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New Skills for nearly Zero Energy Buildings

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New Skills for Nearly Zero Energy Buildings

"The best technology is only as good as the skilled professionals who can design, install and operate it,"

"And with a huge growth in new technologies, we will need a huge growth in skills and skilled specialists in this sector"

The NS4nZEBs project aims to tackle existing mismatches between the skills currently existing and the ones increasingly in demand to increase the number of skilled building professionals in the field of PVs, smart electrical systems, heat pumps and hydrogen technologies in buildings, at all levels of the building design, operation and maintenance. This will lead to an increased application of new energy efficient and RES technologies for the successful uptake of (nearly) zero energy buildings.

This objective will be reached through the development of new and upgrading existing training methods and curricula, and qualification courses for all types of professionals involved in the construction value chain ("blue collars" and "white collars").

The consortium is a partnership of excellence, with experts (installers, architects, experts in IT, automation, education and communication) from 6 countries: Belgium, Bulgaria, Greece, Italy, Spain, and Ukraine.

First of all, with the involvement of all identified stakeholders, we collected data on the needs of the labour market for competent specialists in energy efficient RES technologies applied in buildings. We performed an in-depth analysis to identify the existing gaps in the current training programs. We also collected data on the latest developments in VET and adult training in general, as well as on innovative solutions for energy management, smart and RES systems in buildings, and small-scale hydrogen installations.

Under the NS4ZEBs project we will develop 9 curricula (for electricians, electrical engineers, HVAC technicians, HVAC engineers, architects and trainers) to best tackle the identified skill gaps, i.e. areas of competences in need of improvement, namely:

- ***Soft skills***
- ***Digital skills***
- ***Entrepreneurship competence***
- ***EU regulations concerning nZEB (theoretical and practical frameworks);***
- ***Latest developments in RES systems in buildings.***

What training is needed for this purpose:

- *Flexible training, tailored to the specific learning and daily life of working people;*
- *Divided into micro-modules;*
- *Meeting the identified needs of all professionals, from the installer to the architect;*

- *Enabling the award of recognized micro-qualifications;*
- *Training that can be constantly updated.*

The training model that is in the process of being developed under the project:

- *It is implemented on a digital platform;*
- *LMS with full functionalities*
- *Allows work when and where the learner has the opportunity;*
- *Allows sharing of case studies, problems and ideas;*
- *Allows for the use of various learning strategies.*

MEET THE TEAM

For further information, visit our website: www.ns4zebs.com.

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