


Wind Power Integration in Ontario - Overview

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Presentation to FASC– January 16, 2008



- WPIWG (SE-29) – Objectives:
 - to identify issues, reduce barriers to wind integration via resolutions and recommendations
 - regular meetings since Nov-2006
- Issues List
 - Short Term, Long Term, & Issues relating to other forums
- Short Term (ST) Issues addressed via consensus recommendations/resolutions



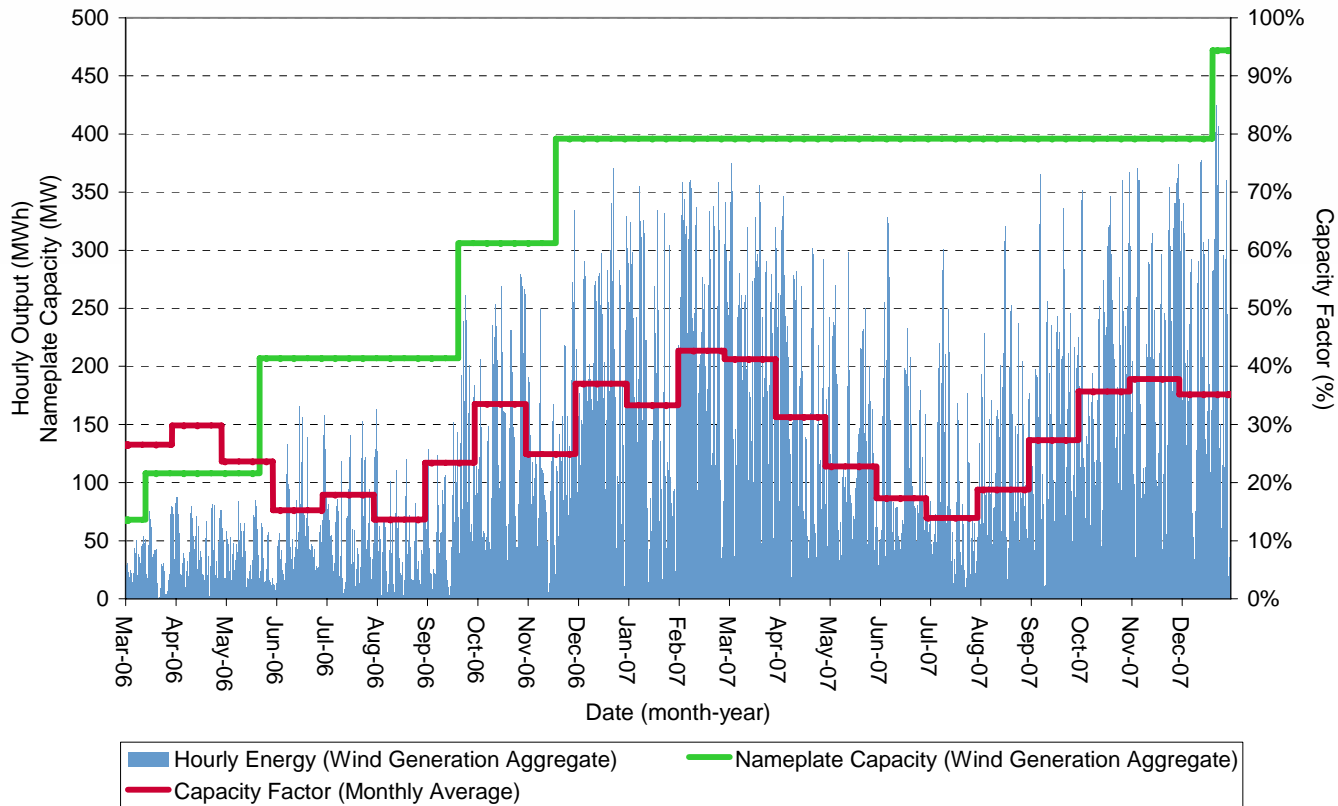
- IESO pursuing implementation of identified action items re: ST recommendations (within target dates)
- Wind Working Group
  Standing Committee
- Resolving WG's long/mid term issues:
 - Exploring mid term wind forecasting method and options
 - seeking feedback
 - implementation in 18 month & ORO



Wind Experience – Capacity Factors

Ontario Wind Generation Data: Aggregate Values

March 4, 2006 to December 31, 2007



- Approx 470 MW of wind installed to-date
By end of 2009 installed capacity will be approx 1100 MW
- Annual wind contribution increased from 410 GWh in 2006 to more than 920 GWh in the first 11 months of 2007.
- Annual energy capacity factor (March 2006 - Dec) averaged approx 27 %
- Monthly average capacity factors: monthly low 14 %, high of 43 %

- IESO will continue to follow up on implementation of identified action items
- Continued wind power forecasting monitoring re: performance measures
- Resolving long term issues

