SSE Network Development in the Slough Area

This supplementary note derives its data from public sources and relates to SSE's distribution network in the Slough area. Whilst it relates to the Slough area including the Slough Trading Estate it does not include any evidence in relation to SEGRO or their commercial strategy.

Currently Slough Trading Estate and the surrounding area is supplied by two bulk supply points that step the voltage down from 132kV fed from Iver to 33kV. The are called Slough and Slough South and are close to the Slough Trading Estate.

Slough BSP currently has three Grid Transformers (GTs) with up to 90MVA of capacity each.

Slough South BSP currently has one Grid Transformer (GT) with up to 90MVA.

SSE are required to plan their network according to Engineering Recommendation P2/8 [1.] which stipulates that a demand group the size of Slough (Class D 60 to 300MW) must be supplied even if one of the GTs are out of service.

The current BSPs can therefore supply 270MVA which assumes three GTs are still in service with 90MVA each.

The current demand combined peak demand on Slough and Slough South BSPs is 227MW according to SSE data.

Therefore, there is currently 43MW of capacity that could be available for growth of DCs in the Slough Trading Estate and wider area.

SSE's network reinforcements are indicated on their online Network Map [2.] and include two new GTs in the Slough area, one at Slough BSP and one at Slough South BSP.

This would increase network capacity available to the Slough area including the Slough Trading Estate by up to 180MVA.

Total Maximum capacity available for additional demand in the Slough area is therefore, 223MW.

If we use Mr Powney's DC efficiency factor (PUE) of 1.3 this would correspond to a maximum IT capacity that could be delivered ahead of the Iver B/Uxbridge Moor of 170MW. This in reality is an over estimate as some of this capacity will be allocated to other users.

1. https://dcode.org.uk/assets/uploads/files/ENA_EREC_P2_Issue%208_(2023).pdf
2. https://network-maps.ssen.co.uk/

In order to significantly increase the capacity of supply in the area either:

1. A new large power station with multiple units (>100MW) would need to be built which would require a DCO consent after the grant of which there would be a significant period of construction.
2. Wait for the connection of Iver B/Uxbridge Moor substation which Mr Stimpson in his evidence states will not complete until 2035.

1. https://dcode.org.uk/assets/uploads/files/ENA_EREC_P2_Issue%208_(2023).pdf
2. https://network-maps.ssen.co.uk/