

Meeting:	Hampshire Prosperity Partnership Board
Date:	13 July 2026
Title:	Energy infrastructure gap analysis
Appendices	See draft report by Jacobs attached separately
Report From:	Prosperity – Economy and Skills
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1. Purpose

To present the findings of the draft Energy Infrastructure Gap Analysis report, commissioned by Hampshire County Council and delivered by Jacobs, focusing on energy infrastructure gaps, grid constraints, and strategic recommendations to support Hampshire’s economic growth and net zero ambitions. Jacobs will join the HPPB meeting on 13 July (via Teams) to present an overview of the draft report.

2. Overview of the Report

- The report identifies significant constraints in Hampshire’s electricity network, impacting the region’s ability to meet 2030 and 2050 net zero targets.
- Major network reinforcements are required to enable further renewable generation deployment and support forecasted growth in electricity demand (EVs, heat pumps, etc.).
- Both domestic and utility-scale distributed renewable energy are key to achieving decarbonisation targets.
- Strategic recommendations are provided to inform planning, development, and stakeholder collaboration.

3. Key Findings

- **Network Constraints:** Insufficient capacity for distributed generation connections; limited demand headroom at Nursling and Fleet GSPs; no demand headroom at Lovedean GSP.
- **Renewable Energy Potential:** Utility-scale projects face grid connection delays; domestic low carbon technologies (solar PV, BESS, heat pumps, EV chargers) are less constrained and can support early targets.
- **Strategic Investment:** Ofgem's RIIO-ED3 framework and NESO's tRESP are driving anticipatory investment and strategic planning for future network needs.
- **Highlighted Regions:** Case studies on Nursling (Solent Gateway 2), Fleet (AI Growth Zone), and Lovedean (Solar Development) illustrate specific local challenges and opportunities.

4. Recommendations

- **Short-Term:** Prioritise domestic solar PV, BESS, and EV charge points; consider microgrids and behind-the-meter resources in highly constrained areas.
- **Medium-Term:** Maintain proactive dialogue with SSEN; align energy and transport electrification planning; use "Connection Surgeries" to discuss arrangements and timescales.
- **Long-Term:** Align local strategies with national and regional energy plans; track investment programmes; maintain up-to-date evidence on demand, generation, and constraints to respond to funding and policy changes.

5. Stakeholder Engagement

- Multiple workshops and meetings were held with Hampshire County Council, other local authorities, and SSEN to ensure alignment and knowledge sharing.
- A final knowledge transfer session is planned to equip local authorities with tools to implement energy solutions effectively.

6. Next Steps

- HPPB to comment on the strategic recommendations.
- Support local authorities in implementing practical solutions and engaging with SSEN and other stakeholders.
- Monitor progress and update HPPB on key milestones and outcomes.