

Capital Projects Report – month end October 2011

| Programme / Project Name | Overall Status | Time Status | | Cost Status | | Forecast/ Actual Commission | Approved Commission | Approved Budget | Commentary | | | | | | | | | | |
|--------------------------|----------------|-------------|---|-------------|---|-----------------------------------|------------------------|--------------------|--|--------|----------|-------------|----------|----------------|----------|--------------------------|-------|-------------------------|------|
| NIGUP Programme | Ⓐ | → | Ⓐ | ↑ | Ⓐ | 28 Sep 12 | 30 Sep 12 | \$860.0m | <p>Overhead lines Good progress continues on overhead line construction although completion of tower access road and site infrastructure has slowed: Total to date (<i>% of total completed</i>)</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">Access</td> <td style="text-align: right;">371 (87)</td> </tr> <tr> <td>Foundations</td> <td style="text-align: right;">334 (78)</td> </tr> <tr> <td>Tower Erection</td> <td style="text-align: right;">269 (63)</td> </tr> <tr> <td>Stringing Runs Available</td> <td style="text-align: right;">9(31)</td> </tr> <tr> <td>Stringing Runs Complete</td> <td style="text-align: right;">1(4)</td> </tr> </table> <p>Underground cables First section of underground cable in Dannemora completed.</p> | Access | 371 (87) | Foundations | 334 (78) | Tower Erection | 269 (63) | Stringing Runs Available | 9(31) | Stringing Runs Complete | 1(4) |
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| HVDC Pole 3 Programme | Ⓒ | → | Ⓒ | ↑ | Ⓒ | 27 Jun 14 | 28 Aug 14 | \$672.3m | <p>Key dates: Commissioning Pole 3: late December 2012 Decommissioning Pole 1: from early July 2012 Commissioning STATCOM: late June 2014.</p> <p>The planned commercial operations date remains 24 December 2012. To facilitate this, Pole 1 will be shut down in early July 2012. Transpower and Siemens continue to investigate opportunities for optimising the overall project schedule for the 24 December 2012 commissioning date. In particular the focus is on the control system software implementation and testing schedule. Other aspects of the works (other than control systems) are proceeding to the present schedule.</p> | | | | | | | | | | |
| NAaN Programme | Ⓒ | → | Ⓒ | ↓ | Ⓒ | 5 Jul 13 | 27 May 14 | \$415.0m | <p>The overall programme remains on track and on budget. We are transitioning from the planning and design phase into construction and site works will be ramping up over the coming weeks. Cable manufacture now underway by both parties. Dismantling works for PAK-PEN line to commence in November.</p> | | | | | | | | | | |

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| | | → | ⌚ | ↑ | ⬇ | | | | |
| Wairakei-Whakamaru New C Line Programme | ⌚ | → | ⌚ | ↑ | ⬆ | 26 Apr 13 | 30 Apr 13 | \$134.8m | <p>The Request For Information for Civils, Foundations and Tower Erection has been assessed and candidates short-listed for tendering. The proposed foundation designs are under review prior to going out to tender. NIGUP learning's being incorporated. The draft Outline Plan for Taupo District Council is being prepared and on programme to be submitted in November.</p> <p>The Wairakei Substation detail design is scheduled for completion in December 2011. This incorporates the approved design approach for the circuit entry issue.</p> |
| Upper NI Dynamic Reactive Support Programme | ⌚ | → | ⌚ | ↑ | ⬆ | 31 Jan 14 | 31 Jan 14 | \$98.2m | <p>The project for the two new STATCOMS is underway with management plans being submitted and design processes started by Siemens.</p> <p>Initial project planning for the Auckland Reactive Power Controller is underway. For the load monitoring project, Power Quality (PQ) meters are installed, data is being recorded and the data is being sent back to Energy Monitoring Services.</p> <p>System Operator Software investigation is ongoing to determine how to implement the Transient Stability -Analysis tool online.</p> |
| Clutha Upper Waitaki Lines Programme | ⌚ | → | ⌚ | ↓ | ⬆ | 27 Apr 16 | 30 Apr 16 | \$197.9m | <p>Continuing to work on the review of project timings in light of lower than forecast demand. Review decision expected in late November.</p> |
| Lower South Island Reliability Programme | ⌚ | → | ⌚ | ↑ | ⬆ | 1 Apr 15 | 1 Apr 15 | \$40.7m | <p>A route selection paper recommending the preferred route and structure type for Gore 220 kV Hard Tee requires amendments prior to approval by the GMs/CEO. Strategies for further consultations with stakeholders and the directly affected landowners will be updated upon receiving approval of the route and structure type.</p> <p>Gore 220/110 kV interconnection: conceptual design is underway.</p> <p>Balclutha 33 kV shunt capacitors: have been deferred until 2014-15.</p> <p>Roxburgh T10 replacement: design nearing completion</p> <p>Invercargill T1 replacement: detailed design tender will not be issued until after the design for the Roxburgh 220/110kV interconnector transformer replacement is completed.</p> |
| Western Bay of Plenty Upgrade | ⬆ | → | ⬆ | → | ⬆ | 14 Nov 12 | 30 Jun 13 | \$18.8m | <p>Kaitimako transformer foundation pre-loading installation removal has been completed. Installation tender specification for the main works at Kaitimako and Tarukenga has been completed and the tenders issued.</p> <p>Kaitimako–Tarukenga final circuit upgrading and voltage upgrade commissioned in October, with some further work required in February 2012.</p> |

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| Bombay 110kV Full Local Backup | Ⓜ | → | Ⓜ | → | Ⓢ | 2 Mar 12 | 31 Mar 12 | \$6.4m | The Installation Services contract has been placed with Transfield Services with site works underway. A possible issue has been identified (27 October 2011) with the new HYPact circuit breaker current transformers (CTs). If a number of CTs are found to be unsuitable or faulty, this has the potential to significantly delay project outages. The project team are working to clarify the issue and mitigation measures. |
| Wanganui - Stratford Conductor Replacement | Ⓢ | ↑ | Ⓢ | → | Ⓢ | 24 Oct 12 | 31 Jul 12 | \$23.6m | The Wanganui - Waverley section reconductoring was commissioned on 19 May 2011. A number of structures in this section are still to have their crossarms stiffened. An outage will be arranged for this work in early 2012. Further work on substation primary plant at Wanganui, Waverley, Hawera and Stratford is required to achieve the full line uprating. The Hawera work will be undertaken as a separate project to rebuild the Hawera substation. The detailed design for the final section of the Wanganui to Stratford line from Hawera to Waverley has been completed. The outage for reconductoring the Hawera to Waverley section is planned to start in February 2012. Some replacement work may be done live line prior to this outage. |
| Redclyffe 110 kV Full Local Backup | Ⓢ | → | Ⓜ | → | Ⓢ | 13 Dec 11 | 20 Dec 11 | \$2.5m | The bus coupler has been successfully commissioned. The outage for the installation of the T2 circuit breaker installation and transformer protection replacement commences in early November, which will then be followed by commissioning of the 110kV bus zone protection. |

Red, Amber, Green (RAG) and Trend Indicator Legend

| 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 | |
| ↓ | Forecast commissioning date exceeds the current approved commissioning date. | This month's forecast end cost is less than last month by more than \$0.1m | |