

## **Presentation # 2**

**Presenter:** Joe Bonadie and Richard Wang, Powerstream

**Title:** Load Forecast Methodology at Powerstream

### **Abstract**

The electric load forecast is one of the key drivers of PowerStream's planning activities. The primary purpose of the electric load forecast is to address the key questions of when, where, why and how much electricity will be required on the PowerStream system to allow PowerStream Planning staff to evaluate planning alternatives and to ensure that there is sufficient capacity on the system to supply customers in a reliable and cost effective manner.

The presentation will detail a seven step process used to prepare PowerStream's annual Load Forecast.

The seven step Process will include:

- Review Economic and Development Outlook
- Review current year summer weather and update the 3-day moving average
- Review Price Elasticity and the effect on Peak Demand
- Review current system peak and perform Peak Demand vs. Weather Regression and normalize system peak for current year
- Prepare 10 year Base Forecast using both Trend (Statistical) Analysis and End-Use Analysis
- Prepare Influence Matrix by generating Low, Base and High growth scenarios including four weather scenarios. Incorporate CDM scenarios and factor in Price Elasticity
- Recommend and Communicate the 10 year Load Forecast to Internal Stakeholders and External Agencies such as Ontario Power Authority, Independent Electricity System Operator (IESO) etc..