

Als Parker

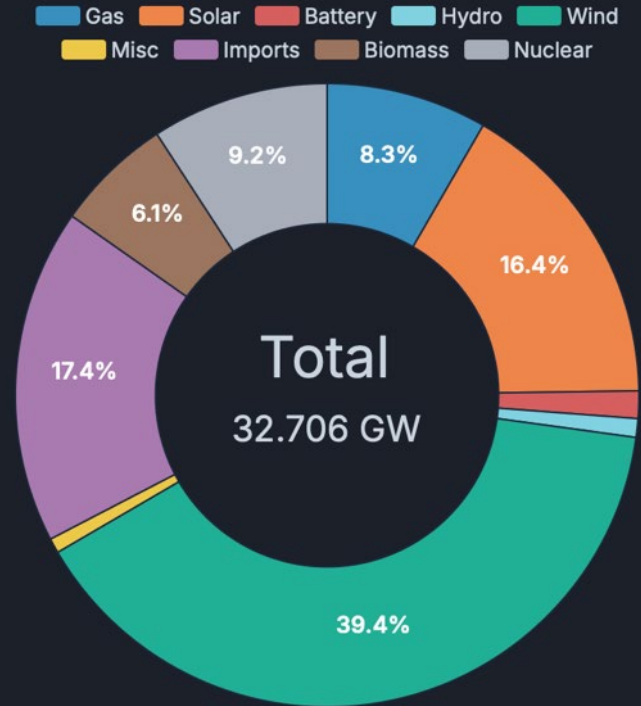
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Setting the Scene

- At 8am this morning in the South West, the majority of our electricity came from Cornish wind & solar, French imports, Nuclear and the gas turbines at Langage.
- Future energy planning suggests we will need 4x the amount of electricity by 2050 to power our cars & homes.
- In Devon alone, NGED DFES forecast 467 MW of wind installed by 2050 (up from 148 MW).
- New onshore wind will reduce our dependence on oil and gas, it is now the cheapest form of energy generation. It will also make us less vulnerable especially as it is a dispersed technology
- There is still grid availability in many parts of the SW region for new onshore wind
- New battery storage & smart grid technologies will compliment new wind, stabilising the peaks and troughs in consumer demand alongside baseloads from hydro, tidal and geothermal.

Generation Mix – Today at 08:05  





Devon Energy Collective

- Not for profit community interest company CIC
- Works with community groups
- To deliver renewable energy generation projects.
- Creating clean, locally owned & operated energy projects
- All surpluses reinvested in carbon reduction initiatives in Devon.
- Benefits & empowers communities
- Strengthens Devon's local economy
- Partner of the Devon Climate Emergency and work closely with Devon County Council
- Work alongside councils, businesses and community groups.
- Awarded grant by SWNZH to resubmit Octopus application as a community owned wind turbine that delivers local benefits
- Also running Repower South Brent Wind project with funding from SWNZH

Partners & Funding

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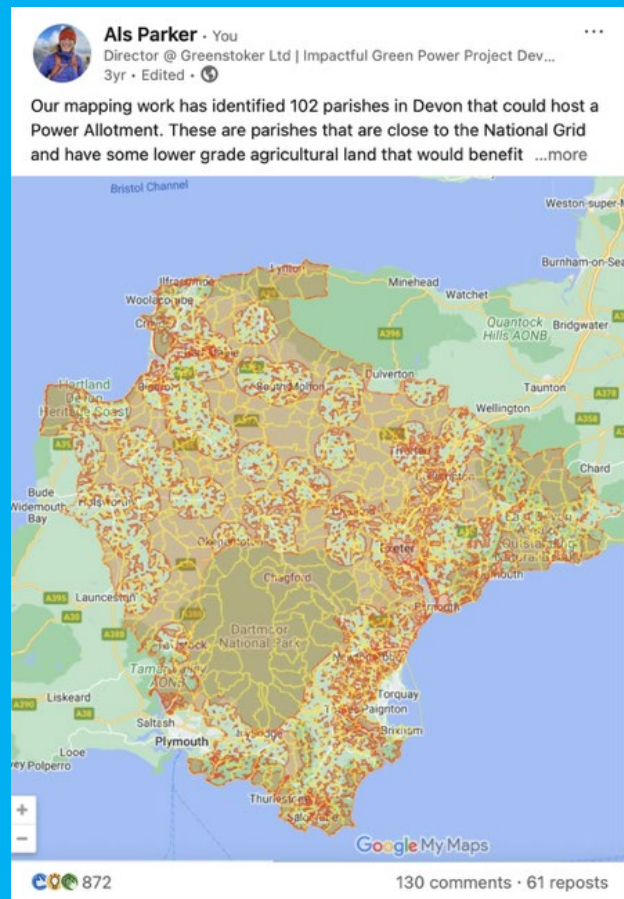
Power Allotments (2023) asked every parish & town council in Devon to identify a site within their local area for either:

