



## Education for Digitalisation of Energy

Newsletter no.9 – January, February, March 2022

### Description and Benefits

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

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

### Digital Energy Education

#### Briefly

**Title:** Education for Digitalisation of Energy

**Type of action:** Sector Skill Alliance

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

**Grant Number:** 612398

**Total Cost:** € 3,995,690.00

**EC Contribution:** € 3,995,690.00

**Start Date:** 01/01/2020

**End date:** 31/12/2023

**Duration:** 48 months

**Project Web Site:** [www.eddie-erasmus.eu](http://www.eddie-erasmus.eu)

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

**Project Coordinator:** COMILLAS

With the support of the  
Erasmus+ Programme  
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### Project Objectives

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

### Concept and approach

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

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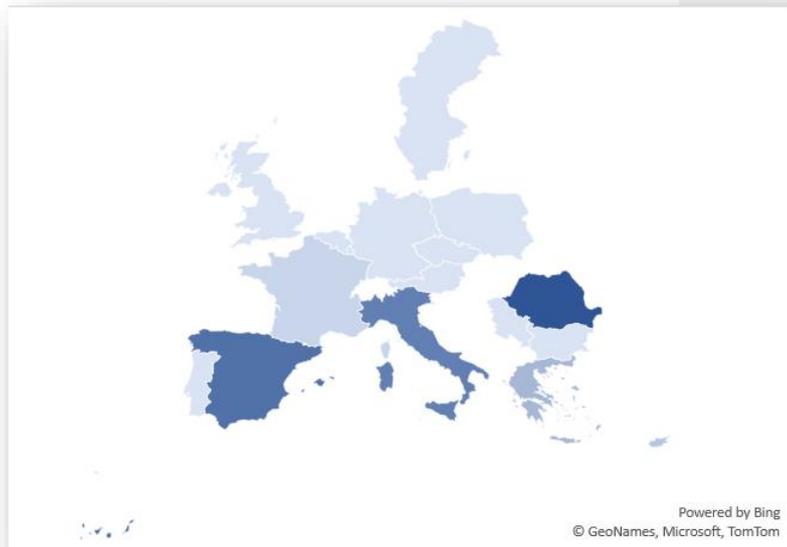
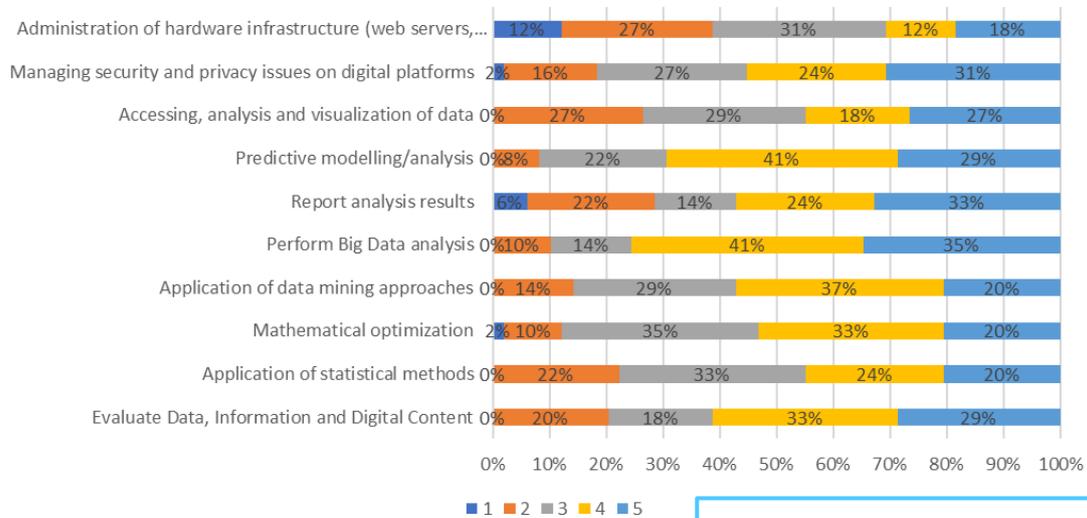
## EDDIE Project Survey on Stakeholders Group.

To improve the quality of the produced results and expand them in terms of geographical and sectoral representation, a new survey was designed, targeting both industrial and educational stakeholders. The recipients of the new questionnaire were both stakeholders that were contacted and had contributed before and also new ones.

To form the questions, the outputs of the analysis presented in the previous sections were utilized, extracting the major findings, and placing them against the judgement of experts in the energy sector. A Likert scale type of questions was used, requiring the participants to rate on a 5-scale basis, how significant they consider each skill gap presented.

Contributors of this survey had been stakeholders active in several European countries.

### Digital skill gaps



It has been found that more than 50% of all participants have rated the skill gaps with at least a score of 3 (of maximum 5), indicating that the majority of the stakeholders have identified these gaps in their area of operation, yet, some of them do not have significant impact at this point.

Nevertheless, in most of the skill gaps presented, there are several participants that have attributed scores of 4 and 5, highlighting the importance of these gaps for a few stakeholders in the energy value chain.

