

DMIA Case Study

Western Grid Technology Opportunities Review - Lab Testing and Product Development



Part of Energy Queensland

Project outline

The Western Grid refers to extensive Single Wire Earth Return (SWER) networks. These networks can require upgrades to service the evolving power needs of their customers.

The project sought to further our understanding of device capabilities and opportunities for deployment to increase network capacity and improve power quality at reduced cost on the Western Grid.

The suppliers and manufacturers of the tested devices were engaged and were provided feedback.

The devices tested were:

Product	Category	Partner
LVR-30	Voltage Regulator	Fundamentals Australia Pty Ltd
SP PRO	BESS Integrator	Selectronic Australia Pty Ltd
EcoSTORE	BESS Integrator	EcoJoule Energy Pty Ltd
UBI 3.0	HEMS	Mondo Power
ElektroBank	BESS Integrator	Empower Energy

Project outcomes / findings

The project has identified several devices suitable to pilot for use on SWER networks. The manufacturers were engaged to enhance learnings and provided feedback for additional product development.

The device testing highlighted the importance of several key attributes:

- Operational independence from constant communications / internet.
- Robust performance during power interruptions and at various voltages.
- Documentation of the device to allow the technician to get the best performance out of the device.

Next steps

The next steps are to trial several devices on network locations to apply the project learnings in real world situations.

More information

- For enquiries about the Western Grid Innovation Lab testing, contact Chris Lesmeister: chris.lesmeister@energyq.com.au
- For general enquiries about DMIA, contact the Demand Management group: demandmanagement@ergon.com.au.