

Summary of 6.2

Intermediate report on the field tests

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EDDIE Consortium

Deliverable D6.2 - This report will describe the content of the piloting activities for each field test site and update the deployment plan. In addition, the connection to the overall Blueprint Strategy of the piloting activities will be drawn.

The EDDIE project aims to develop a Blueprint Strategy for the Digitalisation of Energy value chain (BSDE). This Blueprint will be industry-driven, considering the various technological, social and economic challenges created due to the digital transformation of the Energy Sector. Vital for the hereby created new skills gaps are updated, modern training programs, that will enhance knowledge and expertise exchange among all involved stakeholders in a common way throughout European Union. The Blueprint Strategy focuses on the creation of a solid and sustainable framework to facilitate the continuous update of training programs offered in Europe, considering the current industry demand each time.

Tools and mechanisms of the Blueprint need to be tested and updated in different field tests, ensuring the sustainability of the strategy. Therefore, one central pilot site in Germany (Aachen) and four smaller-scale pilot sites in Germany (Cologne), Greece (Athens), Italy (Milano) and Spain (Madrid) were designed. The first development plan and presentation of the pilots was part of deliverable D6.1. In the deliverable D6.2 is an update and extended version of the field test with the focus on the pilot activities individual content and the relation to the BSDE.

The central pilot in Aachen will include learners from all EQF levels, proposing various activities. As the leader of the pilot is RWTH Aachen University, some of the actions focus on the education sector, from a workshop at a secondary school to actions for university students. These activities will include lectures and a summer school about modern power systems and digitalisation, as well as the dissemination of EDDIE project's material and Blueprint, targeting not only students in the field of electrical engineering but also all students in an interdisciplinary setting. Other activities are aiming to raise synergies and appeal to a larger audience, the central pilot in Aachen plans workshops and experimental demonstrations in cooperation with the local communities and nationwide events. These activities are targeting to raise awareness about renewable energy and digitalisation to a larger audience, including the young generation in dissemination events, a summer vacation program and Girl's Day. In the same direction, stands the partnership with the city of Herne to propose a workshop, based on smart city initiatives, in order to achieve dissemination of EDDIE scope to wider audience, focusing on energy applications.

In coordination with Aachen pilot site and in the context of the BSDE directions, four other pilot sites will be developed in Cologne, Athens, Milan and Madrid. The Cologne pilot site will be mainly industry driven, aiming to reduce skills gaps in energy sector. This includes a program to train employees on new trends in the energy sector, a certificate program for mastering the energy landscape of the future and a course connecting companies as teaching entities with students. The Greek pilot site focuses on lectures and courses to university students in the field of new tools and mechanisms that

will play crucial role in the digitalisation of the energy system. To raise synergies, NTUA also plans to participate in a summer school and a MOOC, organized by the H2020 project ERIGrid 2.0, aiming to stress the necessity of updating education programs, in the context of the transformation of the energy sector. In Italy, Politecnico di Milano will develop a MOOC targeted to digital energy management for real estates, aiming to match green skills with the real estate sector. Finally, Piquer is setting up a complementary training module on automation technology to improve the energy efficiency and control the energy consumption in private households as an educational offer in vocational training (VET) in Spain.

In total there are 17 individual piloting activities distributed over different field test sites described above. Three out of the eight activities in Aachen either are in the implementation phase or have been completed. To get an overview, see the table below.

Site	Partner	EQF Levels	Piloting activities
Aachen, Germany	RWTH	1-8	8 (3 in implementation)
Athens, Greece	NTUA	6-7	4
Milan, Italy	POLIMI	5-6	1
Cologne, Germany	EWI	4-6	3
Madrid, Spain	PIQUER	4	1
			Total 17

To describe each of the 17 piloting activities additional to the program content, the program template from deliverables D5.2 and D5.3 is used. This draws a direct relation to the WP5 and the Blueprint Strategy of EDDIE. However, other parts of WP5 are also linked to the piloting activities. Various pilot activities that contain suitable training material will be placed in the Marketplace platform of the BSDE, developed in the context of EDDIE. Also, the identified trends in occupations related to the digital transformation of the energy sector in WP5 are being utilised in the design process of the pilot activities, targeting skills relating to these specific occupations. Besides the described relation to the central WP5, there are further links to the other work packages of the project. So, for example, the content development of the piloting activities will be affiliated to the skill needs and skill gaps identified in WP2. The stakeholder analysis of WP3 allows the pilot designers to define the educational content, based on the stakeholders' needs and reach out to the relevant stakeholders of each pilot activity. Lastly, the experiences of best practices in education, in the area of energy efficiency & transition, industrial transition & digitalization, as gathered in WP4, provide valuable insights regarding methodology, content, target groups and learning techniques.

The implementation of the activities will be followed by an assessment procedure, in order to measure the impact of the activities. The goal of the assessment is to achieve a continuous update of the Blueprint, and thus ensure the sustainability of the strategy, both during and after the end of the project. The end of this procedure will mean the determination of the Blueprint Strategy.





Overall, several of the elements of the BSDE are going to be tested through the pilots by assessing the possible impact they may have on the transition to the digital era of the energy system. In particular the skill gaps identified will be used as a starting point to develop educational material. In addition, the developed templates and best practice analysis will be utilized in the development process, while using the common language of syllabus elements that is being identified in WP5. The developed programs will be distributed and disseminated through the training programs marketplace and the dissemination portal of the BSDE.