

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













Pilot site Rafina



- Municipality of Rafina-Pikermi: 20.000 citizens in eastern suburbs of Athens.
- LES is predominantly supplied from the main grid.
- The municipality provides its available infrastructure for the COMPILE solutions integration and testing.
- Exploring different models for the cooperation of citizens and the municipality for the establishment of EnC.











Main achievements

100 Smart meters were deployed (COMPILE + CoordiNET)

Two potential energy community models are being studied

COMPILE tools integration

A tool was developed to assess the available infrastructure for RES development and feasibility





Citizen engagement and community development

"Energy in citizen hands" workshop

Workshop on Energy Communities

2nd COMPILE Workshop

Regulatory framework presentation. Potential benefits and obstacles. Funding mechanisms. Inform about the institutional framework for energy communities and the potential benefits to citizens

Workshop with municipal stakeholders to discuss the potential benefits of an EnC in the municipality

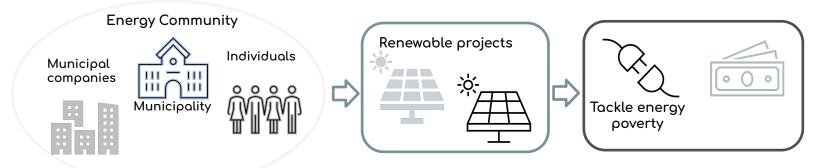




1st model – Municipality driven EnC

The municipality + municipal development companies + interested individuals will investigate the possibility of developing energy projects and applying virtual net metering to reduce municipal bills and tackle energy poverty

- Effective control remains within the municipality
- Citizens benefit from reduced bills
- Vulnerable households are supported





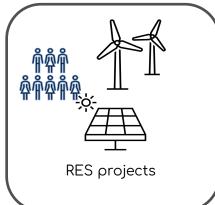


2nd model – Citizen driven EnC

The municipality provides available infrastructure to citizen energy communities for the development of renewable projects and becomes a member of the EnC or get a share of the project as "rent".









The ROLE of the municipality in this model is the ENABLER







Project Name:	High School rooftop PV	
Location:	Rafina	
Туре:	Rooftop	
Currency:	EUR	
Nominal capacity:	100,00	kWp
Required Area (approx) :	1037	m ²

Summary Financial Outputs	25yr	12 yr
Free Cash IRR Pre tax	14,5%	5,9%
Free Cash Post Tax IRR	8,7%	5,9%
Minimum DSCR	N/A	N/A
Cash Equity in	€ 91.800	€ 91.800
Cumulative Free Cash Pre Tax	€ 443.791	€ 10.673
Cash on Cash multiple	4,83	0,12

Public rooftop PVs-feasibility

Available buildings are assessed and prioritized

Pre-feasiblity study calculates the economic indicators







Lessons learned

- Municipalities can play a significant role in fostering citizen involvement and EnCs development
- They can assume different roles in the process:
 - Initiators Main actors forming EnCs and developing RES projects
 - o Facilitators Providing administrative and organizational support
 - Enablers i.e. Enabling citizen involvement by providing available spaces for RES project development
- The coordination with different stakeholders within municipalities may be challenging.
- The participation of municipalities in EnC schemes has positive impact in economic, social and environmental aspects of a local community.



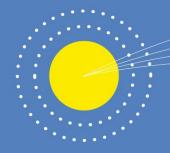


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Thank you!





