



Energy Local Bridport launch January 2020





Existing 50 kW wind turbine owned by a local farmer currently supplies 40 households in the town of Bridport with lower cost renewable electricity through a partnership with Octopus **Energy**

'Windy Pete' keeps the village lights on

retired engineer has become the first person in England to supply renewable energy to the local community through his own wind turbine (Laurence Sleator writes).

Pete Bailey, 69 — or Windy Pete to his neighbours - provides 17 houses in Bridport, Dorset, with clean energy from a 50kW generator on his land.

Residents can purchase enough wind energy to cover half of their total electrical needs through a community scheme that helps to distribute the power. The cheaper energy supply, which saves locals up to £60 a year, has proved so popular that a waiting list has formed. The scheme aims to expand to more than 50 homes in the spring.

"To be able to supply local people not only makes sense environmentally but economically too," Bailey said.

Having installed the 80ft-tall turbine ten years ago, Bailey first sold his energy to utility providers. When this proved financially unsustainable he offered it instead to the community, where he could make about



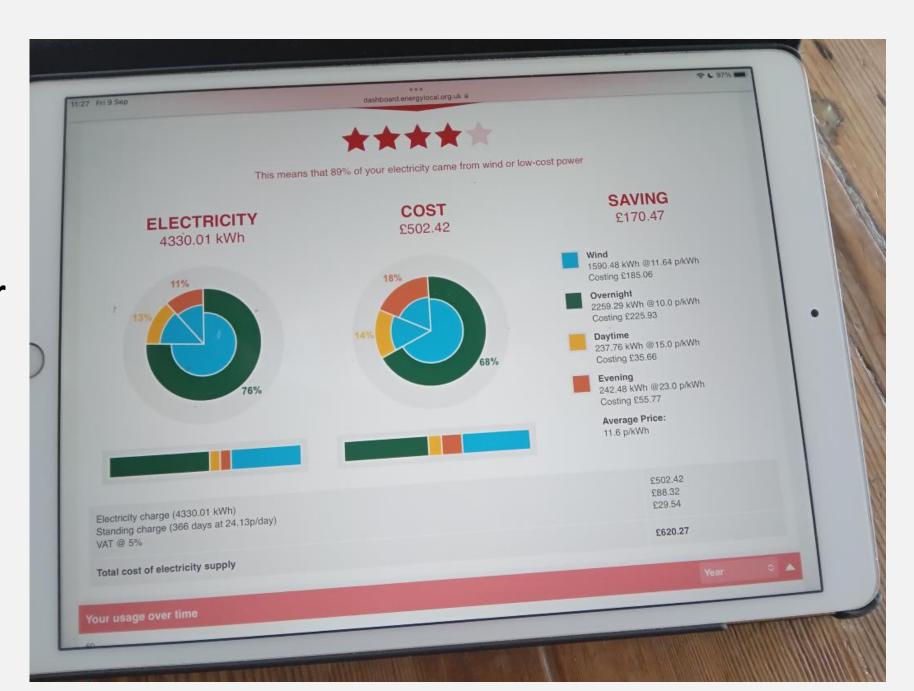
50 per cent more. "I was going to have had to dismantle the turbine," he said. "Now, by getting more money for the energy I'm generating, I can keep it for the future."

