

### **Description of 1L44**

1L44 is a 37 km long 138 kV transmission line extending northeast from Sechelt substation to Clowholm Generating Station. About 4.2 km from Clowholm station there is a tap approximately 300 m in length feeding Sechelt Creek generation station.

### **Ratings and Limits**

The 4.2 km line section from Clowholm generating station to the Sechelt Creek IPP tap is limited thermally to 240 A in the summer and 325 A in the winter.

The remainder of the line from the Sechelt Creek IPP tap to Sechelt substation is limited thermally to 260 A in the summer and 436 A in the winter.

The overall line rating, therefore, is limited to 240 A in the summer and 325 A in the winter.

### **Current Commitments**

Our current commitments on 1L44 include transfer of 33 MW from Clowholm to Sechelt and 17 MW from Sechelt Creek IPP to Sechelt. This translates to about 230 A on the portion of 1L44 from Sechelt Creek IPP to Sechelt.

### **Upgrade Options**

Any addition of generation that would increase the flows between Clowholm and Sechelt Creek IPP beyond the current rating of 240 A (Summer) will require reconductoring that 4.2 km section at a cost of about \$400k. Reconductoring this section should bring the line up to a summer rating of 260 A (winter 436 A) and leave about 30 A unused capacity on the line with the current commitments.

It is not known at this point what work is required to increase the thermal limit beyond 260 A summer rating. The options range from resagging existing spans to reconductoring portions of the line with structure additions and replacements.