



Promoting Effective Generation And Sustainable Uses of electricity Highlights

Newsletter No 3

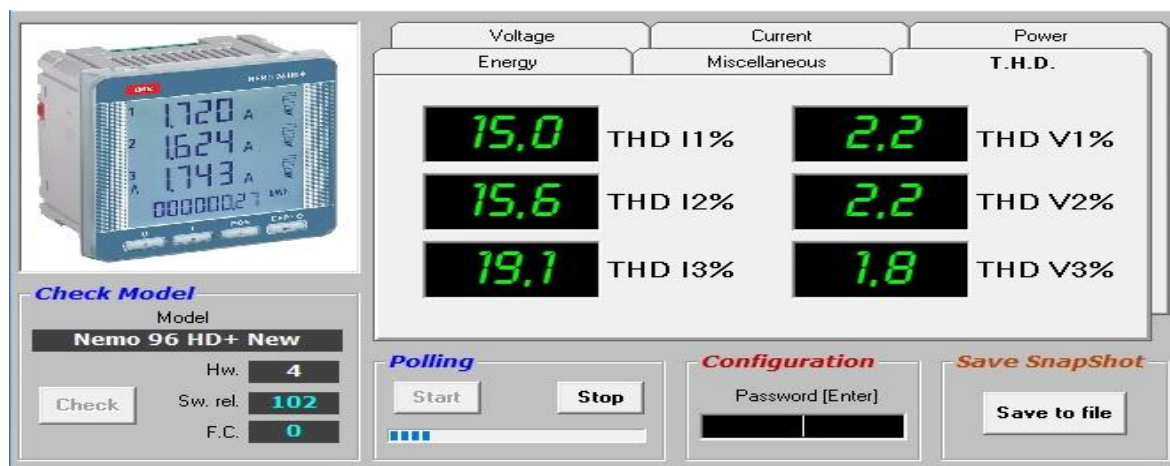
Dear reader,

In PEGASUS project, 10 partners from MED countries are working together to study into more details micro-grids, focusing on 7 rural and island areas. The objective is to implement a set of tools and measures that aim to facilitate the development of micro-grids.

The purpose of this Newsletter is to inform you about the steps that have taken place in recent months. During the third part of the project, a lot of effort has been placed on developing pilots and collection of data. We would like to present you some of the highlights, events and upcoming activities.

If you would like to keep up with all the latest developments and news of our project follow us on <https://pegasus.interreg-med.eu>.

Kind regards, PEGASUS partners



Highlights on pilots

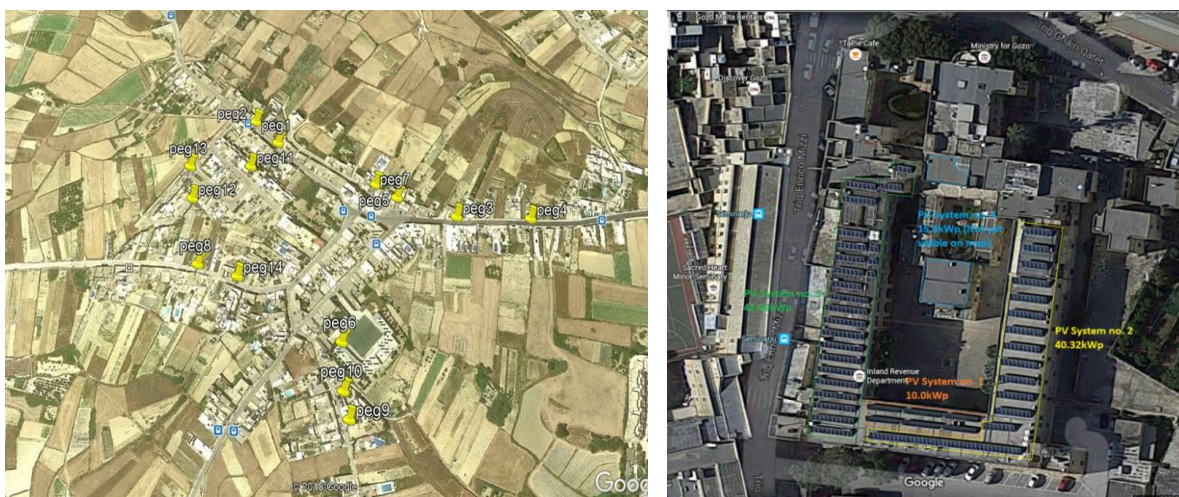
All pilots in rural and island areas are entering in the next stage of the project. The measuring devices and data management software were installed. The measuring and analyse of all data is continuing. Here we present you two pilot projects one in Malta and the other one in Slovenia both with interesting features on new concepts and there solutions. Other micro-grids will be presented in next newsletters.

