

IESO 2008Q1 18-Month Outlook

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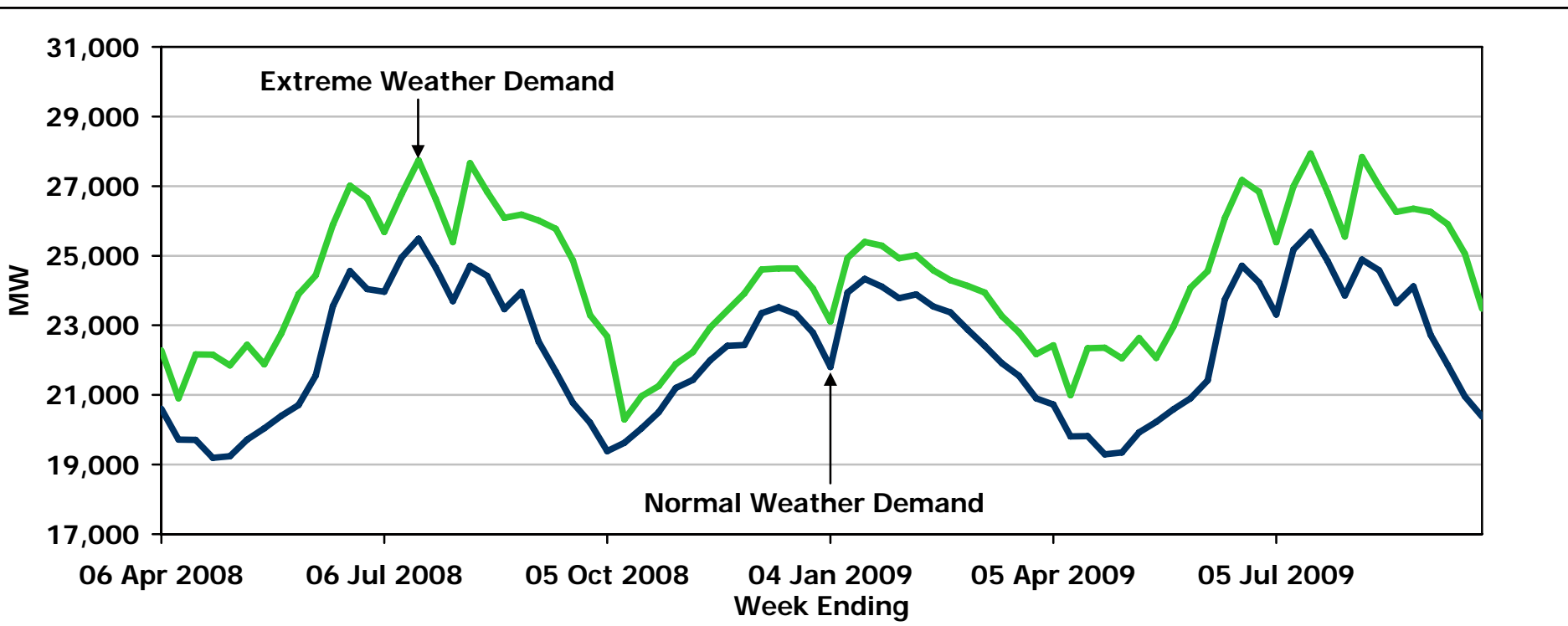
- Assumptions & Risks
- Firm Resource Scenario and Planned Resource Scenario
- Results
- Key Findings and Conclusions

Season	Seasonal Normal Weather Peak (MW)	Extreme Weather Peak (MW)
Summer 2008	25,779	27,748
Winter 2008-09	24,548	25,400
Summer 2009	25,969	27,939

- **Table does not include Conservation targets**
- **Weather corrected energy demand**
 - **2006: 152.3 TWh (decrease 1.6%)**
 - **2007: 151.6 TWh (decrease 0.5%)**
 - **2008: 152.2 TWh (increase 0.4%)**
 - **2009: 152.3 TWh (increase 0.1%)**

Season	Seasonal Normal Weather Peak (MW)	Extreme Weather Peak (MW)
Summer 2008	25,328	27,147
Winter 2008-09	23,996	24,507
Summer 2009	25,249	27,009

