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## Christchurch Smarter Grid Roadmap

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EGEE&C 40 Meeting, Taipei, November 2012

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1

## Christchurch Smarter Grid Roadmap

### Canterbury Earthquake Recovery:

- ~ 80% of central city being demolished
- 20,000 homes to be replaced
- Significant infrastructure repair and replacement required
- Electricity grid performed well, but repairs required.
- NZ \$30+ billion of damage



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## Christchurch Smarter Grid Roadmap

### Project Objectives:

- Make a relevant contribution to Phase 2 of the APEC Smart Grid Initiative (ASGI) - *Smart Grid 'Roadmap'*
- Prepare a *Roadmap for Achieving a Smarter Grid through the Christchurch Recovery* that sets out a practical course of action to cost-effectively maximise the benefits of a smarter grid system in Christchurch.
- Provide a guide for smarter grid development during the Christchurch rebuild, findings that are of value for New Zealand and a case study that is relevant to the APEC community.



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3

## Christchurch Smarter Grid Roadmap

### Project Progress:

- Project has taken longer than anticipated but is now well advanced.
- Developing a Smarter Grid Roadmap for the Christchurch recovery has proved challenging due to the complexity of power systems, especially when regulatory and commercial structures at a national scale are factored in.
- The rebuild opportunity is more about built infrastructure. The smarter grid opportunities and barriers appear to be best addressed at a national level. The lesson being that a regional smart grid roadmap might not be the best approach.



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4

## Christchurch Smarter Grid Roadmap

### Next Steps:

- Project extension until 30 March 2014 has been requested.
- The extra time will allow for a reasonable review period for all stakeholders.
- Expectation is that the Report and Roadmap will be circulated to APEC stakeholders for comment/endorsement by January 2014.
- Input from other APEC economies is still very welcome.  
Contact [tim.taylor@eeca.govt.nz](mailto:tim.taylor@eeca.govt.nz)



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