

Capital Works Projects Report - March 2012

Programme / Project Name	Overall Status	Time Status		Cost Status		Forecast/ Actual Commission	Approved Commission	Approved Budget	Narrative															
NIGUP Programme	Ⓐ	→	Ⓐ	→	Ⓐ	Spring 2012	Spring 2012	\$860.0m	<p>Overhead Line</p> <p>Access : 419 (98%) Foundations: 410 (96%) Tower Erection 368 (86%) Conductor Pull 10 (34%) Sag/ clamp 8 (28%)</p> <p>Underground Cable</p> <table border="0"> <tr> <td></td> <td>Circuit 1</td> <td>Circuit 2</td> </tr> <tr> <td>Excavation</td> <td>16.0 (94%)</td> <td>17.0 (100%)</td> </tr> <tr> <td>Cable installation</td> <td>16.0 (94%)</td> <td>17.0 (100%)</td> </tr> <tr> <td>Graded Backfill</td> <td>15.3 (90%)</td> <td>15.1 (89%)</td> </tr> <tr> <td>Joints and bays</td> <td>13.8 (77%)</td> <td>15.0 (83%)</td> </tr> </table>		Circuit 1	Circuit 2	Excavation	16.0 (94%)	17.0 (100%)	Cable installation	16.0 (94%)	17.0 (100%)	Graded Backfill	15.3 (90%)	15.1 (89%)	Joints and bays	13.8 (77%)	15.0 (83%)
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HVDC Pole 3 Programme	Ⓒ	→	Ⓒ	→	Ⓒ	Winter 2014	Spring 2014	\$672.3m	<p>Key dates:</p> <p>Commissioning Pole 3: mid-February 2013 Decommissioning Pole 1: August 2012 Pole 2 control system replacement: commencing Spring 2013 Commissioning STATCOM: Winter 2014</p> <p>The control system work is a critical focus item for the project. Siemens commenced the factory witness testing with Transpower on 20 February 2012. Testing progress is satisfactory. Manufacture, testing and delivery of equipment is on plan. The civil works are nearing completion.</p> <p>Work on IST projects, site improvement works and synchronous condenser transformers continues to plan.</p> <p>The transmission line works are progressing satisfactorily.</p>															

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NAaN Programme (including Customer Projects)	G	→	G	↓	G	Winter 2013	Winter 2014	\$493.0m	<p>Key dates: Albany to Wairau – Cable installation from January 2012 through to late winter 2012 Wairau Road to Hobson St – Cable installation from June 2012 through to late summer 2013 Hobson St to Penrose – cable installation mid-2012-mid 2013 (exact dates TBC) Pakuranga to Penrose – cable installation from October 2012 through to autumn 2013.</p> <p>The overall programme remains on track.</p>
Wairakei-Whakamaru New C Line Programme	G	↓	G	↓	G	Late 2013	Late 2013	\$135.4m	<p>Civil works (Brian Perry Civil) are expected to commence in April 2012. Site works to establish a project site office are to commence by the end of March. The Wairakei substation constructability plan is being drafted. Tender documents for the substation contract are being prepared.</p>
Upper NI Dynamic Reactive Support Programme	A	→	A	→	G	Early 2014	Early 2014	\$98.2m	<p>For the Marsden and Penrose STATCOM projects, design continues and the baseline schedule is now set. Seismic testing of the control and protection equipment was completed in Italy.</p> <p>The Reactive Power Controller (RPC) project's end date is still under review and will be confirmed once scope agreed.</p> <p>For the load monitoring project, power quality (PQ) meters are recoding data. Load models are being developed and are nearing completion.</p> <p>For the System Operator software project, SO Soft Project, initial scoping and planning of the project has commenced.</p>

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Clutha Upper Waitaki Lines Programme	Ⓞ	→	Ⓞ	↓	Ⓞ	Mid 2018	Mid 2018	\$196.5m	<p>For the CYD-ROX and AVI-LIV Duplexing works, Solution Study Reports are currently being reviewed.</p> <p>The first significant works will be undertaken on the CYD-ROX section with the duplex conductor installation scheduled for January to late autumn 2013. A Registration of Interest for the reconductoring work will be undertaken in April 2012.</p> <p>The timing of the implementation of the AVI-BEN, ROX-LIV, and CML-TWZ projects will be reviewed again in June 2013.</p>
Lower South Island Reliability Programme	ⓐ	→	ⓐ	↑	Ⓞ	Autumn 2015	Autumn 2015	\$40.9m	<p>Gore Hard Tee Stakeholders have been informed of the selected route for the Gore 220 kV Hard Tee line.</p> <p>Gore Interconnecting Transformers Potential for deferral in Gore 220/110 kV interconnection dependent on project prioritisation and other resource commitments.</p> <p>Invercargill Replacement Transformers As above.</p> <p>Roxburgh replacement transformer Installation contract for the replacement of Roxburgh T10 has been awarded to Transfield Services Ltd.</p>
Western Bay of Plenty Upgrade	Ⓞ	→	Ⓞ	→	Ⓞ	Late 2012	Winter 2013	\$18.8m	Project largely on track.

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Wanganui - Stratford Conductor Replacement	Ⓜ	→	Ⓜ	↑	Ⓢ	Late 2012	Winter 2012	\$23.6m	<p>The project's forecast end cost has increased as costs are identified for thermal chain work at the substations.</p> <p>The Wanganui - Waverley section reconductoring was commissioned on 19 May 2011. Some structures in this section are still to have their crossarms stiffened. An outage will be arranged for this work in early 2013.</p> <p>Further work on substation primary plant at Wanganui, Waverley, Hawera and Stratford is required to achieve the full line uprating.</p> <p>Note that the HWA_WVY section is under separate report.</p>
Hawera to Waverley Reconductoring	Ⓢ	→	Ⓢ	↑	Ⓢ	Winter 2012	Winter 2012	\$8.2m	<p>Construction work to reconductor the final section of the Wanganui to Stratford line (from Hawera to Waverley) is underway. Approximately 50% of the poles requiring replacement have been completed and stringing has commenced.</p>
Redclyffe 110 kV Full Local Backup	Ⓜ	↑	Ⓜ	→	Ⓜ	Winter 2012	Late 2011	\$2.5m	<p>The 110kV Bus Zone Protection commissioning has been delayed to Winter due to supply chain delays.</p>

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<u>Red, Amber, Green (RAG) and Trend Indicator Legend</u>			
Symbol	TIME	COST	OVERALL
Ⓡ	Forecast commissioning date exceeds the current approved commissioning date.	Forecast end cost exceeds current approved budget	Either, or both, time and cost exceed targets
ⓐ	Forecast commissioning date is within 30 days of the current approved commissioning date, but does not exceed it.	Forecast end cost is between 95% and 100% of current approved budget	Although not exceeding current targets, forecast time is within 30 days of approved commissioning date , and/or forecast end cost is within 5% of approved target cost. The approved time and cost targets include Business Case Adjustments
ⓐ	Forecast commissioning date is earlier than the approved commissioning date by more than 30 days	Forecast end cost is less than 95% of current approved budget	Neither time nor cost exceed planned targets whilst forecast commissioning and forecast end cost are not within 30 days or 95% of target
↑	This month's forecast commissioning date is later than last month	This month's forecast end cost is greater than last month by more than \$0.1m	
→	No change in forecast commissioning date	No change in forecast end cost	
↓	This month's forecast commissioning date is earlier than last month	This month's forecast end cost is less than last month by more than \$0.1m	