



Cities Network for Sustainable Development  
and Circular Economy

# Strengthening European Funding and Project Management in Greek Municipalities: A Case Study

March 2022

Ioannis Georgizas  
General Manager of SUSTAINABLE CITY  
Physics, MSc, MBA

# MAIN PURPOSES OF THE CITIES NETWORK “SUSTAINABLE CITY”

Founded in 2017

- Sustainable Development
- Sustainability
- Environmental Protection
- Circular Economy
- Eco-innovation



# PROBLEMS

Ineffective use of available funding from European programs

Lack of collegiality in submitting applications

Inadequate networking

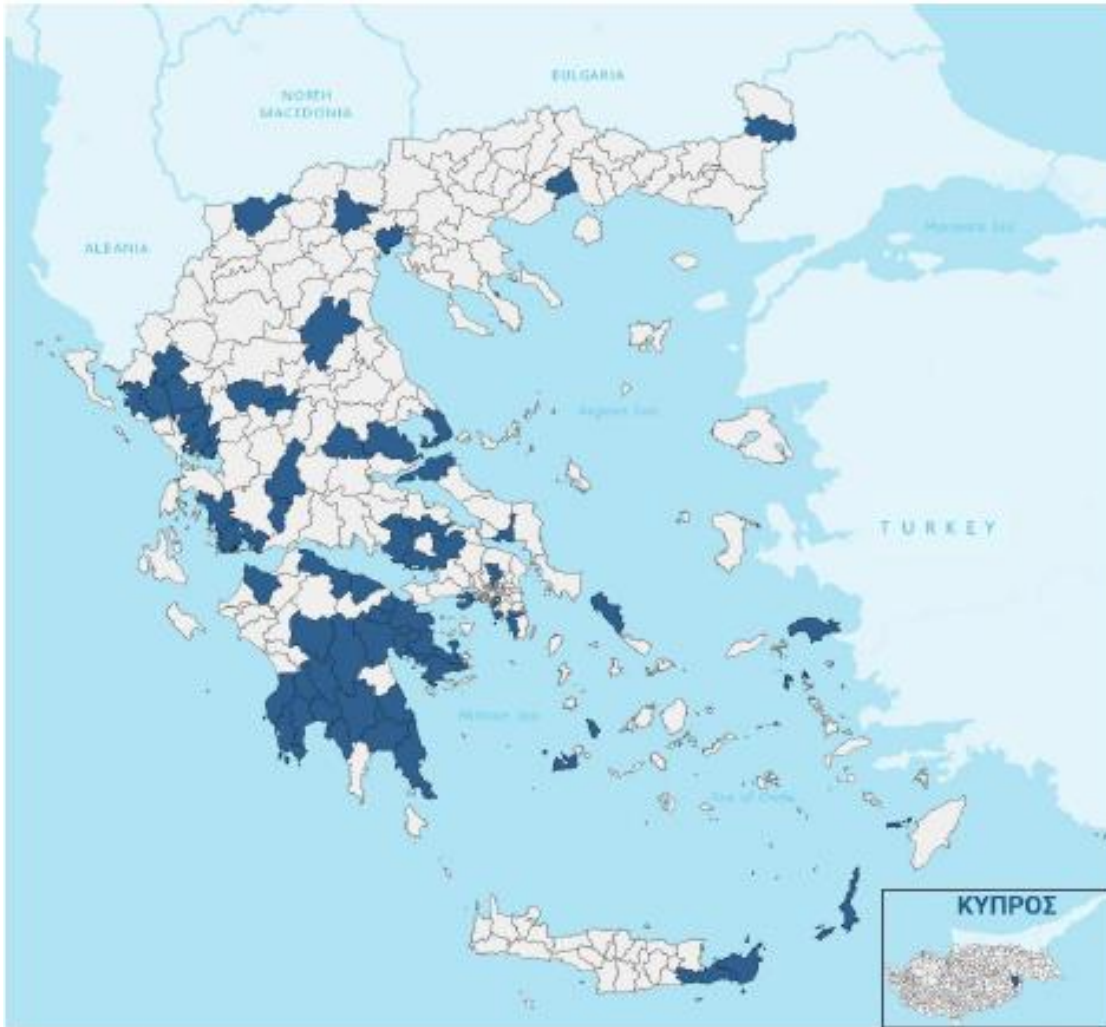
Insufficient technical competence

SUSTAINABLE  
CITY  
CITY NETWORK

Success!



