ENEPLAN
Developing skills in the field of integrated energy planning in MED Landscapes

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ENEPLAN

DEVELOPING SKILLS IN THE FIELD OF INTEGRATED ENERGY PLANNING IN MED LANDSCAPES

In this issue:

- Project Summary
- Recent News
- Upcoming Activities
- ENEPLAN Special
- Project Details
- Project Partners

Project Summary

ENEPLAN project tackles the lack of interdisciplinary approaches in energy planning by focusing on the enhancement of capacities of future professionals (university students in their last years, and the newly graduated). Quite often, higher educational institutions (HEI) provide skills and competencies in renewable energy sources (RES), energy, planning and landscape in separate specializations, limiting the potential of an integrated approach. Moreover, energy efficiency strategies are often simplistically traced to a mere list of technologies, while their elaboration should require the integrated development of technical skills and environmental and landscape sensitivities (especially in ecologically valuable contexts). These integrated skills need to be developed within a dedicated HE program. Hence, the project aims at developing collaborative open education resources (OER), which can be used to improve the capacities of teachers, students and researchers in energy planning from a sustainability perspective, and to foster collaboration among HEI, research institutions, public administration and business. The project consortium has been built accordingly, involving 18 partners who can provide significant contributions according to their perspective and specific expertise: universities, research centers and energy agencies.

Recent News

Thematic Workshop 2, Valletta, May 2-6 2017

Malta Intelligent Energy Management Agency hosted the second thematic workshop of the project about technological innovation in renewable energy production.
Meetings were held over five days. Partners presented various case studies about innovative renewable energy technologies in their respective countries.
Finally, with the guidance of Flavio Camerata from Roma Tre, two exercises on the C-map were completed after extracting concepts from the theme of the workshop. These exercises were used to develop further the C-map 1 for ENEPLAN.

Read more...

Thematic Workshop 1, Seville, December 12-16 2016

The University of Pablo de Olavide in Seville hosted the first thematic workshop of the project about environmental and landscape assessment.
Meetings were held over five days. Partners presented procedures and methodologies for environmental and landscape assessment for renewable energy plans and projects as required by national laws or currently implemented in their respective countries including case studies and examples.
The University of Pablo de Olavide with Roma Tre staff also presented the procedures defined by EU directives: Environmental impact assessment for large projects (EIA Directive 2014/52/EU) and Strategic Environmental assessment for projects and plans (SEA Directive 2001/42/EC) for the whole consortium.
Finally, with the guidance of Flavio Camerata from Roma Tre, two exercises on the C-map tool were completed after extracting concepts and build up domain of knowledge on environmental/landscape assessment.

Read more...

Upcoming Activities

Thematic Workshop 3, Siena, September 25-29, 2017

Four thematic workshops in Programme countries are prepared for the project. The first thematic workshop was held in Seville at the University of Pablo de Olavide. The theme of that workshop was environmental and landscape assessment.
The second workshop held in Malta had 'RES and New Technolgies for Energy Production' as a theme. The third one will be hosted by the University of Siena (Italy) and will include presentations on Life Cycle Assessment. Two more exercises on the Concept map will be also completed.

ENEPLAN Special

Transferência da metodologia Cmap
5 dias de formação dirigida a professores para transferência e aprendizagem da metodologia e ferramenta Cmaps.
Roma, 14-18 de março de 2016.

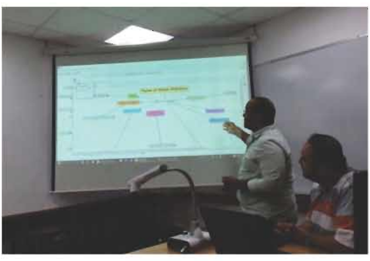
ENEPLAN project presented by the University of Algarve in Faro, Portugal

During the Green Rehabilitation seminar/open class held on February 13, 2017 at the Higher Institute of Engineering (organized by Portal da Construção Sustentável), the University of Algarve presented the ENEPLAN project as a good practice of a European cooperation project which applies the Cmap software as an innovative educational tool in the field of energy planning.

