

# Market Needs Reviews



Market Needs Reviews for each of the partner regions were created by either the Green Angel Syndicate or the partners themselves to explore the viability of and need for zero CO2 buildings in each region. As an example, one of the three reports provided by the Green Angel Syndicate suggests that in Crete, "very little is happening" in terms of efforts to reduce CO2 emissions, and public policy must adapt to encourage investment in energy efficient public buildings. In contrast, despite the concerns to improve air quality and humidity within both existing and future zero CO2 buildings, Finland is relatively progressive in their approach to zero CO2 buildings—there are already sufficient funding mechanisms in place to incentivize energy-efficiency education and technology. These reports provide scope and insight to ZEROCO2 partners as they develop the optimal methods of implementing zero CO2 public buildings in their regions.

## What is ZEROCO2?

The overall objective of the ZEROCO2 project is to improve regional energy policies with regards to environmental sustainability and mitigation of climate change risk. This project will represent and implement zero CO2 emission public buildings (NZCO2EB) and social housing, which means that such buildings will not produce CO2 emissions in their use.



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# ZEROCO2



2016-2020





*GP example of energy renovation of primary school Anica Černejeva Makole in Slovenia*

## Good Practice Guidelines

A Good Practice (GP) Catalogue, developed within the INTERREG EUROPE Project ZEROCO2, contains innovative practical examples of policy and already existing near zero emission buildings. The catalogue is designed to provide new, specific ideas that can be transferred among the partners or to regions.

### Good Practice Examples

#### LEA Spodnje Podravje (Slovenia)

Through their projects on energy renovation of primary schools, kindergartens, health centres and libraries owned by local communities, LEA renovated 7 buildings with the total heating surface of 4.408 m<sup>2</sup> (with

**MAICH (Greece)** ZEROCO2's partner in Crete is creating zero CO2 emission residential commercial buildings using energy that is not interconnected with the electric grid.

**Molise Region (Italy)** The Molise Region has implemented low enthalpy geothermal heat pumps for heat generation, specifically in a school gym, to reduce energy consumption by 30%.

**Thermopolis (Finland)** In 2012, a regional climate strategy co-written by Thermopolis, the energy agency of South Ostrobothnia, was officially accepted in each of the 8 participating municipalities.

**Kaunas (Lithuania)** From 2015 to 2017, a German-Lithuanian cooperation project has been dedicated to energy-efficient redevelopment of urban areas. This project serves as an excellent GP example, as it is suitable to transfer not only to other regions but also to other countries.

**University Malta** One GP example coming out of Malta is the renovation of a school to become a zero-carbon, positive renewable energy producer. The school is being monitored to produce a final Best Practice Guide for renovation of schools in Malta.



*Unglazed pool solar thermal system & PV overhangs (Malta)*

**AVITEM (France)** In AVITEM's Provence Alpes Côte d'Azur (PACA) Region in France, social

housing has been rehabilitated to reach low energy building objectives. Due to this successful practice, the program was renewed for a 3rd phase, which began in 2017.

## Action Plans

### What is an Action Plan?

Produced by each regional partner, action plans detail how the lessons learned from previous projects will be used to improve policy instruments within each region. Action plans specify the actions to be implemented, their timeframe, the players involved, and potential costs and funding sources.

A highlight from MAICH's action plan, for example, is their proposal to adopt a best practice for information and education from their high-performing partner region, South Ostrobothnia. Thermopolis of South Ostrobothnia, on the other hand, mainly outlines their goal to impact the Regional Strategy of South Ostrobothnia policy instrument.

At this point in time, all partners have finalised their action plans, which are now ready to be implemented as we move into the next project phase.