions and challenges for the various players in the electricity industry. New technologies such as Power to X, Batteries, Demand Side Response DSR, Water Electrolysers, Fuel Cells and others compete or complement each other in terms of technical capabilities and economic performance. The integration of such new technologies and methods, to provide grid services and optimise the use of existing infrastructure, is changing the face of the electricity industry in the long term. The 6th GSM-Symposium aims to outline recent developments in the European grid service markets, to highlight advancements and challenges in international cooperation and to reflect the technological progress. In addition, it reports on experiences and success stories, which support a rating of the performance, and future potential of new sustainable technologies. The 6th GSM-Symposium addresses grid and technology experts, scouts and managers from the electricity industry, administration bodies and researchers interested in the commercial aspects of grid services and new technologies. Experts present their contributions to technological advances and propulsive business solutions. The international audience will exchange on market logic, regulations and harmonization. In this context, CRE's contribution to the event highlighted the relevant regulatory aspects for the adoption of new technologies, and the EDDIE project was brought to the fore, highlighting the need to adapt the skills and abilities of energy employees for the use of new technologies.

- **Photo relevant for the event:** Figure 2-42

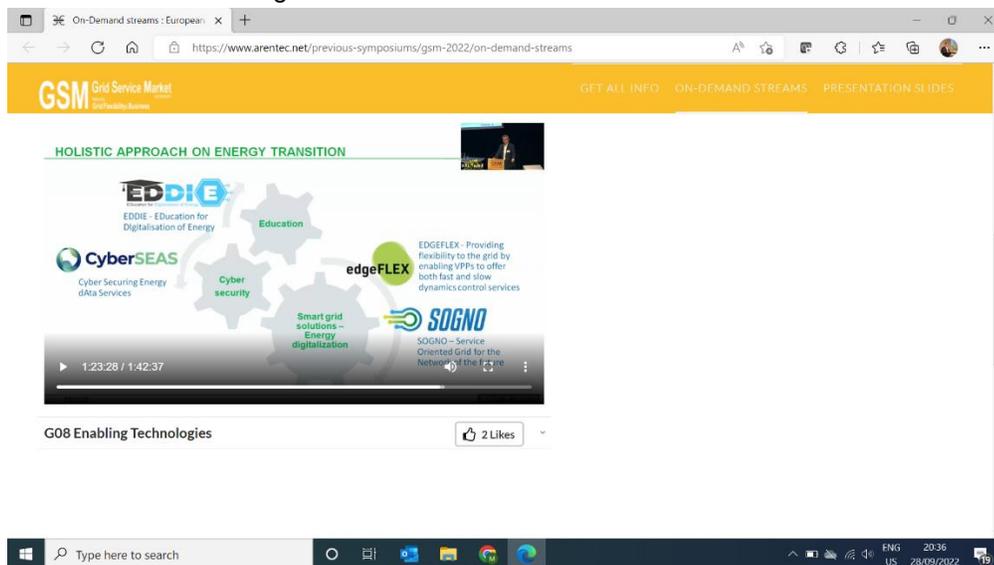


Figure 2-42. EDDIE project at Grid Service Market Symposium

### 2.2.9. Archimedean Sandbox program

- **Date:** 29 June 2022 – 08 August 2022
- **Location:** Aachen, Germany
- **Type of activity:** Summer vacation program on wind energy for children and dissemination event for the citizens
- **Organizers:** Future Lab Aachen and City of Aachen
- **Website:** <https://futurelab-aachen.de/event/archimedischer-sandkasten-3/>
- **Participant:** RWTH Aachen University (Berna Balci)
- **Type of participation:** Workshop for children (10-14 years) with energy grid model (see Figure 2-44), Stand at open-air dissemination event in the city center with energy grid model (see Figure 2-44)
- **Presentation/Speech/ title:** Energy grid model with wind turbines, storage units and consumer LED's
- **Presentation abstract:** Children from 10-14 year visit the Institute of Automation of Complex Power Systems (ACS) at RWTH for a workshop on an energy model with wind energy as part of a summer vacation

program for children. This workshop is intended to give the children the tutors of the vacation program inspiration to build their own artistically inspired wind energy constructions. In another event as part of the Archimedean Sandbox program, the same energy grid model is shown to citizens in an open-air dissemination event.

- **Relation to EDDIE:** Piloting activity and dissemination of EDDIE project.
- **Estimated participants:** 200 – 250 participants.
- **Picture promoting the event:** Figure 2-43, Figure 2-44



Figure 2-43 – Opening of the “Archimedean” sandbox in the city centre of Aachen



Figure 2-44 – Model of an energy grid with wind turbines, storage units and consumer LED's

## 2.2.10. Weeks of International Teaching – Inclusive and Digital

- **Date:** 16 – 19 September 2022
- **Location:** Luxembourg
- **Type of activity:** Event (Hybrid)
- **Organisers:** Novel Group Sarl

- **Website:** <https://www.novelgroup.lu/2nd-workshop-on-innovative-interactive-and-digital-teaching/>
- **Participant:** Novel Group Sarl
- **Type of participation:** Presentation by Thanasis Lakrintis
- **Presentation/Speech/ title:** Best Practices for Vocational Education & Training (VET)
- **Presentation abstract:** The presentation mainly focused on the Best Practices in VET in the field of energy digitalization, while presenting the findings of the EDDIE's research of all EU strategies, action plans and roadmaps that are related to VET Policy, elements of digital transformation and the incorporation of digital tools in VET provision.
- **Relation to EDDIE:** Sketching the Findings of the EDDIE Project Research and presenting the Best Practices that were identified in WP4.
- **Estimated participants:** 200 – 250 participants.
- **Photo from the event:** Figure 2-36.



Figure 2-45 Presentation of EDDIE

### 2.2.11. The Factory 4.0 Expo Conference – 3rd edition

- **Date:** November 09, 2022
- **Location:** Palace of Parliament, Bucharest, Romania
- **Type of activity:** Event.
- **Organizers:** Factory 4.0
- **Estimated participants:** 100 in person and online participants
- **Website:** <https://factory40.ro/>
- **EDDIE participant:** CRE
- **Type of participation:** Speaker at the Event, Presentation, Audience
- **Relation to EDDIE:** Large event dedicated to digital transformation with a special focus on digital skills and Industry 4.0. CRE intervention referred to the energy sector from this perspective of digitalization and the implicit need for digital skills. The EDDIE project as well as another project in the field of energy - Digital4Energy, a training project, were brought to the fore, as two initiatives that can act synergistically to adapt the workforce to the use of new technologies.
- **Photo relevant for the event:** Figure 2-46



Figure 2-46. EDDIE at Factory 4.0

### 2.2.12. RWTH Science Night

- **Date:** December 11<sup>th</sup>, 2022
- **Location:** Aachen, Germany
- **Type of activity:** dissemination event
- **Organizers:** RWTH Aachen University
- **Website:** <https://www.rwth-aachen.de/cms/root/Die-RWTH/Aktuell/Veranstaltungen/~btgg/RWTH-Wissenschaftsnacht-5-vor-12-/?lid=1>
- **Participant:** RWTH Aachen University (Berna Balci)
- **Type of participation:** Stand with energy grid model (see Figure 2-47), talk about prosumers in the energy grid
- **Presentation/Speech/ title:** Energy grid model with wind turbines, storage units and consumer LED's
- **Presentation abstract:** Prof. Monti from ACS gave a talk on active prosumers in a flexible energy grid. The presentation aimed to show the changes in the distribution grid due to the increasing number of decentralised generation plants. Another focus was on grid stability and the associated role of customers. The audience learned about the increasingly active role of customers in the electricity market through decentralised small power plants and solutions such as smart meters. The digitalisation of the energy system serves as a key function for active customers. Moreover, throughout the science night, was a stand with an energy grid model to show the effects of small changes in the grid.
- **Relation to EDDIE:** Piloting activity and dissemination of EDDIE project.
- **Estimated participants:** 200 – 250 participants.
- **Picture promoting the event:** Figure 2-47, Figure 2-48



Figure 2-47 Stand with energy grid model from ACS at the RWTH science night.



Figure 2-48 Talk at RWTH science night.

### 2.2.13. 16<sup>th</sup> ETIP SNET Regional Workshop

- **Date:** 28 February 2023
- **Location:** Iberdrola Global Smart Grids Innovation Hub, Bilbao, Spain
- **Type of activity:** Participation in an Event
- **Organisers:** ETIP SNET
- **Website:** <https://smart-networks-energy-transition.ec.europa.eu/events/regional-workshops/16th-etip-snet-regional-workshop>
- **EDDIE participants:** IBERDROLA
- **Type of participation:** Presentation, attendance.
- **Presentation/Speech/ title:** EDDIE's objectives, current activities, outcomes and future plans and EC Digital Action Plan for Energy.
- **Relation to EDDIE:**

On the 28<sup>th</sup> of February 2023, representatives of EDDIE project participated in 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; and 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

- **Number of participants:** 100
- **Photo of the event:** Figure 2-49 and Figure 2-50.



Figure 2-49. EDDIE at the "16<sup>th</sup> ETIP SNET Regional Workshop"



EDDIE PROJECT PARTICIPATED AT 16<sup>TH</sup> ETIP SNET REGIONAL WORKSHOP

10<sup>th</sup> April 2023, EDDIE Consortium

Representatives of EDDIE Project participated at the "16<sup>th</sup> ETIP SNET Regional Workshop Western Region" which was held on 28<sup>th</sup> of February 2023, in Bilbao and online. European Technology & Innovation Platforms (ETIPs) have been created by the European Commission 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 ETIP Smart Networks for Energy Transition (SNET) role is to guide Research, Development & Innovation (RD&I) to support Europe's energy transition, more specifically, its mission is to: set-out a vision for RD&I for Smart Networks for Energy Transition and engage stakeholders in this vision; prepare and update the Strategic Research and Innovation Roadmap; report on the implementation of RD&I activities at European, national/regional and industrial levels; provide input to the SET Plan action 4 which addresses the technical challenges raised by the transformation of the energy system, and identify innovation barriers, notably related to regulation and financing.

The Workshop provided a unique opportunity to learn about Research & Innovation (R&I) projects around Europe and contribute to the identification of R&I gaps, challenges and priorities. The overall purpose of this event was to learn more about National and Regional Research, Development and Innovation (RDI) and how and if they are aligned to the RDI activities on the EU level and, specifically, to the ones identified in the ETIP SNET Implementation Plan 2022-2025 and that will be the base of the High Level Use Cases in the updated ETIP SNET Roadmap, expected by mid-February 2023.

In this regard, the ETIP SNET invited the representatives of national and regional funding and support programmes from Western Europe (Spain, France, Portugal, Ireland and the UK) that met and discussed together with the EC, national funding authorities and ministries about RDI priorities and next funding programmes.

The Agenda of the [16<sup>th</sup> ETIP SNET Regional Workshop](#) underlined important and interesting topics as follows: ETIP SNET and BRIDGE; ETIP SNET Roadmap 2022-2031 and High Level Use Cases (HLUCs); Panel Session: National/Regional representatives; Integrated Energy Networks; Renewable Energy Systems; Digitalisation & Citizen's Involvement, and Cybersecurity.

Figure 2-50. Press Release - "16<sup>th</sup> ETIP SNET Regional Workshop"

## 2.2.14. 4<sup>th</sup> E.DSO Projects in the Spotlight Event

- **Date:** 29 March 2023
- **Location:** online
- **Type of activity:** Participation in an Event
- **Organisers:** European Distribution System Operators (E.DSO)
- **Website:** <https://edsoforsmartgrids.eu/events/past-events/4th-e-dso-projects-in-the-spotlight>
- **EDDIE participants:** CRE, IBERDROLA
- **Type of participation:** Presentations, attendance
- **Presentation/Speech/ title:** The event tackled challenges to cross-sector integration to achieve the FitFor55 and REPowerEU targets.
- **Relation to EDDIE:**

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 result, 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.

- **Number of participants:** 80
- **Photo of the event:** Figure 2-51 and Figure 2-52.



Figure 2-51. EDDIE at the "4<sup>th</sup> E.DSO Projects in the Spotlight Event " organized by E.DSO (left) and Closing the Skills Gap in Europe – IBERDROLA (right)



#### EDDIE PROJECT PARTICIPATED AT 4<sup>th</sup> E.DSO PROJECTS IN THE SPOTLIGHT EVENT

24<sup>th</sup> April 2023, EDDIE Consortium

Representatives of the EDDIE Project participated in the "4<sup>th</sup> E.DSO Projects in the Spotlight Event - DSOs at the Centre of Cross-Sector Integration" which was held on 29<sup>th</sup> of March 2023, Online. The fourth edition of the E.DSO Projects in the Spotlight Event took on a novel format to discuss different challenges that might arise due to cross-sector integration which we are currently facing in order to achieve the FitFor55 and REPowerEU targets. The event started with an introduction of the above-mentioned topic and was followed by an identical set of questions that were posed to three Horizon Projects: OneNet, Platone, and InterConnect. The latter was done in order to highlight different perspectives and shared insights that the projects have. The event was complemented with a keynote speech by the Erasmus+ EDDIE project which addressed the current skills-gap issue in Europe and was finally followed by a wrap up of the whole event and possible upcoming steps by CEN and CENELEC.

The European Distribution System Operators (E.DSO) is a valuable Partner in the EDDIE Project. E.DSO promotes and enables customer empowerment together with the increase in the use of clean energy sources through electrification, the development of smart and digital grid technologies in real-life situations, new market designs and also regulation. E.DSO gathers 35 leading electricity distribution system operators (DSOs), including 2 national associations, which cooperate to ensure the reliability of Europe's electricity supply for consumers and enabling their active participation in our energy system. E.DSO is leading Work Package 3 (WP) within EDDIE - Stakeholder mapping and strategic network building.

With more than 70 participants, E.DSO held the 4<sup>th</sup> Edition of its Projects in the Spotlight Event focusing on the role played by DSOs as facilitators of energy system integration.

The decarbonisation of the European economy pivots around the electrification of traditionally high-emitting sectors, calling for coordinated planning and operation of infrastructures, smarter interconnections, and strong consumer empowerment. As Richard VIDLIČKA – Vice Chair of the Innovation and Research Committee of E.DSO underlined in his welcome address "EU projects maximise the impact of new technologies towards the digitalisation, resilience and energy efficiency at the core of the energy system evolution."

Figure 2-52. Press Release - EDDIE at the "4<sup>th</sup> E.DSO Projects in the Spotlight Event"

## 2.2.15. 2<sup>nd</sup> International workshop on "Open Source Modelling and Simulation of Energy Systems" (OSMSES 2023)

- **Date:** 27 – 29 March 2023
- **Location:** Aachen, Germany
- **Type of activity:** Participation in an Event, Presentation
- **Organisers:** In cooperation with the ERIGrid 2.0 Project and the IEEE PES Task Force on Innovative Teaching Methods for Modern Power and Energy Systems, National Technical University of Athens – NTUA partner coorganised the tutorial: "Emerging skill needs and training tools for professionals and researchers in the field of smart energy systems" and Mr. Panos Kotsampopoulos presented the EDDIE's results related to this topic.
- **Website:** <https://easychair.org/cfp/OSMSES2023>
- **EDDIE participants:** CRE, NTUA
- **Type of participation:** Presentation, attendance.
- **Relation to EDDIE:**

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.

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.

- **Number of participants:** 150

- **Photo of the event:** Figure 2-53 and Figure 2-54



EDDIE PROJECT PARTICIPATED AT 2<sup>nd</sup> INTERNATIONAL WORKSHOP ON  
 "OPEN-SOURCE MODELLING AND SIMULATION OF ENERGY SYSTEMS" (OSMSES 2023).

1<sup>st</sup> June 2023, EDDIE Consortium

EDDIE representatives have 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 the 27<sup>th</sup> to 29<sup>th</sup> of 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, National Technical University of Athens – NTUA partner co-organised the tutorial: "Emerging skill needs and training tools for professionals and researchers in the field of smart energy systems" and Mr. Panos Kotsampopoulos presented the EDDIE's results related to this topic.



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.

Considering that the energy systems are expected to include electricity, gas, and heat networks, different simulation procedures are required in order to maximize the use of all available forms of energy and to include in the grid storage capacities. Furthermore, the distributed nature of new resources (both generation and storage) and the participation of loads in energy management require fast, reactive control and protection. In this context, it can be predicted that the monitoring and control of modern energy systems will be characterized by the distribution of functions. At the same time, a large use of communication media is envisioned. The interactions between continuous dynamics and discrete events are becoming more relevant due to the increasing number of controllable devices (e.g., power electronic converters in power grids) and the use of networked control systems. In addition, power systems are increasingly driven by market competition, and the impact on system operation should also be considered.

Taking in account the previous information, several research groups have developed modelling and simulation solutions to address these challenges, and they have disseminated their software using an open-source approach.

Figure 2-53. Press Release - 2<sup>nd</sup> International workshop on "Open Source Modelling and Simulation of Energy Systems – OSMSES 2023



Figure 2-54. EDDIE's results related to skills needs and training tools in the field of smart energy systems

## 2.2.16. NSF Joint US European Workshop: Flexible Electric Grid Critical Infrastructure for Resilient Society

- **Date:** 21 – 22 April 2023
- **Location:** Philadelphia
- **Type of activity:** Participation and Presentation in an Event
- **Organisers:** Alliance of Excellence for Research and Innovation on Aephoria
- **Website:** <https://ae4ria.org/joint-us-european-nsf-workshop-flexible-electric-grid-critical-infrastructure-for-resilient-society/>
- EDDIE participants: NTUA
- **Type of participation:** Presentation, attendance.
- **Relation to EDDIE:**

EDDIE representatives participated at the NSF Joint US European Workshop: Flexible Electric Grid Critical Infrastructure for Resilient Society which was held between 21st and 22nd of April 2023. Mr. Alexandros Chronis presented insights and open questions produced by the ongoing work of the project during the discussion on the topic "The education and training fundamentals for the realization and support of a resilient society". He stressed the importance of identifying skill gaps and anticipating skill needs to support the digital transformation of the energy sector, constantly upskilling and reskilling the workforce to keep up with the emerging challenges the industry faces. The opportunities that new technologies provide by utilizing advanced technical tools and educational methodologies to enhance student engagement and learning were stressed.

Technological advancements can revolutionize education by providing a variety of tools such as e-learning tools (webinars, MOOCs, interactive notebooks, and animations), laboratory education (scaled down hardware models, hardware in the loop simulation, cosimulation, augmented/virtual reality, remote labs, and virtual labs), and classroom education, which can be enhanced with e-learning tools.

- **Number of participants:** 100
- **Photo of the event:** Figure 2-55 and Figure 2-56

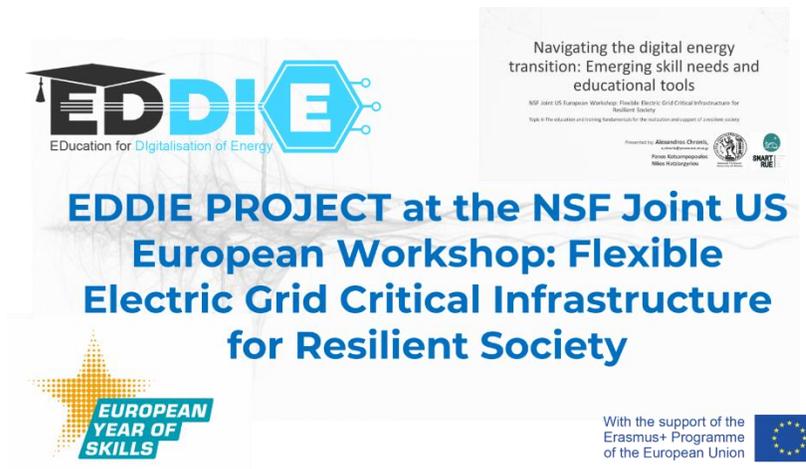


Figure 2-55. EDDIE at NSF Joint US European Workshop: Flexible Electric Grid Critical Infrastructure for Resilient Society

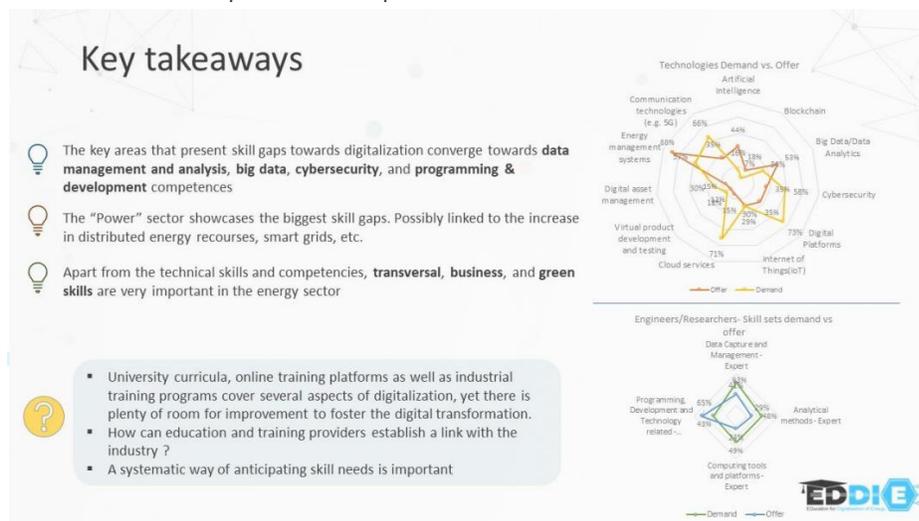


Figure 2-56. EDDIE Results at NSF Joint US European Workshop: Flexible Electric Grid Critical Infrastructure for Resilient Society

### 2.2.17. EDDIE representatives at the "Girls' Day" Event

- **Date:** 27 April 2023
- **Location:** Aachen, Germany
- **Type of activity:** Participation and Presentation in an Event
- **Organisers:** RWTH Aachen University
- **Website:** <https://www.eonerc.rwth-aachen.de/go/id/vakno?lidx=1#aaaaaaaaavakzj>
- **EDDIE participants:** RWTH
- **Type of participation:** Presentation, attendance.
- **Relation to EDDIE:** As part of the RWTH pilot activities in Aachen, EDDIE representatives participated in Girls' Day event that took place on the 27<sup>th</sup> of April 2023. Girls' Day is a career orientation day that takes place once a year open to all girls from the fifth grade to promote occupations mostly pursued by men. In the context of the EDDIE project the Institute for Automation of Complex Power Systems (ACS) has participates in this event next to three other institutes of the RWTH and hosted girls to explain topics related to energy.

In preparation of the event a plug-and-play demo was prepared which is an advanced version of the wind park and energy grid demo deployed in the piloting activity Archimedischer Sandkasten with the city of Aachen. This plug-and-play demo and a general presentation was used to explain how renewable energy

sources influence the grid and how to control the interaction between electricity production and power consumption.

- **Number of participants:** 50
- **Photo of the event:** Figure 2-57

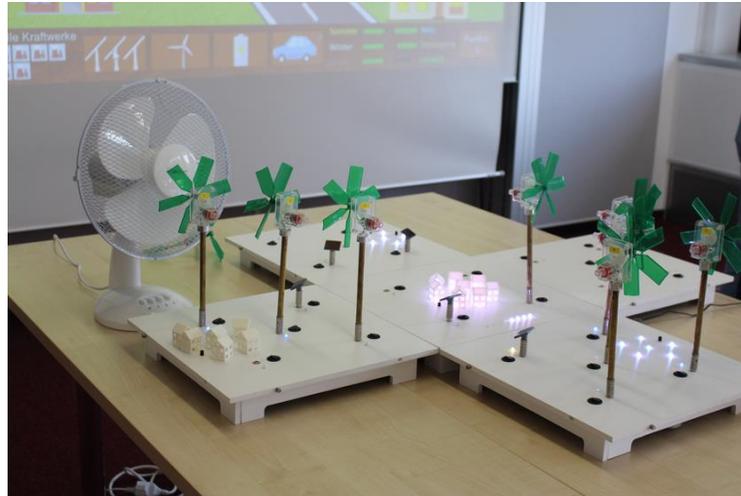


Figure 2-57. EDDIE representatives at the “Girls’ Day” Event

## 2.2.18. Data Platforms for the Energy Infrastructure Workshop

- **Date:** 27 April 2023
- **Location:** City of Herne, Germany
- **Type of activity:** Participation and Presentation in an Event
- **Organisers:** RWTH together with the Institute for Electro Mobility of the Bochum University of Applied Sciences
- **Website:** <https://ideasforum.org/>
- **EDDIE participants:** RWTH
- **Type of participation:** Presentation, attendance.
- **Relation to EDDIE:** Together with the Institute for Electro Mobility of the Bochum University of Applied Sciences, the RWTH partners organized a workshop on open-source data platform the energy infrastructure in the IDEASFORUM e.V. of the City of Herne. The workshop gave a general overview of the challenges of data management. The focus was on the presentation of smart city applications with FIWARE and Message Queue Telemetry Transport (MQTT) and the display of different functions with demonstrators. Part of the workshop, a general introduction to FIWARE as well as MQTT, practical examples and demonstrations of smart city applications and the presentation of smart energy business models have been included and parallels with the project have been drawn.
- **Number of participants:** 30
- **Photo of the event:** Figure 2-58



Figure 2-58. EDDIE at Data Platforms for the Energy Infrastructure Workshop

### 2.2.19. “IEEE PowerTech Belgrade 2023” Conference

- **Date:** 25 – 29 June 2023
- **Location:** Belgrade, Serbia
- **Type of activity:** Participation and Presentation in an Event
- **Organisers:** organized and cosponsored by IEEE, PES and School of Electrical Engineering Belgrade – University of Belgrade
- **Website:** <https://powertech2023.com/>
- **EDDIE participants:** NTUA
- **Type of participation:** Presentation, attendance.
- **Relation to EDDIE:** EDDIE Project participated at the IEEE PowerTech Belgrade 2023 conference organized and cosponsored by IEEE, PES and School of Electrical Engineering Belgrade – University of Belgrade, and was held in Belgrade, Serbia between the 25<sup>th</sup> to 29<sup>th</sup> of June 2023. Mr. Panos Kotsampopoulos from NTUA partner presented the main results and findings of the EDDIE project with a focus on skill gaps identification for the digitalization of the energy sector. The importance of transversal skills in the digital transformation was also underlined.
- **Number of participants:** 100
- **Photo of the event:** Figure 2-59 and Figure 2-60

**EDDIE PROJECT PARTICIPATED AT THE IEEE PowerTech BELGRADE 2023 CONFERENCE**

28<sup>th</sup> July 2023, EDDIE Consortium

The EDDIE Project participated at the IEEE PowerTech Belgrade 2023 conference organized and co-sponsored by IEEE, PES and School of Electrical Engineering Belgrade – University of Belgrade, and was held in Belgrade, Serbia between the 25<sup>th</sup> to 29<sup>th</sup> of June 2023. During the timely panel session entitled 'Young Professionals Panel Session on Future Power System Workforce' of the event, Mr. Panos Kotsampopoulos of NTUA talked about "Emerging skill needs for the digital energy transition".



