

5th Interregional Event DOSSIER





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Introduction

The exchange of experiences is the key factor in the learning process of FINERPOL. This intense work of identification and sharing of best practices through permanent cooperation will project's objective and to produce the intended outputs and results.

The exchange of experience among partners is an interregional learning process. The typical activities supported under interregional cooperation projects are activities such as seminars, workshops, site visits, staff exchanges, peer reviews. The learning process is based on the identification, analysis and exchange of knowledge and practices in the policy tackled by the project.

Interregional cooperation projects need to analyse the experiences and/or practices exchanged within the projects and disseminate the most interesting findings.

The exchange of experiences process will benefit from the participation of partners representing entities with different experiences in the field of FI for Energy using ERDF funds, the partnership includes mainly MAs with competences both in the Management of ERDF funds and in the policies identified in the project, but also technical expert institutions allowing a good technical approach while ensuring the involvement of ERDF funds in the implementation of actions and a direct impact in policies. Local stakeholders groups, chosen by each partner, representing local bodies, banks, associations, companies, authorities,... will be involved in both Local and Interregional meetings and study visits to provide inputs to the Project.

5th Interregional Event of FINERPOL

In this framework, the fifth Interregional Event took place in Kozani (Greece) on May 3rd and 4th 2017. It was organized by the Western Macedonia University of Applied Sciences (TEIWM).

Representative examples of sustainability, efficiency, utilization of renewable energy sources (RES) and of successful Public-Private Partnerships (PPP) in Western Macedonia were selected as study visits. Thus, the sites visited were the Mpodosakeio Hospital of Promelaida (EEA Grants RES project) and the West Macedonia Solid Waste Management System - EPADYM SA (PPP - Jessica Project).

During these visits, experiences were analyzed and shared in different fields, such as the integration of solar thermal panels in special-use buildings (hospitals) and the complexity and legislative process of PPP projects.

Within the framework of this event, the Workshop "EU Financial Instruments: Supporting projects in Western Macedonia" took place, where stakeholders attended specific practices related to FIs, ERDF funding in EE and best practices from abroad.



Event summary

Date: May 3rd and 4th, 2017

Location: Kozani (Greece)

Agenda

Wednesday, 3rd May 2017

Time	Activity	Location
10:00	Welcome and Registration	TEIWM, Kozani, Greece
10:15	Interregional Workshop “EU Financial Instruments: Supporting projects in Western Macedonia”	TEIWM Central Amphitheatre, Kozani, Greece

Thursday, 4th May 2017

Time	Activity	Location
9:00	Study visit I	Mpodosakeio Hospital, Ptolemaida, Greece
11:30	Study Visit II	West Macedonia Solid Waste Management System - EPADYM SA (PPP), Kozani, Greece



Interregional Workshop “EU Financial Instruments: Supporting projects in Western Macedonia”



May 3rd, 10:00h-13:30h

TEIWM Central Amphitheatre, Koila, Kozani, 50100, (Greece).

The Western Macedonia University of Applied Sciences (TEIWM) organized an international workshop, composed by stakeholders and other interested parties, in order to exchange specific experiences related to financial instruments , ERDF funding in Energy efficiency and policy.

This workshop fits into the project FINERPOL - Financial Instruments for Energy Renovation Policies, which aims to promote new policies, in order to give financial support to the activity of energy renovation of buildings, especially Financial Instruments (FIs) supported by ERDF funds and integrated with EC funding initiatives, such as EFSI (Juncker Plan), tools from the European Investment Bank EIB, or even from public-private partnerships.

Among the speakers were included representatives of:

- Western Macedonia Regional Authority
- TEIWM
- Centre of Research and Technology Hellas (CERTH)
- Greek Government & Infrastructure Advisory, Grant Thornton.
- Western Macedonia municipal authorities (Kozani, Ptolemaida).