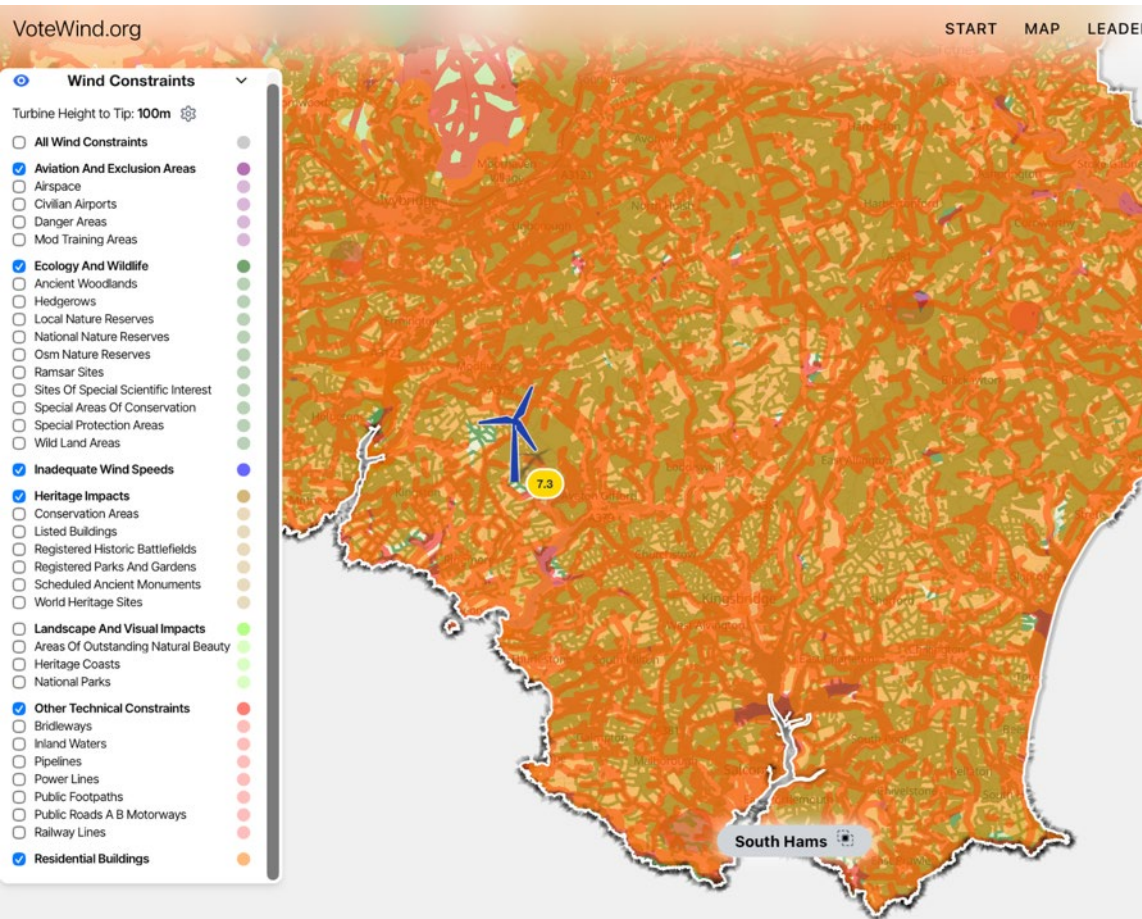
- 5 acres or more of land for 1MW solar
- Land for 1 to 3 wind turbines x 1MW wind

10,500 views on our interactive map & 73 sites submitted.

If every parish hosted 3 x 1MW wind turbines this would supply all of Devon's domestic electricity needs!

