

**Project Title:**     **Increase Corner Brook Transformer Capacity**

**Location:**         **Walbournes and Bayview Substations**

**Classification:**   **Substations**

**Project Cost:**     **\$1,184,000**

### **Project Description**

This project includes the installation of a new 66/12.5 kV 25 MVA substation transformer at Walbournes substation as a replacement for the existing 66/12.5 kV 15 MVA transformer, and then moving the existing Walbournes transformer to the Bayview substation.

Details are contained in Volume II, Substations, Appendix 4, Attachment A.

<b>Project Cost (000s)</b>				
<b>Cost Category</b>	<b>2004</b>	<b>2005</b>	<b>2006 - 2008</b>	<b>Total</b>
Material	\$913	-	-	\$913
Labour – Internal	174	-	-	174
Labour – Contract	-	-	-	-
Engineering	97	-	-	97
Other	-	-	-	-
<b>Total</b>	<b>\$1,184</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,184</b>

### **Operating Experience**

The overall substation transformer loading in the City of Corner Brook is forecasted to exceed 100% capacity in the 2003 / 2004 winter season. This is based on a total substation transformer capacity of 68.3 MVA compared to a projected load of 68.4 MVA.

### **Project Justification**

Load forecasts for the City of Corner Brook substations indicate that the combined load will exceed the combined capacity of the substation transformers. The addition of another transformer in the system will accommodate this increased load and represents the least cost solution to meeting the forecast load requirements for the city of Corner Brook substations.