Data related skill gaps and cybersecurity are amongst the ones that seem to be the most impactful.

[More details](#)

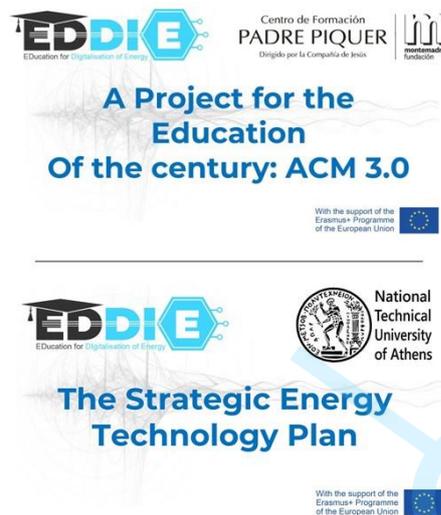
## EDDIE Project continues the “Policy Briefs” topic.

EDDIE Project continues the action of publishing on its website summaries on the topic “Policy Briefs” by addressing relevant strategies, regulations and initiatives at EU level.

Some examples include “The European Pillar of Social Rights Action Plan includes Education, training and life-long learning”, “A Project for the Education Of the century: ACM 3.0”, “A European Strategy for Universities” and “The Strategic Energy Technology Plan”.

The first policy brief addresses the action plan launched by the European Commission, and especially one principle out of the entire list of 20 principles, namely “Education, training and life-long learning”. A section has been dedicated to Investing in skills and education to unlock new opportunities for all. As perceived by the Commission, skilled workforce is the motor of a prosperous green and digital economy, powered by innovative ideas and products, and technological developments. Education and training systems play a key role in laying the foundations for lifelong learning, employability and participation in society.

The second policy brief presents the deep process of digitalization of the Padre Piquer Training Center classrooms and especially the project ACM 3.0 which aims of creating a new educational framework where IT (web2.0, web 3.0) are the cornerstone for the access to the knowledge.



A European Strategy for Universities focus on different dimensions and needs to be addressed to support Universities and their competitiveness on a worldwide scene. The higher education sector must adapt to the rapidly evolving skills needs, mainly related to green and digital transitions.

The last policy brief talks about the SET (Strategic Energy Technology) Plan and its objectives, as the main instrument in funding Research and Innovation (R&I) activities by promoting a targeted and efficient spending, and by driving national and private financial sources.

The paradigm shift that happens in the energy field calls for multidisciplinary and system integration education.

[More details](#)

## EDDIE Project applied for EUSEW 2022 policy session addressing “Skills for the twin green and digital transition”.

EDDIE Consortium applied for European Sustainable Energy Week (EUSEW) 2022 policy session addressing “Skills for the twin green and digital transition”

The challenge addressed by the session proposed by EDDIE is to identify and assess skills gaps, needs, high-impact policies and regulations in the Energy Sector, for energy transition through digitalization.

The event will comprise a high-level Policy Conference, the EUSEW Awards, and the third European Youth Energy Day as well as opportunities for 1:1 meetings, exhibition stands and other networking activities.

[More details](#)

**26-30 SEPTEMBER 2022**  
**EUROPEAN SUSTAINABLE ENERGY WEEK**

Going green and digital for Europe's energy transition

#EUSEW2022

## EDDIE Project – Mid-Term Assessment meeting progress report.

The EDDIE Project – midterm assessment meeting with the representatives of EACEA DGENER and DGEMPL took place on 30 March. EDDIE project is moving towards the implementation of the sector skills strategy with field trial demonstrations.

The positive feedback received underline that the outcomes from the project are ample, considering for example, the reports on identification of the skills gaps and the current and future skill needs in the Energy Sector in Europe which are in particular useful for a wide range of stakeholders and would be worthwhile to be disseminated to key target groups and stakeholders. The report “Identification and assessment of VET systems for delivery of skills and professional knowledge to address digitalization” is similarly relevant to VET providers.

Moreover, the identification of the skills gap, has been subject to active dissemination in various forms, such as through interviews, events participation, etc., and the way in which these outcomes will impact the sector remains to be analyzed in detail further.



[More details](#)

