

## Trial Evaluation of Domestic Demand Side Management

Dedicated website – No

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 – No

On-line major conference/event presentations - 0

Dissemination Event / Output available – 0 / 0

Follow-on project – Yes (NINES)

## Consumer Engagement

Consumer Participation – Yes

Consumer Feedback –?

## Output Summary

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 – ?

Detailed and balanced project closedown report with performance to objectives, lessons learned and complete equipment list for replication.

## Outcomes vs. Objectives/Targets

Performance to objectives – All achieved

All project objectives met. Heaters controlled with a daily schedule, controlled by a remote signal, schedule overridden with set point controls, storage heaters performed grid frequency support, frequency response settings remotely updated, and data monitoring and retrieval to a remote recording system successfully completed.

## Key Findings

- DDSM improved consumer's ability to control heating and provided additional hot water availability.
- Control logic hierarchy requires more detailed review to improve the consumer experience.
- Protocols for remote communication and data storage were problematic and require improvement, including wireless capability to reduce installation requirements.

- Interfacing with the customers from an early stage is important to ensure acceptance and effective use of equipment. Follow up visits after installation are also important for ongoing involvement, as are user guides for equipment use.