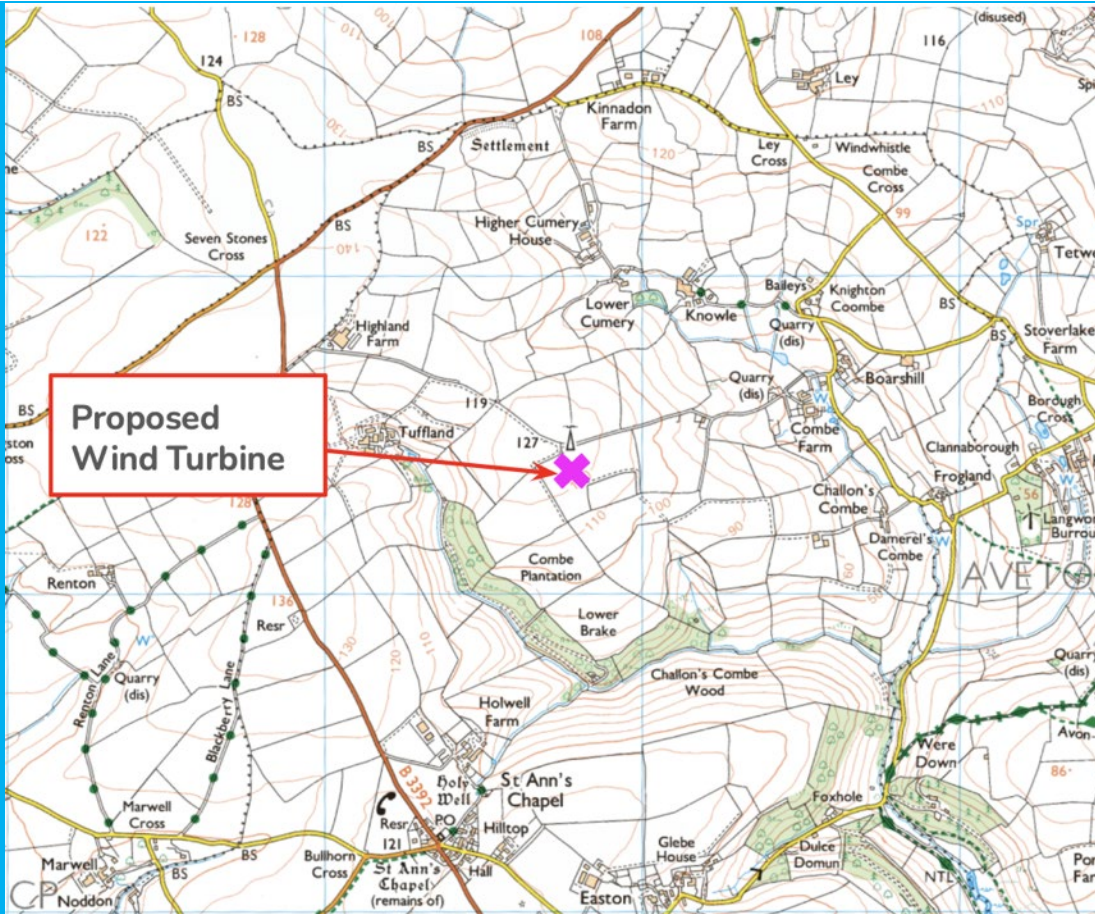
Income opportunity for re-wilding, retrofitting, addressing fuel poverty, protecting communities at risk of climate change.





Considerations for site finding for wind turbines:

- Wind Speeds
- Grid connection
- Household separation (noise)
- Ecology - bats & birds
- Landscape
- Infrastructure
- Heritage
- Aviation
- Telecoms
- Access
- Landowner



Why Bigbury:

- Windy 7m/s at 59m
- A grid connection
- A good distance $>1\frac{1}{2}$ a km from nearby properties meaning no noise impact
- Limited infrastructure - away from footpaths, roads, telecoms, aviation, hedgerows, power lines.
- Space to microsite away from hedges and woodland to avoid birds & bats
- On top of a hill, windy & cold - lower activity for bats and wading birds
- Pasture Ley - lower biodiversity value land, opportunities for enhancement
- No significant Heritage Assets

The Proposal

1MW wind turbine
89m tall to blade tip (59m hub)
Proposed direct drive EWT DW61
Crushed rock access tracks - 4m wide.
Container substation building
Underground cable route to 11kV overhead
wooden pole
Wind Speed 7m/s at 59m hub height & a yield
estimate of 2,900 MWh per year
Timeline – planning in by 31st Oct 2026

Red Flags

In the South Devon AONB
Access issue?
Financial Model – returns



Community Ownership



Create an 'asset lock' so that all surplus profits go to Devon climate & biodiversity initiatives. E.g. rewilding, retrofitting, fuel poverty & energy discounts, low carbon transport etc.

Propose **community ownership** - collectively owning and operating the turbine for the benefit of the community whilst delivering a fair return to local investors over the life of the project.

Establish emerging local supply benefits - i.e. discounts on our electricity bills (no green levies, no transmission costs) in return for a wind turbine in our landscape. Total generation aligns with households in surrounding 3 parishes.

Community Engagement – so far



- Door knocking & 70 info sheets to nearest households
- Ads to community meeting hand delivered (150) and in the local rags
- Interview with Greatest Hits Radio
- Primary School presentations
- Community Meeting 1
- More plans...