PowerTech stands as the principal conference hosted by the IEEE Power and Energy Society (PES) in Europe. It serves as a valuable platform where researchers and engineering

professionals engaged in various aspects of electrical power engineering can come together to connect, communicate ideas, and present the outcomes of their scientific endeavours. The focal point of the upcoming IEEE PowerTech 2023 conference revolved around the theme of "Leading innovations for resilient and carbon-neutral power systems," warmly inviting both industry and academia to foster their partnership and spearhead transformative innovations in the field of energy.



Mr. Kotsampopoulos presentation related to emerging skill needs for the digital energy transition included the EDDIE survey to industry & education/training providers for the identification of skills gaps concerning the digitalisation of the energy sector, among other activities. In this Panel Session, a wide range of skills and competences were discussed, including technical expertise and knowledge (e.g., design/ modelling/ programming skills)

required for many jobs in the power sector, during the digitalisation of the energy process. Therefore, the main results and findings of the EDDIE project with a focus on skill gaps identification for the digitalization of the energy sector have been presented while underlining the importance of

Figure 2-59. Press Release - "IEEE PowerTech Belgrade 2023" Conference

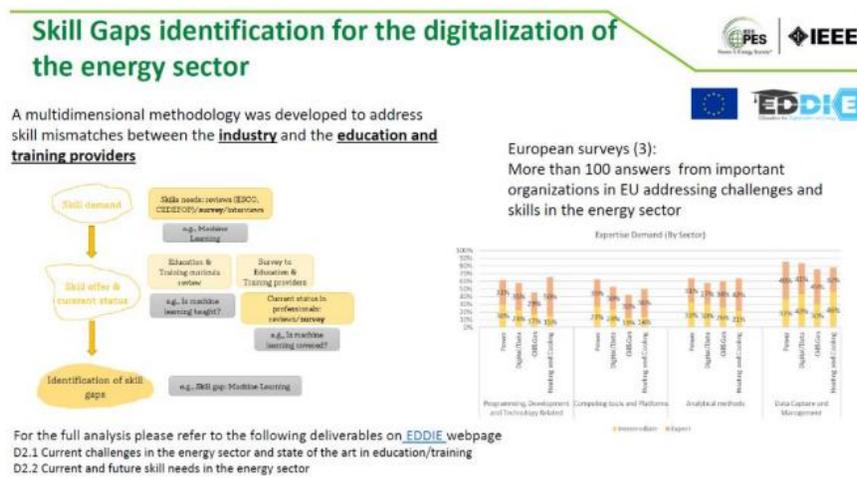


Figure 2-60. EDDIE Presentation at "IEEE PowerTech Belgrade 2023" Conference

### 2.2.20. "Smart Energy Solutions for the Energy Transition" Conference

- **Date:** 24 May 2023
- **Location:** City of Herne, Germany
- **Type of activity:** Participation and Presentation in an Event
- **Organisers:** EDDIE Project co-organized the Smart Energy Solutions for the Energy Transition conference together with Bochum University of Applied Sciences, RWTH – Aachen University and E.ON Energy Research.

- **Website:** [https://eddie-erasmus.eu/wp-content/uploads/2023/08/230731\\_EDDIE-PROJECT-AT-SMART-ENERGY-SOLUTIONS-FOR-THE-ENERGY-TRANSITION.pdf](https://eddie-erasmus.eu/wp-content/uploads/2023/08/230731_EDDIE-PROJECT-AT-SMART-ENERGY-SOLUTIONS-FOR-THE-ENERGY-TRANSITION.pdf)
- EDDIE participants: RWTH
- Type of participation: Organization, Presentation, attendance.
- **Relation to EDDIE:** EDDIE Project co-organized the Smart Energy Solutions for the Energy Transition conference together with Bochum University of Applied Sciences, RWTH – Aachen University and E.ON Energy Research. The event took place on the 24<sup>th</sup> of May 2023 and addressed the important role of open-source data platforms and business models for the necessary change in the energy grid as part of the energy transition. The open-source technologies MQTT (Message Queuing Telemetry Transport) and FIWARE for use in smart energy networks will be presented. For this purpose, a physical demonstrator is presented in each case, which is used to illustrate the functions and fields of application  
In addition, the development of business models in connection with Smart Cities will be discussed. Based on the skills gap analysis, education and training solutions, the implemented data base to support a strategic map of stakeholders and the deployment of several demos and pilots, EDDIE project offered valuable inputs on the topic of smart energy solutions for the energy transition.
- **Number of participants:** 70
- **Photo of the event:** Figure 2-61



**EDDIE PROJECT CO-ORGANIZED THE SMART ENERGY SOLUTIONS FOR  
THE ENERGY TRANSITION CONFERENCE**

28<sup>th</sup> July 2023, EDDIE Consortium

EDDIE Project co-organized the Smart Energy Solutions for the Energy Transition conference together with Bochum University of Applied Sciences, RWTH – Aachen University and the IDEASFORUM e.V. association. The event took place on the 24<sup>th</sup> of May 2023 in Herne and addressed the important role of open-source data platforms and business models for the necessary change in the energy grid as part of the energy transition.



Considering that our energy grids are becoming increasingly complex due to the increasing decentralization and volatility of energy production. This is accompanied by the need for digital, powerful and smart technology solutions to enable the long-term transition to an economical and renewable energy system that guarantees security of supply.

The workshop dealt with the important role of open-source data platforms and business models for the necessary change in the energy grid as part of the energy transition. The open-source technologies MQTT (Message Queuing Telemetry Transport) and FIWARE for use in smart energy networks has been presented. For this purpose, a physical demonstrator was presented in each case in order to illustrate the functions and fields of application. In addition, the development of business models in connection with Smart Cities has been discussed as well.

Figure 2-61. Press Release - “Smart Energy Solutions for the Energy Transition” Conference

### 2.2.21. The European MOOCs Stakeholder Summit

- **Date:** 14 – 16 June 2023
- **Location:** Hybrid
- **Type of activity:** Participation and Presentation in an Event
- **Organisers:** The Hasso Plattner Institute for Digital Engineering
- **Estimated participants:** 100
- **Website:** <https://emoocs.hpi.de/>

- EDDIE participants: POLIMI
- Type of participation: Presentation, attendance.
- **Relation to EDDIE:** On the 14-16<sup>th</sup> of June 2023, EDDIE Project participated at The European MOOCs Stakeholder Summit which was held as a hybrid conference. POLIMI partners representative – Daniela Casiraghi presented the poster on the” Skill gap analysis and Esco Framework: the MOOC design process in EDDIE project” – a poster designed by D. Casiraghi, B. Santolini, and A.Tomasini. The Hasso Plattner Institute for Digital Engineering welcomed participants from all over the world to Griebnitzsee campus in Potsdam near Berlin.

The main topics were the following: Impact of the pandemic on digital education - Digital education, whether microcredentials, MOOCs, blended learning formats, or other elearning tools, received a major boost; Formalization of digital learning - currently seeing how the formerly informal MOOC offerings are becoming more and more formalized and embedded in existing ecosystems; MOOC networks and cooperations - Cooperations and networks such as MOOCHub, the European MOOC Consortium, and the Common Micro-Credential Framework not only make MOOC research and developments more visible but also are an important building block for more standardization of formats and metadata.

- **Photo of the event:** Figure 2-62

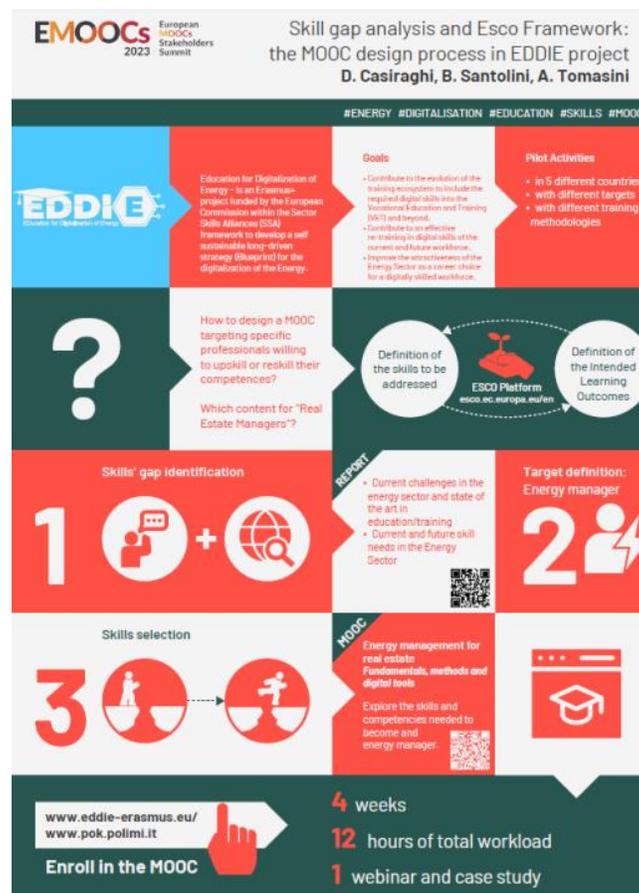


Figure 2-62. EDDIE at “The European MOOCs Stakeholder Summit”

## 2.2.22. E.DSO/Europacable/T&D Europe Webinar – “Unpacking the Green Deal Industrial Plan: Energy Industry implications”

- **Date:** 18 April 2023
- **Location:** Online
- **Type of activity:** Participation in an Event

- **Organisers:** Jointly organized by E.DSO, Europacable and T&D Europe
- **Website:** <https://www.edsoforsmartgrids.eu/latest-news/unpacking-the-green-deal-industrial-plan-energy-industry-implications-press-release>
- **EDDIE participants:** E.DSO
- **Type of participation:** Attendance and presentation.
- **Relation to EDDIE:**

The event "**Unpacking the Green Deal Industrial Plan: Energy Industry implications**" took place on Tuesday, 18 April 2023 as an online event. In an interactive setting, the webinar offered actionable intelligence, reliable insight, and a deep understanding of the latest energy lever that all sectors, including Distribution System Operators (DSOs), can pull to potentially speed up the pace of the cleaner energy transition.

In this event, E.DSO was joined by **Europacable and T&D Europe** with the aim to bring clarity about opportunities and loopholes of the Green Deal Industrial Plan (GDIP) and legislative initiatives falling under it: Net-Zero Industrial Act (NZIA) and Raw Materials Act (RMA).

All panelists applauded the Commission's inclusion of grid technologies in the NZIA, which are deemed commercially viable for up scaling and conducive to the Plan. Panellists also reflected upon the 'two sister documents' – Inflation Reduction Act (IRA) in US and Green Deal Industrial Plan (GDIP) in Europe. Another key issue tackled by the panellists is related to skills. The GDIP rightly highlights the essential role of reskilling and upskilling but misses in its proposal the importance of lifelong learning in areas crucial for the DSOs and manufacturers.

- **Number of participants:** 80
- **Photo of the event:** Figure 2-63



Figure 2-63. EDDIE at E.DSO/Europacable/T&D Europe Webinar

### 2.2.23. The 2023 IEEE Power & Energy Society (PES) General Meeting

- **Date:** 18 July 2023
- **Location:** Orlando, USA
- **Type of activity:** Participation in a Meeting
- **Organisers:** IEEE Power & Energy Society
- **Estimated participants:** 100
- **Website:** [https://eddie-erasmus.eu/wp-content/uploads/2023/10/231026\\_EDDIE\\_2023-IEEE-Power-Energy-Society-General-Meeting.pdf](https://eddie-erasmus.eu/wp-content/uploads/2023/10/231026_EDDIE_2023-IEEE-Power-Energy-Society-General-Meeting.pdf)
- **EDDIE participants:** NTUA
- **Type of participation:** Attendance and presentation
- **Relation to EDDIE:** On the 18<sup>th</sup> of July 2023, during the 2023 IEEE Power & Energy Society General Meeting that took place in Orlando, USA, Prof. Nikos Hatziargyriou delivered a presentation titled "Navigating the

digital energy transition: Emerging skill needs and educational tools”. The first part of the presentation provided insights from the ongoing project EDDIE (Erasmus+), regarding the methodological approach to anticipate skill needs, as well as key takeaways of the emerging skill gaps needed to support the digitalization of the energy sector. Then, the presentation focused on the national project APEX (funded by H.F.R.I.) and the importance of educating students about energy systems, along with highlights of the project actions. Following, the objectives and operation of IEEE PES Task Force on Innovative Teaching Methods for Modern Power and Energy Systems were introduced. The Task Force, chaired by Panos Kotsampopoulos and Nikos Hatzigiorgiou addresses innovative teaching methods and material in modern power and energy systems and promoting advanced technical tools for education and training. The presentation concluded by highlighting the key takeaways from the hands-on experiences of using advanced technical tools (Hardware In the Loop, virtual and remote labs) gained in the context of the ERIGrid 2.0 project (H2020).

- Number of participants: 100
- **Photo of the event:** Figure 2-64 and Figure 2-65



EDDIE PROJECT PARTICIPATED AT THE  
“THE 2023 IEEE POWER & ENERGY SOCIETY (PES) GENERAL MEETING”.

26<sup>th</sup> November 2023, EDDIE Consortium

EDDIE representatives participated at the 2023 IEEE Power & Energy Society General Meeting that took place in Orlando, USA, on the 18th of July 2023. Prof. Nikos Hatzigiorgiou from our NTUA partner also delivered a presentation titled “Navigating the digital energy transition: Emerging skill needs and educational tools”.

The theme of this year’s conference was *Meeting the Energy Needs of a Dynamic World*. The IEEE PES GM is the premier annual power and electrical engineering event that brings together leading PES members, power and electrical engineers, key academics, and engineering students from all over the world. The aim was to provide an international forum for experts to network, promote, share, and discuss vital issues and progressive developments that impact the field of electrical and power engineering.



The meeting included sessions on the Role of Grid Planning to enable Net Zero future, Communications & Cyber Security, Novel Approaches & Emerging Technologies to Support System Operation, Integration of DERs, EVs, and BTM Resources, but also Transmission Advancement for Decarbonization.

Moreover, IEEE Power & Energy Society is fostering and inspiring the next generation of power and energy professionals and, as a result, at the 2023 IEEE Power & Energy Society General Meeting, students benefited by a Student, Industry & Faculty Luncheon and Career Fair, Call for Nominations: Outstanding Doctoral Dissertation and a Student Poster Competition.

Figure 2-64. Press release - EDDIE at “The 2023 IEEE Power & Energy Society (PES) General Meeting

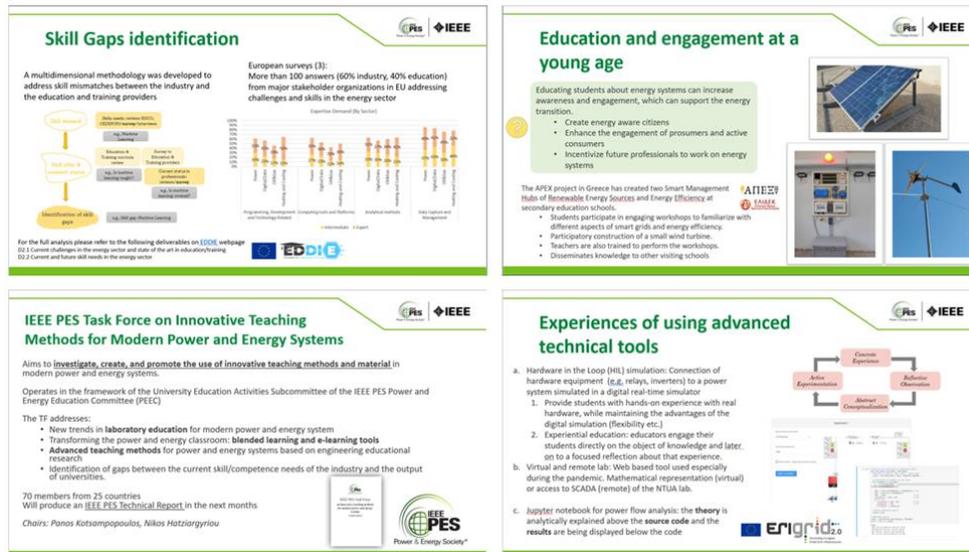


Figure 2-65. EDDIE at “The 2023 IEEE Power & Energy Society (PES) General Meeting

## 2.2.24. READY4DC – InterOPERA Joint Event

- **Date:** 13 September 2023
- **Location:** Vienna / Online
- **Type of activity:** Participation in an Event
- **Organisers:** READY4DC final event and the InterOPERA
- **Website:** <https://interopera.eu/events/interopera-ready4dc-joint-event/>
- **EDDIE participants:** CRE
- **Type of participation:** Attendance and presentation
- **Relation to EDDIE:**

On the final READY4DC and the InterOPERA first dissemination event on 13 September in Vienna, during the CIGRE B4-Colloquium, the main findings of the READY4DC whitepapers and InterOPERA’s work towards interoperable, multi-vendor HVDC grids were discussed. A synergy of the project Ready4DC with EDDIE is the aim to identify and boost the needed skills in education towards HVDC topics within the frame of digital energy. During the event, an educational survey on this topic was conducted with the help of the preliminary work of EDDIE. Specialists from InterOPERA gave an overview of the different project activities leading to the interoperability of multi-vendor HVDC grids – as well as the main findings of the report “Demonstrator project definition and system design studies”. Then the experts from READY4DC showcased the main findings of the final READY4DC whitepapers.

- **Number of participants:** 100
- **Photo of the event:** Figure 2-66



Figure 2-66. EDDIE at READY4DC – InterOPERA Joint Event

## 2.2.25. 6<sup>th</sup> Event On Cybersecurity 'European Energy Grids' Security In A Changed Landscape

- **Date:** 21 September 2023
- **Location:** Athens / Hybrid
- **Type of activity:** Participation in a Conference
- **Organisers:** The Association of European Distribution System Operators (E.DSO), the European Network for Cyber Security (ENCS), the European Union Agency for Cybersecurity (ENISA) and the European Network of Transmission System Operators for Electricity (ENTSO-E)
- **Estimated participants:** 120
- **Website:** [https://eddie-erasmus.eu/wp-content/uploads/2023/11/231017\\_EDDIE-PROJECT-PARTICIPATED-AT-EDSO-EVENTS-ON-CYBERSECURITY-\\_CZI.pdf](https://eddie-erasmus.eu/wp-content/uploads/2023/11/231017_EDDIE-PROJECT-PARTICIPATED-AT-EDSO-EVENTS-ON-CYBERSECURITY-_CZI.pdf)
- **EDDIE participants:** CRE
- **Type of participation:** Attendance and presentation
- **Relation to EDDIE:**

Eddie representatives participated at the E.DSO-ENCS-ENISA-ENTSO-E 6th Event on Cybersecurity 'European energy grids' security in a changed landscape – closing the skills gap and getting prepared' which was held on 21 October 2023. The Association of European Distribution System Operators (E.DSO), the European Network for Cyber Security (ENCS), the European Union Agency for Cybersecurity (ENISA) and the European Network of Transmission System Operators for Electricity (ENTSO-E), together hosted a public conference on power grids cybersecurity in Athens on Thursday 21 September. The event was also held in partnership with the European Energy - Information Sharing & Analysis Centre (EE-ISAC) and was organized as part of the cybersecurity week of ENISA. This year the conference brought together experts in the field of grid cybersecurity to exchange on the latest developments in the threat landscape and how realistic exercising can develop better skills and increase preparedness for cybersecurity incidents. Are we prepared for large scale cyberattacks to the European grid? Will upcoming European regulations on cybersecurity help to effectively and efficiently increase preparedness or are there still pitfalls and gaps that require attention? These and other topics were tackled during the event, together with concrete case studies of network attacks.

- **Photo of the event:** Figure 2-67

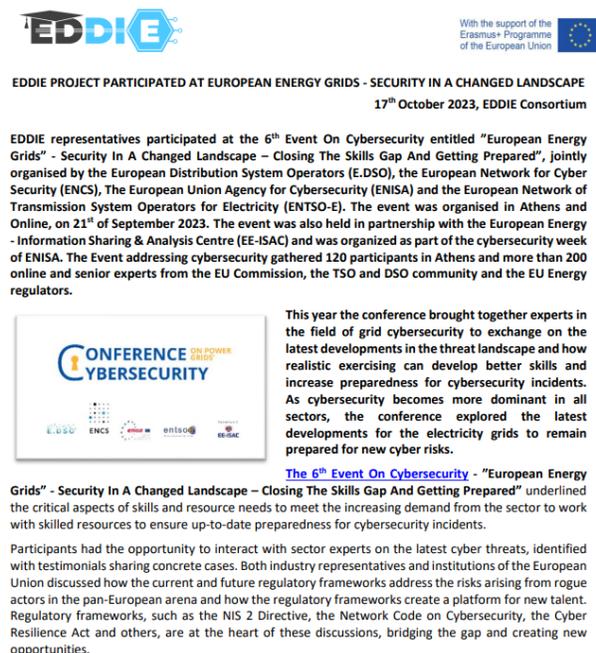


Figure 2-67. EDDIE at the 6<sup>th</sup> Event on Cybersecurity 'European Energy Grids' Security In A Changed Landscape

## 2.2.26. Smart City Day

- **Date:** 21-22 September 2023
- **Location:** Germany
- **Type of activity:** Participation in an Event
- **Organisers:** FIWARE Foundation e.V., Cluster e.V and IDEASFORUM
- **Estimated participants:** 400
- Website: <https://www.fiware.org/news/the-first-edition-of-the-smart-city-days-inspires-herne-germany/>
- **EDDIE participants:** RWTH
- **Type of participation:** Attendance/Participation and presentation.
- **Relation to EDDIE:**

Guests from business, research, innovation and society met for the Smart City Day at the Mulvany Villa in Shamrockpark in Herne, Germany. The two-day event made the topic areas of artificial intelligence, modern mobility and smart energy tangible and designable for the 21st century.

The event included the German-speaking FIWARE network meeting, the "Digital.Herne.Business" event, the "Smart City Summit" of the Ruhrvalley innovation network, as well as exhibitions and information for citizens and students on projects and current plans.

Also, EDDIE was part of the exhibition and displayed the LEGOS model, which was also deployed in the pilot activities "Gymnasium Workshop", "Workshop on Data Platforms for the Energy Infrastructure and "Science Night at RWTH in the Aachen pilot site.

- **Photo of the event:** Figure 2-68

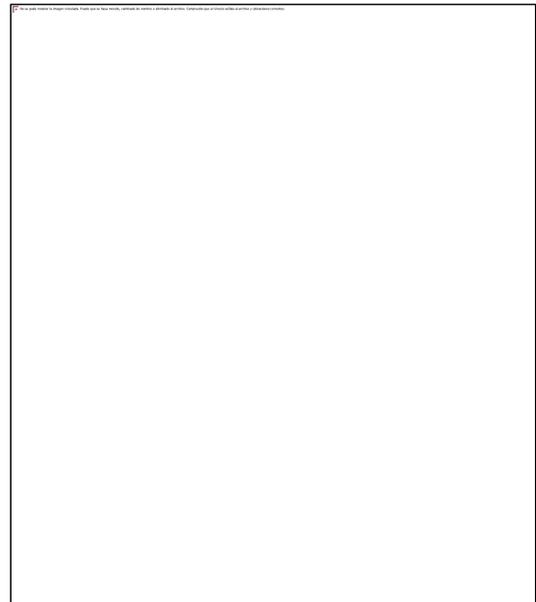
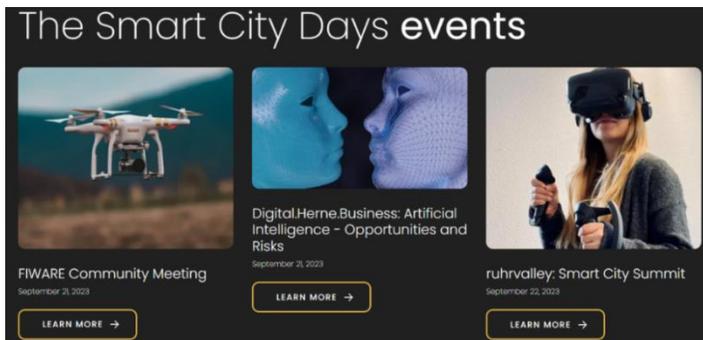


Figure 2-68. EDDIE at Smart City Day

## 2.2.27. ERASMUS+ DAYS 2023

- **Date:** 22 September 2023
- **Location:** Athens
- **Type of activity:** Participation in an Event
- **Organisers:** FIWARE Foundation e.V., Cluster e.V and IDEASFORUM
- **Estimated participants:** 400
- Website: [https://eddie-erasmus.eu/wp-content/uploads/2023/10/231026\\_EDDIE\\_ERASMUS-DAYS-2023.pdf](https://eddie-erasmus.eu/wp-content/uploads/2023/10/231026_EDDIE_ERASMUS-DAYS-2023.pdf)

- **EDDIE participants:** RWTH, NOVEL
- **Type of participation:** Attendance/Participation.
- **Relation to EDDIE:**

Guests from business, research, innovation and society met for the Smart City Day at the Mulvany Villa in Shamrockpark in Herne, Germany. The two-day event made the topic areas of artificial intelligence, modern mobility and smart energy tangible and designable for the 21st century.