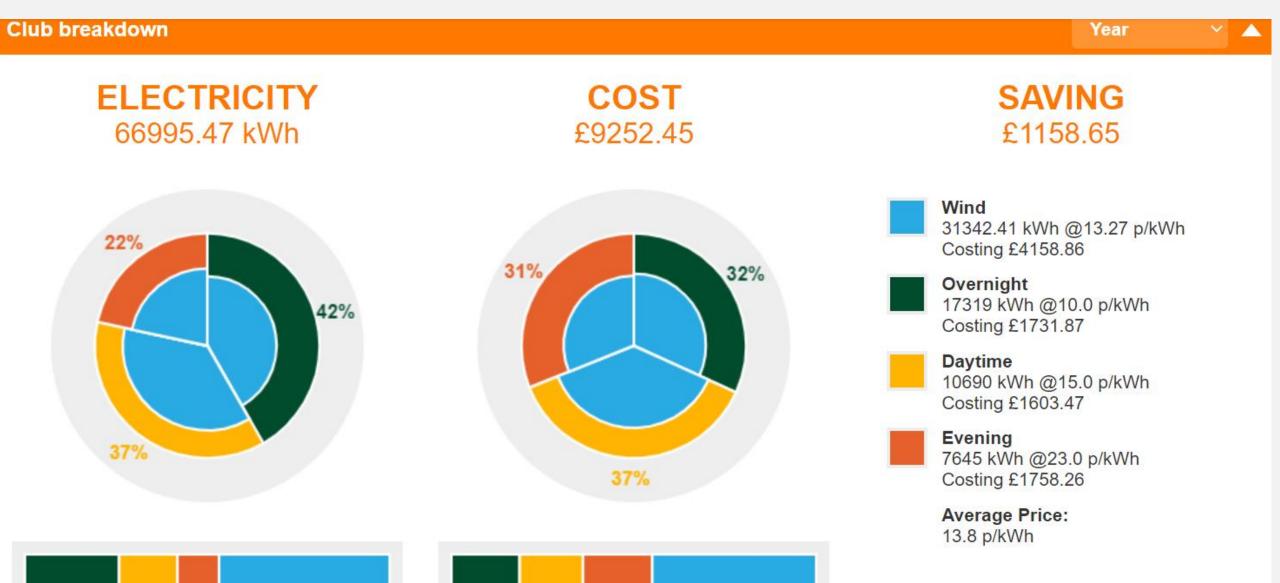
The scheme is run by





Annual electricity consumption of an Energy Local **Bridport member** with 3kW of solar PV on their roof and an electric car driven 6,000 miles per year





Annual electricity saving averages 12% per member compared to 2021 grid electricity cost

BBC Wales news feature 18th October 2022

Cost of living: Bethesda hydro scheme cuts electricity bills by 25%



Energy Local
Bethesda
(launched in
2018 –
currently 140
members)



Residents such as Gareth Cemlyn Jones are helping to generate their own power





EU Renewable Energy Directive REDII

Article 22 Renewable energy communities

What energy communities can do:

- By the end of 2021 Member States shall ensure that renewable energy communities are entitled to:
- a) produce, consume, store and sell renewable energy, including through renewable power purchase agreements;
- b) share, within the renewable energy community, renewable energy that is produced by the production units owned by that renewable energy community.



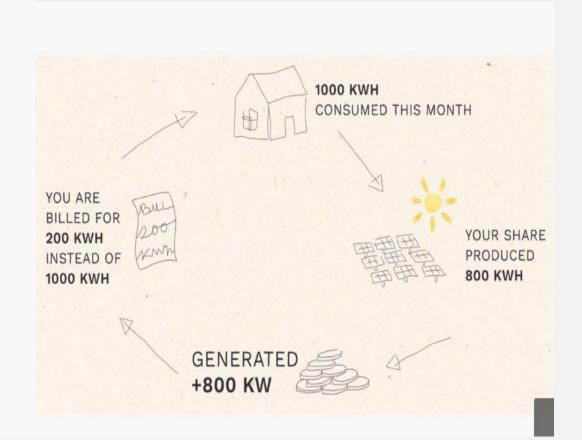
ELECTRA Energy Co-operative: HYPERION Energy Community in Athens, Greece Proposed 180kW ground mounted solar PV to supply consumers 4 km distant

How community solar works?

A community solar farm is a collectively owned photovoltaic plant distributing electricity to multiple users.

