





Wessex Community Energy Network

Bath Guildhall Wed 8th November 2023

Energy Democracy- Developing Local Energy Markets

Case study:

Energy Local Bridport

Pete West Secretary, Energy Local Bridport Co-operative





Established in 2013

Oct 2023: Total 28 solar PV sites -- 1580 kW installed capacity

Approx £1 million local community investment @ 5.5% pa interest

Total cost saving to sites to date approx £500,000



Energy Local Bridport launch January 2020



Two street stalls and a public meeting in Bridport Town Hall in January 2020 resulted in 70 expressions of interest – only 50 households were needed to match the shared generation from the 50 kW wind turbine.





Existing 50 kW wind turbine owned by a local farmer has been supplying 50 households in Bridport with lower cost renewable electricity since September 2021.

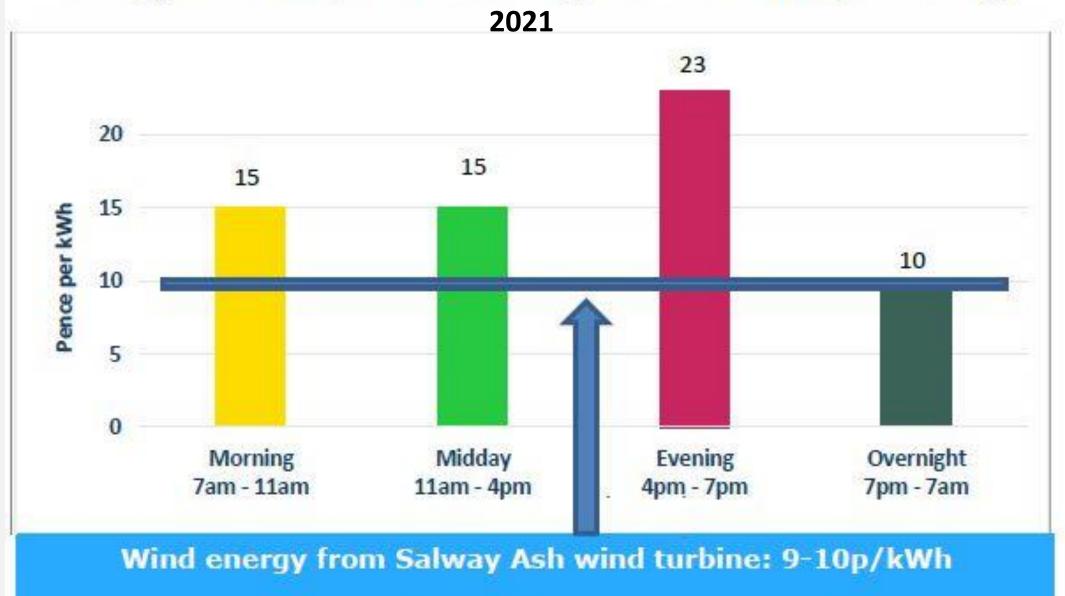
There are an additional 90 households on a waiting list.