Malta pilot: Gozo island solution

The Malta pilot site is located on the island of Gozo consists of 15 public and private buildings, having both consumers and prosumers profiles. The pilot is characterised by the following buildings: Ministry for Gozo (1 large PV system 108kWp – 437 PV panels), San Lawrenz Local Council (Prosumer with 1 PV system of 34.5kWp – 150 PV panels), 1 small office/commercial building and 12 residential households (7 consumers, 5 prosumers). MIEMA consulted different business models considering technical and financial aspects.

The pilot is addressed to investigate a grid-connected community micro-grid model which represents small municipalities. Analysis and prediction of energy requirements would allow the micro-grid to be disconnected from the main grid (islanding) in case of main grid failure. Energy monitoring started in November 2017, with measurements being taken every minute.

The main objective of the Malta pilot is to simulate a micro-grid operation, including storage systems and flexible electricity tariffs. The micro-grid model also aims to reduce the costs of energy for the micro-grid community members, to provide a more reliable energy supply by using renewable sources (possibly in conjunction with energy storage) and to reduce losses in upstream distribution network.



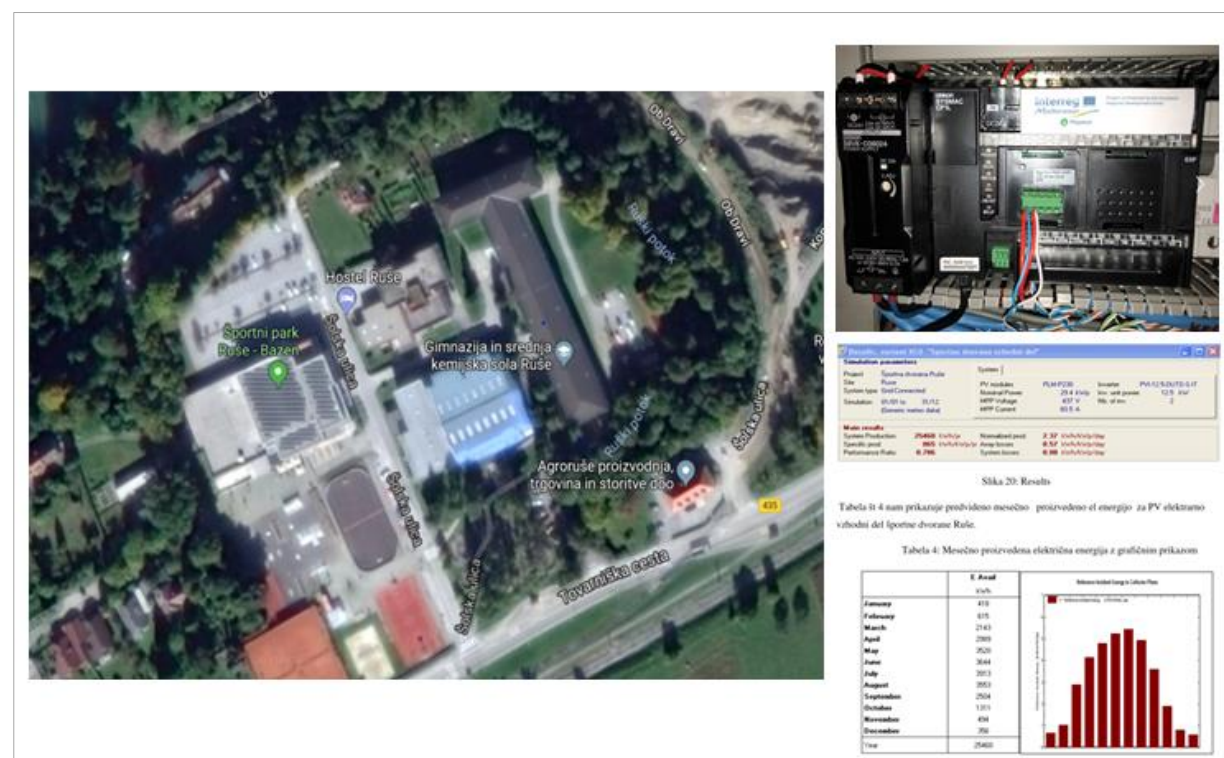
San Lawrenz Local Council: Prosumer with 1 PV system of 34.5kWp – 150 PV panels and Ministry for Gozo: 1 large PV system 108kWp – 437 PV panels

Slovenia Pilot: Sport park Ruše

In the Sport Park Ruše in Slovenia, the pilot site is based in a sports resort and includes two existing PV plants of 50 kWp each. A group of 4 buildings was selected that would represent a micro-grid. For these facilities a system of continuous monitoring of produced and consumed energy was established. The measures are taken every 15 minutes. With the measurements we will develop the consumers and production profiles and model the needs for potential electricity storage. On the basis of these measurements, technical and financial models will be prepared which will help to simulate the operation of micro-grids under different conditions.

