

NS4nZEBs



Co-funded by the
European Union



**THOMAS
MORE** | UNIVERSITY
OF APPLIED
SCIENCES



CAMERA DI COMMERCIO
PADOVA
il futuro a portata di impresa



CHAMBER OF INSTALLATION SPECIALISTS IN
BULGARIA · "TOGETHER WE CAN DO MORE"



New Skills for Nearly Zero Energy Buildings

The main objective of the project NS4nZEBs is to increase the number of skilled building professionals in the fields of PVs, smart electrical systems, heat pumps and energy storage, including small-scale applications for production of hydrogen in buildings at all levels of the building design, operation and maintenance value chain. This will lead to an increased application of new energy efficient and RES technologies that will support building capacity, stimulating investments and supporting implementation of policies focused on energy efficiency and small-scale renewables.

This objective will be reached through the development of new and upgrading existing training and qualifications courses for all types of professionals involved in the building value chain. This will be achieved by addressing the following focus areas:

- Skills for new and existing nearly Zero Energy Buildings (nZEBs) and bridging the gap towards Zero Emission Buildings (ZEBs).
- Skills for integration of renewable energy and efficient heating and cooling technologies, including in particular heat pumps roll-out; skills for installers to deliver heating and cooling upgrades as part of renovation projects.
- Digital skills supporting greater energy performance of buildings, in particular through an enhanced use of Building Information Modelling.
- Skills for upgrading the smartness of buildings for greater energy performance (based on the Smart Readiness Indicator), looking in particular at sensors, building controls and building management systems. Energy efficiency management.

This objective will be reached through:

- **Integrated approach:** The buildings are complex structures that have to be carefully planned in order to fulfil the needs of the users and to comply with the requirements of the legislation. All professionals involved in the planning, design and execution of the new technologies will be trained: architects, electricians and electrical engineers, HVAC technicians and engineers.
- **Innovative approach:** new teaching methods will be implemented including virtual labs for on-line practical exercises.
- **Flexibility:** the training materials and tools will be developed in modules and can be easily adapted to different needs and education levels.
- **Certification:** certification schemes defined in compliance with the standard ISO 17024 and a micro-credentials approach.
- **Labour market approach:** the training will be adapted to the needs of the labour market through the involvement of stakeholders from chambers of industry, VET providers and authorities.

For more information: <https://www.ns4nzebs.com/>



New Skills
for nearly
Zero Energy
Buildings



Co-funded by the
European Union



Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or CINEA. Neither the European Union nor CINEA can be held responsible for them.