



TransGrid's Submission to the  
Australian Competition & Consumer  
Commission

---

**Revised Transmission Capital  
Investment Program 2004-2009**

---

Attachment 1A

Project Costing Summary Sheet

*November 2004*

# ATTACHMENT 1A

	Estimated Cost 5 years	2005	2006	2007	2008	2009
<b>M Background Included Projects Summary Sheet</b>	<b>1,527</b>	<b>171</b>	<b>237</b>	<b>278</b>	<b>460</b>	<b>382</b>
<b>Asset Replacement</b>						
<b>Sub Total (Asset Replacement)</b>	<b>326</b>	<b>67</b>	<b>74</b>	<b>67</b>	<b>57</b>	<b>61</b>
<b>Sub-Total (Minor Projects)</b>	<b>155</b>	<b>36</b>	<b>37</b>	<b>29</b>	<b>24</b>	<b>29</b>
Substation Projects	69	19	15	12	10	14
Mains Projects	20	5	5	3	3	3
Protection & Metering Projects	2	0	1	0	0	0
Communications Projects	10	2	2	3	2	1
Security Projects	55	10	15	11	9	10
<b>Sub Total (Committed Asset Replacement Projects)</b>	<b>19</b>	<b>18</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>
Committed Asset Replacement Projects	19	18	1	0	0	0
<b>Sub Total (Major &amp; Combined Projects)</b>	<b>105</b>	<b>11</b>	<b>20</b>	<b>22</b>	<b>23</b>	<b>28</b>
Transformer Replacements	61	10	19	15	12	5
Transmission Line Reconstruction 990 (Yass-Wagga) & 875 (Tamworth-Gunnedah)	15	0	1	3	3	8
Control Room Replacement Taree Substation	8	0	0	2	4	2
Protection System Upgrades	6	1	1	1	2	1
Tunnel Board Replacement Canberra 330kV	1	0	0	0	1	0
Substation Replacement Queanbeyan Substation	14	0	0	0	2	12
<b>Regional Depots Projects</b>	<b>39</b>	<b>1</b>	<b>14</b>	<b>14</b>	<b>8</b>	<b>2</b>
<b>Sub-Total (Regulatory Projects)</b>	<b>8</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>
Transformers (Vales Point)	3	0	1	2	0	0
PCB	2	1	1	0	0	0
Mine Subsidence	0	0	0	0	0	0
Future Regulatory Projects	3	0	0	0	2	2
<b>Support the Business</b>						
<b>Support the Business</b>	<b>122</b>	<b>24</b>	<b>24</b>	<b>24</b>	<b>24</b>	<b>24</b>
<b>Augmentation</b>						
<b>Sub Total (Augmentation)</b>	<b>987</b>	<b>70</b>	<b>125</b>	<b>170</b>	<b>350</b>	<b>273</b>
<b>Sub Total (Property Acquisition &amp; Survey)</b>	<b>149</b>	<b>19</b>	<b>50</b>	<b>21</b>	<b>37</b>	<b>22</b>
Business Resources - Property - Committed & Ongoing Works	87	17	43	11	8	8
Property - Augmentation Projects	61	1	7	11	29	14
<b>Sub Total (Small and Committed Augmentations)</b>	<b>495</b>	<b>51</b>	<b>71</b>	<b>113</b>	<b>171</b>	<b>89</b>
Committed	137	42	22	24	47	2
Small Augmentations - New Lines	68	1	3	13	23	28
Small Augmentations - New Substations	28	0	0	3	21	3
Small Augmentations - Reactive Plant	46	3	18	15	6	4
Small Augmentations - Substations	126	3	11	41	46	24
Small Augmentations - Transformers	67	2	16	9	19	21
Technical Services - Miscellaneous	23	0	0	8	8	7
<b>Sub Total (Complex)</b>	<b>344</b>	<b>0</b>	<b>4</b>	<b>35</b>	<b>142</b>	<b>162</b>
Royalla 330 kV Substation Stage 1	19	0	1	4	8	6
Holroyd Complex	64	0	1	8	27	28
Mid North Coast Reinforcement	61	0	0	6	23	32
QNI Upgrade proposal	5	0	0	2	3	0
Western 500 kV System	194	0	2	15	81	97
<b>Pooled Contingency</b>	<b>92</b>	<b>10</b>	<b>14</b>	<b>17</b>	<b>29</b>	<b>23</b>

## ATTACHMENT 1A

Planning Complex	Total Cost 5 years	2005	2006	2007	2008	2009
<b>M Background Excluded Projects Summary Sheet</b>	<b>620</b>	<b>0</b>	<b>3</b>	<b>26</b>	<b>239</b>	<b>353</b>
<b><i>Sub-Total (Excluded Projects)</i></b>	<b>620</b>	<b>0</b>	<b>3</b>	<b>26</b>	<b>239</b>	<b>353</b>
Easements and Land	136	0	0	12	124	0
Newcastle and Lower North Coast Supply (Stage 1)	98	0	0	3	12	82
Bannaby - Sydney 500kV Development	125	0	1	5	16	104
Kemps - Sydney South Development	3	0	0	0	1	2
Mason Park 330/132kV GIS Substation	129	0	1	3	30	96
Series Compensation at Dumarseq	80	0	0	0	50	30
Yass - Wagga 330kV SC TL	49	0	0	3	6	39

**Note:**

1. All numbers are in 2004 dollars (millions)
2. All numbers are exclusive of inflationary factors and interest during construction costs