## EDDIE at “Promoting cooperation between digitalisation of energy centres of expertise and digital innovation hubs”.

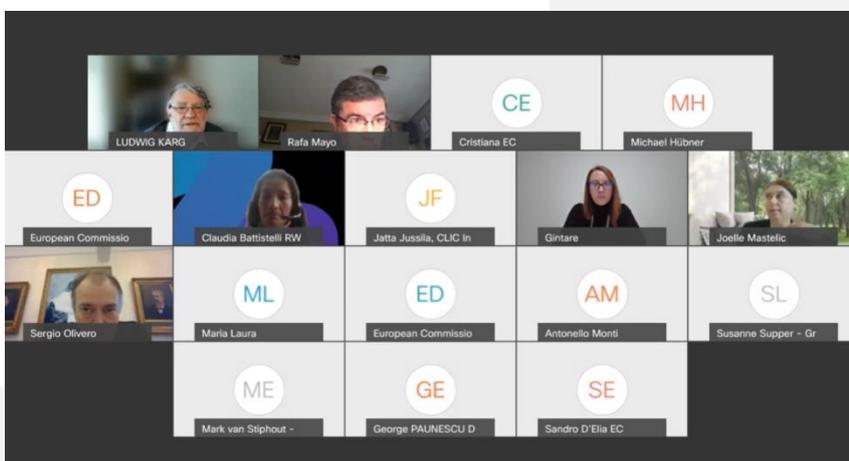
On the 25<sup>th</sup> of February 2022, representatives of EDDIE project participated and contributed at the online workshop organized by European Commission, namely the DG ENERGY and DG CONNECT.



This dedicated Workshop represented a 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.

It has been 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, Dr. Claudia BATISTELLI - Institute for Automation of Complex Power Systems of RWTH Aachen University, 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 in the first panel discussions.



[More details](#)

## EDDIE Project at the Digital Education Stakeholder Forum

In March representatives of EDDIE project participated at the "Digital Education Stakeholder Forum - Making education and training fit for the digital age". The event has been organized online by the European Commission and 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. Additionally, the Forum was a great opportunity to reflect on the first year of implementation of the brand-new Digital Education Plan.

[More details](#)

Digital Education Stakeholder Forum



## EDDIE Project at Automotive Sector Skills Blueprint projects underpinning an EU-wide long-term cooperation.



Final Event  
ONLINE

24/03/2022  
09:30-13:00 CET



The event addressed the future of the EU Automotive Sector, the outcomes of the DRIVES partnership and the legacy of the project.

Through the main findings of the digital automotive value chain topic has been stated that the existing lack of skilled labour in software engineering and other digital skills is likely to intensify. A key challenge for the EU will be to provide and attract sufficient talent in these new technology areas.

Demand is shifting towards researchers, engineers and technicians with electrical, electrochemical, mechatronic, and software skills. Clear need for projects to bridge the gaps to identify and monitor skill needs and provide support for up- and reskilling are mandatory

[More details](#)

## EDDIE Project participated at the “Europe in transition: challenges for research and education” conference.

EDDIE Project participated at the “Europe in transition: challenges for research and education” conference on 10<sup>th</sup> March 2022.

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.

Innovations must bring together a broad spectrum of technologies and skills from different disciplines and only working at the interfaces of different scientific fields (life sciences, physical science, digital science, engineering science, human & social science) will lead to a carbon-neutral and resilient society.



[More details](#)

## EDDIE Project participated at “EPRI’s European Workshop Week”.

EDDIE project representatives participated in March at the EPRI’s European Workshop Week.

The goal of the European Workshops has been to engage the European power systems community on the key innovation challenges the grid faces on the energy transition towards 2050. For the 6th edition of the workshop week, there will be nine virtual workshop topics hosted by EPRI subject matter experts and partners to highlight the solutions to the challenges presented.



The workshop addressed a wide range of topics like climate resilience, building decarbonisation and energy communities, innovation strategy discussion, advanced analytics for wind and solar assets, grid data management, as well as transmission and distribution cyber security – insider threat and cyber future trends.

[More details](#)

## EDDIE Project published on website the latest deliverables completed by the end of 2021 year.

EDDIE Consortium completed by the end of 2021 year a set of deliverables which have been evaluated and approved by the European Commission.

The deliverables presented below are now available on the EDDIE website.

- D1.2 - Mid-term report – The document presents the progress of the project and the actions implemented based on the first cycle of the project.
- D4.2 - Report on Best Practice for VET education – This deliverable contains a set of requirements for best practices in the Vocational Education and Training education.
- D4.3 Report on Best Practice for University education – The document contains a set of requirements for best practice in university education (entry and advanced levels).
- D4.4 Report on Best Practice for continuous learning – The document addresses the need of the system of policies at national, regional and European levels to work coherently to create a framework for the dynamic adaptation of lifelong learning to new technological conditions and changes in the labour market.
- D5.1 - Specification, conceptual design and application to the partial results compiled from other work packages – This deliverable contains a consolidated view of the skill gaps, the stakeholders and the current policies and requirements, assessing and stressing the ones with the highest usefulness to define the Blueprint Strategy for the Digitalisation of the Energy value chain (BSDE), and providing an initial draft view on how this can be applied to build the blueprint.
- D5.2 - Intermediate draft templates for educational programs – The document contains the pre-design of education programmes, initial and continuous training activities.
- D7.4 - Report on events (v1) – This deliverable provides a report on all dissemination and consultation events, and it assesses the results of these events regarding the intended communication goals. It is based on the collection of information and description elements for all event types, organised by the consortia or just attended.: dissemination and synergies activities containing the minutes, report, photo or video overview of the meeting, presentation used, participants list or number of people attending, collection of feed-back, etc

### EDDIE project consortium