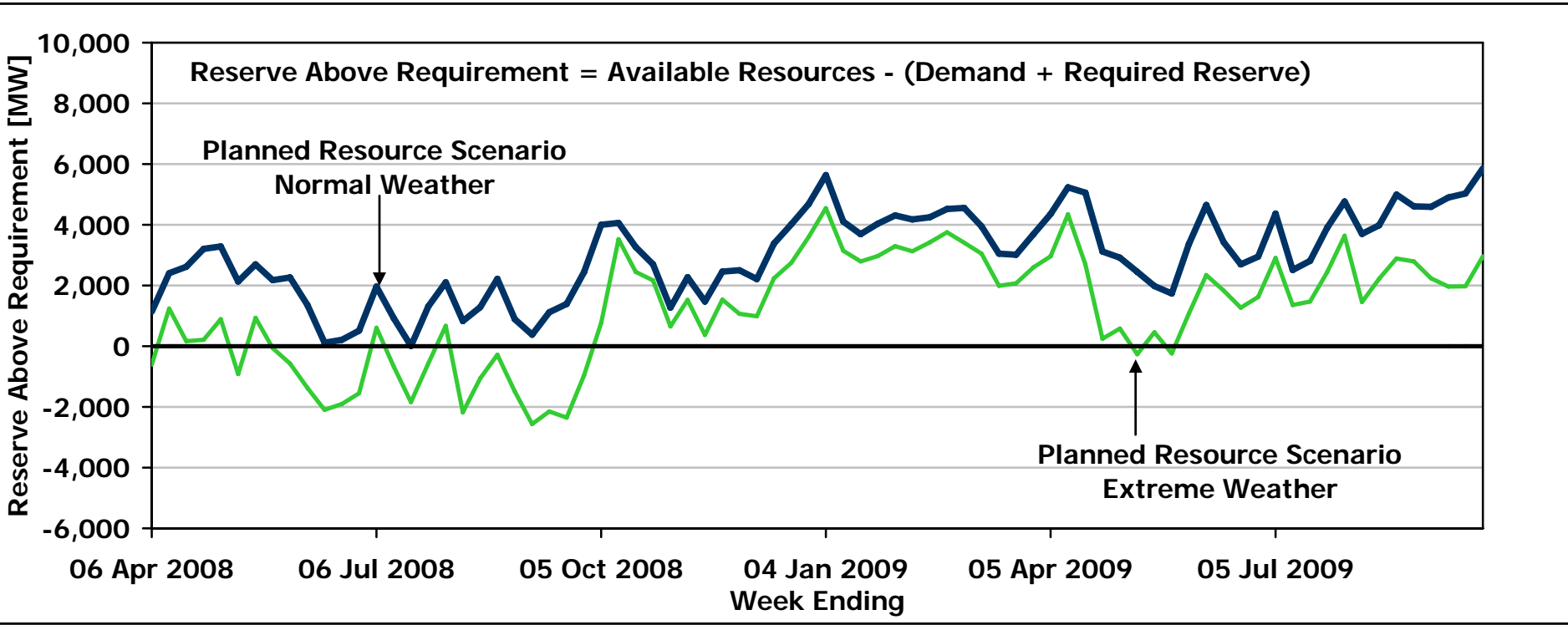
- **Table includes Conservation targets**
- **Weather corrected energy demand**
 - **2006: 152.3 TWh (decrease 1.6%)**
 - **2007: 151.6 TWh (decrease 0.5%)**
 - **2008: 151.1 TWh (decrease 0.3%)**
 - **2009: 150.0 TWh (decrease 0.7%)**



- Two Scenarios – Firm and Planned
 - Firm Resource Scenario includes:
 - Existing demand response programs (Dispatchable, OPA's DR 1 and loads under contract)
 - Existing conservation programs
 - Planned Resource Scenario includes:
 - Planned demand response programs (Dispatchable, DR1, DR2 & DR3 and loads under contract)
 - Targeted conservation savings

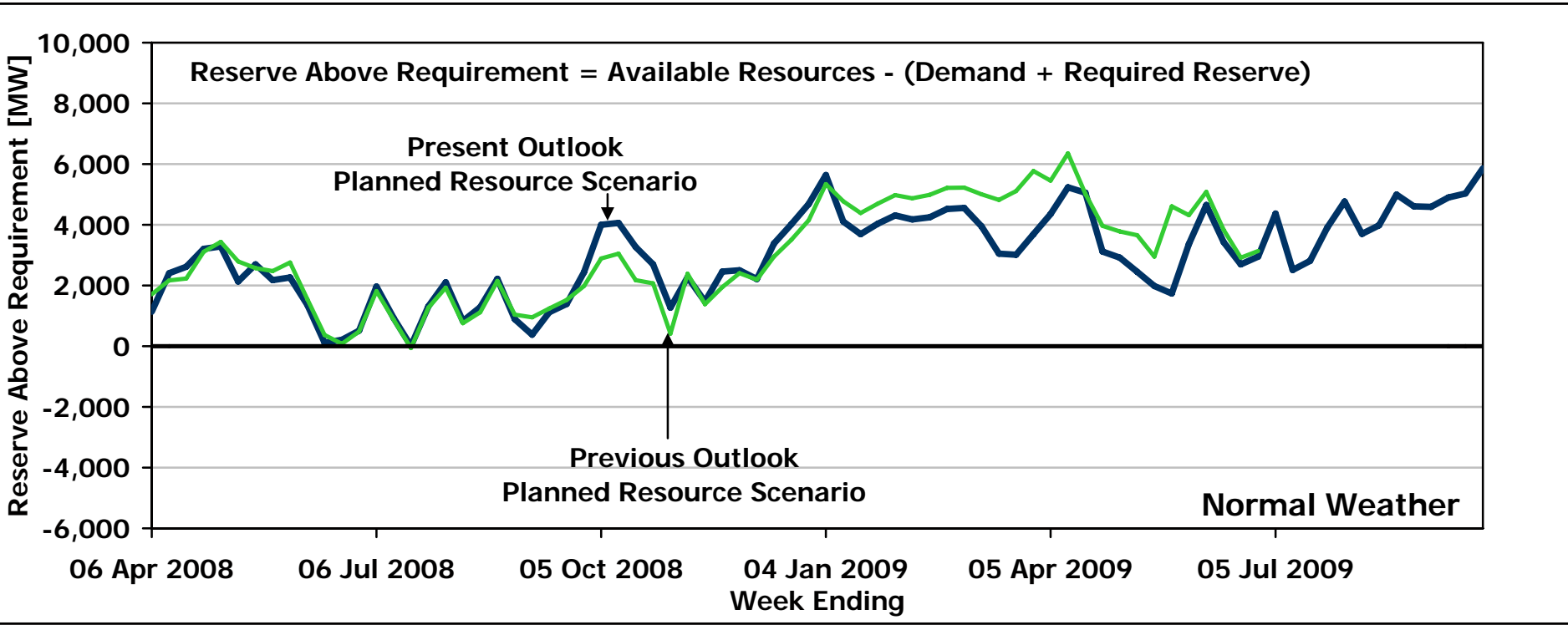
Committed and Contracted Generation Resources

