ZEROCO2 – PROMOTION OF NEAR ZERO CO2 EMISSION BUILDINGS DUE TO ENERGY USE

"Greening the building sector through enhancement of various eco-friendly energy, technologies, services and business models."

Energy transition of buildings – an opportunity

The EPBD directive stipulates that after 2020 all new buildings must reach near-zero net-energy status, while new and renovated public buildings will reach near zero energy by 2018, to lead by example. Although there has been much recent focus on measures to reduce the emissions from new buildings, the existing building stock remains largely untouched and many refurbishment projects miss opportunities to reduce emissions and deliver low CO2 buildings. The Interreg-Europe ZEROCO2 project will define near zero CO2 emission buildings due to energy use (NZCO2EB) and present the various benefits which result from this type of building. Through interregional cooperation, regions will identify, share and transfer innovative methodologies, technologies, processes and good practices in developing and implementing near zero CO2 emission buildings due to energy use policies, targeting new constructions or retrofitting existing buildings.

Second partner meeting in Berlin (14-15 Sep. 2016)

The partners including the Maltese partner UOM presented their regional study reports regarding the use of Renewable Energy Sources (RES). An interesting point is the high reliance on the use of biomass sources to meet RES targets for most of the partners in the ZERCO2 project. In addition, Crete which has a similar climate as Malta, has a higher contribution of renewable energy from solar water heating than from photovoltaics, unlike the scenario in Malta. A case study of a NZCO2EB building in Malta – a boutique hotel - was also presented. It was shown that the hotel's main consumption is for hot water and that a 75 % reduction in CO_2 emissions for the hotel versus a reference scenario is possible. This reduction in emissions is mainly achieved by the installation of PVs on the roof and façade, and by the replacement of electric water heaters with air to water heat pumps. The resulting payback period is approximately 9 years.

News:

The second partner meeting was held in Berlin, Germany and was organised by the EIFI from 14th to 15th Sep. 2016.

The first stakeholders meeting was organised on 29th Sep. 2016 at UOM Valletta Campus in order to involve the stakeholders to the project and to present the first results. A memorandum of understanding was signed between UOM, and the main stakeholders - the Energy and Water Agency and the Building Regulation Office.

The second stakeholder meeting was organised on 24th Nov. 2016 at UOM ISE, Marsaxlokk in order to discuss/analyse and perform a SWOT analysis of the policies supporting renewable energy and energy efficiency in Malta.

Case study of a boutique hotel in Malta to NZCO2EB has been uploaded on youtube: https://www.youtube.com/watch?v=GtV-QUtoVxc

ERDF Funds:
€ 1,227,957.00

Project duration
Apr. 2016 - Mar. 2020

Upcoming events:

A regional workshop will be organised on 23rd Feb. 2017

ZEROCO2 Interreg Europe
EU funds for Malta 2014 2020
Interreg Europe
European Union | European Regional Development Fund

First stakeholders meeting

The first stakeholder meeting took place on the 9th September 2016 at the UOM Valletta Campus. Various stakeholders were invited and attended the meeting including the Energy and Water Agency and the Buildings Regulation Office. A memorandum of understanding was signed with these two entities for this project. A brief review of the ZEROCO2 project aims were presented including the presentations given during the second partner meeting in Berlin, which were critically discussed.

Second stakeholders meeting and way forward

The second stakeholder meeting took place on the 24th November 2016 at the UOM ISE, Marsaxlokk. Various stakeholders attended the meeting. The aim of this meeting was to analyse the policies supporting energy efficiency and renewable sources in Malta. A SWOT analysis was carried out, by first identifying the drivers, barriers and opportunities in retrofitting of public buildings to NZCO2EB and then identifying different ways and measures of how the identified barriers can be overcome and the drivers and opportunities strengthened. The stakeholders were invited to fill in a questionnaire to identify which of the various policies should be given priority to aid in the transition to NZCO2EB. Based on the second stakeholders meeting a regional policy report will be published by March 2017. A regional workshop will be organised on 23rd February 2017. Details about the event will follow and will be available on the social media.

For more information:

Eur Ing Dr Charles Yousif
or
Ing. Damien Gatt

Institute for Sustainable Energy
Barrakki Street
Marsaxlokk
MXK 1531
Malta

charles.yousif@um.edu.mt
Tel. 2340 7831
damien.gatt@um.edu.mt
Tel. 2340 7847

Website:
http://www.interregeurope.eu/zeroco2/

Facebook:
https://www.facebook.com/ZeroCo2-Interreg-Europe-Project-1112926325417193/?fref=ts

LinkedIn:
https://www.linkedin.com/groups/8538366

Twitter:
https://twitter.com/ZeroCo2_Project

Project Partners:

Lead Partner: 1. LOCAL ENERGY AGENCY SPODNJE PODRAVJE (Slovenja)

2. MEDITERRANEAN AGRONOMIC INSTITUTE OF CHANIA (Grecja)

3. MOLISE REGION (Italja)

4. MUNICIPALITY OF KAUNAS DISTRICT (Litwanja)

5. EUROPEAN INSTITUTE FOR INNOVATION (Germanja)

6. THERMOPOLIS LTD. (Finlandja)

7. AGENCY FOR SUSTAINABLE MEDITERRANEAN CITIES AND TERRITORIES (Franza)

8. UNIVERSITY OF MALTA (Malta)

University of Malta
L-Università ta' Malta