



Llandrindod Wells

Energy Local Opportunities in Powys

The Green Valleys CIC

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The Llandrindod Wells Energy Zone

1. Description

The substation in Llandrindod Wells supplies electricity to a large dispersed area of the river catchments to the north of the town. In addition to the town, the settlements of Crossgates, Howey and Llandegley are within this zone, as are a number of smaller settlements along the A44 and A483.

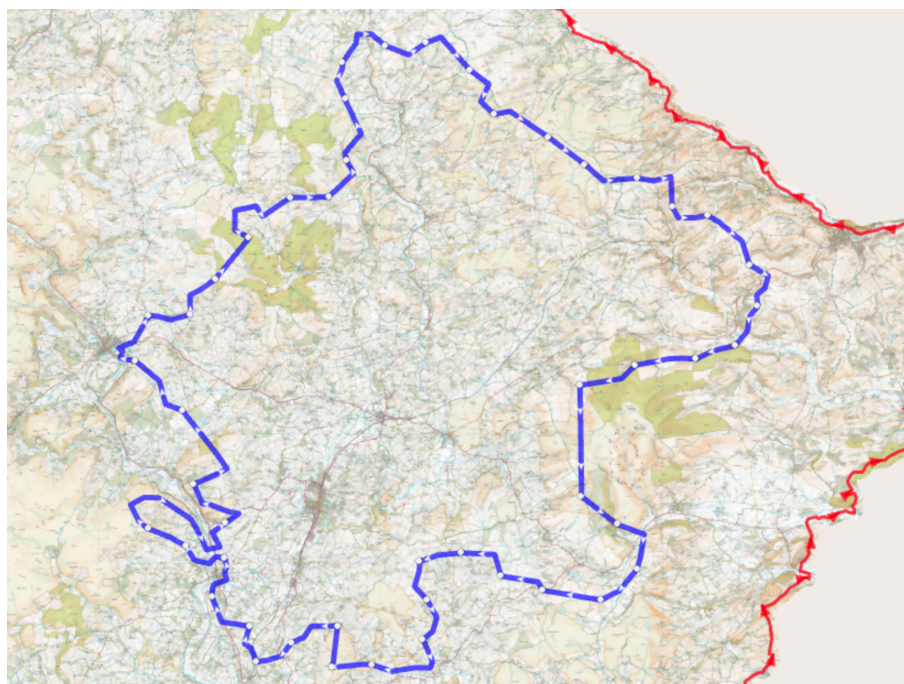


Figure 1 – Llandrindod Wells energy zone map

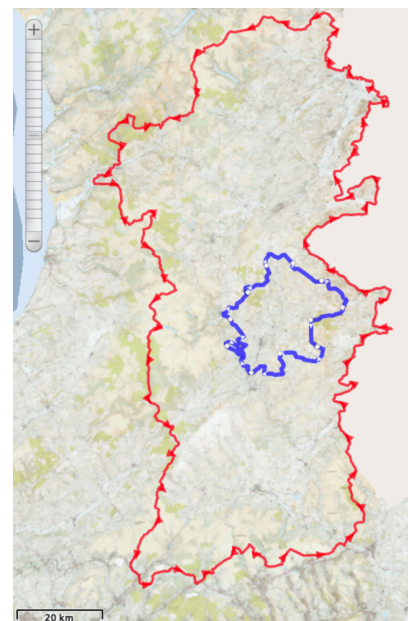


Figure 2 - Powys map

2. Potential viability of an Energy Local Club

There are seventeen wind turbines located within this zone, but only five are of large enough size to produce enough exported energy to serve a club. It is certainly possible that one of these generators can be engaged to provide electricity to an Energy Local Club.

The single hydro scheme also produces enough to serve a club and could also be approached to assess interest.

While there are numerous large solar PV systems, it is expected that these will not produce enough export capacity in winter to support a club. Deemed export arrangements act as a disincentive to become engaged with Energy Local, as this arrangement would be lost and in most instances, it is a favorable deal for the generator.

Recruitment of club members is facilitated by the consumers within the zone being mostly located in Llandrindod and nearby settlements. It is most likely that the generation would be from a wind turbine and this can sometimes create challenges for recruitment of consumers.

Summary of renewable generation in this energy zone

Table 1 - Summary of larger renewable generators in the Llandrindod Wells 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	29.9	29.9	119,600	30
Wind	17	562.2	33.1	1,124,400	281
PV >4kW	18	658.5	36.6	526,832	132
TOTAL	36	1250.6	34.7	1,770,832	443

3. Actions to create a successful Energy Local Club

- Approach one of the larger wind or the hydro generator
- If a generator can be found, form a local group in the town to aid recruitment of Club members. Number will depend on which generator wishes to be involved, but a minimum of 30 is expected

4. Overall assessment

An Energy Local Club is potentially viable and there are a number of wind turbines that would have enough export capacity, along with a single hydro system. Recruitment of members is aided by the majority of the population being in, or close to Llandrindod Wells.