The event included the German-speaking FIWARE network meeting, the "Digital.Herne.Business" event, the "Smart City Summit" of the Ruhrvalley innovation network, as well as exhibitions and information for citizens and students on projects and current plans.

Also, EDDIE was part of the exhibition and displayed the LEGOS model, which was also deployed in the pilot activities "Gymnasium Workshop", "Workshop on Data Platforms for the Energy Infrastructure and "Science Night at RWTH in the Aachen pilot site.

- **Photo of the event:** Figure 2-69 and Figure 2-70



#### EDDIE PROJECT PARTICIPATED AT THE "ERASMUS+ DAYS 2023".

26<sup>th</sup> November 2023, EDDIE Consortium

EDDIE representatives participated at the ERASMUS+ DAYS 2023, where education and innovation converged for a day of learning and inspiration. The event was held at the Brown Acropol Hotel in Athens on September 22, 2023, and the day was filled with engaging discussions and presentations on sustainable practices and innovation. The project has been represented by NOVEL Group S.A. partner. The partner had the opportunity to showcase the EDDIE project, which is dedicated in shaping the digitalization of the European Energy sector.

Erasmus+ Days were first held during the 30th anniversary of the Erasmus+ programme in 2017. The series of events celebrates the programme's success and showcases the benefits of the life-changing learning experiences it offers. It is also an occasion for potential beneficiaries to find out more and join the programme. Throughout the years, more and more events have been organised worldwide. In 2022, 6,295 events were organised in 58 countries around the world by Erasmus+ programme beneficiaries.



NOVEL provided a comprehensive overview of the EDDIE project, highlighting its mission to develop the Blueprint Strategy for the Digitalisation of the Energy value chain (BSDE). Their aim is 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. The esteemed partners who form the backbone of the consortium had been introduced and their commitment to offering their expertise to successfully achieve the goals of the project. Finally, NOVEL shared an overview of the EDDIE Tools that have been used towards the BSDE.

Figure 2-69. Press release - EDDIE at ERASMUS+ DAYS 2023

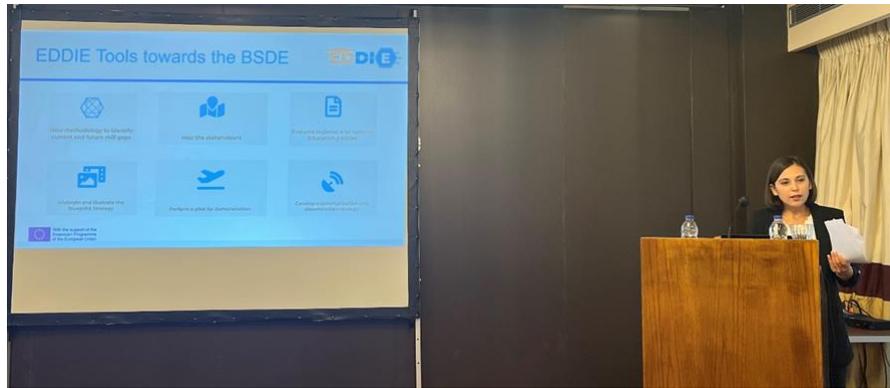


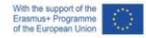
Figure 2-70. EDDIE at ERASMUS+ DAYS 2023

## 2.2.28. Sectoral skills intelligence and strategies as drivers of the just transition

- **Date:** 26 September 2023
- **Location:** Online
- **Type of activity:** Participation in an Event
- **Organisers:** European Centre for the Development of Vocational Training (CEDEFOP)
- **Estimated participants:** 130
- **Website:** [https://eddie-erasmus.eu/wp-content/uploads/2023/10/231010\\_EDDIE\\_Sectoral-skills-intelligence-and-strategies-as-drivers-of-the-just-transition.pdf](https://eddie-erasmus.eu/wp-content/uploads/2023/10/231010_EDDIE_Sectoral-skills-intelligence-and-strategies-as-drivers-of-the-just-transition.pdf)
- **EDDIE participants:** CRE
- **Type of participation:** Attendance.
- **Relation to EDDIE:**

The main objective of the Cedefop's 3rd virtual get-together welcomed sectoral actors, VET providers, guidance practitioners and other actors to exchange experience with sectoral skills intelligence stemming from skills anticipation methods and identify opportunities and challenges for using it "in the front line". The role of sectoral skills intelligence in supporting the design and improvements of sectoral skill strategies has also been discussed. Relevant and targeted vocational education and training (VET) programmes need to reflect insights of skills anticipation methods (such as skills forecasts, skill foresights, employee and employer surveys, big data analysis). Particularly in times of increased volatility and economic pressures, economic sectors are the hubs of change and innovation that can enable a just twin transition. A mix of suitable skills anticipation tools and methods, availability of data, capacity to handle and "translate" the data into actionable and policy steps are crucial. Sectoral skill strategies, built on high quality sectoral skills intelligence, place relevant stakeholders at the driver's seat and call for a holistic skills governance approach, founded on comprehensive skills ecosystems. The first topic of the meeting targeted "Skills anticipation practices in times of transitions: trends in EU Member States" and has been detailed by Stelina Chatzichristou, Cedefop expert. Ms Chatzichristou explained that Skills intelligence means the outcome of an expert-driven process of identifying, analysing, synthesizing and presenting quantitative and/or qualitative information on skills and labour market. Additionally, Steliana spoke about Cedefop's blending insights to develop skills intelligence, practical guides on understanding technological change and impact on skill needs and the key elements of well-functioning systems. Further, Rino Vitelli - Head of EU Projects and Partnerships at Federturismo Confindustria, talked about "How skills intelligence can support the just transition. The European Tourism Industry Perspective". Tourism is a capital saving and labour-intensive sector, contributing (directly and indirectly) to around 10% of the total EU GDP and 12% of overall employment. Moreover, new business models and creative solutions are needed, as well as radical changes in the way education, policies shaping and preparation for future challenges are executed. Mr. Vitelli mentioned that skills development is crucial to promote growth, innovation, and competitiveness. One of the main issues of the tourism sector is the fact that over 90% of tourism enterprises employ less than 10 people and the training for employees is often left behind.

- **Photo of the event:** Figure 2-71



EDDIE PROJECT PARTICIPATED AT THE "SECTORAL SKILLS INTELLIGENCE AND STRATEGIES AS DRIVERS OF THE JUST TRANSITION" EVENT.

10<sup>th</sup> October 2023, EDDIE Consortium

EDDIE representatives participated at the "Sectoral skills intelligence and strategies as drivers of the just transition" event on the 26<sup>th</sup> of September 2023. The event has been organized by European Centre for the Development of Vocational Training (CEDEFOP), to address the need of having a skilled workforce to accelerate the just transition.



**Sectoral skills intelligence and strategies as drivers of the just transition**  
Supporting frontline actors  
Cedefop virtual get-together

26 September 2023  
10.00-12.00 CET



The main objective of the Cedefop's 3rd virtual get-together welcomed sectoral actors, VET providers, guidance practitioners and other actors to exchange experience with sectoral skills intelligence stemming from skills anticipation methods and identify opportunities and challenges for using it "in the front line". The role of sectoral skills intelligence in supporting the design and improvements of sectoral skill strategies has also been discussed.

Relevant and targeted vocational education and training (VET) programmes need to reflect insights of skills anticipation methods (such as skills forecasts, skill foresights, employee and employer surveys, big data analysis). Particularly in times of increased volatility and economic pressures, economic sectors are the hubs of change and innovation that can enable a just twin transition. A mix of suitable skills anticipation tools and methods, availability of data, capacity to handle and "translate" the data into actionable and policy steps are crucial. Sectoral skill strategies, built on high quality sectoral skills intelligence, place relevant stakeholders at the driver's seat and call for a holistic skills governance approach, founded on comprehensive skills ecosystems.

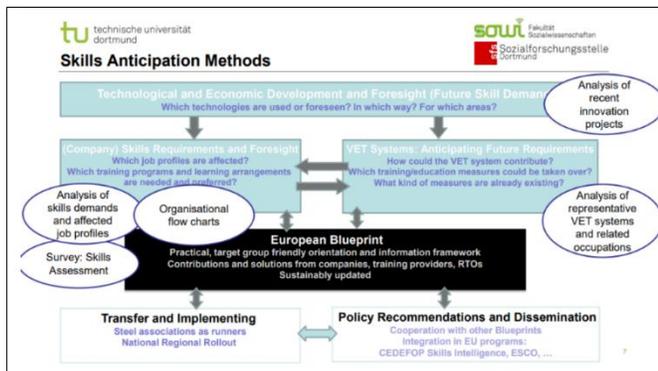


Figure 2-71. EDDIE at Sectoral skills intelligence and strategies as drivers of the just transition

## 2.2.29. Lifelong learning for local sustainable growth: Policy and Practices for the Green Transition

- **Date:** 11 October 2023
- **Location:** Brussels/Online
- **Type of activity:** Participation in a Workshop
- **Organisers:** EARLALL
- **Estimated participants:** 200
- **Website:** <https://www.earlall.eu/event/lifelong-learning-for-local-sustainable-growth-policy-and-practices-for-the-green-transition/>
- **EDDIE participants:** NTUA
- **Type of participation:** Attendance.
- **Relation to EDDIE:**

During the context of the Week of Regions and Cities, EARLALL, SkillNet Ireland and EAEA are pleased to announce this workshop. The workshop will propose an exchange on initiatives that empower local & regional authorities, businesses, and communities to develop the skills needed to achieve a carbon-neutral local economy. Participants will reflect upon a roadmap for building capacity in Adult Learning Education that was piloted in Europe in the context of the REGALE project, in addition to hearing from practices on building good public-private partnerships, including the example of Skillnet Ireland and Cork City. Amongst the speakers were: Kieran McCarthy, Independent member of the Committee of the Regions and Independent Councilor, Cork City Council (Ireland), Aoife O'Sullivan, Head of Network development and innovation at Skillnet Ireland, Davide Muraro, Policy and Project Coordinator, EAEA.

- **Photo of the event:** Figure 2-72.



Figure 2-72. EDDIE at Lifelong learning for local sustainable growth: Policy and Practices for the Green Transition

### 2.2.30. Visibility, Policy engagement, NETwork Strengthening in Vocational Education and Training (ViP-NEXT) Event

- **Date:** November 2023
- **Location:** Physical /Online
- **Type of activity:** Participation in an Event
- **Organisers:** ViP-NEXT
- **Estimated participants:** 100
- **Website:** <https://www.evta.eu/vip-next/>
- **EDDIE participants:** NOVEL
- **Type of participation:** Attendance.
- **Relation to EDDIE:**

The next generation of Visibility, Policy engagement, NETwork Strengthening in Vocational Education and Training, is a transformative project that fosters collaboration among stakeholders in the VET sector.

NOVEL partner representatives participated in a Community Meetup - a networking open dialogue, where discussions focused on Best Practices in the digitalization of VETs. It was a unique opportunity to brief a variety of partners all around Europe about EDDIE project and to update them on the pilots and outcomes.

- **Photo of the event:** Figure 2-73



Figure 2-73. EDDIE at ViP-NEXT

## 2.3. Events attended due to their importance and relevance and content to be considered within EDDIE.

### 2.3.1. Innovations for operating power systems with increasing shares of variable renewables (Webinar)

- **Date:** February 11, 2021
- **Location:** online
- **Type of activity:** Participation to a Webinar
- **Organisers:** International Renewable Energy Agency (IRENA) – TRANSNET BW – ICE
- **Estimated participants:** 100
- **Website:** <https://irena.org/events/2021/Feb/Innovations-for-operating-power-systems-with-increasing-shares-of-variable-renewables>
- **EDDIE participant:** CRE
- **Type of participation:** Audience
- **Relation to EDDIE:** The joint webinar by the International Renewable Energy Agency (IRENA), TransnetBW GmbH, one of the TSOs in Germany and ICE, the Costa Rican Electricity Institute, aimed to discuss innovative solutions for operating power systems with increasing shares of variable renewable electricity. Combining innovations for renewable solutions has been proposed during the webinar by enabling technologies (internet of things, artificial intelligence and big data, blockchain), by addressing market design (regional markets, increasing time granularity in electricity markets, innovative ancillary services), by improving the system operation (advanced forecasting of variable renewable power generation, co-operation between transmission and distribution system operators, co-operation between transmission system operators). The innovative approach on the role of renewables helps the consortium in identifying the needs of this specific area of the energy sector in terms of education and digitalization.
- **Photo:** Figure 2-74



Figure 2-74. Innovations for operating power systems with increasing shares of variable renewables

### 2.3.2. Pact for Skills – support for upskilling and reskilling under Erasmus+. Seminar Pact for Skills. Blueprint Sector Skills Alliances 2017-2020.

- **Date:** February 17-18, 2021
- **Location:** online

- **Type of activity:** Participation to a Webinar
  - **Organisers:** EC
  - **Estimated participants:** 360
  - **Website:** <https://ec.europa.eu/social/main.jsp?catId=1517&langId=en>
  - **EDDIE participant:** CRE, COMILLAS, NTUA, E.DSO, DNV
  - **Type of participation:** Audience
  - **Relation to EDDIE:** The aim to participate in the webinar is to get a better knowledge about the Pact for Skills [2] as one of the main actions under the European Skills Agenda to get involved in this action and to integrate into EDDIE. The European Commission launched the Pact for Skills, as a leading action for the European Skills Agenda, where national, regional, and local authorities, social partners, cross-industry and sectoral organizations, education and training providers and employment services have a key role to play. The aim and objectives of The Pact are for concrete actions and join forces to upskill and reskill people in Europe in the context of supporting the goals of the Green Deal and Digital Transitions of the EU Industrial and SMEs strategies. The dimension and importance of this Pact at EU level is highlighted by being the leading action under the European Skills Agenda as firmly anchored in the European Pillar of Social Rights. The Pact promotes a culture of lifelong learning for all, building strong skills partnerships, monitoring skills demand, and anticipating skills needs but it also stands for working against discrimination and for gender equality and equal opportunities. The pact aims to mobilize and incentivize private and public stakeholders to actively contribute to the upskilling and reskilling of individuals and when appropriate and feasible using pool efforts in partnerships. Pathway to achieve sustainability in energy transition including societal decisions such as European Green Deal, digital economy of today and supporting industrial and SMEs strategies led to firmly believe that skills are key for both people and companies to unlock competitiveness, social fairness, and resilience. The European Skill Agenda underline the role of companies and social partners in cooperation and exchange at local and regional level but also the importance of social dialogue for a successful upskilling and reskilling in Europe. The Pact was created based on other EU initiatives for cooperation including the reinforced European Alliance for Apprenticeships but also on the Blueprint for Sectoral Cooperation of Skills.
- In the Pact for Skills context, EDDIE project participated on 17-18 February at the Webinar, discussing about the correlation between industrial ecosystems like Digital, Mobility, Transport and Automotive; Energy Intensive-Industries; Renewable Energy and the skills needs at each level. Furthermore, the main describing steps of the Pact were addressed. Demand driven commitments; Support from the EU and upskilling and reskilling for ALL are mandatory stages in the Pact for Skills landscape. EDDIE Project joined the Pact (Figure 2-76) with the aim of promoting concrete actions and contribute through the project results.
- **Photo:** Figure 2-75.

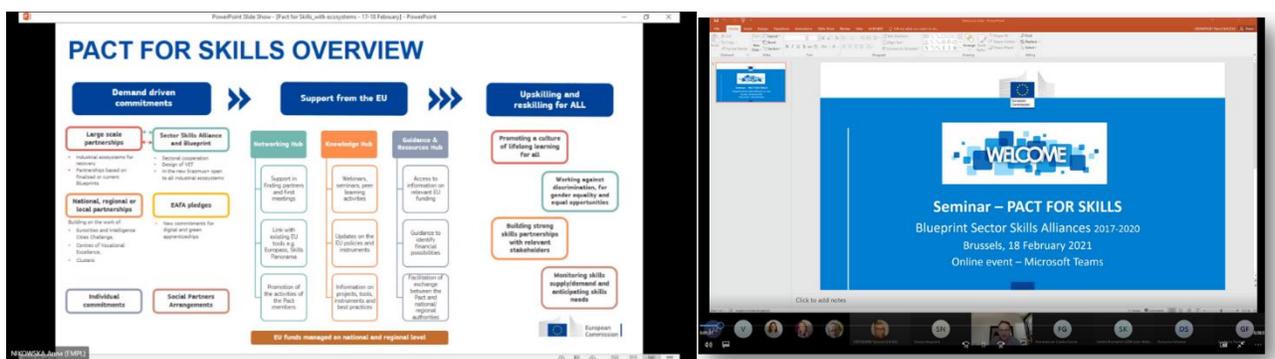


Figure 2-75. Skill Building for the Energy Transition - Presentation during the webinar

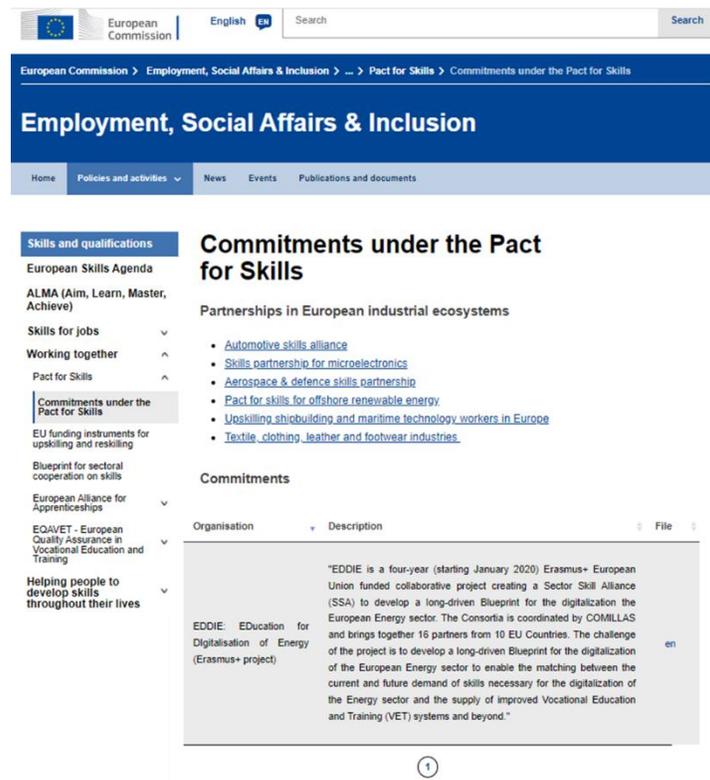


Figure 2-76. EDDIE project - commitment for Pact for Skills

To promote and disseminate this event and to provide more information on the EU “Pact for Skills” initiative, EDDIE consortium created a dedicated document as a press release that was posted on the website and shared on the social media channels. The document is listed under the **NEWS** section on the website and can be found [here](#) as well. A print screen of this document is in Figure 2-77.



Figure 2-77. EDDIE's Press release for Pact for Skills

For this event, our partner CRE disseminated among its members a press release with more information via email and posted on their website and social media. A print-screen of this press release can be seen in Figure 2-78 and the document can be found in the **Press Release** section on CRE website but also [here](#).

EUROPEAN COMMISSION PACT FOR SKILLS IN THE CONTEXT OF ROMANIAN ENERGY CENTER  
ASSOCIATION AND EDDIE PROJECT

16<sup>th</sup> of February 2021, Radu PLĂMĂNESCU

The European Commission launched the Pact for Skills, as a leading action for the European Skills Agenda, where national, regional, and local authorities, social partners, cross-industry and sectoral organizations, education and training providers and, employment services have a key role to play. The aim and objectives of The Pact are for concrete actions and join forces to upskill and reskill people in Europe in the context of supporting the goals of the *Green Deal* and *Digital* Transitions of the *EU Industrial and SMEs* strategies. The dimension and importance of this Pact at EU level is highlighted by being the leading action under the *European Skills Agenda* as firmly anchored in the European Pillar of Social Rights. The newly funded Erasmus+ project of Romanian Energy Center innovation portfolio called EDDIE - (*Education for Digitalisation of Energy*) has the main objective 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. Within this context CRE as part of EDDIE consortium will translate their engagement into concrete commitments on upskilling and reskilling by bringing to reality the key principles of the Pact.

Figure 2-78. CRE's press release on Pact for Skills

### 2.3.3. "Skill Building for the Energy Transition"

- **Date:** February 23, 2021
- **Location:** online
- **Type of activity:** Participation to a Webinar
- **Organisers:** IRENA
- **Estimated participants:** 80
- **Website:** [https://www.irena.org/-/media/Files/IRENA/Agency/Events/2020/Jun/IRENA-Insights/Skill-Building/IRENAinsights\\_Skills\\_final.pdf?la=en&hash=F34A1F96D2E9677972E7771BB174EF8F662C3DBF](https://www.irena.org/-/media/Files/IRENA/Agency/Events/2020/Jun/IRENA-Insights/Skill-Building/IRENAinsights_Skills_final.pdf?la=en&hash=F34A1F96D2E9677972E7771BB174EF8F662C3DBF)
- **EDDIE participant:** CRE
- **Type of participation:** Audience
- **Relation to EDDIE:** The solution proposed by the reports presented, focus on preparing students to work in many occupational areas, beside redesigning the curriculum by targeting schools, higher education, vocational training, professional or supplementary education and training.  
High attention has been directed towards the curriculum design at all the education levels. In the case of schools, the focus was on the need of the early exposure, on the requirement of the citizens to own knowledge and on the potential to integrate renewable energy into national curriculum frameworks. For higher education has been underlined the need for the curriculum to be updated to reflect competences and skills. The vocational training must reflect the industry need, to be delivered by TVET colleges and industry, and courses must cover the technical skills. In the case of professional or supplementary education and training, the webinar covered the continuing education and training, the need for upskilling and the specialized knowledge.  
As participant, EDDIE could not agree more with the conclusion that building the skill base necessary for achieving the energy transition requires the implementation of education and training policies and programs that address the need to reskill and upskill the existing energy workforce as well as educate a new generation of energy professionals." The webinar concluded that curriculums would need to address cross-disciplinary skills, emerging skills (storage, digitalisation, bioenergy, etc.) and innovation and entrepreneurship abilities.
- **Photo:** Figure 2-79

## Technology Enhanced Learning

ICT innovations can play an important role in the delivery of renewable energy education and training

Applies both to tech savvy Gen Z...

...as well as mature learners seeking to reskill

The pandemic has shown us the importance of digital learning for all and has changed the future of education



IRENA  
insights  
WEBINAR SERIES

IRENA insights  
WEBINAR SERIES

## Skill Building for the Energy Transition

TUESDAY, 23 FEBRUARY 2021 • 12:00-12:30 CET

IRENA

Figure 2-79 – "Skill Building for the Energy Transition"

### 2.3.4. "Remote Testing & EIRIE Platform"

- **Date:** March 8, 2021
- **Location:** online
- **Type of activity:** Participation to a Webinar
- **Organisers:** European Distributed Energy Resources Laboratories (DERLAB), ERIGRID 2.0 and PANTERA projects
- **Estimated participants:** 120
- **Website:** <https://der-lab.net/remote-testing-eirie-platform-webinar-on-demand/>
- **EDDIE participant:** Romanian Energy Center (CRE)
- **Type of participation:** Audience
- **Relation to EDDIE:**

Pantera project has been working on developing an interactive multi-platform called EIRIE Platform (European Research Infrastructure supporting Smart Grid and Smart Energy Systems Research, Technology Development, Validation and Roll Out) that will build trustful cooperation with stakeholders, acting as the meeting point of all actors active in the field of energy Research and Innovation from all Europe.

The experience with the Remote Lab Access Services on the Example VILLAS4ERIGRID, the Virtual Research Services in ERIGRID 2.0 were introduced. Lab Services from RWTH Aachen and the OpenAFPM Services from ICCS-NTUA presented their demo, concluding with the EIRIE Platform description and functionalities.

The presentation of the ERIGRID 2.0, Research Infrastructure for Smart Grids and Smart Energy Systems highlighted the project motivation – planning and operation of the energy infrastructure (large-scale integration of Renewable Sources, controllable loads like battery storage, electric vehicles). Its trends and future directions like the digitalization of energy infrastructure, a deeper involvement of consumers and market interaction, sector coupling for higher flexibility and resilience were part of the discussion as well. Regarding the Integrated Smart Energy Research Infrastructure, the ERIGRID Project stands for Research and Technology Development in Smart Grids and Smart Energy Systems, for the Digitalisation with Lab Interfacing and Data Exchange for physical and virtual access, and it develops simulation, co-simulation, ICT and Automation and Controls for Power and Energy Systems. The ERIGRID 2.0 Project provides engineers in power system testing, smart grids and energy systems free funding to access the best laboratories of Europe and perform their experimental research. Access to physical labs can be on-site or remote, depending on the conditions of specific laboratories.

