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WHAT IS IPA Adriatic CBC Programme?

The IPA Adriatic Cross-border Cooperation Programme (www.adriaticpacbc.org) is the result of joint programming work carried out by the relevant participating countries and is part of the cooperation process in the Adriatic area. The Programme draws its strength and incisiveness from the wide experience, gained during the previous Programme period producing concrete results from the studies and analysis financed in the past. Many factors make cooperation in the Adriatic area important today, particularly from a political and economic point of view:

- Factors connected to geographic and cultural proximity which make possible the intensification of multilateral relationships among Adriatic coastal regions to support local processes of harmonious growth, sustainable development and unity among peoples.
- Factors connected to the political stability of the area. Following ten years of conflict, the area is now moving towards progressive integration both "vertical" (within European and International institutions) and "horizontal" through the creation of a free trade area.



LEGEND - Low Enthalpy Geothermal Energy Demonstration



legendcod128



LEGEND

LOW ENTHALPY GEOTHERMAL ENERGY DEMONSTRATION

FROM EARTH TO PEOPLE
www.legend-geothermalenergy.eu

The project is co-funded by the European Union,
Instrument for Pre-Accession Assistance



WHAT IS GEOTHERMAL ENERGY?

Geothermal energy is one of the most environmentally-friendly and cost-effective energy resources in use and has the potential to help mitigate global warming if widely deployed in place of fossil fuels.

Recent technological progresses, the variability of cost and the difficulty of oil and gas supply, the need to reduce fossil fuels, to cut pollution and our reliance on supplies from foreign countries, have made the exploitation of geothermal energy, especially low-enthalpy power generation utilizing GCHP (Ground Coupled Heat pumps) an attractive and viable alternative, especially for applications such as home heating and cooling, opening a potential for widespread exploitation, such as to curb energy consumption of residential buildings, industries and SMEs.

Since it is not dependant on the presence of hot-water deep basins, the low enthalpy power generation utilizing GCHP can be exploited everywhere, with the help of a ground-source heat pump from the soil by using borehole heat exchangers.

ENCOURAGING GCHP STRATEGIES IN PUBLIC BUILDINGS

40% of the energy consumption (and 36% of GHG emissions) produced in EU is absorbed by public and private buildings. In this share, 2/3 of the energy consumption is used for heating and cooling purposes. This means that buildings, along with transport and industry, represent one of the key sectors within all strategies that aim to save energy and to reduce GHG emissions, and to tackle the 20-20-20 EU objectives for the «sustainable use of resources».

Public buildings can give a good example, also considering that 12% of the European building stock is owned by public authorities. The Directive 2012/27/UE, issued on the 25th October 2012, encourages public administrations to invest resources to achieve at least the minimum energy performance requirements that are set by the Directive on Energy Performance on Buildings (2010/31/EU).

WHAT IS LEGEND?

LEGEND is a European project co-financed by IPA Adriatic CBC Programme. Its overall objective is the promotion of energy efficiency concepts and the low-enthalpy geothermal energy benefits in the Adriatic area through:

- 10 demonstration cases utilizing GCHP in public buildings of Italy, Croatia, Albania, Montenegro and Bosnia-Herzegovina;
- SWOT analysis pre-investment surveys and Life Cycle Analysis methods to support the public administration to choose the most effective and environmental-friendly heat pump technologies;
- Thematic workshops to increase the knowledge among general public and private stakeholders over the most representative best practices in GCHP technology at European level for residential, public and industrial buildings;
- Technical seminars to enhance the know-how in GCHP techniques and skills of all relevant actors (energy managers and specialized stakeholders from public and private sectors);
- Political and technical memorandum and guidelines to harmonize normative frameworks, to improve a better understanding of GCHP benefits and promote investments of geothermal energy in public and private sectors.

PARTNERS



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