The pilot is aimed to demonstrate the economic and environmental advantages for users and producers. The objective is to make the best use of PV resource, eventually including storage systems, make the use of RES efficient and provide cheaper electricity to end-users.

The main aims of Slovenian pilot are: to reduce the price of the electricity employing the energy from 50 kW PV; to build an energy efficient micro-grid, which would help to make the best use of the existing resources; to provide small running costs for the users and bigger gains for the operators and use the pilot as a showcase for other public facilities.



Sports park Ruše



What is the energy from renewable sources?

It is the energy from renewable non-fossil sources, namely wind, solar, aerothermal, geothermal, hydrothermal and ocean energy, hydropower, biomass, landfill gas, sewage treatment plant gas and other biogases.

Communication activities and Events

PEGASUS in the Thematic event on Efficient Buildings and Renewable Energy Communities event

PEGASUS project representatives, Marco Caponigro and Marco Graziani took part in the Thematic Event "Tracing Capitalization Strategy in the framework of Energy Efficiency and Renewable Energy", held in Rome on 17th of April 2018.

The event helped to make a preliminary feedback before Mid-term Event. It also started to identify some of the main impacts of Efficient Buildings and Renewable Energy Communities on policies, economy and society in MED area.

3rd STC Meeting in Seville



The 3rd Steering Committee project Meeting took place in Seville in March 2018.

The meeting aimed to present the state of the measurements and data collection and steer the way to characterize the pilot projects through the definition of the Cost - Benefits Analysis and the key target groups to be involved.

Project partners presented ongoing activities in relation to 7 pilots in their regions.

PEGASUS in Rome – Made in MED event



PEGASUS partners, Municipality of Potenza, MIEMA, Municipality of Preko and AURA-EE took part in the Made in MED event which was organized by the Interreg MED in Rome on 18th and 19th of April 2018.

Main aim of the event was to present future of the MED programme as well as to give opportunity to funded project for networking. There were over 800 participants from MED countries that took part.

As part of PEGASUS promotion Mr. Caponigro prepared article and Ms Polutnik and her team provided design. It was very well accepted and several dozens of printed versions were distributed among key stakeholders at the event.

As part of event all MED communities had a booth in the nearby hall, where visitors could obtain more specific information on the projects, their results and find synergies.

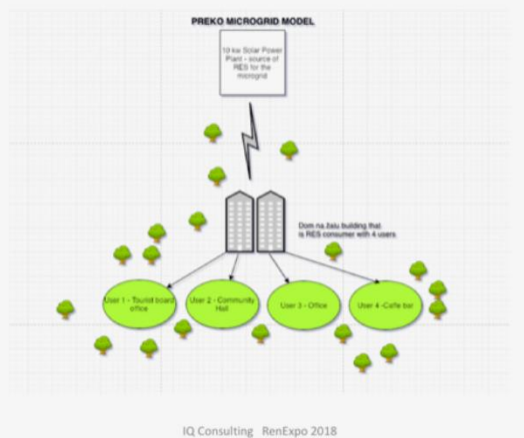
Micro-grid solution on Ugljan Island presented in Belgrade

RENEXPO is regional Energy Efficiency and Water fair that was held for the fifth time in Belgrade from 24th to 26th of April. There were more than 700 participants of the conferences from 25 countries, as well as 120 exhibitors.

Project Pegasus with micro-grid solution on Ugljan Island was presented as a case study and innovative solution for the use of RES by Ms Ivana Ostojic. The conference was opened by professor Milos Banjac, Assistant Minister in The Ministry of Mines and Energy of the Republic of Serbia. The audience was very interested in the project and its results.



Model mikromreže



Next Project Meeting

PEGASUS 4th project meeting will be held in Preko, Croatia in September 2018, hosted by Municipality of Preko.



Project Partners

- Municipality of Potenza (IT) – Led partner
- Centre for Renewable energy sources and savings, CRES (GR)
- Malta Intelligent Energy Management Agency, MIEMA (MT)
- Energy Agency of Podravje, ENERGAP (SI)
- Design and Management of Electrical Power Assets, DEMEPA (IT)
- The Auvergne-Rhône-Alpes Energy Environment Agency, AURA-EE (FR)
- University of Cyprus, UCY (CY)
- Municipality Preko, PREKO (HR)
- Abengoa Innovación S.A., ABENGOA (ES)
- European Federation of Agencies and Regions for Energy and the Environment, FEADRENE (BE)



Follow us on our website:

<https://pegasus.interreg-med.eu>



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