Regarding the education and training, during the event has been presented the importance and the possibility to offer education and training for energy professionals; physical and remote workshops, webinars, tutorials, and training schools; open access laboratory education; provision of e-learning tools and open access resources.

Synergy with EDDIE Project are encouraged by the EIRIE Platform with the objective to enhancing future skills of professionals, technicians, trainees (all education levels) needed in the Smart Grid area. Moreover, the EIRIE Platform may support the sustainability of the Eddie within the SSA Blue Print of EDDIE project

For this event, CRE Association shared **content** and information for its members. A print screen of this document is in Figure 2-80.


**DERLAB WEBINAR "REMOTE TESTING & EIRIE PLATFORM" – POSSIBLE SYNERGIES WITH EDDIE PROJECT**

 10<sup>th</sup> of March, Carina Ioana ZIDARU

The representatives of the Romanian Energy Center Association (CRE) participated at a joint Webinar entitled "Remote Testing & EIRIE Platform", organized by European Distributed Energy Resources Laboratories (DERLAB) Working Group 4 "Strengthening the Integration of Laboratories & Researcher Exchange" in collaboration with the Horizon 2020 Projects, ERIGRID 2.0 and PANTERA, on Tuesday, 8<sup>th</sup> of March 2021. During this Webinar, ERIGRID 2.0 partners highlighted the project's infrastructure and presented their experiences using remote lab access. The participants could interact with the Virtual Access of infrastructure with demos of two virtual facilities, organized by ERIGRID 2.0. The representatives of PANTERA Project presented the interactive multi-functional platform EIRIE that will act as the meeting point of all actors active in the field of energy research and innovation from all Europe.

The *Remote Testing & EIRIE Platform* Webinar underlined the overview of the ERIGRID 2.0 Research Infrastructure for Smart Grids and Smart Energy Systems and introduced the ERIGRID 2.0 Lab Access Services. The experience with the Remote Lab Access Services on the Example VILLAS4ERIGRID, the Virtual Research Services in ERIGRID 2.0 were introduced. Lab Services from RWTH Aachen and the OpenAFPM Services from ICCS-NTUA presented their demo, concluding with the EIRIE Platform description and functionalities.

Figure 2-80. CRE's press release on "Remote Testing &amp; EIRIE Platform" webinar

- **Photos from the event:** Figure 2-81



Figure 2-81. "Remote Testing &amp; EIRIE Platform" Webinar

### 2.3.5. Launch of the New Manifesto for Enhancing Digital Competences across Europe

- **Date:** May 6, 2021
- **Location:** online
- **Type of activity:** Participation to an Event
- **Organisers:** ALL DIGITAL
- **Estimated participants:** 150
- **Website:** <https://all-digital.org/events/launch-of-the-new-manifesto/>
- **EDDIE participant:** CRE
- **Type of participation:** Audience
- **Relation to EDDIE:**

ALL DIGITAL represents more than 25.000 digital competence centres across European Union. The manifesto sought to contribute to dialogue, implementation, and cooperation on the EU actions to deliver Europe's digital future. Through the building blocks of the manifesto, can be enumerated: the education and training offer, access to education and training, quality of education and training, a European approach to digital competences, sustainability and development. Each of these categories was presented in detail during the event. The education and training offer must be designed to reflect the needs of people, the labour market, and the society, while understanding the developing in combination with other key competences. It must be in line with the digital transformation and recognised as part of the lifelong learning pathways. In the case of access to education and training, there should be sufficient provision of education and training in the market to meet demand.

The mission was to empower the member organizations representing non-formal education providers to support millions of Europeans to succeed in the digital transformation by providing them with training and advice.

- **Photo relevant for the event:** Figure 2-82



Figure 2-82 - Launch of the New Manifesto for Enhancing Digital Competences across Europe

### 2.3.6. EURASHE 30th Annual Conference - Professional Higher Education and sustainable development: creating a change that endures

- **Date:** May 20-21, 2021
- **Location:** online
- **Type of activity:** Participation to a Conference
- **Organisers:** European Association of Institutions in Higher Education (EURASHE), Portuguese Polytechnics Coordinating Council (CCISP), the Polytechnic of Porto and Portuguese Presidency of the Council of the EU.
- **Estimated participants:** 300
- **Website:** <https://www.eurashe.eu/events/annual-conferences/30th-annual-conference-online-20-21-may-2021/>
- **EDDIE participant:** Romanian Energy Center (CRE)
- **Type of participation:** Audience
- **Relation to EDDIE:**

The main aim of the conference was to build up a set of Specific Recommendations and discuss a potential Action Plan for their implementation by professional higher education and its stakeholders over the next years. In this regard, EDDIE project has been part of the audience as an important pillar of education in energy sector. Panel discussion on „European Universities initiatives” and „Professional higher education for smart and sustainable recovery”, were part of the programme.

The concept of sustainable development, which is fundamental for the European Union, is based on a large holistic approach to a whole range of interlinked global challenges. The 17 Sustainable Development Goals (SDGs) plot out a route on how to overcome the challenges we face, and to improve our habitat, our economy and our lives. They shape all EU internal and external policies and steer the implementation of the seven-year EU budget. It is amply acknowledged that the achievement of the SDGs will not be possible without education, and not the latest Professional Higher education (hereafter –PHE), significant involvement in the cause. Thus, five years after the setting out of Agenda 2030, it is important to analyse the experience accumulated and to draw the way forward.

EURASHE Annual Conferences attracts each year a diversity of delegates – heads of institutions, higher education practitioners, business representatives, policy-makers, academics and students – from the education community across Europe and beyond its borders. It is recognised as a communication platform for education experts and professionals, and is characterised by its practical, innovating and stimulating approach.

Universities of applied sciences’ leaders, the entire community of professional higher education, European businesses and public institutions and European students’ representatives has been invited to attend the EURASHE event to share their experience and to learn about trends, models and inspiring practices.

- **Photo:** Figure 2-83



Figure 2-83 - Professional Higher Education and sustainable development: creating a change that endures

### 2.3.7. Power Summit 2021 – Electric Decade

- **Date:** May 25-28, 2021
- **Location:** online
- **Type of activity:** Participation to a Event
- **Organisers:** EURELECTRIC
- **Estimated participants:** 3000
- **Website:** <https://powersummit2021.eurelectric.org/>
- **EDDIE participant:** CRE, COMILLAS, EDSO
- **Type of participation:** Audience
- **Relation to EDDIE:**

The Event highlighted important topics such as: Energy Transition, Renewable Heating Solutions, Hydrogen, Digital & Data, Innovation, Digital Jobs and Digitalisation. Europe’s premier power sector event recognised as the “Electric Davos” is the leading forum where the European power sector ecosystem connects industry captains, politicians, business disrupters, investors and academics.

Eddie project considers the evolution of the power systems an important source of identifying or predicting the future needs in terms of skills, abilities, and competences of the energy sector.

- **Photos from the event:** Figure 2-84



Figure 2-84 – Power Summit 2021 - Electric Decade

### 2.3.8. 4th E.DSO-ENCS-ENTSO-E Webinar on Cybersecurity “Enhancing our grid resilience”

- **Date:** 21 October 2021
- **Location:** online
- **Type of activity:** Participation as audience
- **Organizers:** Association of European Distribution System Operators (E.DSO), European Network for Cyber Security (ENCS), European Network of Transmission System Operators for Electricity (ENTSO-E)
- **Estimated participants:** 150
- **Website:** <https://www.edsoforsmartgrids.eu/save-the-date-4th-e-dso-encs-entso-e-event-on-cybersecurity-enhancing-our-grid-resilience/>
- **EDDIE participant:** Romanian Energy Center (CRE), E.DSO
- **Type of participation:** Audience
- **Relation to EDDIE:**

This webinar focused on “enhancing our grid resilience”, the conference brought together experts in the field of Cybersecurity to exchange on the latest industry knowledge and to present learnings from past threats with a solution-based approach. Since Eddie project is looking into the security of supply chain in times when cyber warfare hits the energy grids, network codes related to cybersecurity, as well as into abilities and competences in the cybersecurity fields, the webinar presented key information in the consortium research.

The European Network for Cyber Security (ENCS), the Association of European Distribution System Operators (E.DSO), and the European Network of Transmission System Operators for Electricity (ENTSO-E), together hosted a virtual event on 21<sup>st</sup> of October, discussing the challenges of increasing volume and sophistication of malicious acts towards the European energy grid and how the Network Code Cybersecurity will enhance our grid resilience.

- **Photo of the event:** Figure 2-85



Figure 2-85. 4th E.DSO-ENCS-ENTSO-E Webinar on Cybersecurity “Enhancing our grid resilience”

### 2.3.9. 10th INNOGRID EDITION - "Living the Transition"

- **Date:** Friday 4<sup>th</sup> and 11<sup>th</sup> of June 2021
- **Location:** online
- **Type of activity:** Participation to an Event
- **Organizers:** Association of the European Distribution System Operators (E.DSO) and the European Network of Transmission System Operators for Electricity (ENTSO-E)

- **Estimated participants:** 150
- **Website:** <https://www.innogrid.eu/>
- **EDDIE participant:** CRE, E.DSO
- **Type of participation:** Audience
- **Relation to EDDIE:**

EDDIE representatives participated at the 10<sup>th</sup> InnoGrid Edition focused on "Living the Transition", jointly organized Online by the Association of the European Distribution System Operators (E.DSO) and the European Network of Transmission System Operators for Electricity (ENTSO-E), on Friday 4<sup>th</sup> and 11<sup>th</sup> of June 2021. The Event brought together experts from Transmission and Distribution System Operators (TSOs and DSOs), European Union (EU) Officials, Academics, Representatives of Civil Society and Industry.

InnoGrid Conference on 4<sup>th</sup> of June highlighted the important role of networks in the energy transition and how they are enabling it today. During the Event, on 11<sup>th</sup> of June, the audience had the opportunity to learn more about leading EU funded Research and Development (R&D) projects that contribute to the transition by developing innovative solutions to digitalization, renewables integration, flexibility, and new market opportunities.

Opening the 10<sup>th</sup> edition of InnoGrid, on 4<sup>th</sup> of June, European Energy Commissioner, Ms. Kadri SIMSON stressed the three major trends affecting Europe's energy system: decarbonization, decentralization, and digitalization. Ms. Kadri SIMSON pointed out the important role of transmission and distribution system operators in managing the impact of these trends on the power system. The InnoGrid first day showed that TSO & DSO cooperation is very strong, regarding innovation, flexibility or sector integration, and that it will remain a key enabler in the years to come for reaching the objectives under the EU Green Deal. [1]

Innogrid Day 2 - "Beyond Sandboxes" focused on Innovation in Asset Management and Markets. Introduced by Mr. Uros SALOBIR - Vice-Chair of ENTSO-E Research, Development and Innovation Committee, and Mr. Richard VIDLIČKA - Chair of E.DSO Innovation & Research Committee, the second day of the 10<sup>th</sup> edition of InnoGrid gave the opportunity to participants to deep dive in some of the Horizon2020 Projects in the areas of asset management and markets.

With a long history on European innovation, InnoGrid 2021 event has been a source of information and inspiration, through the most pressing topic of the moment – energy transition. Having the opportunity to learn more about how other EU funded R&D projects work on innovative solutions related to digitalisation (and not only), helped the EDDIE team to refine its view on how to tackle the subject of education for digitalization of energy sector.

For the "10<sup>th</sup> INNOGRID EDITION – "Living the Transition" Event, CRE Association shared **content** and information for its members. A print-screen of this press release can be found in Figure 2-86.



Figure 2-86. CRE's press release on the "10<sup>th</sup> INNOGRID EDITION – "Living the Transition" Event, CRE As

- **Photos from the event:** Figure 2-87.



Figure 2-87. 10th INNOGRID EDITION - "Living the Transition" - photos from the event

### 2.3.10. Workshop on Analyzing and Comparing VET Qualifications

- **Date:** June 18, 2021
- **Location:** online
- **Type of activity:** Participation to a Workshop
- **Organizers:** European Centre for the Development of Vocational Training (CEDEFOP)
- **Estimated participants:** 300
- **Website:** <https://www.cedefop.europa.eu/en/events/workshop-analysing-and-comparing-vet-qualifications>
- **EDDIE participant:** CRE
- **Type of participation:** Audience
- **Relation to EDDIE:**

EDDIE Project participated at the Workshop on Analyzing and Comparing Vocational Education and Training (VET) Qualifications, organized by the European Centre for the Development of Vocational Training (CEDEFOP), on 18th of June 2021. The Workshop presented the final findings of the CEDEFOP Project - Comparing vocational education and training qualifications: towards a European Comparative methodology. This Event allowed for a discussion on how to strengthen the feed-back-loop between education and training and the labor market; and thus, provide a better link between the supply and demand of skills and qualifications. Moreover, the Workshop presented a series of use-cases where a systematic analysis and comparison of learning outcomes can support researchers, policy makers and practitioners involved in the development as well as review and renewal of skills and qualifications.

The workshop gathered selected international experts and researchers working on comparative methodologies from different angles.

- Photo: Figure 2-88



Figure 2-88. Workshop on Analyzing and Comparing VET Qualifications

### 2.3.11. SEFI Annual Conference 2021

- **Date:** September 13-16, 2021
- **Location:** Online
- **Type of activity:** Participation of a Conference
- **Organizers:** SEFI & Technische Universität Berlin (TUB)
- **Estimated participants:** 100
- **Website:** <https://sefi2021.eu/>
- **EDDIE participant:** CRE
- **Type of participation:** Audience
- **Relation to EDDIE:**

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. We all realize that this extensive online teaching will have a sustainable impact on the way we teach and learn. The conference will focus 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.

- **Photo as logo and presentation:** Figure 2-89.



Figure 2-89. SEFI annual conference

### 2.3.12. “The Truth about Sector Coupling”

- **Date:** September 20, 2021
- **Location:** online
- **Type of activity:** Organization of an Event
- **Organizers:** E.DSO, Gas Distributors for Sustainability (GD4S)
- **Estimated participants:** 130
- **Website:** <https://www.edsoforsmartgrids.eu/the-truth-about-sector-coupling/>
- **EDDIE participant:** CRE, E.DSO.
- **Type of participation:** Audience
- **Relation to EDDIE:**

The representatives of the Romanian Energy Center (CRE) Association participated at ” *THE TRUTH ABOUT SECTOR COUPLING*” Online Conference, jointly organized by the Association for European Distribution System Operators (E.DSO) and the Gas Distributors for Sustainability (GD4S), on Monday, 20<sup>th</sup> of September 2021.

This webinar aimed to encourage and extend the debate on sector coupling and its challenges by exploring new and innovative ideas and technologies which could facilitate the coupling of the electricity and gas sectors. One main idea from the presentations of the workshop mention digitalisation as a mandatory enabler to a smarter

system, in the context of a European Union framework that ease and incentivize interaction between the electricity, gas, buildings, transport, and industry through relevant technologies.

"[THE TRUTH ABOUT SECTOR COUPLING](#)" Webinar gather experts from the private and public sector shared their knowledge about Sector Coupling and their vision on how to reach a fully decarbonised Energy System thanks to Gas and Electricity. The main topics of the Conference were the Electricity and Gas in Transport Sector, Sector Integration in Heating and Sector Integration at Local Level. To reach the ambitious targets, all the involved actors agreed on the fact that, in order to make the sector coupling something real and effective at the lower cost, for States, companies and consumers, European Energy Players will need to work very closely and think about comprehensive view with the goal to achieve the objectives set by the European Commission.

- **Photo relevant for the event:** Figure 2-90



Figure 2-90. "The Truth about Sector Coupling" - opening of the event

### 2.3.13. Conference - Flexibility: The enabler for a clean energy future?

- **Date:** November 10, 2021
- **Location:** Digital event
- **Type of activity:** Participation to a Conference
- **Organisers:** Euroelectric
- **Estimated participants:** 80
- **Website:** <https://www.euroelectric.org/events/flexibility-the-enabler-for-a-clean-energy-future-10-nov-2021/>
- **Participant:** Iberdrola
- **Type of participation:** Audience
- **Presentation/Speech/ title:** Flexibility: The enabler for a clean energy future?
- **Presentation abstract and Relation to EDDIE:**

The need of design or adapt the services that provides the DSOs and TSOs to the clients, this service should be flexible to guarantee Europe's position as a leader in the global green economy because there is an increasing of the demand about decentralized power. Innovations solutions, efficient and transparent market are required to accomplish the target as well laying the foundations for the creation of a legal framework. Overarching principles for the market-based procurement: transparency, data visibility, coordination, value stacking, incentives, and technology neutral approach.

The topic of the conference (flexibility as a necessary pathway for the future of green energy) generates a global vision of how the electricity sector will evolve in the coming years, thus being able to deduce what skills and knowledge companies will demand from their employees to create an education system accordingly.

- **Photo related to the event:** Figure 2-91

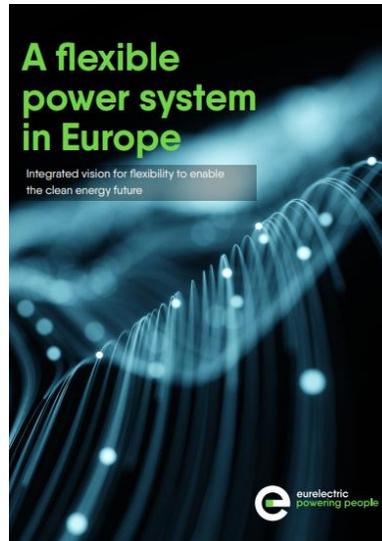


Figure 2-91. Cover of Euroelectric's report

### 2.3.14. 3rd Coordinet Stakeholder Forum – Roadmap for a Green Deal fir market design

- **Date:** November 25, 2021
- **Location:** hybrid event
- **Type of activity:** Participation of a Forum
- **Organizers:** Coordinet Project
- **Estimated participants:** 100
- **Website:** <https://coordinet-project.eu/news/3rd-coordinet-stakeholder-forum>
- **EDDIE participant:** CRE, EDSO.
- **Type of participation:** Audience
- **Relation to EDDIE:**

Coordinet aims to help enable decarbonization in the EU by increasing the share of RES in the electricity system through active network management. Based on experiences from the DEMO runs, the following topics will be discussed: market timing, consumer engagement, aggregation, standardized products and services.

The third CoordiNet Stakeholder Forum (SHF) aims to discuss recommendations for regulatory arrangements to the current energy market design, enabling TSOs and DSOs to procure considered standardized products for grid services in a coordinated manner across Europe.

Coordinet aims to help enable decarbonization in the EU by increasing the share of Renewable Energy Sources (RES) in the electricity system through active network management.

- **Photo for presentation the event:** Figure 2-92



Figure 2-92. 3rd Coordinet Stakeholder Forum – Roadmap for a Green Deal fir market design

### 2.3.15. Europe in transition: challenges for research and education

- **Date:** March 10, 2022
- **Location:** Strasbourg – France
- **Type of activity:** Participation to an Event
- **Organizers:** Within the framework of the French Presidency of the European Union (PFUE) and five research alliances (ANCRE, AVIESAN, ALLISTENE, AllEnvi and ATHENA)
- **Estimated participants:** 100
- **Website:** <https://www.allianceenergie.fr/save-the-date-europe-en-transition-les-defis-pour-la-recherche-et-la-formation/>
- **EDDIE participant:** CRE
- **Type of participation:** Audience
- **Relation to EDDIE:** Under the aegis of the French Ministry of Higher Education, Research and Innovation, the five national alliances (gathering the French research organizations and universities under 5 embedding topics: energy, environment, numeric, health, human and social sciences) have produced a positioning document which reflects a common and shared vision of new directions in research, to serve the major transitions, in the emerging academic discipline of sustainability science.
- **Photo for presentation the event:** Figure 2-93



Figure 2-93. Europe in transition: challenges for research and education” Conference

### 2.3.16. DIGITAL EDUCATION STAKEHOLDER FORUM

- **Date:** March 22, 2022
- **Location:** Online Event
- **Type of activity:** Participation of a Forum
- **Organizers:** European Commission (EC)
- **Estimated participants:** 150
- **Website:** <https://education.ec.europa.eu/event/digital-education-stakeholder-forum>
- **EDDIE participant:** CRE
- **Type of participation:** Audience
- **Relation to EDDIE:**

The representatives of EDDIE Project – „Education for Digitalization of Energy” participated at the ”Digital Education Stakeholder Forum - Making education and training fit for the digital age”, organized online by the European Commission (EC), on Tuesday, 22<sup>nd</sup> of March 2022. The Digital Education Stakeholder Forum was the first major European Event on the digital education subject organised by the European Commission since the start of the COVID-19 pandemic. The Event highlighting the Digital Education aimed at collecting important input from stakeholders and discuss the implementation of digital education, in terms of policy and practice at European, national and regional levels. In this context, digital education has become a key political priority across the European Union (EU). Additionally, the Forum was a great opportunity to reflect on the first year of implementation of the

brand new Digital Education Plan. The Agenda of the Digital Education Stakeholder Forum underlined interesting and important topics such as: key enablers for digital education in Europe; one year implementing the Digital Education Action Plan; the experiences of young people; digital education ecosystem; and digital skills and competences for the digital transition.

- **Photo as logo and presentation:** Figure 2-94.



EDDIE PROJECT AT THE DIGITAL EDUCATION STAKEHOLDER FORUM

6<sup>th</sup> of April 2022, EDDIE Consortium

The representatives of EDDIE Project – „Education for Digitalization of Energy” participated at the “Digital Education Stakeholder Forum - Making education and training fit for the digital age”, organized online by the European Commission (EC), on Tuesday, 22<sup>nd</sup> of March 2022. The Digital Education Stakeholder Forum was the first major European Event on the digital education subject organised by the European Commission since the start of the COVID-19 pandemic.

The Event highlighting the Digital Education aimed at collecting important input from stakeholders and discuss the implementation of digital education, in terms of policy and practice at European, national and regional levels. In this context, digital education has become a key political priority across the European Union (EU). Additionally, the Forum was a great opportunity to reflect on the first year of implementation of the brand new [Digital Education Plan](#).

The Forum brought together a wide range of stakeholders and partners from across the EU, including policymakers at the European and national levels, practitioners, academics and representatives from civil society and business. All the participants were guided by the common objective of promoting the transformation of education and training in Europe to provide learners with a high-quality, inclusive, and effectively digitalised system.



The Agenda of the [Digital Education Stakeholder Forum](#) underlined interesting and important topics such as: key enablers for digital education in Europe; one year implementing the Digital Education Action Plan; the experiences of young people; digital education ecosystem; and digital skills and competences for the digital transition.

The digital transition is a key priority for the European Union. In terms of key enablers for digital education in Europe, the European Commission has put forward ambitious targets to equip 80% of Europeans with basic digital skills and to have 20 million Information and Communications Technology (ICT) specialists employed in the EU by 2030. To achieve these targets, Member States will need to have in place strong digital education ecosystems. These will need to be supported by key enabling factors, such as digital infrastructure and connectivity, teachers equipped with digital skills and competences, and cooperation with the private sector.

Figure 2-94. EDDIE’s Press Release “Digital Education Stakeholder Forum”

### 2.3.17. Automotive Sector Skills Blueprint projects underpinning an EU-wide long-term cooperation

- **Date:** March 24, 2022
- **Location:** Online Event
- **Type of activity:** Participation of an Event
- **Organizers:** Development and Research on Innovative Vocational Education Skills (DRIVES Project)
- **Estimated participants:** 70
- **Website:** <https://www.project-drives.eu/en/listnewsevents>
- **EDDIE participant:** CRE
- **Type of participation:** Audience
- **Relation to EDDIE:**

The event addressed the future of the EU Automotive Sector, the outcomes of the DRIVES partnership and the legacy of the project. The main objective of this Event was to provide a comprehensive and independent overview on the automotive industrial landscape. DRIVES Final Event particular focused on three key areas reshaping the industry 1. The resilience of the industry in light of global competition (new market entrants) and changing business models. 2. The green transition, in particular electromobility and battery supply. 3. The digital transition, in particular the move towards connected and automated vehicles (CAVs) and the increasing importance of software.

- **Photo as logo and presentation:** Figure 2-95.

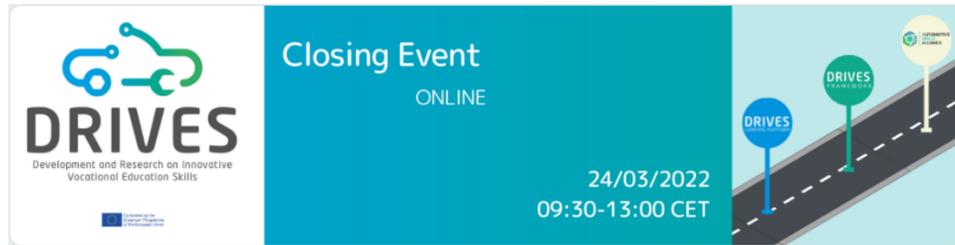


Figure 2-95. Automotive Sector Skills Blueprint projects underpinning an EU-wide long-term cooperation

### 2.3.18. Raising the uptake of renewables by DSOs

- **Date:** April 1, 2022
- **Location:** Online Event
- **Type of activity:** Participation to an Event
- **Organizers:** E.DSO
- **Estimated participants:** 100
- **Website:** <https://www.edsoforsmartgrids.eu/latest-news/e-dso-organised-its-3rd-projects-in-the-spotlight-event>
- **EDDIE participant:** CRE, E.DSO
- **Type of participation:** Audience
- **Relation to EDDIE:**

On Friday 1 April, E.DSO organized the third webinar in the E.DSO “Projects in the Spotlight” series, titled “Raising the uptake of renewables by DSOs”. With around 100 participants, the event shed light on E.DSO members’ R&I projects addressing the challenges in distribution operation related to the sharp rise in renewables in new innovative ways which will help shape the energy sector of the future. Three projects were put under the spotlight: CoordiNet, EUsysflex and Smart4RES, which, under the moderation of Marie Picut, European Affairs Policy Manager at Enedis, explained the essence of their project’s solution with regards to a scenario with high penetration of renewable energy sources.

