

Centralized Forecasting Information in SSRs and SAAs

SE-91 Renewables Integration
February 21, 2013



- Introduction
- Security and Adequacy Assessments (SAA)
- System Status Reports (SSR)
- Material Changes and SAA/SSR Republishing Criteria
- Request for Feedback

- IESO is obligated to publish System Status Reports (SSR) and daily and weekly Security and Adequacy Assessments (SAA)
- These reports provide a forecast of future system conditions to aid market participants with their offer and bid submissions to meet the system requirements.
- SAAs and SSRs are available on the IESO website at:
<http://www.ieso.ca/imoweb/marketdata/ssrsaa.asp>

- SAAs are first published 34 days ahead of the dispatch day
 - Weekly SAA shows daily energy and capacity forecasts (total and peak hour) for weeks 2-4
 - Daily SAA shows hourly energy and capacity forecasts for days 3-14
- Wind energy/capacity is included in totals for both Energy (MWh) and Capacity (MW)
- Both energy and capacity numbers are adjusted based on seasonal VG capacity factors

- New lines in the report will show VG energy and capacity separately from totals
- VG Capacity (MW) will be based on installed nameplate capacity
- VG Energy (MWh) figures will depend on the timeframe of the SAA
 - Weekly reports will use seasonal capacity factors
 - Daily reports for days 8-14 will use seasonal capacity factors
 - Daily reports for days 3-7 will use centralized forecast information

Weekly Security and Adequacy Assessment Report: 2012/12/28 through 2013/01/13 generated on 2012/12/13 14:14

Daily&Peak Values - Week 2

Daily&Peak Values: [Week2](#) [Week3](#) [Week4](#) Hourly Data: [Week2](#) [Week3](#) [Week4](#) [Transmission Interfaces](#) [SAA Notes](#)

		FRI
		2012/12/28
<small>*peak hour is hour of largest Energy Forecast Demand</small>		
Forecast Supply		
Energy(MWhr)	Total	667790
Capacity(MW)	Peak Hour	34544
Energy Limit'd (MWhr)	Total	97944
Energy Limit'd Cap(MW)	Peak Hour	7212
Variable Generator (MWhr) [SCF* installed nameplate capacity]	Peak Hour	
Variable Generator Cap(MW) [installed nameplate capacity]	Peak Hour	
Imports - Est'd (MW)	Peak Hour	700
Outages East (MW)	Peak Hour	3883
Outages West (MW)	Peak Hour	525
Total Outages (MW)	Peak Hour	4408

Daily SAA Report for 2013/01/03 generated on 2012/12/31 11:29

Hourly Details H1-12

[SAA Notes/Summary](#) [Hourly Details H1-12](#) [Hourly Details H13-24](#) [Transmission Interfaces](#)

Forecast Supply	H1	H2	H3
Energy(MW _{hr})	26499	26499	26499
Capacity(MW)	34544	34544	34544
Energy Limit'd (MW _{hr})	4140	4140	4140
Energy Limit'd Cap(MW)	7211	7211	7211
Variable Generator (MW _{hr})			
Variable Generator Cap(MW)			
Imports - Est'd (MW)	700	700	700
Intermittent Capacity(MW)	699	699	699
Self-Sched Capacity(MW)	1084	1084	1084
Outages East(MW)	5240	5240	5240
Outages West(MW)	434	434	434
Total Outages	5674	5674	5674

- SSRs are first published 2 days ahead of the dispatch day
 - One SSR scheduled 2 days ahead
 - Two SSRs scheduled day-ahead
 - Subsequent SSRs are published as required per changing system conditions
- Wind energy/capacity is included in totals for both Energy (MWh) and Capacity (MW)
- Both energy and capacity numbers are adjusted based on seasonal VG capacity factors

As with daily SAA reports:

- New lines in the report will show VG energy and capacity separately from totals
- VG Capacity (MW) will be based on installed nameplate capacity
- VG Energy (MWh) figures will use centralized forecast information

[System Advisory/Summary Hourly Details H1-12](#) [Hourly Details H13-24](#) [Transmission Interfaces SAA Notes](#)

Forecast Supply Energy(MWhr)	Forecast Demand Energy(MWhr)	Forecast Excess(Shortfall) Energy(MWhr)	En
608793	437141		174244

System Advisory Notices-Title	Date/Time Issued	Start Date/Time	End Date/Time	Comment
Major Change Advisory - load	2013/01/03 17:31	2013/01/03 17:28	2013/01/03 17:28	Primary demand forecast

Hourly Details H1-12

[System Advisory/Summary Hourly Details H1-12](#) [Hourly Details H13-24](#) [Transmission Interfaces SAA Notes](#)

Forecast Supply	H1	H
Energy(MWhr)	24544	23
Capacity(MW)	34544	34
Intermittent (MWhr/hr)	577	:
Self-Sched (MWhr/hr)	860	:
Energy Limit'd (MWhr)	3478	2
Energy Limit'd Cap(MW)	7209	7.
Variable Generation Scheduled (MWhr/hr)		
Variable Generation Capacity (MW)		
Imports - Est'd (MW)	200	:
Intermittent Capacity(MW)	699	t
Self-Sched Capacity(MW)	1084	10
Outages East(MW)	6035	60
Outages West(MW)	434	.
Total Outages	6469	6.

- If changes to available capacity or forecasted energy exceed a particular threshold the IESO will republish SAAs and SSRs
 - Thresholds are known as “material changes”
 - Current material change criteria are listed in Market Manual 7.2
- Proposing new criteria to identify material changes based on changes to variable generation forecasts

- SSRs
 - A change in VG forecast* of 500 MW or more affecting any 2 or more hours published day-at-hand (day 0)
 - A change in VG forecast* of 500 MW or more affecting any 4 or more hours published day-ahead (day 1)
 - A change in VG forecast* of 500 MW or more affecting any 4 or more hours published 2 days-ahead (day 2)
- SAAs
 - A change in VG forecast* of 500 MW or more affecting any 6 or more hours published on days 3-5

*Note: Change in VG forecast may be either an increase or decrease

- Feedback on the proposed SAA/SSR report changes and new material change criteria is requested by March 7, 2013
- Comments may be sent to stakeholder.engagement@ieso.ca