

## **Presentation # 9**

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**Title:** Distribution planning at Hydro-Quebec

### **Abstract**

Distribution planning at Hydro-Quebec is greatly dependent on an accurate forecast of the winter peak load demand. The forecasting process starts with the normalization of the recorded feeder/substation peak-load with respect to standard winter weather conditions. Moreover, annually, a 20-year load growth forecast is developed for the province of Quebec. This load growth envelope, based on sales, economic and demographic forecasts, is split between substations. Overloading problems are then identified and analyzed, resulting in the best technical and economic solution.