Proponent/Project Name	Zone	Fuel Type	Capacity MW	Estimated Effective Date	Project Status	Considered in Resource Scenario	
						FRS	PRS
Durham College District Energy Project	Toronto	Gas	2	2008-Q1	Construction	Yes	Yes
Great Northern Tri-Gen Facility	West	Gas	12	2008-Q2 ⁽¹⁾	Commissioning	Yes	Yes
Countryside London Cogeneration Facility	West	Gas	12	2008-Q2	Construction	Yes	Yes
Portlands Energy Centre Phase I	Toronto	Gas	250	2008-Q2	Construction	Yes	Yes
Warden Energy Centre	Toronto	Gas	5	2008-Q2	Construction	Yes	Yes
Umbata Falls Hydroelectric Project	Northwest	Water	23	2008-Q2	Construction	Yes	Yes
Lac Seul Project - English River	Northwest	Water	13	2008-Q3 ⁽¹⁾	Construction		Yes
Greenfield Energy Centre	West	Gas	1,005	2008-Q4	Construction		Yes
Kruger Energy Port Alma Wind Power Project	West	Wind	101	2008-Q4	Construction		Yes
Wolfe Island Wind Project	East	Wind	198	2008-Q4	Approvals & Permits		Yes
Nuclear Upgrade	N/A	Uranium	27	2008-Q4	Construction	Yes	Yes
Melancthon II Wind Project	Southwest	Wind	132	2008-Q4	Construction		Yes
Enbridge Ontario Wind Power Project	Southwest	Wind	200	2008-Q4	Construction		Yes
Retirement of Lower Sturgeon 25 Hz generation to convert to 60 Hz	Northeast	Water	-5	2009-Q1	Connection Assessment	Yes	Yes
St. Clair Energy Centre	West	Gas	570	2009-Q1	Construction		Yes
Return of Unit 7 at Beck 1 as a 60 Hz unit	Niagara	Water	59	2009-Q1	Construction	Yes	Yes
Retirement of Sandy Falls 25 Hz generation to convert to 60 Hz	Northeast	Water	-3	2009-Q2	Connection Assessment	Yes	Yes
Goreway Station	Toronto	Gas	860	2008-Q4 ⁽¹⁾	Construction		Yes
Retirement of the 25 Hz Frequency Changer and Units 1 & 2 at Beck 1	Niagara	Water	-50	2009-Q2	Connection Assessment	Yes	Yes
Algoma Energy Cogeneration Facility	Northeast	Industrial Gas	63	2009-Q2	Construction		Yes
Portlands Energy Centre Phase II	Toronto	Gas	288	2009-Q2	Construction		Yes
Bruce Unit 2	Bruce	Uranium	750	2009-Q2	Construction		Yes
East Windsor Cogeneration Centre	West	Gas	84	2009-Q2	Construction		Yes
Total			4,594				



Reserve Above Requirement

Normal Weather Scenario: Present vs Previous Outlook



Key Findings & Conclusions

- Reliability within the GTA for summer 2008 and summer 2009 is expected to be adequate, but remains dependent on the availability of the autotransformers feeding the GTA, the availability of the Pickering units, and the planned addition of the Portlands Energy Centre and Goreway.
- Five new and upgraded load supply transformer stations will be placed in service during the timeframe of this Outlook and shortly after.

- Increased opportunity for the IESO to accommodate planned generator outages in the winter months
- Potential for surplus baseload generation especially near the end of the 18 month period
- Hydro One is planning to add seven new high voltage shunt capacitors in southwestern Ontario to accommodate additional nuclear and wind generation. Tx limitations may constrain delivery of some available supply from the Bruce or Southwestern Ontario areas.