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SMART ELECTRICITY FOR BUILDINGS

SEBCoVE – Launching a New Era in Smart Building Vocational Excellence

In a nutshell:
What is SEBCoVE?

The Smart Electricity for Buildings - Centres of Vocational Excellence (SEBCoVE) project aims to develop regional Vocational Excellence hubs (CoVEs) in the Smart Electricity for Buildings sector. The CoVEs will support the Smart Specialisation of their regions and establish international knowledge hubs for vocational education and training (VET) excellence systems. The ambition is to be world-class reference points for up- and reskilling of professionals engaged in the Smart Electricity for Buildings (SEBs) sector.

Top News

Kick-Off Meeting for SEBCoVE Project Launched in Heraklion, Greece

Project Key facts and figures

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Project key facts and figures

Countries: Germany, Greece, Italy, Netherlands, North Macedonia, Portugal, Spain
EU grant: €2.995.613,00
Project duration: 4 years
Lead organisation: Hellenic Mediterranean University
PARTNERS:
Germany: LDI
Greece:
- Hellenic Mediterranean University,
- European Centre in Training for Employment,
- TUV-Austria Hellas
- Chania Chamber of Industry & Commerce

Italy:
- Enaip,
- Comonext,
- Buildtech

Netherlands: Atermon
Portugal:
- INSTITUTO POLITECNICO DO PORTO
- DIGITALMENTE

Spain:
- CONAIF
- INFODEF
- MLAKOOP
- INSTAGI
- ZUBIGUNE

North Macedonia:
- CDSEPR
- SSKM
- EMKICE

Kick-Off Meeting for SEBCoVE Project Launched in Heraklion, Greece in April, 2024

The SEBCoVE project was initiated with a Kick-Off Meeting held in Heraklion, Greece. The Hellenic Mediterranean University (HMU), together with the European Center in Training for Employment (ECTE), organized the first meeting of the Smart Electricity for Buildings—Centers of Vocational Excellence (SEBCoVE) project. This two-day event inaugurated an ambitious effort to improve vocational education and training (VET) throughout Europe and create be world-class reference points for up- and reskilling of professionals engaged in the Smart Electricity for Buildings (SEBs) sector.

The SEBCoVE project (101144027), aims to create a network of vocational excellence centers focusing on the smart electricity industry. The kick-off meeting convened delegates from 21 partner organizations to deliberate on project management, strategic research, design, development, execution, quality assurance, and dissemination plans.

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The Current State of Advanced Electrical Sector Skills and HVET/VET in Europe and the World

The SEBCoVE project, part of the Erasmus+ initiative, aims to establish regional Centers of Vocational Excellence (CoVEs) in smart electricity for buildings. This report examines the current state of high vocational education and training (HVET/VET) and advanced electrical sector skills in Europe and globally. It highlights key areas such as energy management, building automation, occupant comfort, data analytics, security, privacy, and smart infrastructure integration.

Addressing deficiencies in vocational skills, the report provides recommendations for future improvements. It lays the foundation for smart electrification in buildings, emphasizing sustainability, efficiency, and occupant-centric solutions. With growing demand for skilled professionals in energy-efficient and intelligent buildings, SEBCoVE seeks to establish resilient, future-proof VET systems that support regional specialization.

Key Findings

Energy Efficiency and Management: Integrating renewable energy sources (RES) like energy storage systems (ESS) and photovoltaic panels is crucial to reducing carbon emissions and optimizing energy use. Regulatory frameworks, such as Germany's commitment to reducing energy consumption by 80% by 2050, play a vital role.

Building Automation and Control Systems: Automation technologies for HVAC, lighting, and other functions improve efficiency. Smart meters and advanced control algorithms enable responsive energy management.

Occupant Comfort and Well-Being: Enhanced indoor air quality, thermal comfort, and personalized control interfaces improve well-being. Region-specific strategies account for cultural and climatic differences.

Data Analytics, Privacy, and Security: Smart building success relies on data expertise, cybersecurity, and privacy measures. Educational programs must adapt to evolving needs.

Recommendations: The report stresses updating VET programs, fostering multidisciplinary collaboration, and ensuring strong regulatory frameworks. Regional analyses enable vocational excellence hubs, tailoring education to local needs.

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