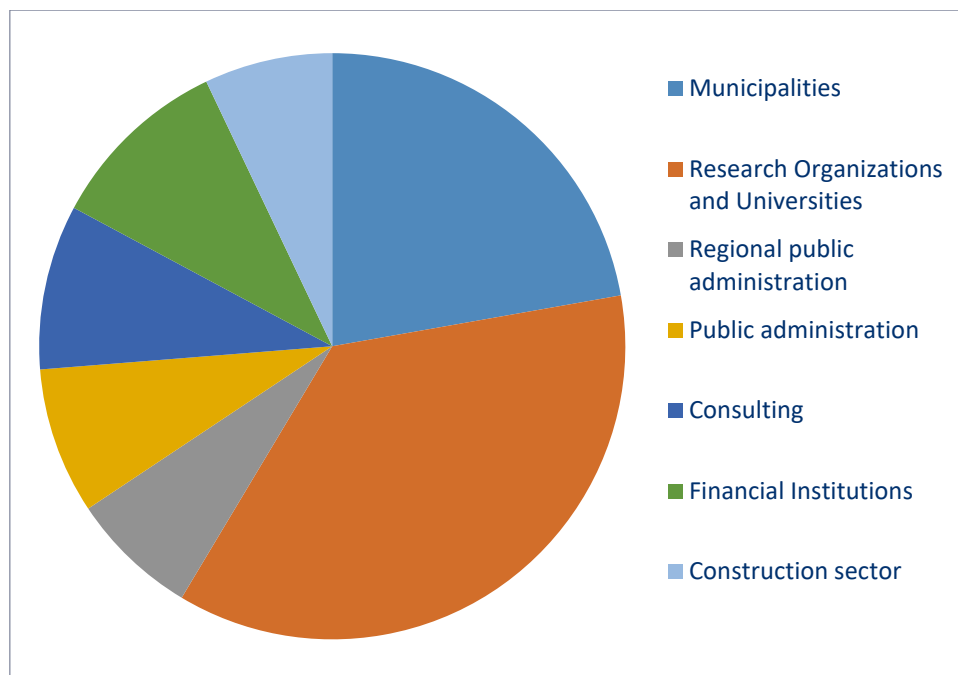
With these instruments, the Region seek to achieve the European Union environmental and economic targets for 2030, following the path marked by the Regional Operational Program (ROP-RWM).

The workshop was attended by almost 100 stakeholders and 230 students with representation of



different sectors: public administration, regional public administration, municipalities, financial institutions, research organizations, construction sectors, consulting companies, etc.

The percentage distribution can be seen in the following image:



AGENDA

10:00 – 13:00, Interregional Workshop “EU Financial Instruments: Supporting projects in Western Macedonia”

TEIWM Amphitheater, Koila Kozanis

10:00 – 10:15 Registrations of the participants

10:15 – 10:30 Welcome and Introduction to FINERPOL

Dr Nikolaos Asimopoulos, TEIWM Rector,

Dr Dimitrios Stimoniaris, Panel Moderator

10:30 – 11:30 1st part:

1) Dimitrios Stimoniaris, Dimitrios Tsiamitros, TEIWM

“Synergies of Financial Instruments for the energy refurbishment of the public buildings in the Grevena prefecture, IPA Cross Border – MED – RWM ROP– Sustainable Urban Development”

2) Nikolaos Margaritis, CERTH / CPERI ,

“Integrated RES Actions towards Development of the Local Community of Grevena”, funded from EEA-Grants

3) Haralampos Kiourtsidis, Head of Managing Authority of Regional Operational Program 2014-2020,



“Financial Instruments and RWM Regional Operational Program 2014-2020”

11:30 – 11:45 Coffee Break

11:45 – 13:00 2nd part:

Dr Dimitrios Tsiamitros, Panel Moderator

- 1) Apostolos Papadopoulos, Senior Partner, Government & Infrastructure Advisory, Grant Thornton Greece,

“Jessica experience & other Financial Instruments for Sustainable Urban Development Projects in Western Macedonia”

- 2) Konstantinos Despotidis, Municipality of Kozani

The case of Kozani City Sustainable Urban Action Plan - “In search of additional Financial Instruments”

- 3) Nikolaos Kouroumplis, Municipality of Eordaia

The case of Ptolemaida City Sustainable Urban Action Plan - “In search of additional Financial Instruments”

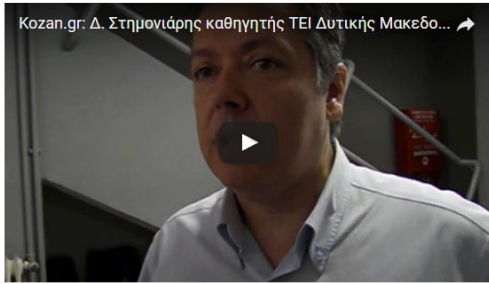
- 4) Representatives of other Municipalities of the Western Macedonia Region
- 5) Panel and Audience Debate on 2nd Part Theme

13:00 – 13:20 Finerpol Press Conference

13:20 – 14:30 Networking Light Lunch



Photos







Study Visit I – Mpodosakeio Hospital, Ptolemaida (EEA Grant for RES)

"Hospital with over 200 beds with one of the biggest thermal solar installation for buildings in Greece"



May 3rd, 09:00h-11:30h

Mpodosakeio Hospital, Ptolemaida, It is the biggest hospital in the West Macedonia Region almost 240 beds and 20.000 m²). The project and facilities were explained by Mr Periklis Kosmoliaptsis, head of the Technical staff of the hospital.

