



Llanidloes

Energy Local Opportunities in Powys

The Green Valleys CIC

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The Llanidloes Energy Zone

1. Description

The substation in Llanidloes is located broadly in the centre of this zone. This creates quite a simple area to understand and having only a single area, there is certainty that the identified generators in this zone can potentially supply energy to Llanidloes and the surrounding small settlements.

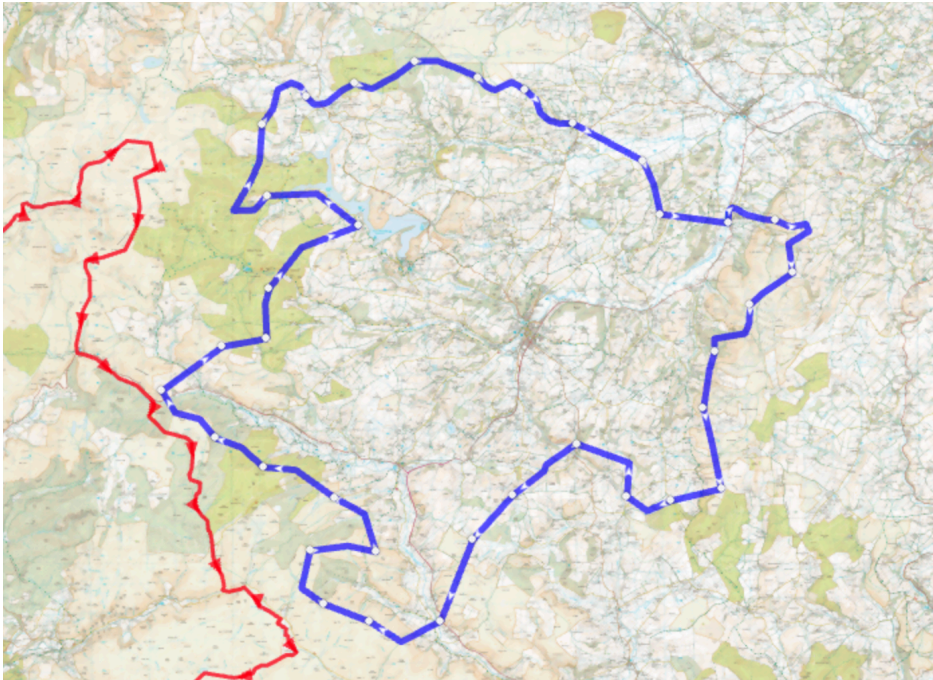


Figure 1 – Llanidloes energy zone map

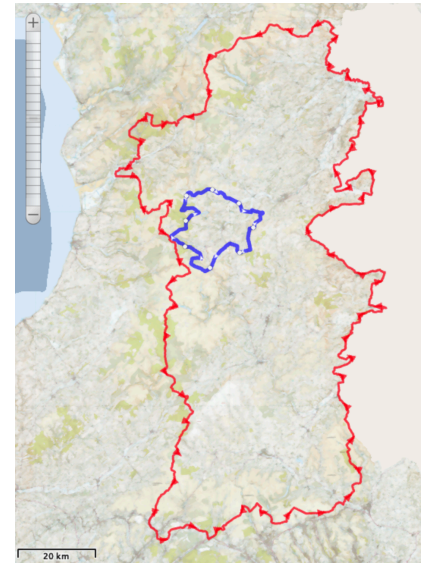


Figure 2 - Powys map

2. Potential viability of an Energy Local Club

There are a number of suitable hydro and wind generators of likely large enough capacity to supply a relatively large Energy Local Club. There are also a significant number of potential consumers in Llanidloes and this can make recruitment and promotion more straightforward.

The substation here has several circuit loops and it might be possible to form more than one club in this zone, though it would be prudent to start with one and consider how this could expand and evolve in future.

Summary of renewable generation in this energy zone

Table 1 - Summary of larger renewable generators in the Llanidloes Zone

	Number of Registered Schemes	Total Installed Capacity	Average Capacity (kW)	Estimated kWh Produced p.a	Approx Number of Homes p.a Equivalent
Hydro	3	135.4	45.1	541,600	135
Wind	6	281.0	46.8	562,000	141
PV >4kW	12	158.3	13.2	126,656	32
TOTAL	21	574.7	27.4	1,230,256	308

3. Actions to create a successful Energy Local Club

- Approach a wind or hydro generator located anywhere within this zone
- If a generator can be found, engage with existing local groups to promote Energy Local and form a network to support Club development
- It is possible that there will be more interest in this zone than can be supplied from a single generator and so creating multiple clubs supplied via separate substation circuits could be considered. This might be possible by forming a single club and if this encourages other generators to join, then forming an additional club in future.

4. Overall assessment

This zone has clear potential for an Energy Local Club if a suitable generator can be engaged. The distribution network here would allow for a relatively large number of potential consumers and engagement via a suitable community group in Llanidloes would be ideal. There are a number of environmental networks in the area that could be engaged to help with local development.

This would be an area to target for Energy Local club development in future and more than one club is a possibility, though this would depend on the location of the generator.