

# ELRP and M&V Plans Update



# ELRP

- **ELRP - Emergency Load Reduction Program.**
- **Loads offer in a load reduction when asked.**
- **Embedded generators can also offer in.**
- **ELRP is designed to address reliability needs.**
- **Forms part of the Emergency Operating State Control Action (EOSCA).**
- **Permanent feature of the wholesale market – no end date.**
- **In-service 20 June 2006.**

# Actions in Advance of and During the IESO Controlled Grid Emergency Operating State



## 1 Issue Weekly Security and Adequacy Assessment (SAA)

Assessments are published 15-34 days out, identifies any forecast capacity and/or *energy* deficiencies.

## 2 Issue Daily Security and Adequacy Assessment (SAA)

Assessment is 3-14 days out, identifies forecast capacity and/or *energy* deficiencies.

## 3 Outage Management

This rejection applies only to those *outages* that have not received advance approval.

## 4 Issue System Advisory for undergeneration in System Status Report (SSR)

Report is produced between 0-2 days out, includes the undergeneration advisory.

## 5 Issue Notification to (ELRP) Emergency Load Reduction Program Participants

The *IESO* will issue a request for specified ELRP Participants to submit load reduction offers for a specified period. The *IESO* will normally issue this notification if it foresees a situation where activation of ELRP will be required to prevent/mitigate the following emergency control actions:

- purchase of emergency energy,
- implement environmental variances, or
- activate a 3% or 5% voltage reduction.

## 6 Issue General or Public Appeal

This is a public appeal for the general populous to conserve *energy* and is usually a media based appeal. The *IESO* will normally issue an appeal only if the situation is expected to progress to the point that a 5% voltage reduction is required.

# M&V Plans (1)

- **Baseline 1.** This baseline is defined as the maximum value of the loss adjusted net metered MWh load in the two hours before the activation.
- **Baseline 2.** This historic baseline methodology uses baseline metering data for the ELRP *trading hour* for that *business day*. This data is based on the loss adjusted total metered energy consumption of the past eleven same *trading hours* on *business days* immediately preceding the ELRP activation event. The highest ten of the eleven same *trading hour*, loss adjusted MWh values on *business days* for the historic baseline and average these values is used.

## M&V Plans (2)

- **Baseline 3.** This baseline is defined as ZERO MW for metered MWh gross output of backup or load displacement generation where the only meters contributing to the M&V Plan are measuring generator output.
- **Baseline 4. Statistical sampling** – establish an acceptable sample and use this as a foundation for the entire system.

# ELRP Update

- 8 registered ELRP participants with 216 MW.
- 9 in process of registering with 80 MW.
- Use of ELRP.
  - A day-ahead notification was sent to the 7 registered ELRP participants on 1st August 06. Submitted offers were received from 4 participants for a maximum of 69MW of offered load reduction. No activation.
  - On the 2nd August 06 a day-at-hand notification was sent to the 7 participants. Submitted offers were received from 3 participants for a maximum of 43 MW of load reduction. Again, there was no activation.

# Baseline & Meter Stats

- **Baseline usage**

– Baseline 1	13%
– Baseline 1&2	53%
– Baseline 3	27%
– Baseline 4	7%

- **Meters:**

– RWM	53%
– Retail meter	24%
– Operational meter	24%

# ELRP Phase 2



- **ELRP Phase 2 scheduled for early 2007.**
  - Enhancements to web portal
- **Considering an ELRP User Group Meeting to get feedback and suggestions on improvement.**
- **Looking at an ELRP-V (voluntary).**