Project description

The Mpodosakeio hospital is the biggest hospital of Western Macedonia with almost 240 beds covering 22.000 m² of area. The energy consumption profile of the hospital, before any interventions, is summarized in the following table:

ENERGY SOURCE	ANNUAL ENERGY CONSUMPTION	PERIOD OF CONSUMPTION
DISTRICT HEATING (BY THE COIL-FIRED PLANTS)	2.579 MWh	Oct-Apr (7 months)
DIESEL	140 tns	12 months
ELECTRICITY	2.026 MWh	12 months

The energy that is used for heating is analysed as follows:



ENERGY SOURCE	USAGE	ANNUAL ENERGY CONSUMPTION	PERIOD OF CONSUMPTION
DISTRICT HEATING (BY THE COIL-FIRED PLANTS)	ROOM HEATING	2.447 MWh	Oct-Apr (7 months)
DISTRICT HEATING (BY THE COIL-FIRED PLANTS)	WARM WATER	152 MWh	Oct-Apr (7 months)
DIESEL	WARM WATER	94 MWh	MAY-SEP (5 MONTHS)
DIESEL	STEAM PRODUCTION	1.026 MWh	12 MONTHS

The electricity consumption is analysed as follows:

ENERGY SOURCE	USAGE	ANNUAL ENERGY CONSUMPTION	PERIOD OF CONSUMPTION
Public Power Corporation (Electricity)	Cooling	177 MWh	MAY-SEP (5 MONTHS)
Public Power Corporation (Electricity)	Various usage	1.849 MWh	12 MONTHS

Solar collectors to cover 100% warm water production.

The installation of thermal solar collectors is selected, for the replacement of diesel energy source for heating water for the patients needs in warm water during the summer period (94 MWh).

In cases of surplus produced energy, an absorption cooler will support the air-cooling system, during summer or the district heating system during winter.

The equipment is:

- 320 solar collectors of total surface 900 m².
- Absorption cooling unit of 264 kWc.
- District heating supporting unit of 540 kWth.





Results

The installation is now in testing phase. The expected savings are analyzed below:

Usage	Renewable energy production annually	Savings (annually)
Warm water (previously DIESEL)	78,51 MWth	96,3 %
Warm water (district heating)	158,22 MWth	
Energy for air-cooling	35,59 MWe	20,1 %
Room heating support	109,7 MWth	4,5 %
Description	Annual quantity	Savings (annually)
CO2 Emissions reduction	180 tns	16 %



Photos







Study Visit II - RWM Solid Waste Management System - EPADYM SA (PPP - Jessica Project) , South Lignite Mine Field

“Successful PPP stories”



May 4th, 11:30h-13:30h

RWM Solid Waste Management System - EPADYM SA (PPP - Jessica Project), South Lignite Mine Field, Kozani, Greece. The project and facilities were explained by Mr Konstantinos Tsiopsias, DIADYMA SA (Main beneficiary of the PPP).



The PPP with the title EPADYM SA that operates now the facilities of the mechanical processing of waste, constitutes West Macedonia the first region in Greece that acquires and operates integrated waste management facilities, also in harmonization with EU regulations. The main beneficiary, DIADYMA SA has as its major task the design, development & operation of the regional Integrated Waste Management System (IWMS) (12 municipalities, 300,000 residents). With the facilities of EPADYM, it is the best national Greek practice in Waste Management.

The budget of the project reached 48 million EUROS and it is a public-private partnership that is



funded as follows:

- a) 12,72 million EUR – loan by European Investment Bank (EIB).
- b) 12,72 million EUR – Jessica fund
- c) 16,96 million EUR – private funding
- d) 5,6 million EUR – for VAT.

EPADYM SA is the constructing company and owner of the project for 27 years. The facilities obtain 8 lines that produce recycling material (4 types of plastic, aluminum, etc.) The remaining material is mainly comprised of organic matter that undergoes aerobic processing for six weeks and is transformed into compost (organic fertilizer). All of the produced materials are sold.

Recycling in the West Macedonia is enhanced by 35 %, whereas 150 new working positions are created. Moreover, the remaining organic matter will be used as fertilizer for the rehabilitation of the lignite mine that exists at the area.

Photos



