

Smarter Network Storage

Dedicated website – No

Organisation webpage – Yes

Centralised portal – ENA Smarter Networks

Objectives/Success Criteria – Yes

Closedown/final report – Yes

Open-source data – No

Peer-reviewed academic output (Primary Subject / Referenced) - 3 / 2

Brochures/Case Studies/Videos – Yes

On-line major conference/event presentations - 2

Dissemination Event / Output available – 1 / 1

Follow-on project – No

Consumer Engagement

Consumer Participation – No

Consumer Feedback – No

Output Summary

Progress reports – Yes

Detailed and objective final report – Yes

Project method detailed – Yes

Performance to objectives detailed – Yes

Lessons learned identified – Yes

Policy/Regulation implications reviewed – Yes (Regulatory barriers to implementation)

Outcomes vs. Objectives/Targets

Performance to objectives – All achieved.

Key Findings

- Design, planning and construction experience gained from the SNS project will inform future development of large scale storage projects with the aim to reduce lead time and ultimately cost.
- Software solutions enabled the optimised operation of the battery storage and integration into network operation. Its robustness and redundancy should be tested with the appropriate rigor.
- Battery storage has the ability to provide peak load management as an alternative to network reinforcement.
- Battery storage has the ability to provide services to the electricity market
- Both DNO led and third party storage business models can be viable
- Regulatory issues can impact on the uptake of storage for network management.
- Allow appropriate amounts of time, costs and effort to obtain planning consents.
- Develop a robust purchase approach and negotiation plan with the procurement team to manage an immature storage supply chain.

- Plan to start early on commercial negotiations as they will take longer than anticipated.
- Allow sufficient time to identify and recruit suitable resources with the required skills for the project.
- Account for system integration challenges in the project plan.