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HELLENIC REPUBLIC
REGION OF EPIRUS

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Epirus: geographic & administrative region in northwestern Greece.

Area

9,200 km²

Population

336,856

Regional Units

Ioannina

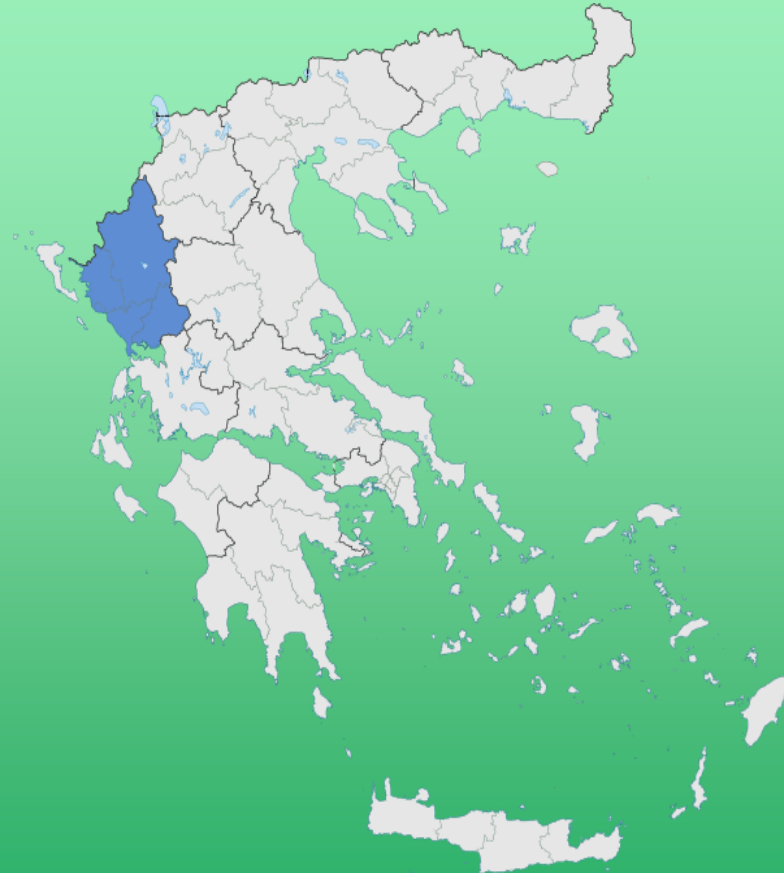
Arta

Preveza

Thesprotia

Capital

Ioannina





Region of Epirus

The total area of the region is 9.203 square kilometers, of which

14% is agriculture land

52% is covered by grassland

26% is forest

3% represents the surface waters,

built up areas and other uses account for the remainder of the land.

74% of the region, is mountainous areas.

Energy profile

Energy consumption accounts for a big portion of budgeted expenses, mainly for public use buildings and resources. Conventional fuels are largely used and the winter period is always characterized by a seasonal peak of energy use due to adverse climatic conditions. The reduction of energy use and the exploitation of the potential renewable energy constitute two major issues for the region.





Region of Epirus

Single decentralised administrative unit with the power to ensure that the National Development Policy is implemented on a regional level.

Region's main competences

- planning and coordination of regional policy
- environmental protection
- infrastructure development in transportation, agriculture & water resources
- development of transregional and transnational cooperation

Regional Operational Programme of Region of Epirus

The official document that includes the Region's strategy in contributing to the EU's strategy towards a smart, sustainable and without restrictions growth and the achievement of economic, social and territorial cohesion.

Region of Epirus- Leading by example

..over the years has implemented various cross-border cooperation projects in the field of energy and gained significant experience

Just to note some...

Alterenergy : energy sustainability for Adriatic Small Communities (IPA Adriatic CBC Programme 2007-2013)

G.AL.E.T.: Greece/Albania Energy Tourism (IPA Cross Border Programme “GREECE – ALBANIA 2007-2013)

G.A.T.E.: Greece –Albania Transectoral Energy (IPA Cross Border Programme “GREECE – ALBANIA 2014-2020)

ELENA : Contract of Region of Epirus with the EIB(European Investment Bank) for the funding of Project Development Services entitled «Efficient Eco-friendly Transportation, Public Lighting and Buildings in the Region of Epirus» (launched at 01.08.2016)



Duration 4 years (launched in September 2011)
18 organizations in the Adriatic area.

Vision: to promote sustainability in small Adriatic communities through an integrated approach for the efficient use of energy and its production from renewable sources.

Among the most important actions:

Sustainable Energy Action Plans focused on a limited number of target communities in each Region

Business and investments support aiming to develop mechanisms of integration between the Territorial Cooperation and the business approach, exploiting the economic cooperation potential in the IPA area

Pilot Project and Demonstrative Actions implementation: realization of pilot interventions that will practically demonstrate the effectiveness of the developed approaches to energy sustainability in small communities.

The Alterenergy project in Epirus



Selected community: Igoumenitsa, Thesprotia

1. Analysis of the energy situation (needs and resources' availability)-Feasibility Studies on the energy field
2. Networking and internationalization of local SMEs in the energy field through dedicated b2b meetings in the selected communities of the project implementation area.
3. Investments and collaboration opportunities favored and multiplied.
4. Demonstrative action: Installation of a geothermal heating pump at a public building, the premises of the Regional Unit of Thesprotia that covered a great percentage of the heating and cooling needs of the building.