- **Photo for presentation the event:** Figure 2-96.



Figure 2-96. Raising the uptake of renewables by DSOs

### 2.3.19. 2022 World Sustainable Energy Days (WSED)

- **Date:** April 6-8, 2022
- **Location:** Wels, Austria
- **Type of activity:** Participation to an Event
- **Organizers:** CRE
- **Estimated participants:** 80
- **Website:** <https://eurec.be/event/the-world-sustainable-energy-days-wsed-2022/>
- **EDDIE participant:** CRE

- **Type of participation:** Audience
- **Relation to EDDIE:**

The WSED are one of Europe's largest conferences on climate neutrality with over 100 speakers from all over the world. In addition to 6 dedicated conferences covering key aspects of the energy transition, technical site visits and a major tradeshow will present the latest technology innovations and solutions. The 2022 motto is "Energy transition – full speed ahead!" The 2022 WSED will include discussions on the far-reaching transformation of policies, technologies and markets for achieving climate neutrality, and how to raise the pace of change.

- **Photo for presentation the event:** Figure 2-97.



Figure 2-97. World Sustainable Energy Days 2022

### 2.3.20. ENERGY TECH SUMMIT 2022

- **Date:** April 26-28, 2022
- **Location:** Warsaw, Poland
- **Type of activity:** Participation of a Conference
- **Organizers:** Futurae Events
- **Estimated participants:** 200
- **Website:** <https://energytechsummit.com/>
- **EDDIE participant:** CRE
- **Type of participation:** Audience
- **Relation to EDDIE:**

The annual Energy Tech Summit is hosting top global energy and mobility investors, entrepreneurs, and government leaders at an exclusive three-day hybrid event, broadcasted globally on April 26-28, 2022. This exclusive event, is bringing the latest developments in energy and mobility convergence theme, debated by global industry leaders across 9 conference tracks.

Forget what you know about tech conferences – Energy Tech Summit focuses on quality content, context, and in-depth discussion accompanied with vast opportunities to network in a group of peers.

- **Photo as logo and presentation:** Figure 2-98



Figure 2-98. Energy Tech Summit 2022

### 2.3.21. European Vocational Skills Week 2022

- **Date:** May 16-20, 2022
- **Location:** Online
- **Type of activity:** Participation of a Conference
- **Organizers:** European Commission (EC)

- **Estimated participants:** 300
- **Website:** [https://vocational-skills.ec.europa.eu/index\\_en](https://vocational-skills.ec.europa.eu/index_en)
- **EDDIE participant:** CRE
- **Type of participation:** Audience
- **Relation to EDDIE:** the 6th edition of the European Vocational Skills Week, (the Week) celebrating all the very best practices in Vocational Education and Training (VET), with events by local, regional, national organisations, and other VET partners.
- **Photo as logo and presentation:** Figure 2-99



Figure 2-99. European Vocational Skills Week 2022

### 2.3.22. Shaping the EO\*GI Skills of the Future

- **Date:** May 17-18, 2022
- **Location:** Hybrid Event, Online and in Brussels
- **Type of activity:** Participation of a Conference
- **Organizers:** EO4GEO Alliance
- **Estimated participants:** 70
- **Website:** [https://vocational-skills.ec.europa.eu/index\\_en](https://vocational-skills.ec.europa.eu/index_en)
- **EDDIE participant:** CRE
- **Type of participation:** Audience
- **Relation to EDDIE:** The event brought together a broad and diverse range of stakeholders in the field of EO\*GI including European institutions (the European Commission, EUSPA, ESA, as well as local and regional ones), with representatives of the private sector and academia and training providers, who discussed together the current needs and education gaps in the EO\*GI sector, what means are put in place to tackle it, and what additional steps and initiatives shall be further undertaken.
- **Photo as logo and presentation:** Figure 2-100.



Figure 2-100. Shaping the EO\*GI Skills of the Future

### 2.3.23. UNESCO World Higher Education Conference 2022

- **Date:** May 18-20, 2022
- **Location:** Barcelona, Spain
- **Type of activity:** Participation of a Conference
- **Organizers:** UNESCO
- **Estimated participants:** 130
- **Website:** <https://www.unesco.org/en/education/higher-education/2022-world-conference>
- **EDDIE participant:** CRE
- **Type of participation:** Audience
- **Relation to EDDIE:**

UNESCO World Higher Education Conference (WHEC2022) aims at reshaping ideas and practices in higher education to ensure sustainable development for the planet and humanity. In the view of the global health crisis, UNESCO World Higher Education Conference, initially planned to be held in 2021, will take place from 18 to 20 May 2022.

- **Photo as logo and presentation:** Figure 2-101.

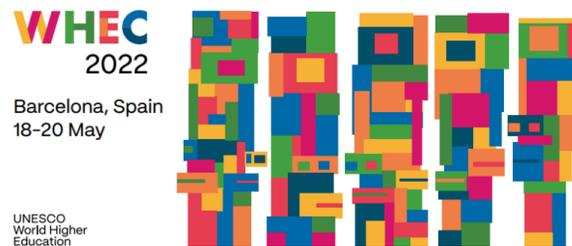


Figure 2-101. UNESCO World Higher Education Conference 2022

### 2.3.24. EU Green Week 2022

- **Date:** May 30-June 5, 2022
- **Location:** Across Europe and Online
- **Type of activity:** Participation of a Conference
- **Organizers:** European Commission (EC)
- **Estimated participants:** 200
- **Website:** [https://environment.ec.europa.eu/eu-green-week/eu-green-week-2022\\_en](https://environment.ec.europa.eu/eu-green-week/eu-green-week-2022_en)
- **EDDIE participant:** CRE
- **Type of participation:** Audience
- **Relation to EDDIE:**

EU Green Week is an annual opportunity to debate European environmental policy with policymakers, leading environmentalists and stakeholders from Europe and beyond. This year's edition focuses on the European Green Deal – the EU's sustainable and transformative growth strategy for a resource-efficient and climate-neutral Europe by 2050.

- **Photo as logo and presentation:** Figure 2-102.



Figure 2-102. EU Green Week 2022

### 2.3.25. Networking Event for Pact for Skills Members

- **Date:** May 31, 2022
- **Location:** Online
- **Type of activity:** Participation of a Networking Event
- **Organizers:** European Commission (EC)
- **Estimated participants:** 100
- **Website:** <https://www.pactforskillsnetworking.eu/>
- **EDDIE participant:** CRE
- **Type of participation:** Audience
- **Relation to EDDIE:**

The representatives of EDDIE Project – „EDucation for Digitalization of Energy" participated at the "Networking Event for Pact for Skills Members", organized online by the European Commission (EC), on Tuesday, 31<sup>th</sup> of May 2022. The Pact for Skills was launched in November 2020 by the European Commission as a shared engagement model for skills development in Europe aiming to maximise the impact of investing in upskilling and reskilling. Since 2020, more than 650 organisations, among them companies, workers, national, regional, and local authorities, social partners, cross-industry and sectoral organisations, education and training providers, chambers of commerce and employment services have joined the Pact. The Pact for Skills is the first of the flagship actions under the European Skills Agenda and is firmly anchored in the European Pillar of Social Rights. The Networking Event is the first opportunity for the members of the Pact to gather, to learn more about the Pact, the activities organized under it and discover what initiatives have been implemented by fellow members.

The Agenda of the Pact for Skills Networking Event highlighted several presentations that includes updates on the latest policy developments, as well as an overview of the tools and resources offered by the recently launched Pact for Skills Support Services. Moreover, the participants were able through the website to read about other attendees, identify key potential peers for networking and organise one-to-one meetings. Additionally, the participants had the opportunity to meet the coordinators of the Large-scale Skills Partnerships developed under the Pact and to learn more about the initiatives launched in the different ecosystems. Pact for Skills Commitments, Regional Dimension and Ecosystem in the Pact for Skills, Cross-Ecosystem Parallel Session: Construction, Renewable Energy were key subjects tackled during the Event.

During the discussions, Manuela GELENG – Director of Jobs and Skills, DG EMPL underlined interesting aspects: "We need to invest more in upskilling and reskilling opportunities. The Pact for Skills is based on skills actions that are shared between many actors, and there is a need to work together to maximise the impact in upskilling and reskilling. This Pact is not just about commitments, is also about concrete actions, with real impact".

"One of crucial components of transition pathways which is indeed related to very strategic visions, but is oriented also to very practical measures that needs to be taken concerning investments, regulatory environment and notably, skills. The final goal is to have a successful transition where employees will find for themselves the necessary skills", pointed out Jakub BORATYNSKI – Director of Networks and Governance, DG GROW.

The objectives of Pact for Skills Support Services are the following: to strengthen the capacity of large-scale skills partnerships to deliver quality upskilling and reskilling for people of working age; to develop viable large-scale skills parentships among the European industrial ecosystems; and to promote the awareness of benefits and need for quality upskilling and reskilling.

For this event, EDDIE consortium prepared a press release that was shared on social media and posted on EDDIE website under the [News](#) and [Events](#) sections. (Figure 2-104)

- **Photo as logo and presentation:** Figure 2-103



Figure 2-103. Networking Event for Pact for Skills Members



EDDIE AT THE PACT FOR SKILLS NETWORKING EVENT

12<sup>th</sup> of June 2022, EDDIE Consortium

The representatives of EDDIE Project – „Education for Digitalization of Energy“ participated at the *“Networking Event for Pact for Skills Members”*, organized online by the European Commission (EC), on Tuesday, 31<sup>st</sup> of May 2022. The Pact for Skills was launched in November 2020 by the European Commission as a shared engagement model for skills development in Europe aiming to maximise the impact of investing in upskilling and reskilling. Since 2020, more than 650 organisations, among them companies, workers, national, regional, and local authorities, social partners, cross-industry and sectoral organisations, education and training providers, chambers of commerce and employment services have joined the Pact.

The Pact for Skills is the first of the flagship actions under the [European Skills Agenda](#) and is firmly anchored in the [European Pillar of Social Rights](#).

The Networking Event is the first opportunity for the members of the Pact to gather, to learn more about the Pact, the activities organized under it and discover what initiatives have been implemented by fellow members.

The Agenda of the [Pact for Skills Networking Event](#) underlined several presentations that includes updates on the latest policy developments, as well as an overview of the tools and resources offered by the recently launched Pact for Skills Support Services. Moreover, the participants were able through the website to read about other attendees, identify key potential peers for networking and organise one-to-one meetings. In addition, the participants had the opportunity to meet the coordinators of the Large-scale Skills Partnerships developed under the Pact and to learn about the initiatives launched in the different ecosystems. Pact for Skills Commitments, Regional Dimension and ecosystem in the Pact for Skills, Cross-ecosystem parallel session: Construction, Renewable Energy were key subjects discussed during the Event.

In this context, Manuela GELENG – Director of Jobs and Skills, DG EMPL underlined important aspects: *“We need to invest more in upskilling and reskilling opportunities. The Pact for Skills is based on skills actions that are shared between many actors, and there is a need to work together to maximise the impact in upskilling and reskilling. This Pact is not just about commitments, is also about concrete actions, with real impact”*.

Figure 2-104. EDDIE’s Press Release ”Networking Event for Pact for Skills Members”

### 2.3.26. InnoGrid 2022 - Mission Acceleration

- **Date:** June 14 & 29, 2022
- **Location:** Online and in Brussels
- **Type of activity:** Participation of a Networking Event
- **Organizers:** E.DSO and ENTSO-E
- **Estimated participants:** 500
- **Website:** <https://www.innogrid.eu/>
- **EDDIE participant:** CRE, E.DSO
- **Type of participation:** Audience
- **Relation to EDDIE:** InnoGrid 2022 was held for its 11<sup>th</sup> Edition in which E.DSO and ENTSO-E are co-organisers. It gathered policy-makers, grid operators, grid users, market participants, innovators, academics, and civil society representatives to discuss how to accelerate innovation in three key areas: electricity grids, active customers, and flexibility. Around 200 participants met and enjoyed networking, also together with projects representatives in the exhibition area, and more than 300 people were connected online.
- **Photo as logo and presentation:** Figure 2-105



Figure 2-105. InnoGrid 2022

### 2.3.27. Power Summit 2022 - Game Changers

- **Date:** June 15-16, 2022
- **Location:** Brussels
- **Type of activity:** Participation of a Summit
- **Organizers:** Eurelectric
- **Estimated participants:** 100
- **Website:** <https://www.eurelectric.org/events/2022-ps-electric-decade/>
- **EDDIE participant:** CRE
- **Type of participation:** Audience
- **Relation to EDDIE:**

The Power Summit is widely recognised as a must attend event, where leaders of the European power sector and senior decision makers meet, exchange and plan for the future. Join heads of state, commissioners, CEOs and civil society to debate our strategy and how we can accelerate the Electric Decade together.

- **Photo as logo and presentation:** Figure 2-106



Figure 2-106. Power Summit 2022

### 2.3.28. EDULEARN22 International Education Conference

- **Date:** July 4-6, 2022
- **Location:** Palma de Mallorca, Spain
- **Type of activity:** Participation of a Conference
- **Organizers:** International Academy of Technology, Education and Development (IATED)
- **Estimated participants:** 250
- **Website:** <https://iated.org/iceri/>
- **EDDIE participant:** CRE
- **Type of participation:** Audience
- **Relation to EDDIE:**

EDULEARN22, the 14<sup>th</sup> annual International Conference on Education and New Learning Technologies was held in Palma de Mallorca (Spain) on the 4<sup>th</sup>, 5<sup>th</sup> and 6<sup>th</sup> of July, 2022. EDULEARN is one of the largest international education conferences for lecturers, researchers, technologists and professionals from the educational sector.

- **Photo as logo and presentation:** Figure 2-107



Figure 2-107. EDULEARN 2022 – International Education Conference

### 2.3.29. Digitally Enabled Renewable Energy Communities: The role of Citizens in the Clean Energy Transition

- **Date:** September 7, 2022
- **Location:** Online
- **Type of activity:** Participation of a Webinar
- **Organizers:** European Commission (EC) – ETIP SNET
- **Estimated participants:** 100
- **Website:** <https://smart-networks-energy-transition.ec.europa.eu/events/current-and-past-events/etip-snet-webinar-digitally-enabled-renewable-energy-communities>
- **EDDIE participant:** CRE
- **Type of participation:** Audience
- **Relation to EDDIE:**

The representatives of the Romanian Energy Center Association (CRE) participated at the "Digitally enabled renewable energy communities: The role of citizens in the clean energy transition" Webinar, organised by ETIP SNET Platform, on Wednesday, 7<sup>th</sup> of September 2022, hosted online. This webinar presented guidelines and practical implications of how adopting a consumer/prosumer-centric approach and enabling energy communities can be pivotal in enhancing the energy transformation for reaching Fit for 55 targets and supporting the REPowerEU plan through the use of digital solutions.

The Agenda of the "Digitally enabled renewable energy communities" Webinar highlighted key topics from high-level representatives such as: consumer-centric approach and digitalization; digital enabling of renewable energy communities; the adoption of innovative digital solutions, customers (prosumers and consumers) involvement and the role of youth continuous education in energy and digitalization.

The European Commission (EC) under the lead of DG Energy has set the scene within the framework of the upcoming Digitalisation of Energy Action Plan. The Action Plan is very important and relevant for EDDIE project - EDucation for Digitization of Energy as for the development of the long-driven sector skills strategy and creation of a large-scale partnership on digitalization of the energy value chain around the future entity proposed by the Blueprint Erasmus+ project. ETIP SNET complemented it with a European multi-stakeholder point of view through the voices of industry, research and university. The European Youth Energy Network (EYEN) discussed the unique perspective of the first and only federation of energy-focused youth organisations, while the Alliance for Internet of Things Innovation (AIOTI) and GAIA-X Project underlined aspects on energy communities with a focus on digital solutions.

This Webinar refers to the High-Level Use Case 5, part of the ETIP SNET R&I Implementation Plan 2022-2025<sup>1</sup>, which aims to develop the necessary R&I to facilitate one-stop-shop and consumer/citizen participation in the energy system and, correspondingly, the inclusion of the energy system in the concept of data economy. The motivation of the High-Level Use Case 5 is referring that prosumers and consumers have proactive role to accelerate the adoption of new energy services, pace for consumer impact design of cross sectorial energy infrastructure, and integration of the energy system into the broad picture of data economy.

Furthermore, very important aspects regarding the challenges of the local energy management were addressed during the Webinar. These challenges are related to the energy management functions on large scale, automation and scalling of all functions, forecasting on local levels, planning and scheduling with respect to privacy and habits of the citizens, and data availability. GAIA-X Project proposed several solutions such as: interoperability of data and services, portability of data and services, security and trust and open source.

European Technology & Innovation Platforms (ETIPs) have been created by the European Commission 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 ETIP Smart Networks for Energy Transition (SNET) role is to guide Research, Development & Innovation (RD&I) to support Europe's energy transition. Its mission is to: set-out a vision for RD&I for Smart Networks for Energy Transition and engage stakeholders in this vision; prepare and update the Strategic Research and Innovation Roadmap; report on the implementation of RD&I activities at European, national/regional and industrial levels; and to provide input to the SET Plan action 4 which addresses the technical challenges raised by the transformation of the energy system. The SET Plan is a key

<sup>1</sup> <https://smart-networks-energy-transition.ec.europa.eu/publications/etip-publications/etip-snet-r-and-i-implementation-plan-2022-2025>

stepping-stone to boost the transition towards a climate neutral energy system through the development of low-carbon technologies in a fast and cost-competitive way.

For this event, EDDIE partner CRE prepared a press release that was shared on social media and posted on their website. (Figure 2-109)

- **Photo as logo and presentation:**
- **Figure 2-108**

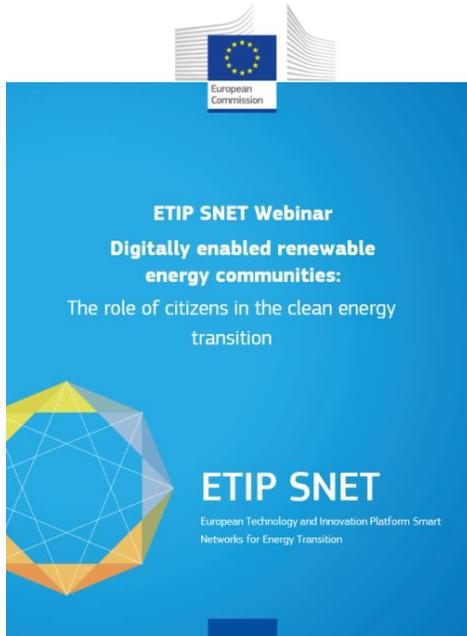


Figure 2-108. ETIP SNET Webinar "Digitally enabled renewable energy communities"



**THE ROMANIAN ENERGY CENTER ASSOCIATION PARTICIPATED AT THE ETIP SNET WEBINAR**

10<sup>th</sup> of October 2022, Carina Ioana ZIDARU

The representatives of the Romanian Energy Center Association (CRE) participated at the "Digitally enabled renewable energy communities: The role of citizens in the clean energy transition" Webinar, organised by ETIP SNET Platform, on Wednesday, 7<sup>th</sup> of September 2022, hosted online. This webinar presented guidelines and practical implications of how adopting a consumer/prosumer-centric approach and enabling energy communities can be pivotal in enhancing the energy transformation for reaching Fit for 55 targets and supporting the REPowerEU plan through the use of digital solutions.

The Agenda of the "Digitally enabled renewable energy communities" Webinar highlighted key topics from high-level representatives such as: consumer-centric approach and digitalization; digital enabling of renewable energy communities; the adoption of innovative digital solutions, customers (prosumers and consumers) involvement and the role of youth continuous education in energy and digitalization.

The European Commission (EC) under the lead of DG Energy has set the scene within the framework of the upcoming Digitalisation of Energy Action Plan. The Action Plan is very important and relevant for EDDIE project - *Education for Digitalization of Energy* as for the development of the long-driven sector skills strategy and creation of a large-scale partnership on digitalization of the energy value chain around the future entity proposed by the Blueprint Erasmus+ project. CRE association is a partner in EDDIE Project, an Erasmus+ funded by the European Commission. ETIP SNET complemented it with a European multi-stakeholder point of view through the voices of industry, research and university. The European Youth Energy Network (EYEN) discussed the unique perspective of the first and only federation of energy-focused youth organisations, while the Alliance for Internet of Things Innovation (AIOTI) and GAIA-X Project underlined aspects on energy communities with a focus on digital solutions.

This Webinar makes reference to the High-Level Use Case 5, part of the [ETIP SNET R&I Implementation Plan 2022-2025](#), which aims to develop the necessary R&I to facilitate one-stop-shop and consumer/citizen participation in the energy system and, correspondingly, the inclusion of the energy system in the concept of

Figure 2-109. CRE's Press Release ETIP SNET Webinar "Digitally enabled renewable energy communities"

### 2.3.30. Is Open Source the Next Big Thing in Electricity Distribution?

- **Date:** September 22, 2022
- **Location:** Online
- **Type of activity:** Participation of a Webinar
- **Organizers:** E.DSO in collaboration with the RWTH Aachen University
- **Estimated participants:** 150
- **Website:** <https://www.edsoforsmartgrids.eu/events/past-events/e-dso-webinar-is-open-source-the-next-big-thing-in-electricity-distribution>
- **EDDIE participant:** CRE, E.DSO, RWTH Aachen
- **Type of participation:** Audience
- **Relation to EDDIE:**

On 22 September EDDIE project representatives participated at the webinar 'Is Open Source the next big Thing in Electricity Distribution?' organized by E.DSO in collaboration with the RWTH Aachen University. Since open source has been transforming many business sectors, and the percentage of open-source software behind our daily systems is growing at an unimaginable scale, it is expected that the energy sector will be affected as well. The webinar raised critical questions trying to provide a vision of the possible implications of Open Source in the future work of Distribution Grid Operators.

- **Photo as logo and presentation:** Figure 2-110



Figure 2-110. "Is Open Source the Next Big Thing In Electricity Distribution?" Webinar

### 2.3.31. 2022 Edition of the European Week of Regions and Cities

- **Date:** October 10-13, 2022
- **Location:** Brussels
- **Type of activity:** Participation of an Event
- **Organizers:** European Commission (EC)
- **Estimated participants:** 120
- **Website:**  
<https://ec.europa.eu/social/main.jsp?langId=en&catId=88&eventsId=2011&furtherEvents=yes>
- **EDDIE participant:** CRE
- **Type of participation:** Audience
- **Relation to EDDIE:**

The 20th edition of the European Week of Regions and Cities 2022 (#EURegionsWeek) will take place from 10 to 13 October 2022. The European Week of Regions and Cities 2022 is the biggest annual Brussels-based event dedicated to cohesion policy bringing together regions and cities from all over Europe, including politicians, administrators, experts and academics.

- **Photo as logo and presentation:** Figure 2-111



Figure 2-111. European Week of Regions & Cities

### 2.3.32. Participatory lab: Regions tackling Skill Challenges for the Green and Digital Transitions under the Pact for Skills

- **Date:** October 11, 2022
- **Location:** Online
- **Type of activity:** Participation of an Event
- **Organizers:** European Commission (EC)
- **Estimated participants:** 100
- **Website:** [https://pact-for-skills.ec.europa.eu/about/events/participatory-lab-regions-tackling-skill-challenges-green-and-digital-transitions-under-pact-skills-2022-10-11\\_en](https://pact-for-skills.ec.europa.eu/about/events/participatory-lab-regions-tackling-skill-challenges-green-and-digital-transitions-under-pact-skills-2022-10-11_en)
- **EDDIE participant:** CRE

- **Type of participation:** Audience
- **Relation to EDDIE:**

On 11 October, 14:30–16:00 CET, the Pact for Skills organised a participatory lab session titled ‘Regions tackling skill challenges for the green and digital transitions under the Pact for Skills’. This session is organised as part of the European Week of Regions and Cities. The online event will allow regional and local stakeholders to share their experiences in implementing skilling actions to tackle the challenges posed by the green and digital transitions at the regional level.

- **Photo as logo and presentation:** Figure 2-112



Figure 2-112. Regions tackling Skills Challenges for the Green and Digital Transition under the Pact for Skills

### 2.3.33. Repowering Europe for a Sustainable EU Strategic Autonomy

- **Date:** October 19, 2022
- **Location:** Brussels
- **Type of activity:** Participation of an Event
- **Organizers:** European Energy Research Alliance (EERA)
- **Estimated participants:** 80
- **Website:** <https://www.eera-set.eu/events/3315:repowering-europe-for-a-sustainable-eu-strategic-autonomy.html>
- **EDDIE participant:** CRE
- **Type of participation:** Audience
- **Relation to EDDIE:**

In this context, the REPowerEU Plan was designed to support the difficult task of combining the short-term objectives of European strategic autonomy with the efforts to achieve the long-term goals of climate neutrality. Research must play a prominent role in this endeavour, but Europe needs to create the space and the adequate conditions for it to fulfil such a role in the current context.

