



Caersws

Energy Local Opportunities in Powys

The Green Valleys CIC

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The Caersws Energy Zone

1. Description

This relatively small zone contains the river Carno catchment eastwards of Caersws and the Severn valleys westwards to the edge of Newtown. The A470 runs through the centre of the area and it includes those settlements along the A road and the rural areas extending to the uplands north and west of the river Severn.

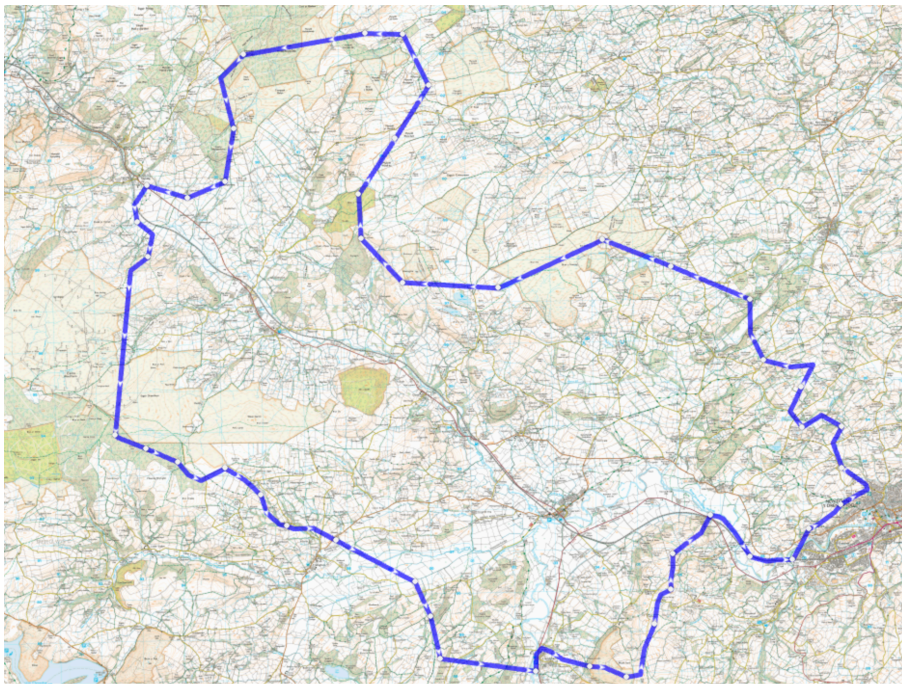


Figure 1 – Caersws energy zone map

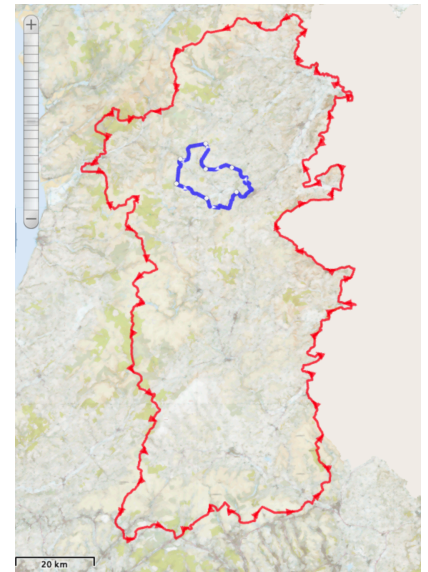


Figure 2 - Powys map

2. Potential viability of an Energy Local Club

As a relatively small area, this zone has a very limited number of renewable installations. A lot of the higher ground away from the river valley is within other energy zones and so wind and hydro is limited to only three fairly small generators.

While a small club would be possible, the limited number of generators decrease the likelihood of finding one who would become part of Energy Local.

Summary of renewable generation in this energy zone

Table 1 - Summary of larger renewable generators in Caersws Zone

	Number of Registered Schemes	Total Installed Capacity	Average Capacity (kW)	Estimated kWh Produced p.a	Approx Number of Homes p.a Equivalent
Hydro	1	29.6	29.6	118,400	30
Wind	2	100.0	50.0	200,000	50
PV >4kW	10	260.8	26.1	208,632	52
TOTAL	13	390.4	30.0	527,032	132

3. Actions to create a successful Energy Local Club

- Approach a wind or hydro generator located anywhere within the zone.
- If a generator can be found, form a local group in Caersws or Carno to support local development
- Local groups can keep a watching brief for any new generators and approach them to engage interest in Energy Local.

4. Overall assessment

An Energy Local Club is potentially viable but there are a very limited number of generators and the installed capacity is quite small. While there are also a number of solar PV installations, it is not expected that these will have much export capacity to serve an Energy Local Club.

It is unlikely that this zone would be able to form an Energy Local Club unless there is additional installed generation in future.