

Ashton Hayes Smart Village

Dedicated website – No, but wider low carbon community initiative website

Organisation webpage – No

Centralised portal – ENA Smarter Networks

Objectives/Success Criteria - Yes

Closedown/final report – Yes

Open-source data – No

Peer-reviewed academic output (Primary Subject / Referenced) - 0 / 0

Brochures/Case Studies - Yes

On-line major conference/event presentations - 0

Dissemination Event / Output available – 0/ 0

Follow-on project – Yes (ACE Project)

Consumer Engagement

Consumer Participation – Yes

Consumer Feedback – No

Output Summary (if applicable)

Progress reports – No

Detailed and objective final report – Yes

Project method detailed – Yes

Performance to objectives detailed – Yes

Lessons learned identified – Yes

Policy/Regulation implications reviewed – No

Detailed closedown report available. Objectives and success criteria restated and performance against objectives and success criteria reviewed. Detailed lessons learned for future projects provided.

Outcomes vs. Objectives/Targets

Performance to objectives – partially achieved

The closedown report reviews performance to objectives and success criteria. Of the five success criteria, one was completely achieved (Has a Direct Impact on the operation of a DNO's Distribution System), two were mostly achieved (Accelerates the development of a low carbon energy sector) and (Focuses on network methods that are at the trialling stage), one partially achieved (Generates knowledge that can be shared amongst all DNOs) and one not achieved (Has the potential to deliver net financial benefits to future and/or existing customers) as a result of the DSR trial being dropped.

Key Findings

- Greater flexibility is required when engaging with communities.
- Solutions should more carefully consider the community demographics (e.g. EV charging potential)

- LV network monitoring was problematic with the recommendation to start at a small scale and scale only when issues are resolved.
- 7-10% of peak demand could be managed with DSR with appropriate regulations and incentives.
- A voltage reduction at local substations would allow more generation to be added.
- LV network visibility is key to allowing new loads and generation to be connected.
- The impact of large variable loads, such as schools, needs to be considered with regard to local renewable generation capacity.