While calling for out-of-the-box approaches, the EERA conference aimed at addressing some of the following urging questions: How can research contribute even more to short-term implementation challenges? How to increase the impact of research knowledge on the policymaking process? How can researchers, policymakers and industry empower each other to accelerate finding those lasting solutions that will make the EU more sustainable, energy secure and autonomous?

- **Photo as logo and presentation:** Figure 2-113



Figure 2-113. Repowering Europe for a Sustainable EU Strategic Autonomy

### 2.3.34. Posting of Workers: the role of National Authorities in the Enforcement of the Rules

- **Date:** October 26, 2022
- **Location:** Bucharest, Romania
- **Type of activity:** Participation of a Seminar
- **Organizers:** The EC-funded MoveS network (Free Movement and Social Security Coordination)
- **Estimated participants:** 100
- **Website:** <https://ec.europa.eu/social/main.jsp?langId=en&catId=88&eventsId=2028&furtherEvents=yes>
- **EDDIE participant:** CRE
- **Type of participation:** Audience
- **Relation to EDDIE:**

The EC-funded MoveS network (Free Movement and Social Security Coordination) organised a binational seminar (Romania/Italy) in Bucharest on 26 October 2022. The seminar is organised by MoveS in collaboration with its Romanian national expert Magda Șotropa and its Italian national expert Francesco Costamagna. MoveS is an EC-funded network of independent experts from 32 European countries coordinated by Eftheia and Deloitte.

- **Photo as logo and presentation:** Figure 2-114



Figure 2-114. Posting of Workers: The Role of National Authorities in the enforcement of the Rules

### 2.3.35. 16th SET Plan Conference - Towards a new Strategic Energy Technology Plan

- **Date:** November 9, 2022
- **Location:** Prague, Czechia
- **Type of activity:** Participation of a Conference

- **Organizers:** This Event is co-organised by the Ministry of Industry and Trade of the Czech Republic and the European Commission.
- **Estimated participants:** 150
- **Website:** [https://commission.europa.eu/events/16th-set-plan-conference-towards-new-strategic-energy-technology-plan-2022-11-09\\_en](https://commission.europa.eu/events/16th-set-plan-conference-towards-new-strategic-energy-technology-plan-2022-11-09_en)
- **EDDIE participant:** CRE
- **Type of participation:** Audience
- **Relation to EDDIE:**

The 2022 edition of the SET Plan conference, “Towards a new Strategic Energy Technology Plan”, aimed at exploring the transformational pathways to sustainable, secure, resilient and competitive energy systems and value chains, as well as to raise awareness among all stakeholders on the latest research and innovations in the field of carbon-neutral energy technologies.

The event focused on research and innovation in the field of energy in the context of the current climate and geopolitical challenges. Among others, attendees were able to discuss how to step up the SET Plan to the increased energy and climate policy ambitions. The conference gathered clean energy actors from the European and national public and academic spheres, private sector and non-governmental and international organisations.

- **Photo as logo and presentation:** Figure 2-115



Figure 2-115. 16th Set Plan Conference – Towards a new Strategic Energy Technology Plan

### 2.3.36. 2022 Forum on Vocational Excellence

- **Date:** November 15, 2022
- **Location:** San Sebastian, Spain
- **Type of activity:** Participation of a Forum
- **Organizers:** The event is jointly organised by the European Commission and the Basque government, with the support of the European Training Foundation (ETF), Cedefop and EACEA, as well as the Community of Practice on CoVEs, and Katapult.
- **Estimated participants:** 150
- **Website:** <https://ec.europa.eu/social/main.jsp?langId=en&catId=88&eventsId=2026&furtherEvents=yes>
- **EDDIE participant:** CRE
- **Type of participation:** Audience
- **Relation to EDDIE:**

The Forum discussed the latest developments on the European initiative on Centres of Vocational Excellence (CoVE). The event is jointly organised by the European Commission and the Basque government, with the support of the European Training Foundation (ETF), Cedefop and EACEA, as well as the Community of Practice on CoVEs, and Katapult. Include the participation of the partners of ongoing CoVE projects, as well as other Vocational Excellence initiatives currently being developed in Europe and beyond, that form part of wider partnerships and networks in Vocational Education and Training (VET).

The event will also benefit from high level political representatives, including national governments (from both EU and ETF partner countries), social partners and their European level representatives, VET provider associations, regional authorities, International organisations, as well as European institutions and Agencies.

- **Photo as logo and presentation:** Figure 2-116



Figure 2-116. 2022 Forum on Vocational Excellence

### 2.3.37. A Multi-Scale Calibration Approach For A Digitalised Energy System

- **Date:** November 22, 2022
- **Location:** Brussels and Online
- **Type of activity:** Participation of a Seminar
- **Organizers:** E.DSO, DG ENER, DG CNECT
- **Estimated participants:** 200
- **Website:** <https://www.edsoforsmartgrids.eu/events/past-events/e-dso-dg-ener-dg-cnect-joint-seminar-a-multi-scale-calibration-approaches-for-a-digitalised-energy-system>
- **EDDIE participant:** CRE, E.DSO, COMILLAS
- **Type of participation:** Audience
- **Relation to EDDIE:**

On 22 November, E.DSO-DG ENER-DG CNECT hosted the Joint Seminar “A multi-scale calibration approach for a digitalised energy system transformation’. The event brought together over 200 participants, both in Brussels and online, featured 17 speakers, 5 main sessions and 2 individual keynote remarks from the European Commission. The aim of the seminar was to engage in a meaningful discussion about the future digitalised energy system and significantly brought forward the idea of the future Energy Data Space, while tackling digital twin, standards and interoperability, data spaces, grid edge and smart metering.

- **Photo as logo and presentation:** Figure 2-117



Figure 2-117. "A Multi-Scale Calibration Approach For A Digitalised Energy System" Seminar

### 2.3.38. 5th E.DSO-ENCS-ENTSO-E Event on Cybersecurity “European Energy Grids’ Security in a Radically Changed Landscape”

- **Date:** November 23, 2022
- **Location:** Brussels and Online
- **Type of activity:** Participation of an Event
- **Organizers:** E.DSO, ENCS, ENTSO-E
- **Estimated participants:** 250
- **Website:** <https://www.edsoforsmartgrids.eu/events/past-events/5th-e-dso-encs-entso-e-event-on-cybersecurity-european-energy-grids-security-in-a-radically-changed-landscape>
- **EDDIE participant:** CRE, E.DSO
- **Type of participation:** Audience
- **Relation to EDDIE:**

On 23 November, the European Network for Cyber Security (ENCS), the Association of European Distribution System Operators (E.DSO), and the European Network of Transmission System Operators for Electricity (ENTSO-E), together hosted a hybrid event discussing the latest industry knowledge in a radically changed landscape resulting from the war in Ukraine with experts in the field of cybersecurity.

The main topics debated were how the conflict is creating new conditions for the cybersecurity of the energy grids, how cyber-attacks and malware can compromise the security of energy grids, and how the new Network Code on Cybersecurity will further protect the energy sector from cyberattacks.

- **Photo as logo and presentation:** Figure 2-118



Figure 2-118. 5th E.DSO-ENCS-ENTSO-E Event on Cybersecurity “European Energy Grids’ Security in a Radically Changed Landscape”

### 2.3.39. E.DSO TF1 Go4Flex Workshop

- **Date:** November 24, 2022
- **Location:** Online
- **Type of activity:** Participation of an Workshop
- **Organizers:** E.DSO
- **Estimated participants:** 110
- **Website:** <https://www.edsoforsmartgrids.eu/events/past-events/e-dso-tf1-go4flex-workshop>
- **EDDIE participant:** CRE, E.DSO
- **Type of participation:** Audience
- **Relation to EDDIE:**

On 24 November 2022, with more than 100 participants, Task Force 1 (TF1) “Active System Management” of the European Distribution System Operators’ Association for Smart Grids (E.DSO) Technology Committee successfully held a webinar to present their Grid Observability for Flexibility Report published on 20 October 2022.

TF1 co-chair Ewa Mataczyńska, PGE Dystrybucja, provided an overview of the Go4Flex Report by identifying different levels of flexibility in relation to DSO’s needs for maintaining stability and reliability of distribution grids. The improvement of observability at the low and medium voltage and better knowledge of the network are fundamental for the early identification of emerging stability issues, she stated.

- **Photo as logo and presentation:** Figure 2-119



Figure 2-119. E.DSO TF1 Go4Flex Workshop

### 2.3.40. 8<sup>th</sup> Energy Storage Summit

- **Date:** 22 - 23 February 2023
- **Location:** London, United Kingdom
- **Type of activity:** Participation in an Event
- **Organisers:** EASE
- **Estimated participants:** 90
- **Website:** <https://ease-storage.eu/event/8th-energy-storage-summit/>
- **EDDIE participants:**
- **Type of participation:** Attendance.
- **Relation to EDDIE:**

EDDIE Project participated in the first part of the year 2023 at 8th 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.

- **Photo of the event:** Figure 2-120



Figure 2-120. 8th Energy Storage Summit

### 2.3.41. World Sustainable Energy Days 2023

- **Date:** 28 February – 3 March 2023

- **Location:** Wels, Austria
- **Type of activity:** Participation in an Event
- **Organisers:** The World Sustainable Energy Days were organised by the OÖ Energiesparverband, an energy agency with the mission of promoting energy efficiency, renewables and e-mobility.
- **Estimated participants:** 400
- Website: <https://www.wsed.at/reviews/wsed-2023/programme-overview-2023>
- **EDDIE participants:** CRE
- **Type of participation:** Attendance.
- **Relation to EDDIE:** In March 2023 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.
- **Number of participants:** 650 experts from 60 countries
- **Photo of the event:** Figure 2-121



Figure 2-121. World Sustainable Energy Days 2023

#### 2.3.42. Power to Buildings Hub Peer Exchange

- **Date:** 28<sup>th</sup> February 2023
- **Location:** Paris, France
- **Type of activity:** Participation in an Event
- **Organisers:** EURELECTRIC
- **Estimated participants:** 100
- Website: <https://www.eurelectric.org/events/power-to-buildings-hub-peer-exchange>
- **EDDIE participants:** CRE
- **Type of participation:** Attendance.
- **Relation to EDDIE:** 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.
- **Photo of the event:** Figure 2-122



Figure 2-122. Power to Buildings Hub Peer Exchange

### 2.3.43. The Future of Energy Materials: EERA EM4I and AMI2030 Joint Workshop

- **Date:** 13 – 14 March 2023
- **Location:** Online
- **Type of activity:** Participation in an Event
- **Organisers:** Jointly organised online by The European Energy Research Alliance (EERA), EM4I and AMI2030
- **Estimated participants:** 60
- **Website:** <https://www.eera-set.eu/events/3621:the-future-of-energy-materials-eera-em4i-ami2030-joint-workshop.html>
- **EDDIE participants:** CRE
- **Type of participation:** Attendance.
- **Relation to EDDIE:** EDDIE representatives participated on 13 – 14 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.
- **Number of participants:** 60
- **Photo of the event:** Figure 2-123



Figure 2-123. The Future of Energy Materials: EERA EM4I and AMI2030 Joint Workshop

### 2.3.44. Online Info Session: Alliances for Innovation 2023

- **Date:** 9 March 2023
- **Location:** Online
- **Type of activity:** Participation in an Event
- **Organisers:** The European Commission and the European Education and Culture Executive Agency (EACEA)
- **Estimated participants:** 70
- **Website:** [https://www.eacea.ec.europa.eu/news-events/events/online-info-session-alliances-innovation-2023-2023-03-09\\_enl](https://www.eacea.ec.europa.eu/news-events/events/online-info-session-alliances-innovation-2023-2023-03-09_enl)
- **EDDIE participants:** CRE
- **Type of participation:** Attendance.
- **Relation to EDDIE:** 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.
- **Number of participants:** 60
- **Photo of the event:** Figure 2-124



Figure 2-124. Info Session: Alliances for Innovation 2023

### 2.3.45. Joint ENTSO-E & RGI Conference on Adaptation & Resilience

- **Date:** 14 March 2023
- **Location:** Online
- **Type of activity:** Participation in an Event
- **Organisers:** Joint European Network of Transmission System Operators for Electricity (ENTSO-E) & Renewable Energy Grid Initiative (RGI)
- **Estimated participants:** 100
- **Website:** <https://www.entsoe.eu/events/2023/03/14/save-the-date-joint-entso-e-rgi-conference-on-adaptation-resilience-ensuring-the-energy-transition-is-built-on-resilient-infrastructure/>
- **EDDIE participants:** CRE
- **Type of participation:** Attendance.

• **Relation to EDDIE:** 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.

- **Number of participants:** 100



- **Photo of the event:**
- Figure 2-125



Figure 2-125. Joint ENTSO-E &amp; RGI Conference on Adaptation &amp; Resilience

### 2.3.46. Fostering EU Clean Energy transition in Romania, SUPEERA/PANTERA workshop

- **Date:** 23 March 2023
- **Location:** Bucharest, Romania
- **Type of activity:** Participation in an Event
- **Organisers:** PANTERA project in collaboration with SUPEERA project
- **Estimated participants:** 120
- Website: <https://www.supeera.eu/event/3669:fostering-eu-clean-energy-transition-in-romania-supeera-pantera-workshop.html>
- EDDIE participants: CRE
- **Type of participation:** Attendance.
- **Relation to EDDIE:** 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.
- **Number of participants:** 120
- **Photo of the event:** Figure 2-126



Figure 2-126. Fostering EU Clean Energy transition in Romania, SUPEERA/PANTERA Workshop

### 2.3.47. EVision 2023- Power Sector Accelerating e-mobility

- **Date:** 21 – 22 March 2023
- **Location:** Brussels
- **Type of activity:** Participation in an Event
- **Organisers:** EURELECTRIC
- **Estimated participants:** 100
- Website: <https://evision.eurelectric.org/>
- EDDIE participants: CRE
- **Type of participation:** Attendance.
- **Relation to EDDIE:** Eddie representatives participated on 21-22 of March 2023 at the EVision 2023- Power Sector Accelerating emobility 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.

- **Number of participants:** 150
- **Photo of the event:** Figure 2-127



Figure 2-127. "eVision 2023- Power Sector Accelerating e-mobility"

### 2.3.48. Energy Conversion and Storage Days

- **Date:** 21 – 23 March 2023
- **Location:** Karlsruhe
- **Type of activity:** Participation in an Event
- **Organisers:** Karlsruhe Institute of Technology (KIT)
- **Estimated participants:** 50
- **Website:** <https://www.eera-set.eu/events/3629:stories-at-energy-conversion-and-storage-days-1.html>
- **EDDIE participants:** CRE
- **Type of participation:** Attendance.
- **Relation to EDDIE:** EDDIE Project participated at the workshops held 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.
- **Number of participants:** 50
- **Photo of the event:** Figure 2-128

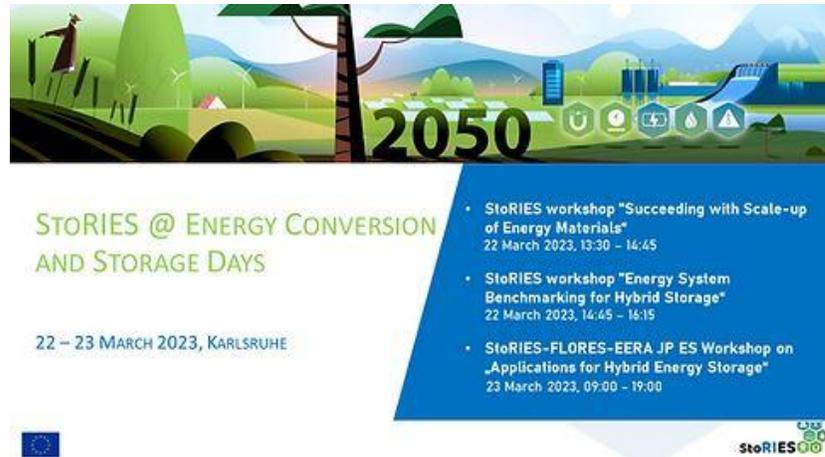


Figure 2-128. "Energy Conversion and Storage Days"

### 2.3.49. K.EY 2023 – The Renewable Energy EXPO

- **Date:** 22 – 24 March 2023
- **Location:** Rimini, Italy
- **Type of activity:** Participation in an Event
- **Organisers:** European Association for Storage of Energy (EASE)
- **Estimated participants:** 140
- Website: <https://ease-storage.eu/event/k-ey-2023/>
- EDDIE participants: CRE
- **Type of participation:** Attendance.
- **Relation to EDDIE:** 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.
- **Number of participants:** 140
- **Photo of the event:** Figure 2-129



Figure 2-129. "K.EY 2023 – The Renewable Energy EXPO"

### 2.3.50. 2023 joint CEDEFOP/OECD Symposium on "Apprenticeships and the digital transition"

- **Date:** 15 – 16 June 2023
- **Location:** Thessaloniki, Greece

- **Type of activity:** Participation in an Event
- **Organisers:** European Centre for the Development of Vocational Training (CEDEFOP) and Organisation for Economic Co-operation and Development (OECD)
- **Estimated participants:** 200
- **Website:** <https://www.cedefop.europa.eu/en/events/2023-joint-cedefopoecd-symposium-apprenticeships-and-digital-transition>
- **EDDIE participants:** CRE
- **Type of participation:** Attendance.
- **Relation to EDDIE:**

CEDEFOP and the OECD have successfully organised their third joint symposium on "Apprenticeship and the digital transition", on 15 and 16 June 2023 in Thessaloniki. The event explored the links between apprenticeships and the digital transition, and their implications for policy-making, bringing together 100 policy-makers, social partners, practitioners and researchers from around the world. The event was built around 13 papers from Europe, the US, Canada and China that presented new evidence or offer analysis on the challenges and opportunities that digitalisation already brings or may bring for apprenticeships in the future. Paper presentations were complemented with presentations by Cedefop and the OECD, panel discussions and Q&A sessions with participants.

The symposium made clear the great potential, relevance, and importance of apprenticeships in helping develop the skills people and enterprises need to shape and adapt to the green and digital transitions.

- **Photo of the event:** Figure 2-130



Figure 2-130. EDDIE at CEDEFOP/OECD Symposium on "Apprenticeships and the digital transition"

### 2.3.51. 2<sup>nd</sup> Education and Innovation Summit

- **Date:** 27 June 2023
- **Location:** Brussels and Online
- **Type of activity:** Participation in an Event
- **Organisers:** European Commission
- **Estimated participants:** 150
- **Website:** <https://education.ec.europa.eu/event/2nd-education-and-innovation-summit>
- **EDDIE participants:** CRE
- **Type of participation:** Attendance.
- **Relation to EDDIE:**

The summit brings together the main players in education and innovation. It will strengthen cooperation and inspire the wider education, research and innovation community to promote an entrepreneurial and innovation-driven culture in Europe. The innovation is central to the European Strategy for Universities. Its underlying key message is that supporting deeper transnational cooperation in higher education will help equip learners with the new forward-looking skills needed to foster innovation and entrepreneurship in Europe.

Developing, attracting and retaining talents is one of the priorities of the European Innovation Agenda, which will help Europe become the leader of the new wave of deep tech innovation.

Following the inaugural 2022 Education and Innovation Summit, this is the second instalment of the annual event. It contributes to implementing the European Innovation Agenda and the European Strategy for Universities.

The objectives of the Education and Innovation Summit: share best practices, build bridges and strengthen cooperation amongst the education and innovation communities, discuss challenges and progress towards the objectives outlined in the European Strategy for Universities and the new European Innovation Agenda.

- **Photo of the event:** Figure 2-131



Figure 2-131. EDDIE at 2nd Education and Innovation Summit

### 2.3.52. Empowering individuals for better mobility – transparency and recognition of VET qualifications

- **Date:** 28 November 2023
- **Location:** Brussels/Online
- **Type of activity:** Participation in a Seminar
- **Organisers:** CEDEFOP, Spanish Presidency of the Council
- **Estimated participants:** 90
- **Website:** <https://www.cedefop.europa.eu/en/events/empowering-individuals-better-mobility-transparency-and-recognition-vet-qualifications>
- **EDDIE participants:** CRE
- **Type of participation:** Attendance.
- **Relation to EDDIE:**

In an increasingly dynamic European landscape, marked by a high degree of citizens mobility for learning and employment, the need for transparent qualifications is more important than ever. Recognizing the value of what people know and are able to do, whether acquired in formal or non-formal settings, is a fundamental step to ensure fair mobility and social integrations for learners and employees moving across Europe.

Drawing upon recent Cedefop projects in this area, the event focused on discussing the main policy initiatives and developments from the past 20 years that have supported transparency of systems and qualifications. These efforts are considered key in enabling the comparison and recognition of VET qualifications and enhancing individual mobility across various sectors and countries for both learning and employment purposes.

What have been the key successes and what are the main challenges in making VET qualifications more transparent, comparable and recognizable across sectors and countries? What additional steps are required to improve individual mobility?

The meeting was followed by a light networking lunch, which provided opportunities to keep the discussion going!

- **Photo of the event:** Figure 2-132.



Figure 2-132. EDDIE at Empowering individuals for better mobility – transparency and recognition of VET qualifications

### 2.3.53. The European Education Area: A reality for all" Sixth European Education Summit

- **Date:** 30 November 2023
- **Location:** Brussels/Online
- **Type of activity:** Participation in a Summit
- **Organisers:** European Education Area (EEA)
- **Estimated participants:** 90
- **Website:** <https://education.ec.europa.eu/event/the-european-education-area-a-reality-for-all>
- **EDDIE participants:** CRE
- **Type of participation:** Attendance.
- **Relation to EDDIE:**

The Summit is the annual flagship event of the European Education Area (EEA). It brings together policy-makers from EU institutions and beyond, and the European education and training communities. The event took place in person (English only) and was available through web streaming at 9:30 on 30 November 2023. The event started with welcoming remarks sustained by Pia Ahrenkilde Hansen - Director-General, DG Education, Youth, Sport and Culture, European Commission, was followed by the keynote speaker Iliana Ivanova - European Commissioner for Innovation, Research, Culture, Education and Youth as part of the introductory session. It is important to mention that the European Education Area midterm review was presented. The review's objective was to summarize key policy messages for action in the coming years to lay down the foundational elements of a genuine European Education Area.

- **Photo of the event:** Figure 2-133



Figure 2-133. EDDIE at The European Education Area: A reality for all" Sixth European Education Summit



### 3. EDDIE Advisory Board Meetings

The International Advisory Board (IAB) plays a key role as an independent external quality consultant for the project strategy, actions, and assessments, and also providing requirements and inputs on goals and issues, monitoring project milestones and providing final feedback on results and future expectations in other sectors and other blueprints.



Figure 3-1. IAB members of EDDIE

The members of IAB could be identified in Figure 3-1 and the complete list is as follows:

- CESI (The European Confederation of Independent Trade Unions), Belgium.
- City of Aachen, Germany.
- City of Herne, Germany.
- DAFNI (Network of Sustainable Greek Islands), Greece.
- DERLab (European Distributed Energy Resources Laboratories), Germany.
- EUROGAS, Belgium.
- ENTSO-E (European Network of Transmission System Operators for Electricity), Belgium.
- FSR (Florence School of Regulation), Italy.
- Italgas – GD4S member
- NTT Data (even if became a member of the EDDIE Consortium replacing GE ii 2020, remained within IAB, as started since the beginning of the project in 2019) .
- T&D Europe, Belgium.

#### 3.1. 1<sup>st</sup> EDDIE Advisory Board Meeting – November 2020

The first meeting with IAB experts was carried out in November 2020 and an EDDIE project executive summary was presented, together with main achievements and planned activities summary. The coordinator of EDDIE presented the general ideas and characteristics of the project, objectives, expected results and deliverables (short a medium term), as well as the framework for the participation of the International Advisory Board. Following the introduction, a summary of the results obtained so far as well as the plans for the future work were presented by the project partners. The board members participated actively in the session, interacting with the speakers by asking questions and making comments about the presentation. During this meeting several topics were raised, and we can include here:

- The European Commission “Pact for Skills”, which includes green and digital skills  
<https://ec.europa.eu/social/main.jsp?catId=1517&langId=en/>  
[https://ec.europa.eu/commission/presscorner/detail/en/ip\\_20\\_2059](https://ec.europa.eu/commission/presscorner/detail/en/ip_20_2059)  
<https://europe-on.org/skills-4-climate/>
- “Open-Source Communities” within EDDIE project as they could be integrated in the project future work.
- Cybersecurity as the power system is developing so fast in terms of needs of security

- Skill gaps and how they can be tackled (causes, available or not training courses, industry coverage). EDDIE is currently investigating different curricula both in University studies and VET and in different countries, to see if that matters are covered in the curricula. The status of young professionals and graduate students about skills is under study as well.



Figure 3-2. IAB meeting #1 - photo with the participants.

- Geographical dimension of EDDIE and how could the skills requirements and gaps be analyzed by country.
- Exploitation of the results as the main purpose of the project is to get the maximum sustainability of its blueprint strategy.
- Involvement of more countries in EDDIE investigations and assessments
- Website and social media interactions.

A picture with the participants can be seen in Figure 3-2.

