

Steer it up!

Hands on event

How tools and key results from the European projects Renaissance and Compile can help communities drive the energy transition



Kimmeria, Greece

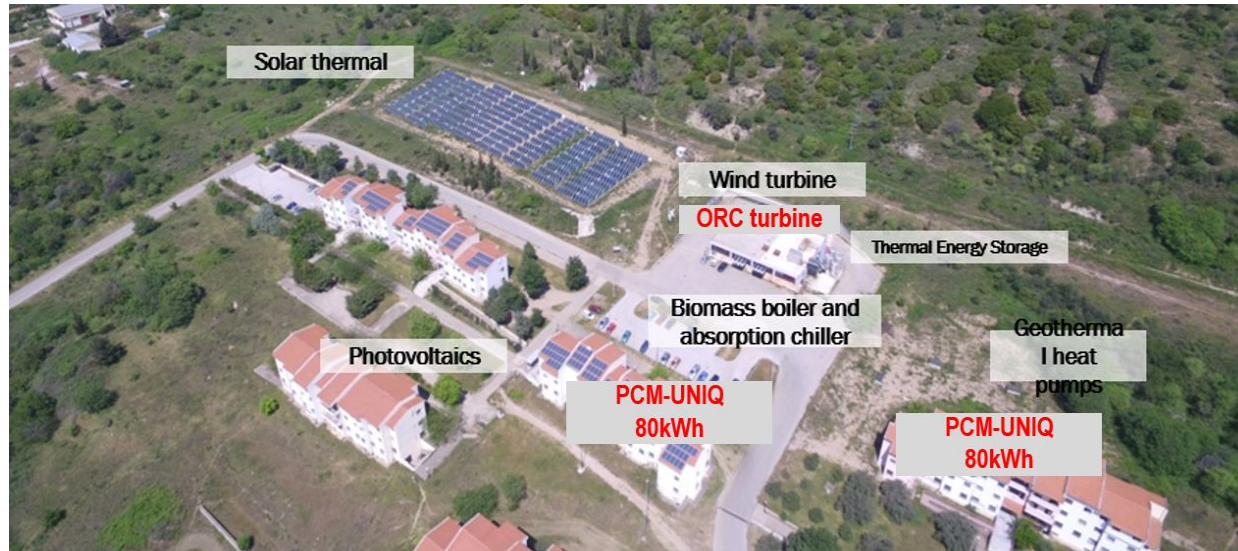
The pilot site is located in a rural area in Northern Greece. It includes a building complex of 11 buildings of total area of 15.000 m², including students' residences. It is owned by the Democritus University of Thrace (DUTH). Students' residences are provided free of charge, therefore characterizing the buildings as social housing.



DUTh PS short description

- Located near Xanthi, North-Eastern Greece - 1,1 km from city center of Xanthi
- In close proximity to energy intensive industries
- Consists of 8 student's residences buildings, 1 restaurant, 1 amphitheater, 1 energy center
- 15,000 m², 630 tenants, over 400 visitors per day
- Consumption 1,500 MWh_e/y, 2,300 MWh_{th}/y (RES)

DUTh PS short description



Existing equipment

Equipment acquired during Renaissance

- 1,873 m² solar collectors
- 1.15 MW biomass boiler
- 40 m³ hot water storage
- 316 KW_c absorption chiller
- 275 KW_{th}, 189 KW_c geothermal heat pumps
- 51.68 KW_p PVs with battery storage
- 1 KW Vertical Axis Wind Turbine
- 2 PCM UNIQ 80kWh
- 7KW_{gr} ORC turbine
- Smart meters
- BMS equipment
- Hot water tanks



Aim of the Kimmeria Pilot Site

The aim of the Kimmeria Pilot Site is to explore, leverage and mobilize stakeholders to apply schemes for a social group of end users (i.e. students) in order to participate in the operation and management of a local renewable energy community, gaining benefits that are not only financial but also social and environmental.



Next steps

- collection and recording of real data with the return of students, after COVID era
- completion of the integration of new assets in the LEC
- Integration with the ATOS system
- ensuring the smooth operation of log data
- sharing and collecting questionnaires



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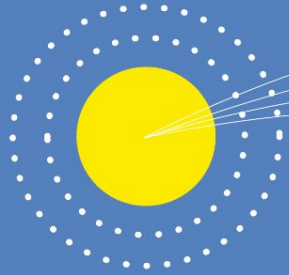
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Thank you!