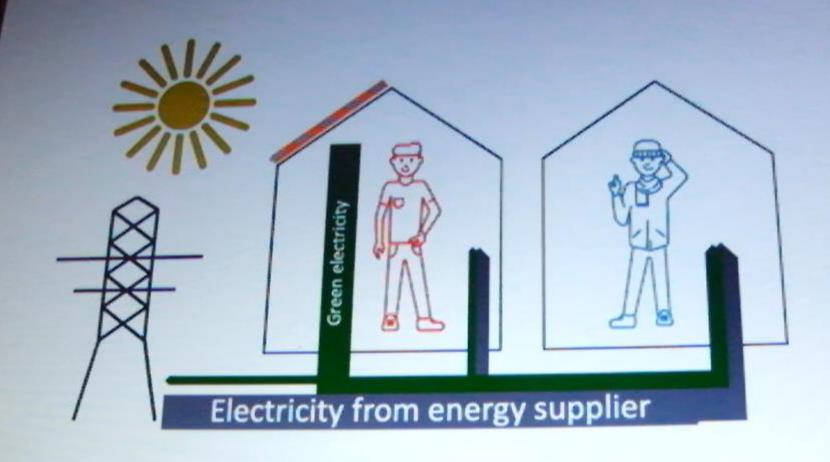
The users are becoming self-producers (prosumers) and co-owners of the solar farm by joining HYPERION Energy Community as members. By becoming members, they are also purchasing cooperative shares and through them a portion of the annual power production of the plant.

The annual energy that is generated by the farm is credited to the member's electricity bill, in proportion to his/her investment and shares (Virtual Net Metering).



2 PowerZone: Idea

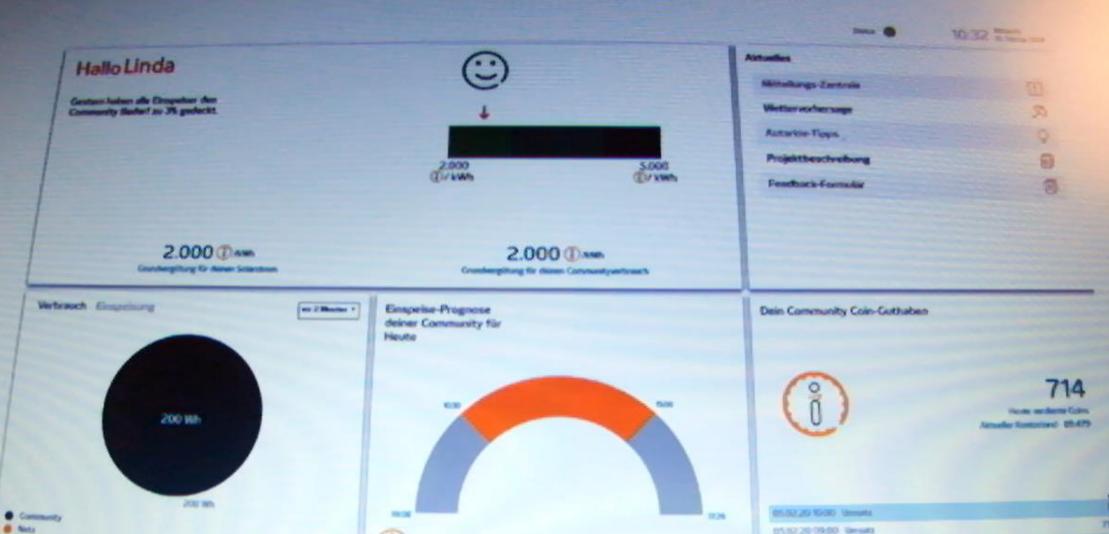
Our idea for tomorrow's energy supply



Regional selfsufficiency. Consume valuable, regional green electricity where it is generated!

User Dashboard- Homepage

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Employees Nutraing Inequition 10:30 - 15:00, um max, Cores pu orhalten

05.02.20 SSAS Unwater



E.ON Innovation project PowerZone, for example, is one easy-tounderstand example, whereby whole neighbourhoods within a fourkilometre radius are connected. Local 'prosumers' (consumers who also produce energy through solar panels, for example) share their power with their neighbourhood and the main grid.

There are exciting permutations to consider too. In the future, smart homes could connect to the local green energy supply to make sure that cars charge and dishwashers run automatically at times when there's a ready supply of local green energy with low demand.

By making the future of green energy communal, we would not only be able to create a more sustainable future but, just as importantly, also drive engagement and connection with the topic within communities and neighbourhoods.