# MEMBERS



72 Municipalities from Greece and Cyprus

National Technical University of Athens

Maniatakion Foundation

Institute of Environment and Sustainable  
Development of Cyprus

Regional Association of Solid Waste  
Management Bodies of Peloponnese Region

## SINCE 2017...

- ✓ 50+ European Proposals
- ✓ 8 Ongoing European Projects
- ✓ 50+ Programmatic Agreements with Municipalities
- ✓ Peloponnese Waste Transfer Stations
- ✓ Virtual Net Metering- Energy Communities



WaystUP!

Objective: research on the utilization of municipal biowaste and its conversion into innovative high value products (bioplastics, bioethanol, biochar, biocarbon, bio-solvents, proteins, oils, etc.).

Pilots: Athens, Chania, Valencia, London, Alicante, Prague, Alcudia, Turny.

Role of SUSTAINABLE CITY: dissemination and raising awareness of citizens through our Municipality members & selection of 2 Municipalities in Athens for participating in the research.

- Municipality of Vari-Voula-Vouliagmeni
- Municipality of Elliniko-Argyroupoli

<https://waystup.eu/>



# LIVING STREETS

## LIVING STREETS

Supported by:



based on a decision of the German Bundestag

Δήμος  
Ελληνικού  
Αρχαίου Προσέως



Objective:  
Reclaiming public space and redefining its use by temporarily closing a street (partially or completely) and prohibiting the passage of vehicles.

Funding: 20.000€ in 2 municipalities - members of the Network



The logo for Decido, featuring the word "Decido" in a light blue, sans-serif font. Above the letter "i" is a stylized grid of small squares in various shades of blue and green.

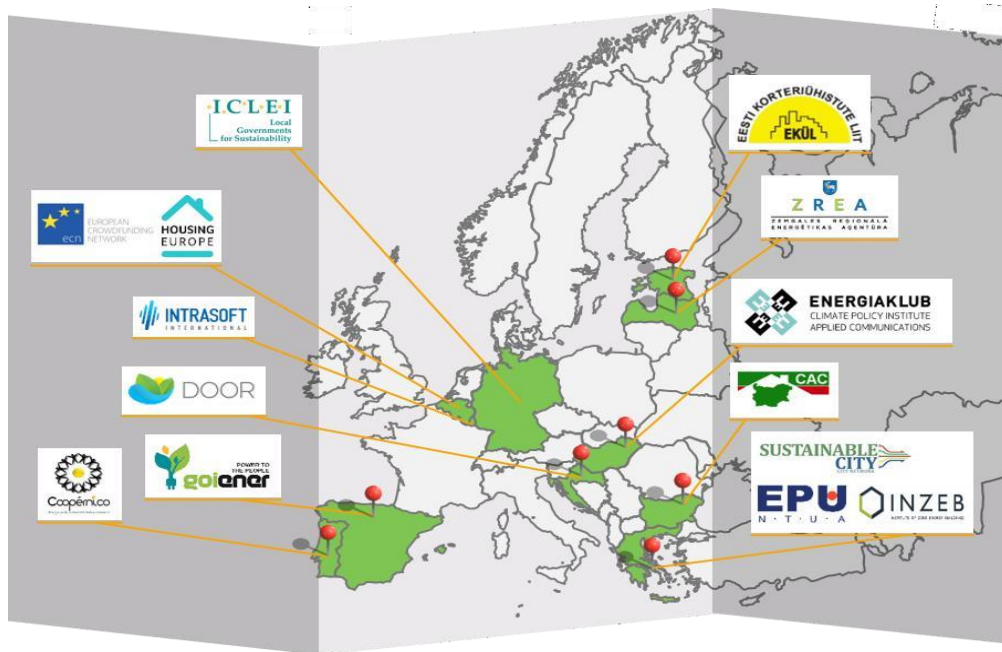
Use of shared data, tools and cloud services to develop targeted and effective policies for managing emergencies (floods, fires, power outages).



In Greece, a platform that can be used by municipalities to deal with emergency power outages (coordination of competent authorities, information of citizens, prioritization of buildings, etc.) is going to be developed.

Pilot: Municipality of Halki





- Support energy-poor citizens to implement practices to improve energy behaviour and participate in joint energy initiatives.
- Fight energy poverty.
- Encourage the use of alternative sources of finance.
- Policy development.

Municipalities: Corinth, Kalamata, Ierapetra, Messini, Xilokastro, Ellassona, Eretria, Thiva, Livadia, Florina, Halki etc.