The main objective of the GALET project was the incorporation of a green component in tourism in the trans-boundary area of Greece – Albania

Priority axis: 2. Promotion and development of the environment and natural and cultural resources

Measure: 2.1 Promotion and protection of the environmental resources of the area

Overall Lead Partner & Financial Lead Partner: Region of Epirus

Financial Lead Partner 2: Ministry of Energy and Industry

Partners: Region of Ionian Islands, Region of Western Macedonia, Centre for Renewable Energy Sources and Saving, Centre for Research and Technology Hellas / Chemical Process and Energy Resources Institute

Budget: 4.004.141,40 €

The interventions in Regional Authority of Epirus Building



- Installation of new high energy performance central heating/cooling system for the 1st and 2nd floor of the building
- Installation of Geothermal Heat Pump and closed circuit Ground Heat Exchangers for heating/cooling the semi-basement.
- Environmental upgrading of the surrounding area, including pedestrian walks, green zones and public lighting
- Installation of autonomous PV system
- Heat insulation of the inside of the external walls.

Main Outputs:

1. Savings in operation costs of heating/cooling
2. Highlight of three(3) different forms of RES (geothermal, Solar and wind), in local society and visitors



Interreg - IPA CBC Greece - Albania **G.A.T.E.**

- Capitalizing the G.A.L.E.T. results, a new project G.A.T.E (Greece Albania Trans-sectoral Energy)
- The project will elaborate an appropriate jointly develop approach to mobilize local businesses and residents for their effective involvement into the sustainable energy development
- Further interventions in Regional Authority of Epirus Building
- Acronym: G.A.T.E.
- Project title: Greece Albania Trans-sectoral Energy
- Priority axis: 1-Promotion of the environment, sustainable transport and public infrastructure
- Specific Objective: 1.3- Increase energy-efficiency and the use of RES
- Lead Partner : Centre for Renewable Energy Sources and Saving
- Beneficiary Partners: Region of Epirus, Ministry of Energy and Industry
- Budget: 600.000 €

GATE's project
interventions in Epirus

Small scale investment for the installation of RES and energy efficiency systems in order to convert the Region of Epirus Directorate to a Nearly Zero Energy Building(NZEB)

Analytically:

- Installation of LED lighting to the façade of the building, the windows, the entrance and perimetrically.
- Installation of LED lighting to the corridors and stairways.
- Installation of a Building Management System(BMS) in order to manage air conditioning and energy consumption.

ELENA- European Local Energy Assistance Facility

ELENA- European Local Energy Assistance Facility is set up by the European Commission and the European Investment Bank(EIB) under the sustainable Energy Financing Initiative (Horizon 2020 Programme).

Region of Epirus contracted with EIB(European Investment Bank) for the funding of Project Development Services entitled «Efficient Eco-friendly Transportation, Public Lighting and Buildings in the Region of Epirus» (launched at 01.08.2016)

Current state of play and challenges in Region of Epirus:

- **Region of Epirus has under its jurisdiction the Regional network of roads, which includes more than 34.000 lighting poles with energy intensive lamps.**
- **Region of Epirus,in cooperation with its Municipalities, participate in the initiative «20-20-20» of EU and their goal is to harmonise with the EU regulation 245/2009 and 1194/2012 for the mandatory replacement of polluting lamps with new generation lamps till 2020.**
- **The majority of Public buildings in the Region are old with high energy consumption indicators. There is a wide margin for interventions regarding heating, air conditioning, lighting, and building ventilation.**
- **The lake Pamvotida is a reference point in Region of Epirus, due to its vicinity to the capital Ioannina and its picturesque landscape. There is a ship connection of the inhabited island of the lake with Ioannina. The ships are old, energy intensive and with high carbon footprint. Also the transport services across the lake are outdated and of low quality.**

ELENA- European Local Energy Assistance Facility

In order to address the beforementioned challenges three large infrastructure projects are being designed and prepared according to PPP(Public-Private Partnerships) legislation. Currently in preparation of tenders.

1. Modernization by using LED lighting of the National and Regional road Network of Region of Epirus. Moreover installation of LED urban lighting in the Region's cities.(Igoumenitsa, Parga, Preveza and Arta). In both cases smart control systems of the networks will be facilitated.
Budget: 38 million €
 - Expected Savings: 60%
1. Increase in the energy efficiency and use of RES in Public buildings across the Region(hospitals, Schools, Sport facilities and Administrative buildings). **Budget:12,6 million €**
 - Expected Savings:25%-60% (depending on the building)
2. Gentrification of lake Pamvotida with improvements and extensions in port infrastructures and replacement of old lake ships with new hybrid ones. **Budget: 1,7 million €**
 - Expected Output: Reduce in Carbon footprint

Total Budget: 63,3 million €

Technical Assistance: 1,67 million € (fully covered by EIB)

Regional Operational Programme of Region of Epirus

The thematic Objective addressed with RESOR project is TO4 “Promoting energy efficiency and production and use of renewable energy”. The aim is to promote energy efficiency and use of renewable resources, especially in public infrastructures and housing including social housing and low-carbon strategies for the region, including urban areas.

Currently the TO4 does not include any focus targeting energy efficiency and use of renewable resources in businesses specifically. The Region of Epirus considers important to promote changes in energy efficiency and use of renewable resources also in companies operating in the industrial system and in the service sector. Improvements are thus needed to include energy efficiency standards and prove that businesses energy investments in energy efficiency result in significant energy savings, economic opportunities and cultural value.

Expectations for Resor Project

Region of Epirus has two targets to achieve through the project.

First, a new measure to be included in TO4 dedicated to support energy efficiency among companies. Through interregional learning and cooperation, Region of Epirus will exchange knowledge, strategies and experiences to learn how to best design, structure and implement such a new measure.

On the other hand, the productivity indicators currently in use in ERDF would be integrated with others related to energy efficiency and the interregional learning will allow to better understand how to formulate those indicators and their monitoring methodology.



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Thank you!

Questions welcome