

Smart Grid, Smart City Program Update

Community Stakeholder
Reference Group Meeting
23 November 2011



Australian Government
**Department of Resources,
Energy and Tourism**

Smart Metering Infrastructure

Achievements

- ✓ Continuation of meter testing processes
- ✓ Commencement of roll-out for Network / Project driven meters across SGSC trial area - Oct 2011

3-6 month outlook

- Continuation of Network meter roll-out across the SGSC trial area



Customer Applications

Achievements

- ✓ Sampling & Trial Design completed & customers selected
- ✓ Design, build & testing of key feedback technologies
- ✓ Basic Web Portal currently undergoing testing
- ✓ Selection of Simple & Advanced In Home Displays (IHD)
- ✓ Product offers developed

3-6 month outlook

- Launch of SGSC Contact Centre
- Commencement of feedback technology offers for Network meters
- Commencement of Retail offers and meter roll-out



Distributed Generation & Storage

Newington, Sydney (former Olympic Village) – Auburn LGA

Achievements

- ✓ Network re-configured to concentrate effects
- ✓ Distribution centre sensing & monitoring in place
- ✓ All owners of 254 non-performing Solar PV systems offered free inspection & repair quote - telephone & mail campaigns
- ✓ Inspections & repairs completed

3-6 month outlook

- Investigation of Grid battery



Distributed Generation & Storage

Elmore Vale / South Wallsend – Newcastle LGA

Achievements

- ✓ Approx. 500 residential customers invited to host gas fuel cell or storage battery
- ✓ Mail, telephone & door knocking recruitment campaigns
- ✓ Recruitment process completed for gas fuel cells, majority devices installed
- ✓ Vendor selected for small wind turbines
- ✓ Small wind turbine site selection process commenced

3-6 month outlook

- Completion of host recruitment & installation of storage batteries
- Community consultation for small wind turbine sites



Gas fuel cell



Storage battery

Distributed Generation & Storage

Upper Gundy – Upper Hunter Shire LGA

Achievements

- ✓ Customers identified
- ✓ Vendor selected for small wind turbines
- ✓ Small wind turbine site selection process underway

3-6 month outlook

- Offers to customers for storage batteries to commence



Small wind turbine

Grid Applications

Achievements

- ✓ Detailed design of Grid Applications solutions continuing with focus on Nelson Bay area
- ✓ Fault Detection, Isolation & Restoration (FDIR) – Pre-fault project commenced
- ✓ Active Volt-Var Control (AVVC) – sites / feeders chosen in Nelson Bay area
- ✓ Wide Area Measurement (WAM) – engagement & design discussions with Transgrid
- ✓ Feeder Taxonomy – CSIRO & Ausgrid have commenced engagement

3-6 month outlook

- Finalisation of FDIR detailed designs & further installation of equipment in Nelson Bay area
- Continuing engagement with CSIRO & industry on Feeder Taxonomy



Electric Vehicles

Achievements

- ✓ 20 Mitsubishi i-MiEVs in use
- ✓ 3 vehicles on loan to City of Newcastle, Lake Macquarie City Council & Hunter Water Corporation
- ✓ Slow charge points installed at Ausgrid Head Office, Depots & SGSC Centre
- ✓ Information gathering Tablet computers installed in all vehicles

3-6 month outlook

- Completion of slow charge installations
- Installation of fast charge infrastructure between Sydney & Newcastle



Slow charge point

Community & Industry Engagement

Achievements

- ✓ Presentations and attendance at various industry, stakeholder & community forums
- ✓ Launch of *Smart Grid, Smart City* website: www.smartgridsmartcity.com.au
- ✓ International Utilities Working Group (IUWG) Symposium in Sydney & Newcastle – delegates from Asia, North America, Europe – 31 Aug & 1 Sep 2011
- ✓ Community & Stakeholder research – Aug & Sep 2011
- ✓ Official Opening *Smart Grid, Smart City* Centre – 2 Sep 2011
- ✓ Community Day at SGSC Centre – 3 Sep 2011
- ✓ E-newsletter (Nov 2011)
- ✓ SGSC Program fact sheets

3-6 month outlook

- Attendance at various forums & events
- Community seminars at SGSC Centre
 - Solar Seminar – 30 Nov 2011



Project Management

Achievements

- ✓ Delivery of agreed reporting to Australian Government via Information Dissemination Portal
- ✓ 4 Operational Reports
- ✓ Plans updated 6 monthly
 - Project Management Plan
 - Risk & Security Plan
 - Community & Industry Engagement Plan
 - Monitoring & Measurement Plan
- ✓ First Annual Financial Report
- ✓ First Monitoring & Measurement Report



3-6 month outlook

- Operational Reports
- Plan updates
- Delivery of 2nd Monitoring & Measurement Report

Questions

The *Smart Grid, Smart City* Program will produce data that will inform the business case for smart grids across Australia.

There are many opportunities for you to be involved and provide your input and feedback to help shape the program.

