



Knighton and Presteigne

Energy Local Opportunities in Powys

The Green Valleys CIC

CRiC, Beaufort Street, Crickhowell, NP8 1BN

www.thegreenvalleys.org



The Knighton and Presteigne Energy Zone

1. Description

This zone consists of two areas of the Welsh border supplied by substations in England. The Knighton area is a narrow strip of the border between Knighton and Felindre. The Presteigne area is a small area of Powys containing the town and farmland to the south and west of the town.

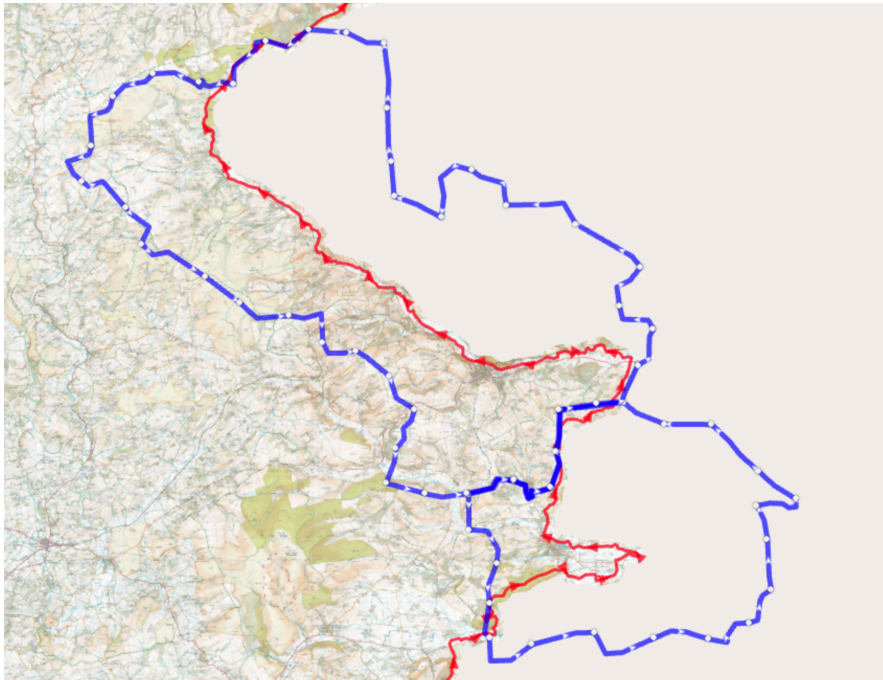


Figure 1 – Knighton and Presteigne energy zone map

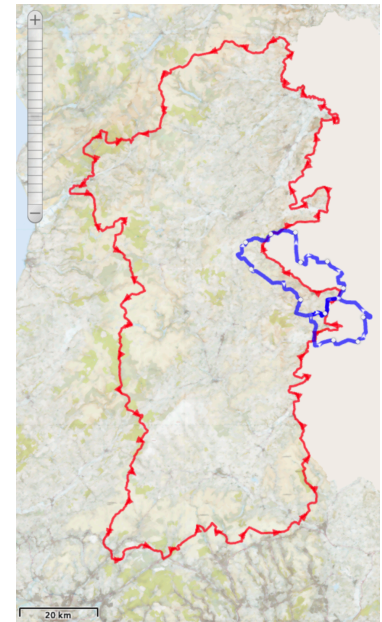


Figure 2 - Powys map

2. Potential viability of an Energy Local Club

While there are six hydro and wind generators in this zone all are too small to provide enough export to serve an Energy Local Club.

There are however a significant number of solar PV systems but only two are of large enough export capacity to potential serve a Club. Overall benefit to the generator is likely to be quite minimal which makes it unlikely a generator would join the club.

It is also expected that a significant amount of generation within this zone is outside of Powys

Potential club membership is dispersed and this poses challenges for recruitment. For generators located outside of Powys, it is likely that the majority of the consumer membership would also be outside of Powys.

Summary of renewable generation in this energy zone

Table 1 - Summary of larger renewable generators in the Knighton and Presteigne 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	2.6	2.6	10,400	3
Wind	5	41.0	8.2	82,000	21
PV	27	857.0	31.7	685,608	171
TOTAL	33	900.6	27.3	778,008	195

3. Actions to create a successful Energy Local Club

- Approach the largest solar PV generator and assess interest in Energy Local.
- Engage with community groups in Knighton and Presteigne to introduce Energy Local.

4. Overall assessment

An Energy Local Club is unlikely to be feasible in this zone, but cannot be discounted if the single largest solar PV generator can be engaged successfully.