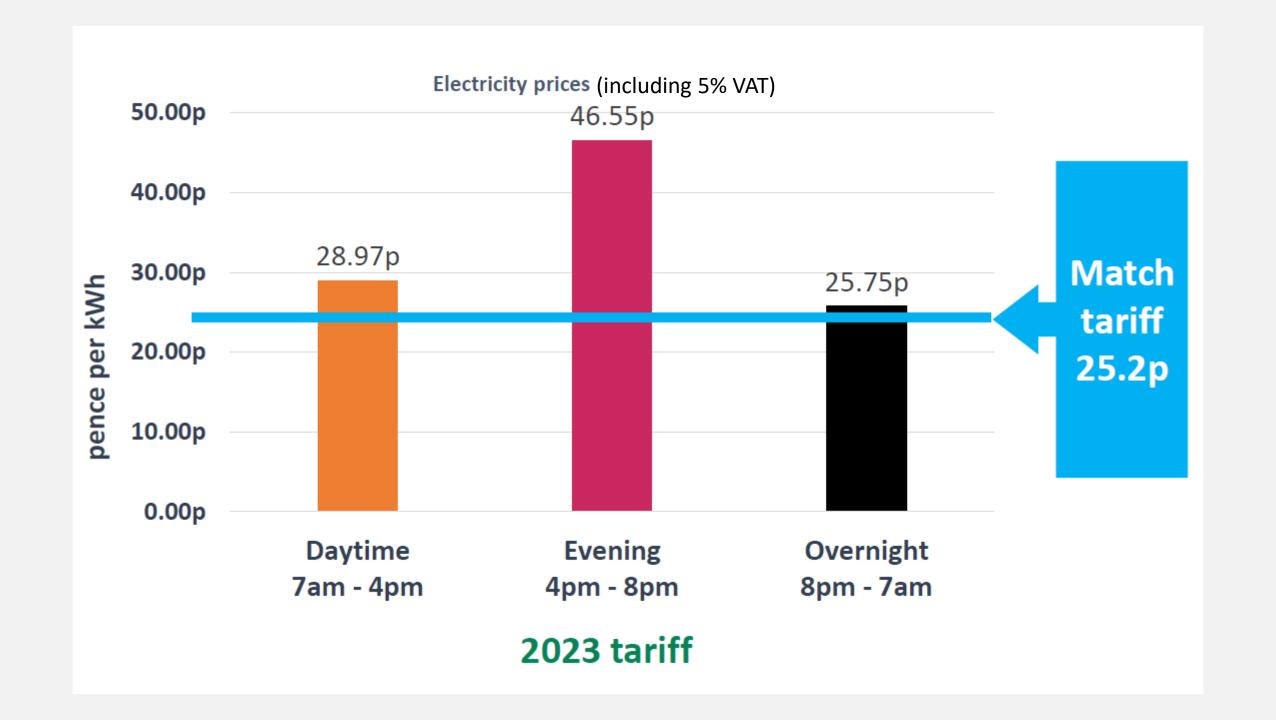
Energy Local Bridport Club eligible area –

