

("energy withy with joy")

Living Lab: "Energia com alegria" PR São Luís Village, Odemira, Portugal André Vizinho and Sérgio Maraschin



Living Lab: "Energia com alegria" PROSEU

Linking technology with an emergent Renewable Energy Community (REC) in a small village

("energy withy with joy")

- ✤ 1. Where to install? Identification of potential sites by GIS and field check
- 2. What to install? Modelling and simulation of "real electrical system" for the village using open source software
- 3. How to prioritise actions? Starting with collective buy of PV systems and hands-on workshops, followed by sourcing funds (e.g. Participatory Budget) for a centralised PV unit and then dreaming ahead...





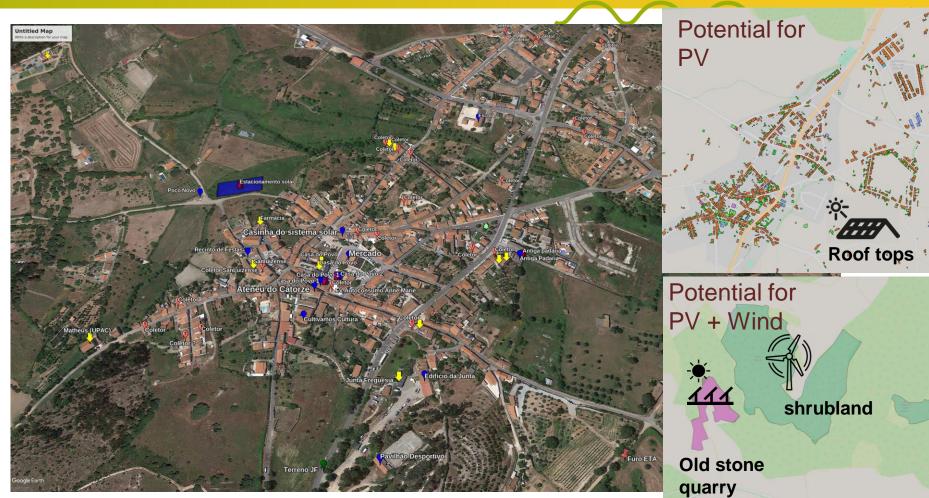
Prosumer Inspiration Event





1. Where? Cadastre of PV and solar thermal installations

Informal group of volunteers, identified potential sites for PV installations using Google Earth, GIS and field checks. PROSEU team calculated areas.



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2. What to install? Co-creation sessions & designing a local REC







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2.1 Deciding on the REC configuration

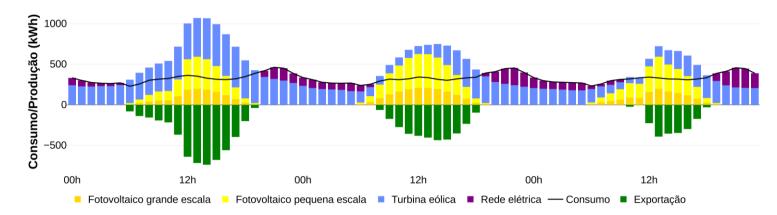
Option A: 100% self sufficient (year). Connected to grid. 30% import/export

Main tech input: modelling and simulation using open source software

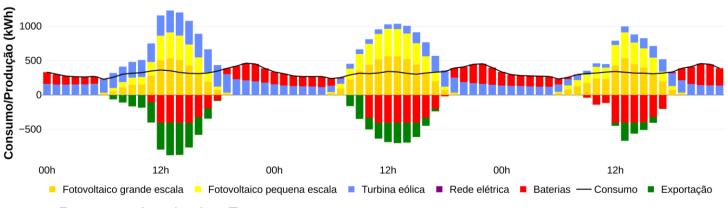
G. Luz & R. Amaro Silva (PhD candidates, FCUL)

Full report available in http://energy-commons.com/

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Option B: 100% self sufficient (year). Use Batteries and Connects to grid. 16% inport/export



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2.1 Deciding on the REC configuration

	Indicators	Option A: n/ battery	Option B: w/ battery
	Cost	4.8 M€	6.3 M€
	PV centralized	270 kW	730 kW
	PV rooftops	540 kW	510 kW
	Wind turbines	750 kW	500 kW
	Batteries	-	400 kW / 2.8 MWh
AVK A	<u>Total</u>	<u>1560 kW</u>	<u>1740 kW</u>
	Import and Export	29% / 31%	15% / 17%



- Collective acquisition of PV systems after "hands-on" PV workshops and sharing info towards an informed decision.
- Seeking finance of a REC via Participatory Budget: technological advice, innovation and counselling contributed to the successful approval of the project.
- At the moment, considering steps towards a new REC.





Won Participatory Budget 2014 & 2020! REC in São Luis, Odemira



São Luis Village is setting the pace towards the Energy Transition of the Odemira Council.

Technological input is recognized as an enabling success factor.

Crucial success factor still is "People".

Prosumers for the Energy Union

Living Lab: "Energy with Joy" São Luis Village, Odemira, Portugal

PROSEU

André Vizinho and Sérgio Maraschin on behalf of Energia com Alegria + local partners





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Prosumers for the Energy Union



For more information:

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This project received funding from the EU's Horizon 2020 research and innovation programme under grant agreement N°764056. The sole responsibility for the content of this document lies with the authors. It does not necessarily reflect the opinion of the EU.