Also, a survey was launched to the participants on early December 2020 to get specific external evaluation from IAB members to get on external evaluation outcome. Survey was prepared and launched by COMILLAS and DNV GL. Suggestions for improving or extending Eddie's current strategy and objectives are also collected throughout the survey. The importance of involving the associations of universities, the institutions that provide technical education and extend the current survey to other countries behind the consortium is pointed out on the survey. The most expected relevant result of a project focused on the digitization of the energy sector is strengthening of the training and educational system with more communication between all the partners involved that will allow for a new era in energy which improves sustainability without negative impacts on occupational levels. Improve safety, productivity, accessibility and sustainability of energy systems. Breaking down the traditional boundaries between key sectors of the economy (energy, transport, buildings), opening the door to a new era of flexibility and supporting the achievement of a carbon neutral economy is stressed. Actions suggested to achieve those relevant results includes mainly social media campaigns to raise public awareness and reach out to all the partners involved; streamline the interaction with the main representatives of the industry and the relevant associations of education providers is also pointed out. Control and conclusions of this first survey were reported to the EACEA , within the appropriate project reporting documentation.

### 3.2. 2<sup>nd</sup> Advisory Board Meeting – June 2021

The Partners involved in the strategic implementation of EDDIE project and the external experts, participated, and actively contributed at the 2nd International Advisory Board (IAB) of EDDIE Project hosted Online. This relevant meeting was organized by the project coordinator COMILLAS, on Thursday 10th of June 2021. The role of Education in the Digital Era for Digitalization will create the framework for EDDIE Project to take part in the decision-making process of Digitalization of the European Energy Sector (DEES).

The 2nd International Advisory Board highlighted important and relevant topics for the current state of the project, best practices in education, blueprint strategy, stakeholder database, and dissemination activities tailored for EDDIE stakeholders. In addition, the focus was also on the assessment of the First Technical Progress Report which received positive reaction from the European Education and Culture Executive Agency (EACEA). Moreover, the path and strategies towards a new context of Education for Digitalization of Energy Sector, exploitation of the results, website, and social media interactions, were also topics on the 2nd IAB meeting agenda.

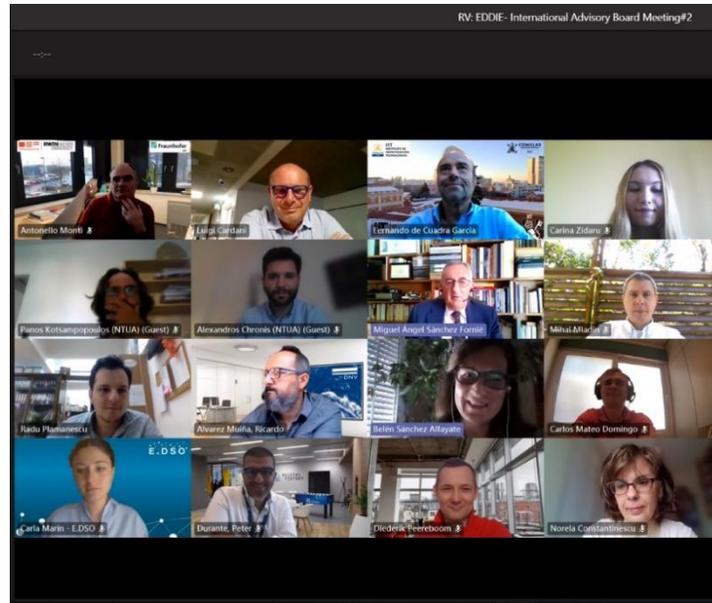


Figure 3-3. IAB meeting #2 - photo with the participants

The interaction with the external experts (Figure 3-3) was very active and productive, giving EDDIE the opportunity to update its activities and developments. As a result, new plans will include areas of digitalization of energy transmission and distribution grids including smart grids and smart metering infrastructures, information, and communication systems for the energy sector like data management and cyber-security, new energy services and transition and digitalization of energy supply and generation. Moreover, it has been decided that the future SSA will not only be based on focus countries, but also will consider particularities of regions in transition when it comes to upskilling and reskilling needs as those regions are moving to cleaner forms of energy, pathways to a climate neutral society and economy. Based on such examples, EDDIE shall be in the position to elaborate and disseminate “best practices” and “success stories”. The identification of skill gaps will be assessed for a broader geographical coverage, including other fields of energy with the aim of improving the relevance of the activities and innovation in the holistic approach.

To promote and disseminate this meeting and to provide more information on the progress of the project, EDDIE consortium created a dedicated document as a press release that was posted on the website and shared on the social media channels. The document is listed under the [NEWS](#) section on the website and can be found [here](#) as well. A print screen of this document is in Figure 3-4. All these actions were disseminated on social media as well.

Besides that, as a main conclusion it was decided to conduct a second survey as it was demonstrated as the most efficient tool to provide insights and comments to the overall project objective and activities.



#### 2<sup>nd</sup> INTERNATIONAL ADVISORY BOARD for EDDIE PROJECT

The Partners involved in the strategic implementation of EDDIE project and the external experts, participated and actively contributed at the 2<sup>nd</sup> International Advisory Board (IAB) of EDDIE Project hosted Online. This relevant meeting was organized by the project coordinator COMILLAS, on Thursday 10<sup>th</sup> of June 2021. The role of Education in the Digital Era for Digitalization will create the framework for EDDIE Project to take part in the decision making process of Digitalization of the European Energy Sector (DEES).

**EDDIE** - „Education for Digitalization of Energy”, funded by the European Commission (EC) under the ERASMUS+ Program aims at creating a Sector Skills Alliance (SSA) by bringing together all the relevant stakeholders in the Energy value chain such as industry, education and training providers, European organizations, recruiters, social partners, and public authorities. The main objective of this SSA is to develop a long-driven Blueprint for the DEES to enable the matching between the current and future demand of skills necessary for the DEES and the supply of improved Vocational Education and Training (VET) systems and beyond.

The International Advisory Board plays a key role as an independent external quality consultant in the project, and it is providing requirements and inputs on goals and issues, monitoring project milestones and supporting with final feedback on results and future expectations in other sectors and other blueprints. Quality assessments are performed throughout the entire implementation period together with project progress reports. Members of the IAB are important stakeholders from the European Energy sector as follows: EUROGAS; DERlab - European Distributed Energy Resources Laboratories; FSR - Florence School of Regulation; T&D Europe; CESI - European Confederation of Independent Trade Unions; The City of Aachen; DAFNI Network; City of Herne; ENTSO.E - European Network of Transmission System Operators for Electricity and Italgas.

Figure 3-4. EDDIE's press release on the 2<sup>nd</sup> IAB meeting.

For this event, CRE Association shared [content](#) and information for its members. All the communication was posted on CRE website and on its social media channels. A print screen of this document is in Figure 3-5.



#### THE ROMANIAN ENERGY CENTER ASSOCIATION PARTICIPATED AT THE 2<sup>nd</sup> INTERNATIONAL ADVISORY BOARD WITHIN EDDIE PROJECT

5<sup>th</sup> of July 2021, Carina Ioana ZIDARU

The representatives of the Romanian Energy Center (CRE) Association participated and actively contributed at the 2<sup>nd</sup> International Advisory Board (IAB) of EDDIE Project - „Education for Digitalization of Energy”, hosted Online. This relevant and important meeting was organized by the Project Coordinator COMILLAS, on Thursday, 10<sup>th</sup> of June 2021. The role of Education in the Digital Era for Digitalization will create the framework for EDDIE Project to take part in the decision making process of Digitalization of the European Energy Sector (DEES).

In 2020, CRE expanded its research and innovation portfolio, through the European Project “EDDIE” - „Education for Digitalization of Energy”, funded by the European Commission (EC) under the ERASMUS+ Program. The main objective of EDDIE Project aims at creating a Sector Skills Alliance (SSA) by bringing together all the relevant stakeholders in the Energy value chain such as industry, education and training providers, European organizations, recruiters, social partners, and public authorities. The main objective of this SSA is to develop a long-driven Blueprint for the DEES to enable the matching between the current and future demand of skills necessary for the DEES and the supply of improved Vocational Education and Training (VET) systems and beyond.

The International Advisory Board plays a key role as an independent external quality consultant in the project,

Figure 3-5. CRE's press release on the 2<sup>nd</sup> IAB meeting for EDDIE project.

### 3.3. 3<sup>rd</sup> Advisory Board Meeting – November 2021.

The 3<sup>rd</sup> International Advisory Board Meeting (Figure 3-6) 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. Dissemination activities within EDDIE Project which includes social media interactions, exploitation of the results, various actions on EDDIE's website were addressed in the 3<sup>rd</sup> IAB meeting. With regards to the dissemination activities, the EDDIE Project started a new topic news on its website addressing relevant policy briefs for the Energy Sector. The main objective consists in informing the interested audience about critical subjects regarding Energy, Digitalization, Skills and Competences, under the format of a summary.

Additionally, in the 3<sup>rd</sup> IAB Meeting there was presented in detail the Quality Assessment Report for the Analysis of the previous meeting.

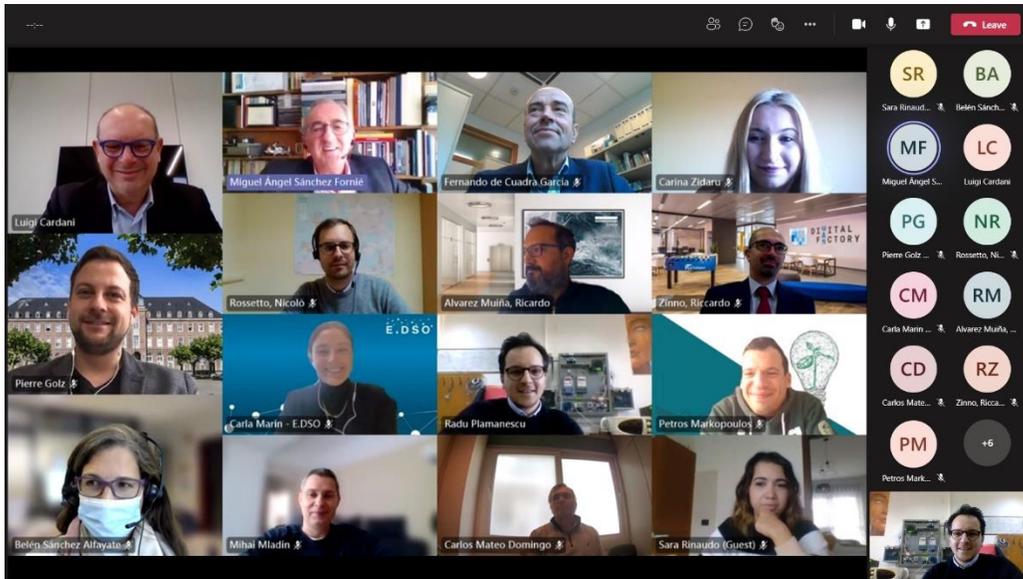


Figure 3-6. IAB meeting #3 - photo with the participants.

The feedback from the IAB members was positive with comments on the work that has been done and the strategy of EDDIE towards the right direction. Remarks were made on the importance of upskilling and reskilling in all sectors and for the energy sector at the transition. One of the challenges of this project is to include all profiles of stakeholders (with all the differences) as VET institutions, Universities, technicians, top managers, students, etc. Channels to reach them are different, as well as their interests. The status of the project and the progress of the work was underlined by DAFNI, especially with respect to the skills demand and the skills gaps. One point to stress is the geographical dimension (rural- mountain- islands) in terms of markets and education.

To promote and disseminate this meeting and to provide more information on the progress of the project, EDDIE consortium created a dedicated document as a press release that was posted on the website and shared on the social media channels. The document is listed under the [NEWS](#) section on the website and can be found [here](#) as well. A print screen of this document is in Figure 3-7. All these actions were disseminated on social media as well.



### 3<sup>rd</sup> INTERNATIONAL ADVISORY BOARD OF EDDIE PROJECT

Representatives of EDDIE Project - „*Education for Digitalization of Energy*”, the Partners involved in the strategic implementation, important members and the external experts, participated and actively contributed at the 3<sup>rd</sup> International Advisory Board (IAB) of the Project which took place in the Online Environment. This important meeting was organized by the project coordinator COMILLAS Pontifical University, on Thursday, 25<sup>th</sup> of November 2021. The role of Education in the Digital Era for Digitalization will create the framework for EDDIE Project to take part in the decision-making process of Digitalization of the European Energy Sector (DEES).

The 3<sup>rd</sup> International Advisory Board Meeting 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. Dissemination activities within EDDIE Project which includes social media interactions, exploitation of the results, various actions on EDDIE’s website were addressed in the 3<sup>rd</sup> IAB meeting. With regards to the dissemination activities, the EDDIE Project started a new topic news on its website addressing relevant policy briefs for the Energy Sector. The main objective consists in informing the interested audience about critical subjects regarding Energy, Digitalization, Skills and Competences, under the format of a summary.

Figure 3-7. EDDIE's press release on the 3rd IAB meeting.

For this event, CRE Association shared content and information for its members. All the communication was posted on CRE website and on its social media channels. A print screen of this document is in Figure 3-8



THE ROMANIAN ENERGY CENTER ASSOCIATION PARTICIPATED AT THE 3<sup>rd</sup> INTERNATIONAL ADVISORY BOARD WITHIN EDDIE PROJECT

25<sup>th</sup> of November 2021, Carina Ioana ZIDARU

The representatives of the Romanian Energy Center (CRE) Association participated and actively contributed at the 3<sup>rd</sup> International Advisory Board (IAB) of EDDIE Project – „Education for Digitalization of Energy”, hosted Online. This relevant and important meeting was organized by the Project Coordinator COMILLAS, on Thursday, 25<sup>th</sup> of November 2021. The role of Education in the Digital Era for Digitalization will create the framework for EDDIE Project to take part in the decision-making process of Digitalization of the European Energy Sector (DEES).

In 2020, CRE expanded its research and innovation portfolio, through the European Project “EDDIE” - „Education for Digitalization of Energy”, funded by the European Commission (EC) under the ERASMUS+ Program. The main objective of EDDIE Project aims at creating a Sector Skills Alliance (SSA) by bringing together all the relevant stakeholders in the Energy value chain such as industry, education and training providers, European organizations, recruiters, social partners, and public authorities. The main objective of this SSA is to develop a long-driven Blueprint for the DEES to enable the matching between the current and future demand of skills necessary for the DEES and the supply of improved Vocational Education and Training (VET) systems and beyond.

The 3<sup>rd</sup> International Advisory Board Meeting 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. Dissemination activities within EDDIE Project which includes social media interactions, exploitation of the results, various actions on EDDIE’s website were addressed in the 3<sup>rd</sup> IAB meeting. With regards to the dissemination activities, the EDDIE Project started a new topic news on its website

Figure 3-8. CRE's press release on the 3rd IAB meeting for EDDIE project

### 3.4. 4<sup>th</sup> Advisory Board Meeting – June 2022

The 4<sup>th</sup> International Advisory Board Meeting (Figure 3-9) highlighted important and significant subjects for the development of the project such as the project status, the Action Plan, ongoing activities, Mid-Term Report and the Positive assessment by the European Education and Culture Executive Agency (EACEA). Dissemination activities within EDDIE Project which includes social media interactions, exploitation of the results, future events and several actions on EDDIE’s website were addressed in the 4<sup>th</sup> IAB meeting. In this context, during the meeting was presented the database of stakeholders, together with the overall architecture and design and the registration procedure.

Additionally, the 4<sup>th</sup> IAB Meeting underlined the Pilot Activities and the future EDDIE-ENTITY. With regards to the EDDIE-ENTITY, the main functions and responsibilities, organisation and models, brief survey about services and portals such as: training programmes, dissemination, jobs, tools and systems were addressed during the 4<sup>th</sup> IAB Meeting. The framework of this Entity is related to the energy transition to be accelerated in the European Union through the Fit for 55, REPower EU and the associated necessary skills to support EC’S Digitalization of Energy Action Plan, and education through Pact for Skills. The European Commission Action Plan for Energy with focus on digitalization will support the energy transition.

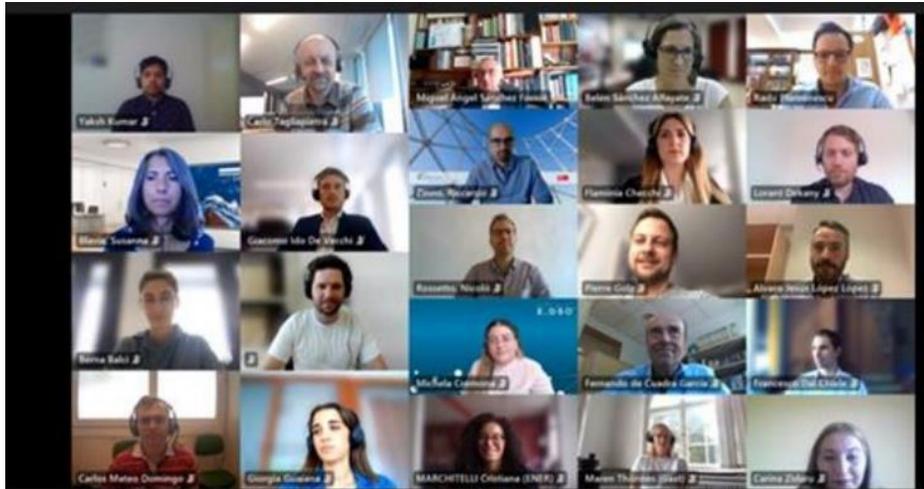


Figure 3-9. IAB meeting #4 - photo with the participants.

Moreover, the Pact for Skills is underlined in the framework of the Entity as the Education is recognised as a major challenge in both energy and digitalization sectors. The Blueprint Strategy must ensure sustainability after the project ends, becoming a major reference in education of the energy sector in the future. The Strategy will be framed with the Pact for Skills becoming a reference of education for energy transformed by transition and digitalization. Furthermore, the important mission of the EDDIE-ENTITY is to become the reference body for skills education in the Digitalization of the European Energy Sector. Its main activity will be to provide a platform to share training or disseminate skills in the context of the digitalization of the energy system.

To promote and disseminate this meeting and to provide more information on the progress of the project, EDDIE consortium created a dedicated page on the website and a press release that was posted on this page and shared on the social media channels. The document is also listed under the [NEWS](#) section on the website and can be found [here](#) as well. A print screen of this document is in Figure 3-10. All these actions were disseminated on social media as well.



#### 4<sup>th</sup> INTERNATIONAL ADVISORY BOARD OF EDDIE PROJECT

9<sup>th</sup> of June 2022, EDDIE Consortium

**Representatives of EDDIE Project - „Education for Digitalization of Energy”, the Partners involved in the strategic implementation, important members and the external experts, participated and contributed at the 4<sup>th</sup> International Advisory Board (IAB) of the Project hosted online. This relevant meeting was organized by the project coordinator COMILLAS Pontifical University, on Thursday, 9<sup>th</sup> of June 2022. The role of Education in the Digital Era for Digitalization will create the framework for EDDIE Project to take part in the decision-making process of Digitalization of the European Energy Sector (DEES).**

The 4<sup>th</sup> International Advisory Board Meeting highlighted important and significant subjects for the development of the project such as the project status, the Action Plan, ongoing activities, Mid-Term Report and the Positive assessment by the European Education and Culture Executive Agency (EACEA). Dissemination activities within EDDIE Project which includes social media interactions, exploitation of the results, future events and several actions on EDDIE's website were addressed in the 4<sup>th</sup> IAB meeting. In this context, during the meeting was presented the database of stakeholders, together with the overall architecture and design and the registration procedure.

Figure 3-10. EDDIE's press release on the 4th IAB meeting

For this event, CRE Association shared content and information for its members. All the communication was posted on CRE website and on its social media channels. A print screen of this document is in Figure 3-11



THE ROMANIAN ENERGY CENTER ASSOCIATION CONTRIBUTED AT THE 4<sup>th</sup> INTERNATIONAL ADVISORY BOARD OF EDDIE PROJECT

9<sup>th</sup> of June 2022, Carina ZIDARU

The Romanian Energy Center (CRE) Association Team participated and contributed at the 4<sup>th</sup> International Advisory Board (IAB) of EDDIE Project – „Education for Digitalization of Energy”, which took place in the Online Environment. This relevant Meeting was organized by the Project Coordinator COMILLAS Pontifical University, on Thursday, 9<sup>th</sup> of June 2022. The role of Education in the Digital Era for Digitalization will create the framework for EDDIE Project to take part in the decision-making process of Digitalization of the European Energy Sector (DEES).

The 4<sup>th</sup> International Advisory Board Meeting highlighted important and significant subjects for the development of the project such as the project status, the Action Plan, ongoing activities, Mid-Term Report and the Positive assessment by the European Education and Culture Executive Agency (EACEA). Dissemination activities within EDDIE Project which includes social media interactions, exploitation of the results, future events and several actions on EDDIE’s website were addressed in the 4<sup>th</sup> IAB meeting. In this context, during the meeting was presented the database of stakeholders, together with the overall architecture and design and the registration procedure.

Additionally, the 4<sup>th</sup> IAB Meeting underlined the Pilot Activities and the future EDDIE-ENTITY. With regards to the EDDIE-ENTITY, the main functions and responsibilities, organisation and models, brief survey about services and portals such as: training programmes, dissemination, jobs, tools and systems were addressed during the 4<sup>th</sup> IAB Meeting. The framework of this Entity is related to the energy transition to be accelerated in the European Union through the Fit for 55, REPower EU and the associated necessary skills to support EC’S

Figure 3-11. CRE’s press release on the 4th IAB meeting for EDDIE project.

### 3.5. 5<sup>th</sup> Advisory Board Meeting – November 2022

The 5<sup>th</sup> International Advisory Board Meeting (Figure 3-12) highlighted important and significant subjects for the development of the project such as the project status, the ongoing activities, and deliverables. Dissemination activities within EDDIE Project which includes social media interactions, exploitation of the results, future events, and several actions on EDDIE’s website were addressed in the 5<sup>th</sup> IAB meeting. During the meeting was presented the database of stakeholders, pilot activities, the blueprint strategy, the future EDDIE-Entity in the European Framework and 3<sup>rd</sup> Quality Assessment report.

During the meeting, some recent actions were presented, including some policy briefs, concrete interactions in terms of contributions and prospect cooperations with other European initiatives and frameworks, such as CEDEFOP, ESCO and the Pact for Skills. In addition, for the trial site demonstrations, five entities have designed some pilot activities, to be developed in Germany (Aachen, Herne, and Cologne), Greece, Italy and Spain, to test diverse aspects of the design of the Strategy. The activities detailed in the presentation cover a range of activities (MOOCs, Summer schools, Vet training, etc.) and EQF levels (1 – 8).

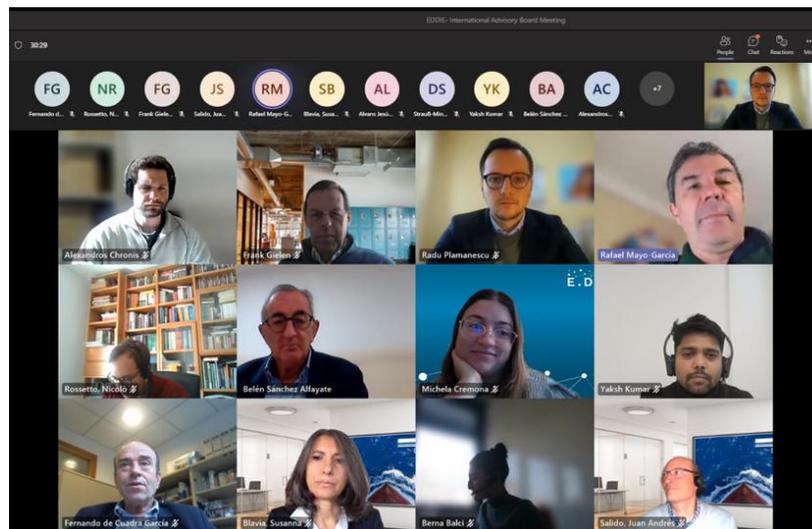


Figure 3-12. IAB meeting #5 - photo with the participants.

The 5<sup>th</sup> IAB Meeting underlined a new European framework within the Digital Action Plan for Energy, which offers a great opportunity in the field of Education and training of skills in the Energy Sector. In this context, EDDIE Project was referenced in the framework of the "Digitalising the Energy System - EU Action Plan" which was released on 18th of October 2022 by the European Commission (EC). The Action Plan is very important and relevant for EDDIE for the development of the long-driven sector skills strategy and the creation of a large-scale partnership on digitalization of the energy value chain strongly linked with the future entity, proposed by the Blueprint Erasmus+ project.

The 5<sup>th</sup> IAB meeting also highlighted the progress regarding the sector skills strategy with the focus on the evaluation and comparison of the business models. The final version of the Strategy will have the primary objective as the creation of the EDDIE-ENTITY. The framework of this Entity is related to the energy transition to be accelerated in the European Union through the Fit for 55, REPower EU and the associated necessary skills to support EC'S Digitalization of Energy Action Plan, and education through Pact for Skills. The European Commission Action Plan for Energy with focus on digitalization will support the energy transition. Moreover, the Pact for Skills is underlined in the framework of the Entity as the Education is recognised as a major challenge in both energy and digitalization sectors. The Blueprint Strategy must ensure sustainability after the project ends, becoming a major reference in education of the energy sector in the future. The Strategy will be framed with the Pact for Skills becoming a reference of education for energy transformed by transition and digitalization.

The important mission of the EDDIE-ENTITY is to become the reference body for skills education in the Digitalization of the European Energy Sector. Its main activity will be to provide a platform to share training or disseminate skills in the context of the digitalization of the energy system.

To promote and disseminate this meeting and to provide more information on the progress of the project, EDDIE consortium created a dedicated page on the website and a press release that was posted on this page and shared on the social media channels. The document is listed under the [NEWS](#) section on the website and can be found [here](#) as well. A print screen of this document is in Figure 3-13. All these actions were disseminated on social media as well.