Bridport electricity substation area

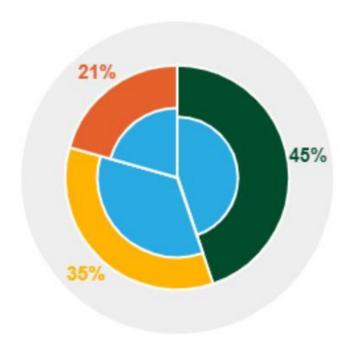


Energy Local Bridport electricity prices from Octopus Energy

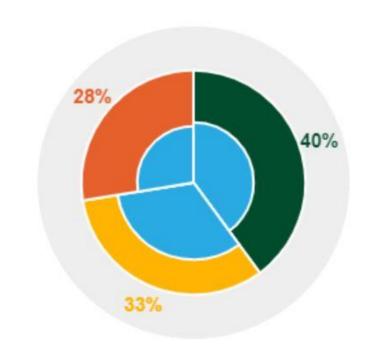




ELECTRICITY 11853.09 kWh



COST £3243.34



£680.03



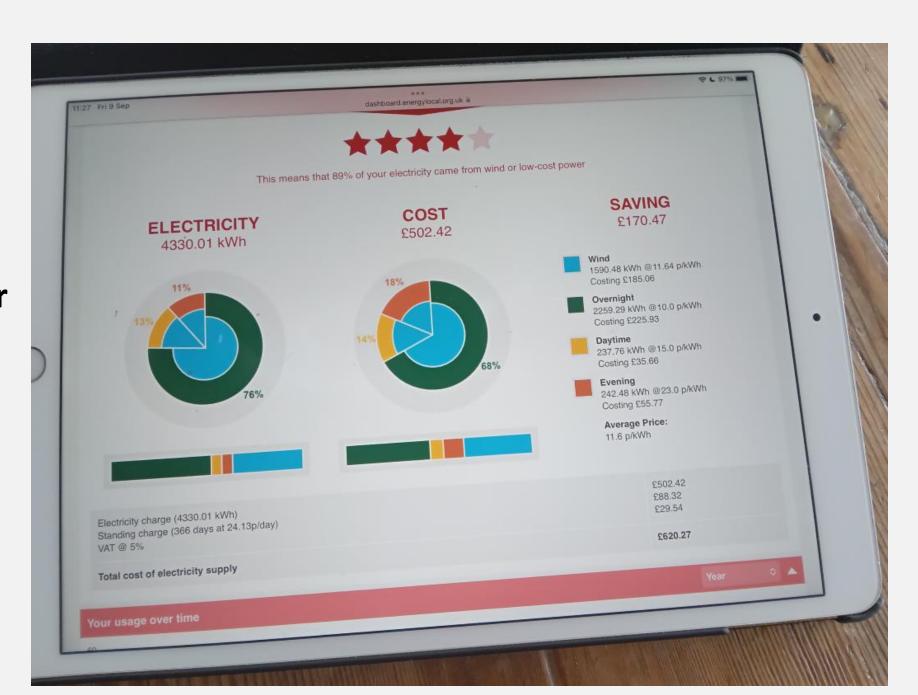




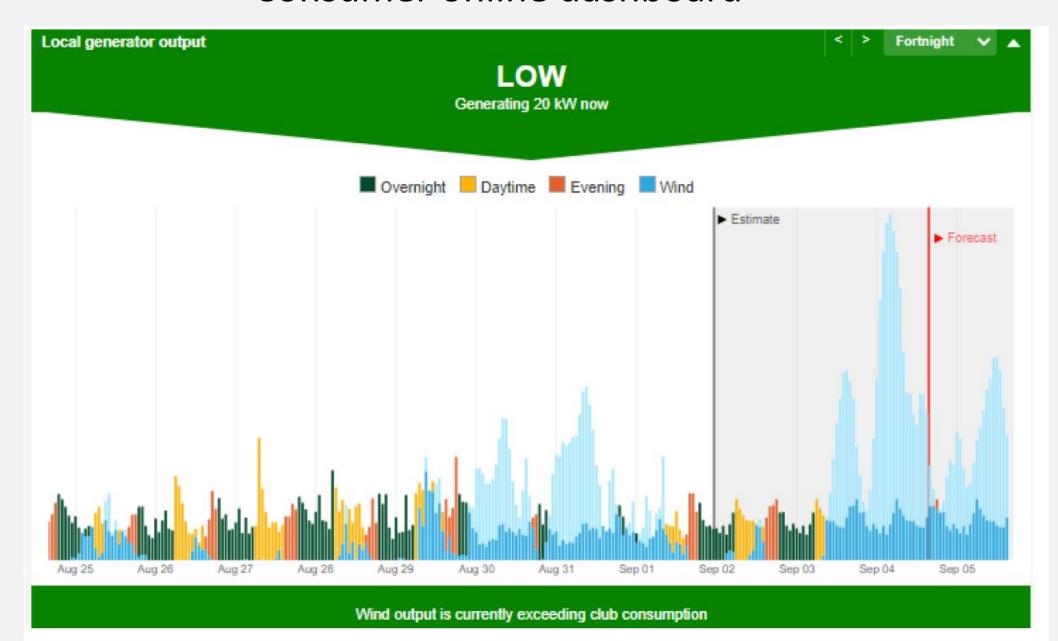


Average Price: 27.4 p/kWh

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



Consumer online dashboard



'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.

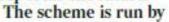
Residents can purchase enough wind energy to cover half of their total electrical needs through a community scheme that helps to distribute the power. The cheaper energy supply, which saves locals up to £60 a year, has proved so popular that a waiting list has formed. The scheme aims to expand to more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







octopusenergy

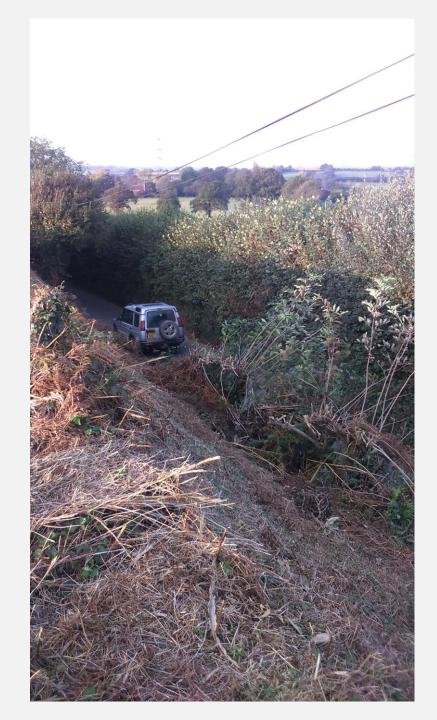
"The company that has done the most to advance UK renewables"



