



Crickhowell

Energy Local Opportunities in Powys

The Green Valleys CIC

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The Crickhowell Energy Zone

1. Description

The substation in Crickhowell distributes electricity to this part of the Usk valley including the settlements of Llangattock, Llangynidr, Cwmdru, Llangenny and Llanbedr. This zone also includes an extensive upland area of the Black Mountains and extends south-east to the border with Monmouthshire.

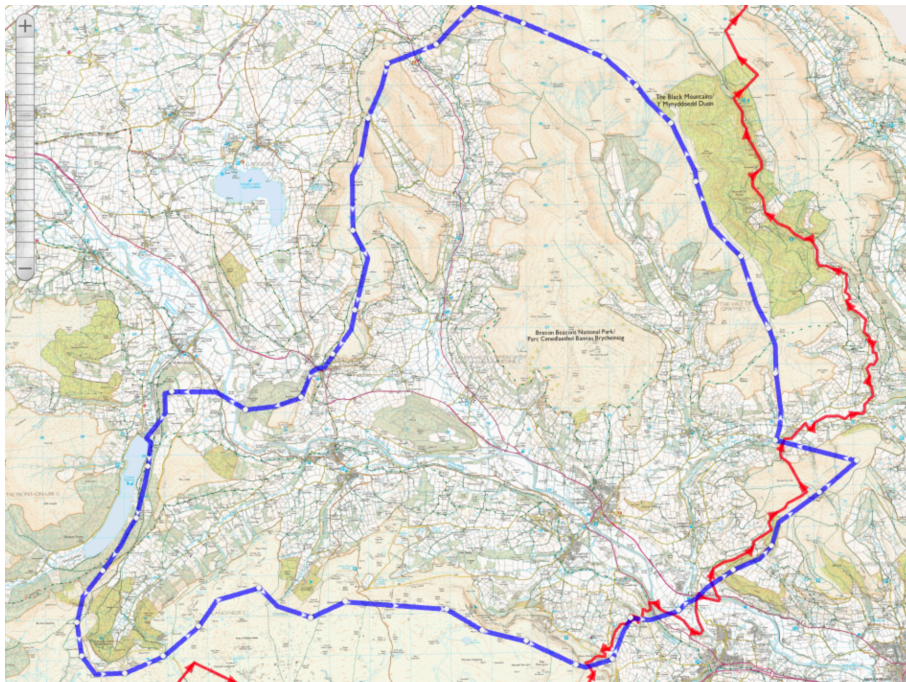


Figure 1 – Crickhowell energy zone map

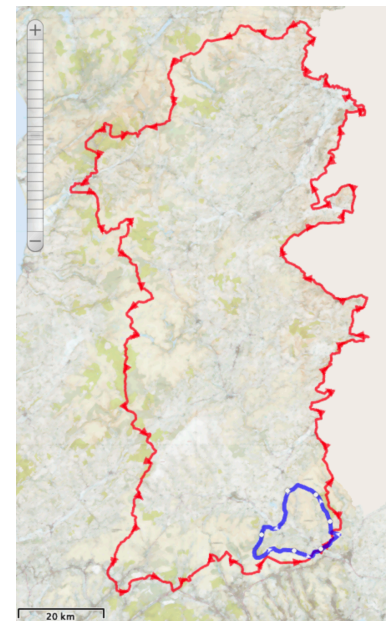


Figure 2 - Powys map

2. Potential viability of an Energy Local Club

There are five hydro generators within this zone and while relatively small systems, there are large enough to provide electricity to an Energy Local Club.

This area was one of the first to be approached by Energy Local as a community owned generator agreed to become part of the Energy Local Club and assisted with recruitment of consumers.

If in the future it becomes possible for an Energy Local Club to include multiple generators, this would be an ideal zone to target for expansion of the existing Club.

Summary of renewable generation in this energy zone

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

	Number of Registered Schemes	Total Installed Capacity	Average Capacity (kW)	Estimated kWh Produced p.a	Approx Number of Homes p.a Equivalent
Hydro	5	108.5	21.7	434,000	109
Wind	0	0.0	0.0	0	0
PV >4kW	18.62	18.6	1.0	14,896	4
TOTAL	23.62	127.1	5.4	448,896	112

3. Actions to create a successful Energy Local Club

- An Energy Local Club started operating in this zone in early 2021

4. Overall assessment

An Energy Local Club has been established. The generator is a hydro system located within this zone. The maximum number of consumer members is approximately 35.