Figure 3-13. EDDIE's press release on the 5th IAB meeting.

For this event, CRE Association shared content and information for its members. All the communication was posted on CRE website and on its social media channels. A print screen of this document is in Figure 3-14



THE ROMANIAN ENERGY CENTER ASSOCIATION CONTRIBUTED AT THE 5<sup>th</sup> INTERNATIONAL ADVISORY BOARD OF EDDIE PROJECT

16<sup>th</sup> of December 2022, Carina ZIDARU

The representatives of the Romanian Energy Center (CRE) Association participated and contributed at the 5<sup>th</sup> International Advisory Board (IAB) of EDDIE Project – „Education for Digitalization of Energy”, which took place in the Online Environment. This important Meeting was organized by the Project Coordinator COMILLAS Pontifical University, on Thursday, 24<sup>th</sup> of November 2022. Members who participated for the first time in an IAB meeting as representatives from EIT InnoEnergy and EERA were gladly welcomed. The role of Education in the Digital Era for Digitalization will create the framework for EDDIE Project to take part in the decision-making process of Digitalization of the European Energy Sector (DEES). CRE Association expanded its Research and Innovation portfolio, in 2020, through the European Project [EDDIE](#), funded by the European Commission (EC) under the ERASMUS+ Program.

The 5<sup>th</sup> International Advisory Board Meeting highlighted important and significant subjects for the development of the project such as the project status, the ongoing activities, and deliverables. Dissemination activities within EDDIE Project which includes social media interactions, exploitation of the results, future events, and several actions on EDDIE’s website were addressed in the 5<sup>th</sup> IAB meeting. During the meeting was presented the database of stakeholders, pilot activities, the blueprint strategy, the future EDDIE-Entity in the European Framework and 3<sup>rd</sup> Quality Assessment report.

Figure 3-14. CRE's press release on the 5th IAB meeting for EDDIE project

### 3.6. 6<sup>th</sup> Advisory Board Meeting – June 2023.

On the 8th of June 2023, representatives of EDDIE Project - „Education for Digitalization of Energy”, the partners involved in the strategic implementation, important members and external experts, participated and contributed at the 6<sup>th</sup> online International Advisory Board (IAB) of the Project.

During the advisory board meeting important and significant topics for the development of the project were discussed, such as the current project status, the framework of the Pact for Skills and the creation of the Large-Scale Partnership for the Digitalisation of the Energy Sector, as well as the review of the Strategy of the Blueprint. Dissemination activities within EDDIE Project were discussed, including social media interactions, exploitation of the results, the Large-Scale Partnership workshop integrated into the European Year of Skills, and the participation in national events. Regarding the pilot activities, all the field tests were designed taking into account the identified skills gaps, aiming to contribute to mitigate them with several activities carried out in 6 different locations in Germany (Aachen, Herne, and Cologne), Greece, Italy, and Madrid.

In addition, the IAB defined the next steps for the development of the EDDIE entity and its use within the Large-Scale Partnership for the Digitalisation of the Energy Sector to ensure good coordination between them.

With regard to the strategy, one of the final results is the implementation of the “Training Programmes Marketplace” specialised in the digitalisation of the energy sector, which will integrate different project results such as the programme template, the database, pilots, syllabus, etc.

The 6<sup>th</sup> International Advisory Board Meeting highlighted important and significant subjects for the development of the project such as the project status, the ongoing activities, Pact for Skills: The Large-Scale Partnership for the Digitalisation of the Energy Sector and deliverables.

Dissemination activities within EDDIE Project which includes social media interactions, exploitation of the results, future events, and several actions on EDDIE’s website were addressed in the 6<sup>th</sup> IAB meeting. During the meeting was presented the database of stakeholders, pilot activities, the blueprint strategy, and the future EDDIE-Entity in the European Framework.

The consolidation of the EDDIE entity is in line with the creation of a Large-Scale Partnership and a main outcome of the Blueprint. The Consortium is working to build this entity in the belief that it is their common interest to become members. Some of the members of the project have already confirmed their commitment to the entity such as COMILLAS, RWTH, NTUA, CRE and INNOENERGY. During the meeting, some recent and very important actions were presented, including some policy briefs, concrete interactions in terms of contributions and prospect cooperations with other European initiatives and frameworks, such as CEDEFOP, ESCO and the Pact for Skills. In addition, the discussion underlined the Pact For Skills: Large-Scale Partnership for the Digitalisation of the Energy Sector. In this regard, EDDIE Project organised 1 st Workshop on Developing the "LARGE SCALE PARTNERSHIP FOR DIGITALISATION OF ENERGY”.



Figure 3-15. IAB meeting #6 - photo with the participants.

The 6<sup>th</sup> IAB meeting also underlined the progress regarding the sector skills strategy with the focus on the evaluation and comparison of the business models.

To promote and disseminate this meeting and to provide more information on the progress of the project, EDDIE consortium created a dedicated page on the website and a press release that was posted on this page and shared on the social media channels. The document is listed under the [NEWS](#) section on the website and can be found [here](#) as well. A print screen of this document is in Figure 3-13. All these actions were disseminated on social media as well.



#### 6<sup>th</sup> INTERNATIONAL ADVISORY BOARD OF EDDIE PROJECT

14<sup>th</sup> of July 2023, EDDIE Consortium

**Representatives of EDDIE Project - „Education for Digitalization of Energy”, the Partners involved in the strategic implementation, important members and the external experts, participated and contributed at the 6<sup>th</sup> International Advisory Board (IAB) of the Project hosted online. This relevant meeting was organized by the project coordinator COMILLAS Pontifical University, on Thursday, 8<sup>th</sup> of June 2023. The role of Education in the Digital Era for Digitalization will create the framework for EDDIE Project to take part in the decision-making process of Digitalization of the European Energy Sector (DEES).**

The 6<sup>th</sup> International Advisory Board Meeting highlighted important and significant subjects for the development of the project such as the project status, the ongoing activities, Pact for Skills: The Large-Scale Partnership for the Digitalisation of the Energy Sector and deliverables. Dissemination activities within EDDIE Project which includes social media interactions, exploitation of the results, future events, and several actions on EDDIE’s website were addressed in the 6<sup>th</sup> IAB meeting. During the meeting was presented the database of stakeholders, pilot activities, the blueprint strategy, and the future EDDIE-Entity in the European Framework.

The consolidation of the EDDIE entity is in line with the creation of a Large-Scale Partnership and a main outcome of the Blueprint. The Consortium is working to build this entity in the belief that it is their common interest to become members. Some of the members of the project have already confirmed their commitment to the entity such as COMILLAS, RWTH, NTUA, CRE and INNOENERGY.

During the meeting, some recent and very important actions were presented, including some policy briefs, concrete interactions in terms of contributions and prospect cooperations with other European initiatives and frameworks, such as CEDEFOP, ESCO and the Pact for Skills. In addition, the discussion underlined the Pact For Skills: Large-Scale Partnership for the Digitalisation of the Energy Sector. In this regard, EDDIE Project organised [1<sup>st</sup> Workshop on Developing the "LARGE SCALE PARTNERSHIP FOR DIGITALISATION OF ENERGY"](#).

Figure 3-16. EDDIE's press release on the 6th IAB meeting.

For this event, CRE Association shared content and information for its members. All the communication was posted on CRE website and on its social media channels. A print screen of this document is in Figure 3-14



**THE ROMANIAN ENERGY CENTER ASSOCIATION CONTRIBUTED AT THE 6<sup>th</sup> INTERNATIONAL ADVISORY BOARD OF EDDIE PROJECT**

20<sup>th</sup> of July 2023, Carina ZIDARU

**The representatives of the Romanian Energy Center (CRE) Association participated and contributed at the 6<sup>th</sup> International Advisory Board (IAB) of EDDIE Project – „Education for Digitalization of Energy”, which took place in the Online Environment. This important Meeting was organized by the project coordinator COMILLAS Pontifical University, on Thursday, 8<sup>th</sup> of June 2023. The role of Education in the Digital Era for Digitalization will create the framework for EDDIE Project to take part in the decision-making process of Digitalization of the European Energy Sector (DEES).**

The 6<sup>th</sup> International Advisory Board Meeting highlighted important and significant subjects for the development of the project such as the project status, the ongoing activities, Pact for Skills: The Large-Scale Partnership for the Digitalisation of the Energy Sector and deliverables. Dissemination activities within EDDIE Project which includes social media interactions, exploitation of the results, future events, and several actions on EDDIE's website were addressed in the 6<sup>th</sup> IAB meeting. During the meeting was presented the database of stakeholders, pilot activities, the blueprint strategy, and the future EDDIE-Entity in the European Framework.

The consolidation of the EDDIE entity is in line with the creation of a Large-Scale Partnership and a main outcome of the Blueprint. The Consortium is working to build this entity in the belief that it is their common interest to become members. Some of the members of the project have already confirmed their commitment to the entity such as COMILLAS, RWTH, NTUA, CRE and INNOENERGY.

Figure 3-17. CRE's press release on the 6th IAB meeting for EDDIE project

## 4. Conclusions

Numerous events were organized and attended during the implementation of EDDIE project with the purpose of communication and dissemination the most relevant results and conclusions about the project work. Also, attendance to events related to energy transition and digitalization gave the project new insights to be very much considered to enrich its activities. EDDIE target audience stakeholders' groups include relevant policy makers, energy industry experts, research community as well as student and professionals that need to broaden their knowledge and specialize in the field of digitalization for the energy value chain.

EDDIE has created awareness of the work for skills gaps identification, best practices in the field but also to the strategy definition for the long-term objective to help create a highly skilled workforce. The future employees will help improve the competitiveness of the European Energy Sector, the harmonization of processes for an accurate and successful digitalization of the sector and for smart, inclusive, and sustainable growth. All the activities were aimed at collecting feedback and inputs from stakeholders and advisory board members during the organization of dedicated events and from the interaction with representatives of European institutions.

Various EDDIE partners participate actively in high level EU initiatives like the DG Energy meetings, and to several working groups of the ETIP-SNET platform (European Technology and Innovation Platform Smart Networks for Energy Transition). This commitment not only helps us to get visibility for the project but enables a fruitful exchange of experiences and ideas between EDDIE and other Erasmus+ funded projects, institutions, and policy makers at the European level.

Furthermore, EDDIE has created awareness of the project technical work and has disseminated the results through the organization and participation in numerous targeted events (workshops, scientific and technical conferences, exhibition fairs etc.) and has planned even more aiming at pushing ahead the sharing of knowledge and ideas and at driving the dialog with the different target audiences.

EDDIE dedicated the work for developing the blueprint strategy for the Digitalization of the Energy value chain (BSDE) based on sustainable cooperation among key industry stakeholders' groups, training providers, social partners, and public authorities. The blueprint will match current and future skills demand and supply adapted transnational contents, tools, and methodologies from education and training providers. During the project the work has been focused in analyzing and drafting the role, the tasks and the principles of the Entity. In addition, the strategy has been communicated with stakeholders to create a Strategic Network Alliance in this field, and as a first step, the discussions and the preparation has been focused on engaging the main partners to form a core group around which to establish the larger alliance. The expectations are working during next year towards materializing the long-term strategy through the creation of the Entity.

The Sector Skills Alliance, targeted at the beginning of the EDDIE project, has been oriented to become the Large-Scale Partnership committed by the EC, and aligned with strategic plans to facilitate funding and visibility. This will be committed with the long-term vision of the EC and framed within the Green Deal and the EU plans for digitalisation and employability. Finally, the creation of an Entity, as a non-profit association, will add value to the Partnership enabling the development of the activities above by providing managerial and legal support for handling funding and resources. The Entity will carry out the coordination as well as other fundamental activities, such as the development of the proposed marketplaces, setting the grounds for the upskilling and reskilling of workers that is needed in Europe in the context of the digitalisation of energy systems.

## 5. References

- [1] [https://ec.europa.eu/info/strategy/priorities-2019-2024/european-green-deal\\_en](https://ec.europa.eu/info/strategy/priorities-2019-2024/european-green-deal_en)
- [2] <https://ec.europa.eu/social/main.jsp?catId=1517&langId=en>

## List of Figures

Figure 2-1. EDDIE at the webinar "The European Green Deal: Smart Grids at the Center" organized by COMILLAS .....	12
Figure 2-2. Master Classes given by Manuel Sanchez Jimenez (left) and Agustin Delgado (right). .....	13
Figure 2-3. Statistics for the first international online conference organized by CRE .....	14
Figure 2-4. Integrated Approach in the Management and Operation of Electricity Transmission and Distribution Networks event .....	14
Figure 2-5. CRE's press release for the first international online videoconference .....	14
Figure 2-6. EDDIE's Newsletter #3 with ErasmusDays logo .....	15
Figure 2-7. ErasmusDays logo 2020 .....	15
Figure 2-8. EDDIE Webinar Highlights .....	16
Figure 2-9. Example of a press release on behalf of CRE .....	16
Figure 2-10. Strengthening Education for Sustainable Energy Transition & Digitalization – Dissemination .....	17
Figure 2-11. Photos during the presentations of EDDIE Representatives during 2021 IEEE SG4SC .....	17
Figure 2-12. 2021 IEEE SG4SC event highlights.....	18
Figure 2-13. CRE's press release to its members for 2021 IEEE SG4SC events .....	18
Figure 2-14. EDDIE's Virtual Booth during 2021 IEEE SG4SC event.....	19
Figure 2-15. PES PowerTech 2021 banner and presentation of EDDIE. ....	20
Figure 2-16 – Erasmus Days logo 2021 .....	21
Figure 2-17. EDDIE's press release for ENLIT Europe 2021 .....	22
Figure 2-18. CRE's press release on ENLIT Europe 2021 .....	22
Figure 2-19. EDDIE at ENLIT Europe 2021 .....	23
Figure 2-20. EDDIE's virtual booth at Enlit Europe 2021 .....	23
Figure 2-21. EDDIE at the "Promoting cooperation between digitalisation of energy centres of expertise and digital innovation hubs" .....	25
Figure 2-22. CRE press release on EDDIE participation at the workshop.....	25
Figure 2-23. Press releases before and after EDDIE policy session at EUSEW 2022.....	28
Figure 2-24. Visual identity of EDDIE policy session. ....	28
Figure 2-25. Speakers at "Skills for the Twin Green and Digital Transition" Policy Session within EUSEW 2022 ..	29
Figure 2-26. EDDIE being presented at EUSEW 2022 .....	30
Figure 2-27. EDDIE's press release for ENLIT Europe 2022 .....	32
Figure 2-28. EDDIE part of the EU project zone (right side) and EDDIE Roll up on the Iberdrola, Global Smart Grid Innovation Stand (left side) .....	33
Figure 2-29. EDDIE's virtual booth at Enlit Europe 2022 .....	34
Figure 2-30. Different pictures from the joint events of EDDIE and Digital4Energy .....	35
Figure 2-31. . EDDIE's outcomes showcases at EUSEW 2023.....	36
Figure 2-32. EDDIE at the 1st WORKSHOP on developing the LARGE-SCALE PARTNERSHIP .....	37
Figure 2-33. EDDIE at the 2nd WORKSHOP on developing the LARGE-SCALE PARTNERSHIP .....	38
Figure 2-34. EDDIE at ENLIT Europe 2023 .....	39

Figure 2-35. EDDIE Final Event and LSP on the Digitalisation of the Energy System .....	44
Figure 2-36. Presentation during the Webinar hosted by the University of Seville .....	45
Figure 2-37. INNOGRIG - Virtual Sessions .....	46
Figure 2-38. European Vocational Skills Week .....	47
Figure 2-39. Growing the Energy Transition - Platone project synergies with EDDIE project .....	48
Figure 2-40. Icae event frontpage and presentation on microgrids and EDDIE role in education for digitalization of electrification planning. ....	49
Figure 2-41. Presentation during Energy Education in the Future event .....	49
Figure 2-42. EDDIE project at Grid Service Market Symposium.....	51
Figure 2-43 – Opening of the “Archimedean” sandbox in the city centre of Aachen .....	52
Figure 2-44 – Model of an energy grid with wind turbines, storage units and consumer LED’s .....	52
Figure 2-45 Presentation of EDDIE .....	53
Figure 2-46. EDDIE at Factory 4.0 .....	54
Figure 2-47 Stand with energy grid model from ACS at the RWTH science night.....	55
Figure 2-48 Talk at RWTH science night.....	55
Figure 2-49. EDDIE at the “16 <sup>th</sup> ETIP SNET Regional Workshop”.....	56
Figure 2-50. Press Release - “16 <sup>th</sup> ETIP SNET Regional Workshop .....	56
Figure 2-51. EDDIE at the “4 <sup>th</sup> E.DSO Projects in the Spotlight Event ” organized by E.DSO (left) and Closing the Skills Gap in Europe – IBERDROLA (right).....	57
Figure 2-52. Press Release - EDDIE at the “4 <sup>th</sup> E.DSO Projects in the Spotlight Event” .....	58
Figure 2-53. Press Release - 2 <sup>nd</sup> International workshop on "Open Source Modelling and Simulation of Energy Systems – OSMSES 2023.....	59
Figure 2-54. EDDIE’s results related to skills needs and training tools in the field of smart energy systems.....	59
Figure 2-55. EDDIE at NSF Joint US European Workshop: Flexible Electric Grid Critical Infrastructure for Resilient Society .....	60
Figure 2-56. EDDIE Results at NSF Joint US European Workshop: Flexible Electric Grid Critical Infrastructure for Resilient Society .....	60
Figure 2-57. EDDIE representatives at the “Girls’ Day” Event .....	61
Figure 2-58. EDDIE at Data Platforms for the Energy Infrastructure Workshop .....	62
Figure 2-59. Press Release - “IEEE PowerTech Belgrade 2023” Conference .....	63
Figure 2-60. EDDIE Presentation at “IEEE PowerTech Belgrade 2023” Conference.....	63
Figure 2-61. Press Release - “Smart Energy Solutions for the Energy Transition” Conference .....	64
Figure 2-62. EDDIE at “The European MOOCs Stakeholder Summit” .....	65
Figure 2-63. EDDIE at E.DSO/Europacable/T&D Europe Webinar .....	66
Figure 2-64. Press release - EDDIE at “The 2023 IEEE Power & Energy Society (PES) General Meeting.....	67
Figure 2-65. EDDIE at “The 2023 IEEE Power & Energy Society (PES) General Meeting .....	68
Figure 2-66. EDDIE at READY4DC – InterOPERA Joint Event.....	68
Figure 2-67. EDDIE at the 6 <sup>th</sup> Event on Cybersecurity 'European Energy Grids' Security In A Changed Landscape .....	69
Figure 2-68. EDDIE at Smart City Day .....	70

Figure 2-69. Press release - EDDIE at ERASMUS+ DAYS 2023 .....	71
Figure 2-70. EDDIE at ERASMUS+ DAYS 2023 .....	72
Figure 2-71. EDDIE at Sectoral skills intelligence and strategies as drivers of the just transition .....	73
Figure 2-72. EDDIE at Lifelong learning for local sustainable growth: Policy and Practices for the Green Transition .....	74
Figure 2-73. EDDIE at ViP-NEXT .....	74
Figure 2-74. Innovations for operating power systems with increasing shares of variable renewables .....	75
Figure 2-75. Skill Building for the Energy Transition - Presentation during the webinar .....	76
Figure 2-76. EDDIE project - commitment for Pact for Skills .....	77
Figure 2-77. EDDIE's Press release for Pact for Skills.....	77
Figure 2-78. CRE's press release on Pact for Skills.....	78
Figure 2-79 – " Skill Building for the Energy Transition" .....	79
Figure 2-80. CRE's press release on "Remote Testing & EIRIE Platform" webinar .....	80
Figure 2-81. "Remote Testing & EIRIE Platform" Webinar .....	80
Figure 2-82 - Launch of the New Manifesto for Enhancing Digital Competences across Europe .....	81
Figure 2-83 - Professional Higher Education and sustainable development: creating a change that endures .....	82
Figure 2-84 – Power Summit 2021 - Electric Decade .....	82
Figure 2-85. 4th E.DSO-ENCS-ENTSO-E Webinar on Cybersecurity “Enhancing our grid resilience” .....	83
Figure 2-86. CRE's press release on the "10th INNOGRID EDITION – "Living the Transition" Event, CRE As .....	84
Figure 2-87. 10th INNOGRID EDITION - "Living the Transition" - photos from the event .....	85
Figure 2-88. Workshop on Analyzing and Comparing VET Qualifications .....	85
Figure 2-89. SEFI annual conference.....	86
Figure 2-90. “The Truth about Sector Coupling” - opening of the event .....	87
Figure 2-91. Cover of Euroelectric's report.....	88
Figure 2-92. 3rd Coordinet Stakeholder Forum – Roadmap for a Green Deal fir market design .....	88
Figure 2-93. Europe in transition: challenges for research and education” Conference.....	89
Figure 2-94. EDDIE’s Press Release ”Digital Education Stakeholder Forum” .....	90
Figure 2-95. Automotive Sector Skills Blueprint projects underpinning an EU-wide long-term cooperation .....	91
Figure 2-96. Raising the uptake of renewables by DSOs .....	91
Figure 2-97. World Sustainable Energy Days 2022 .....	92
Figure 2-98. Energy Tech Summit 2022.....	92
Figure 2-99. European Vocational Skills Week 2022 .....	93
Figure 2-100. Shaping the EO*GI Skills of the Future.....	93
Figure 2-101. UNESCO World Higher Education Conference 2022.....	94
Figure 2-102. EU Green Week 2022 .....	94
Figure 2-103. Networking Event for Pact for Skills Members.....	95
Figure 2-104. EDDIE’s Press Release ”Networking Event for Pact for Skills Members” .....	96
Figure 2-105. InnoGrid 2022 .....	96

Figure 2-106. Power Summit 2022.....	97
Figure 2-107. EDULEARN 2022 – International Education Conference.....	97
Figure 2-108. ETIP SNET Webinar "Digitally enabled renewable energy communities" .....	99
Figure 2-109. CRE's Press Release ETIP SNET Webinar "Digitally enabled renewable energy communities" .....	99
Figure 2-110. "Is Open Source the Next Big Thing In Electricity Distribution?" Webinar .....	100
Figure 2-111. European Week of Regions & Cities.....	100
Figure 2-112. Regions tackling Skills Challenges for the Green and Digital Transition under the Pact for Skills..	101
Figure 2-113. Repowering Europe for a Sustainable EU Strategic Autonomy.....	102
Figure 2-114. Posting of Workers: The Role of National Authorities in the enforcement of the Rules .....	102
Figure 2-115. 16th Set Plan Conference – Towards a new Strategic Energy Technology Plan.....	103
Figure 2-116. 2022 Forum on Vocational Excellence .....	104
Figure 2-117. "A Multi-Scale Calibration Approach For A Digitalised Energy System" Seminar .....	104
Figure 2-118. 5th E.DSO-ENCS-ENTSO-E Event on Cybersecurity "European Energy Grids' Security in a Radically Changed Landscape" .....	105
Figure 2-119. E.DSO TF1 Go4Flex Workshop.....	106
Figure 2-120. 8th Energy Storage Summit.....	106
Figure 2-121. World Sustainable Energy Days 2023 .....	107
Figure 2-122. Power to Buildings Hub Peer Exchange .....	108
Figure 2-123. The Future of Energy Materials: EERA EM4I and AMI2030 Joint Workshop.....	109
Figure 2-124. Info Session: Alliances for Innovation 2023.....	109
Figure 2-125. Joint ENTSO-E & RGI Conference on Adaptation & Resilience.....	111
Figure 2-126. Fostering EU Clean Energy transition in Romania, SUPEERA/PANTERA Workshop .....	111
Figure 2-127. "EVision 2023- Power Sector Accelerating e-mobility" .....	112
Figure 2-128. "Energy Conversion and Storage Days" .....	113
Figure 2-129. "K.EY 2023 – The Renewable Energy EXPO" .....	113
Figure 2-130. EDDIE at CEDEFOP/OECD Symposium on "Apprenticeships and the digital transition" .....	114
Figure 2-131. EDDIE at 2nd Education and Innovation Summit .....	115
Figure 2-132. EDDIE at Empowering individuals for better mobility – transparency and recognition of VET qualifications .....	116
Figure 2-133. EDDIE at The European Education Area: A reality for all" Sixth European Education Summit .....	116
Figure 3-1. IAB members of EDDIE .....	118
Figure 3-2. IAB meeting #1 - photo with the participants. ....	119
Figure 3-3. IAB meeting #2 - photo with the participants .....	120
Figure 3-4. EDDIE's press release on the 2 <sup>nd</sup> IAB meeting.....	121
Figure 3-5. CRE's press release on the 2nd IAB meeting for EDDIE project.....	121
Figure 3-6. IAB meeting #3 - photo with the participants. ....	122
Figure 3-7. EDDIE's press release on the 3rd IAB meeting. ....	122
Figure 3-8. CRE's press release on the 3rd IAB meeting for EDDIE project .....	123

Figure 3-9. IAB meeting #4 - photo with the participants. ....	124
Figure 3-10. EDDIE's press release on the 4th IAB meeting .....	124
Figure 3-11. CRE's press release on the 4th IAB meeting for EDDIE project. ....	125
Figure 3-12. IAB meeting #5 - photo with the participants. ....	125
Figure 3-13. EDDIE's press release on the 5th IAB meeting. ....	126
Figure 3-14. CRE's press release on the 5th IAB meeting for EDDIE project .....	127
Figure 3-15. IAB meeting #6 - photo with the participants. ....	128
Figure 3-16. EDDIE's press release on the 6th IAB meeting. ....	128
Figure 3-17. CRE's press release on the 6th IAB meeting for EDDIE project .....	129