Some good news that Octopus Energy is willing to continue supporting Energy Local Bridport and other operational Energy Local Clubs for the next financial year April 2024- March 2025

However it is uncertain at the moment if Octopus will support any new Energy Local clubs or allow new members to join the existing clubs

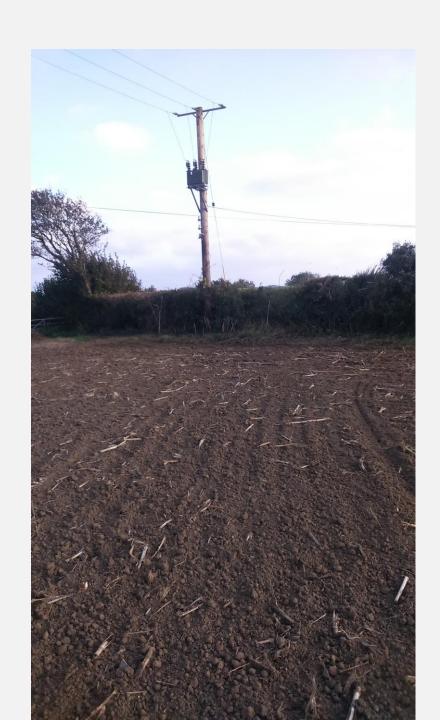


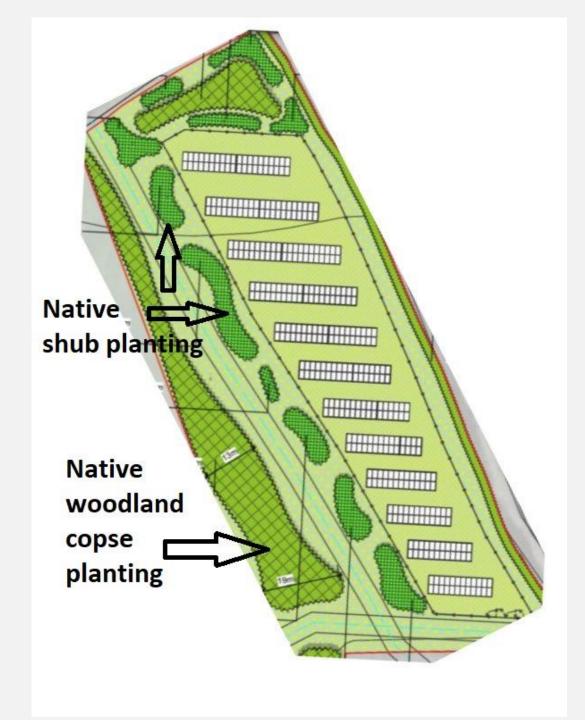


Sunken rural road along the eastern side of the site

Landscape looking northwards is Dorset Area of Outstanding Natural Beauty

Affordable low voltage grid connection point in the same field as the solar array





Planning permission for 250kW of solar panels was granted at a Dorset Council Planning Committee meeting in February this year with a 7-2 majority in favour

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78 NET COST / INCOME	8,466	9,650	10,835	12,022	13,210	14,398
79	27.004	47.544	50.040	70.000	00.577	07.075
80 CUMULATIVE NET COST / INCOME	37,861	47,511	58,346	70,368	83,577	97,975
81 82						
83						
84 Electricity value to end users	36,137	37,111	38,110	39,132	40,180	41,254
85	33,137	37,222	00,110	05,102	10,200	12,23
	452.020	400 141	E27 2E1	E66 202	606 563	647 017
86 Cumulative electricity value to end users 87	452,030	489,141	527,251	566,383	606,563	647,817
88						
89 Community benefit fund		<u>Assumptions</u>				
90 Income surplus over 20 years		75% of solar generation supplied locally				
91 Decommissioning funded from surplus yrs 20-30		Local supply price 13p/ kWh				
92		Householder standard grid price 25p/kWh				
93		PPA export price for 25% of generation 8p/kWh				
94 Total available funds contingency/ community fund	97,975					
95						



ANY QUESTIONS?

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