

Appendix 2. Proposed Joint Local Plan Policies Map Publication Version (October 2024), Renewables Mapping Description Table

Policy CE5 – Renewable energy Policies Map related layer	Description
<p>Ground-mounted solar PV:</p> <p>Map 1 - (PV1 - <1 Ha, <1 MW) Map 2 - (PV2 – 1-5 Ha, 1-4 MW) Map 3 – (PV3 – 5-20 Ha, 5-15 MW) Map 4 – (PV4 – 20-50 Ha, 16-40 MW) Map 5 – (PV5 – 50-120 Ha, 41-100MW)</p>	<p>Potential broad areas of suitability in the districts for ground-mounted solar PV development. Potentially suitable areas are shown in green, and unsuitable areas are shown in red.</p> <p>There are five maps in total, which are set out according to site size (in hectares) as well as their approximate MW capacity.</p>
<p>Onshore wind:</p> <p>Map 1 – (OW1 - <25 metres turbine tip height, <250kW) Map 2 – (OW2 – 25-60 metres turbine tip height, <500kW) Map 3 – (OW3 – 60-100 metres turbine tip height, <500kW–1 MW) Map 4 – (OW4 – 100-150 metres turbine tip height, <1-2.5 MW) Map 5 – (OW3 – 150-220 metres turbine tip height, >2.5 MW)</p>	<p>Potential broad areas of suitability in the districts for onshore wind development. Potentially suitable areas are shown in green, and unsuitable areas are shown in red.</p> <p>There are five maps in total, which are set out according to onshore wind turbine size (tip height) as well as their approximate MW capacity.</p>
<p>Battery storage</p>	<p>Potential broad areas of suitability in the districts for battery storage development. Potentially suitable areas are shown in green, and unsuitable areas are shown in red.</p>
<p>District heating</p>	<p>Potential district heating opportunities that have been identified in the districts. These include:</p>

	<ul style="list-style-type: none"> • District heating network opportunity areas, identified due to being located in an area with a heat density of at least 3000kW/kw2 • District heating network opportunities from heat waste sites: <ul style="list-style-type: none"> ○ Didcot Power Station B ○ Wallingford Anaerobic Digestion Plant ○ Didcot Data Centre • Previously identified district heating network opportunities from the Didcot Garden Town Heat Mapping and Energy Masterplanning study by AECOM in 2017 • Potential opportunities where water-source heat pumps could be utilised for district heating networks due to the site being situated adjacent to large bodies of water
Hydropower	<p>Potential opportunities for hydro technology, identified at a high level through identifying river obstacles (waterfalls, weirs, and locks), as these features often result in enhanced water flow.</p>