<https://powerpoor.eu/>

## PATH2LC

LEARNING MUNICIPALITY  
NETWORKS

Creating networks with stakeholders from Public Authorities to enable mutual learning.  
“Networks of Municipalities Acquiring Knowledge”

The participating municipalities will benefit from:

- Exchange of knowledge through the interaction of municipal stakeholders.
- Capacity building through various tools, expert input and mutual exchange of experiences.





The project aims to support municipal enterprises for the effective implementation of the actions to reduce their carbon footprint and get adapted to climate change.

It focuses on the design of the integrated ECO SENSE platform and label, which include 4 main software and hardware tools to support decisions on:

- (a) carbon footprint mitigation actions and
- (b) actions for the adaptation to climate change of public sector's enterprises.

These tools will be developed based on existing tools of participating partners, tailored according to the new needs and appropriate interconnections of the ECOSENSE platform.

Coordinator



Partners





## CASE STUDY

**Installation of a Solar - Thermal System at the  
1<sup>st</sup> primary school of Messini**

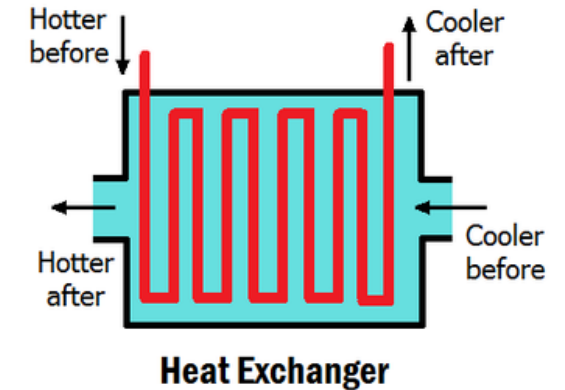
## Installation of a Solar - Thermal System at the 1st primary school of Messini

To support the main heating system of the school (condensing oil boiler), a solar thermal system is installed to utilize solar energy and heating both for the building and for the building's supply of hot water.

Two inertia tanks of 1,000 and 2,000 litres capacity respectively are installed in the boiler room and are heated by the solar panels through a **heat exchanger** inside them. A heat exchanger is a device used to transfer heat energy between two fluids with different temperatures.

Within the 1,000 litre inertia tank there is an additional tank (tank in tank) for the buildings hot water supply, which is also heated by solar energy, resulting in significant energy savings.

The whole installation is controlled by a controller which adjusts the boiler water temperature according to the environment temperature. The controller gives priority to heating from the sun and if this is not sufficient, the boiler is switched on for additional heating of the water in the tanks.



## Artificial Ventilation Units - Heat Exchangers

For the ventilation of the building, a heat recovery exchanger (air-to-air) will be installed in combination with a network of air ducts and vents that achieves great energy savings between the hot air that exits the building and the cold air that enters it (heat recovery >75%).

The exchanger will be able to accommodate medium and high efficiency filtration filters within the unit.

The ventilation unit can be mounted horizontally or vertically for greater flexibility and space saving during installation.

It will work in conjunction with a CO<sub>2</sub> sensor and when CO<sub>2</sub> levels exceed the permissible limit, it will supply fresh air to the room.

## Artificial Ventilation Units - Heat Exchangers : Operation

- Night discharge of the building

If the building ventilation is switched off and the internal temperature rises above the desired temperature, the exchanger will control the outdoor air temperature and if it is lower, it will allow the outdoor air to flow into the building, thus reducing the indoor temperature (especially during the night) in order to reduce the energy required for air conditioning when the building comes back into operation.

- Overpressure - Under-pressure function

The ventilation unit can select different speeds for the supply and return fans, creating overpressure or under-pressure conditions in the building for the proper operation of the exchanger and its cooperation with other ventilation units installed.

- 24-hour Ventilation

The exchanger offers the possibility of 24-hour ventilation operation by implementing intermittent ventilation operation at regular intervals through scheduling.

## Budget for the total Energy Upgrade and Renovation

### 1st Primary School of Messini

585.933,65 €







**Ioannis Georgizas**  
**General Manager of SUSTAINABLE CITY**  
**Physics, MSc, MBA**

**E-mail: [georgizas@sustainable-city.gr](mailto:georgizas@sustainable-city.gr)**  
**Website: <https://www.sustainable-city.gr>**  
**Phone number: 0030 215 215 4808**

**March 2022**