Read more:
http://www.csustentavel.com/aula-aberta-universidade-do-algarve/

Seminar on C-map for Students at the Architecture and Design Department - Jordan University for Science and Technology (JUST)

On March 29, 27 graduate students from architecture, urban planning and environmental design majors at JUST were introduced to C-map as a graphical tool for organizing and representing the concepts related to their respective studies.
Students brainstormed and completed C-maps representing their ongoing research proposals and theses.



Application of C-map by Graduate Students in Water and Environmental Studies at Ain Shams University, Egypt

During the first semester of the academic year 2017 extending from September till January, ten graduate students were taking a course on water pollution management with Dr. Hoda Soussa. Students used the tool of Cmaps to summarize the course lectures, each in one Cmap. By the end of the course, all the maps were integrated in one Cmap constituting a reference for water pollution management. During the second semester, the students used Cmap on their own to analyze and explain their case studies on solid waste managment under the supervision of Dr. Hoda Soussa.

Project Details

Main Objectives

- Fill a gap in higher education programs, focusing on RES development and planning.

- Respond to the emerging need for a professional profile able to work with an interdisciplinary approach that integrates urban and regional planning, environmental impact assessment and landscape design on one hand, and energy planning and RES development on the other.

- Merge the theoretically separated disciplines in an organic framework for the definition of effective and sustainable implementation strategies, following a holistic approach in which Environment, Technology, Planning and Landscape move together towards an increasingly integrated vision.

- Respond to the need for interdisciplinary educational tools in this field, through the development, testing and circulation of collaborative "Concept maps" as Open Educational Resources.

Concept maps are a way of representing relationships between ideas, images, or words, and, as OERs, they can be a useful tool for teachers, students and researchers, and enterprises.

Main Outputs

ENEPLAN envisages the development of OER, open-licensed material that can be freely used, diffused, improved and exchanged by users.

The project is divided into 5 main work packages (WPs) extending over 3 years:

- WP 1: Preparation
- WP 2: Development
- WP 3: Quality Plan
- WP 4: Dissemination and Exploitation
- WP 5: Management

The main outputs of the project are as follows:

- State of the art and case studies report which aims to present a preliminary assessment of energy planning in each country and the education offer available at the participating universities. (WP1)
- Online platform that includes Cmaps and GIS database from all partner countries (WP1)
- Cmap 1.0 – basic conceptual map OER in English, later upgraded to Cmap 2.0 by incorporating the results of the thematic workshops on energy planning and GIS tools; environmental and landscape assessment; RES new technologies; Life cycle analysis and energy potential; innovation, applied research and relationships with SMEs. It will be released in English and Arabic. (WP2)
- Final conference proceedings (as guidelines for integrated energy planning) (WP4).

In order to achieve these outputs, several workshops will take place: four thematic workshops in Programme countries, and 2 training workshops in Partner countries.
The first training workshop will be held in Cairo and will be dedicated to the finalisation of the C-map on integrated energy planning. The second will be held in Amman in 2018 and will include 10 students from each partner country to train them on the C-map methodology and test the maps produced during the project as a teaching tool.
The final conference will be held in Beirut at the American University of Beirut in October 2018.

Read more...

Project Partners

Italy

Universitàdeglistudi Roma Tre
Universitàdeglistudi di Siena
Universitàdeglistudi di Camerino

Malta

Malta Intelligent Energy Management Agency

Portugal

Universidade do Algarve

Spain

Universidad Pablo de Olavide

Lebanon

American University of Beirut
Lebanese University
ALMEE
Medgreen

Egypt

Zewail City of Science and Technology
Ain Shams University

Jordan

Al-Balqa' Applied University
Jordan University of Science & Technology
Princess Sumaya University for Technology
University of Jordan
University of Petra
National Energy Research Center - Royal Scientific Society

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