

# External Interconnections Forced Outage and Maintenance Outage Assumptions

# Background

- At one of the PSPC meetings earlier this year, the PSPC requested that the ISO review the forced outage and maintenance outage assumptions relating to external interconnections.
- This presentation summarizes the forced and maintenance outage assumptions to be used for calculating Installed Capacity Requirement values for the various Capacity Commitment Periods under review.

# Performance Data Update

- Requested last 5 years' forced outage and maintenance outage data:
  - NGRID via IRH Management Committee for HQ Phase II interconnection
  - VELCO via Bill Ryan/Bob Amelang for Highgate interconnection
  - Cross Sound Cable (CSC) Company via Jose Rotger for the CSC
  - CMP via Michael Erskine/David Conroy for New Brunswick ties
- Received responses were used to develop forced outage and maintenance outage assumptions for the external interconnections

# Historical Outages in Percent

- HQ Phase II HVDC Interconnection

	2006	2007	2008	2009	2010	Average
Maintenance	3.77	5.54	10.70	3.45	2.83	5.26
Force Outage	0.26	0.22	0.49	0.43	0.57	0.39

- Highgate Interconnection

	2006	2007	2008	2009	2010	Average
Maintenance	2.30	1.99	2.50	3.23	2.34	2.47
Force Outage	0.05	0.02	0.00	0.17	0.10	0.07

# Historical Outages in Percent

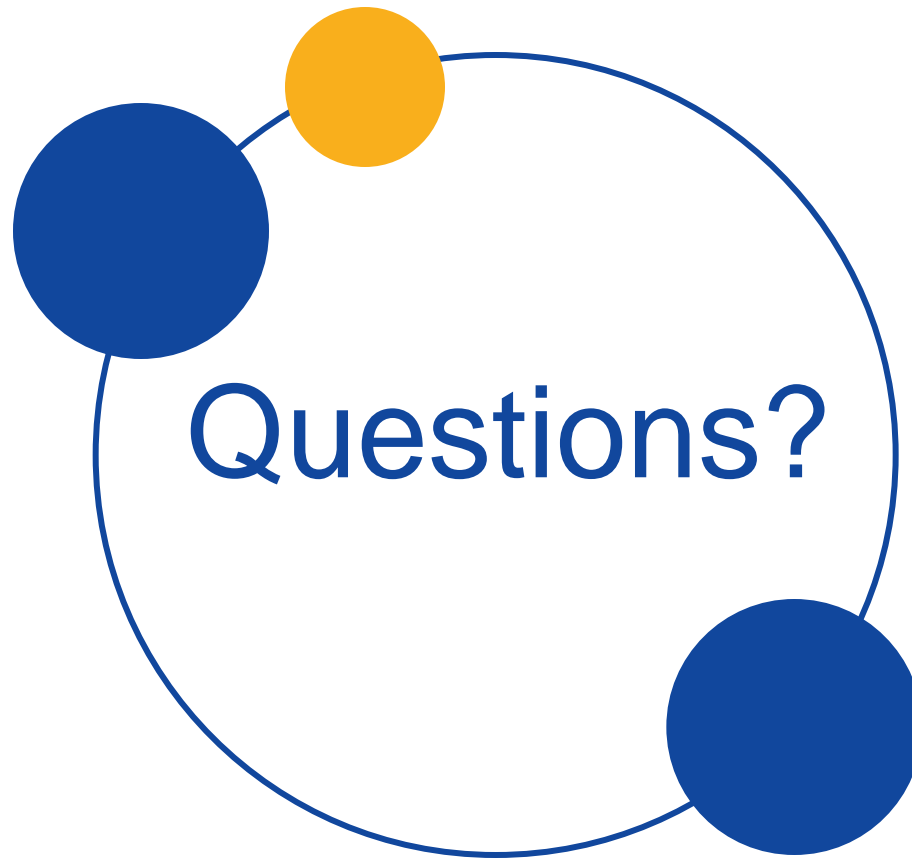
## Cross Sound Cable\*

	2006	2007	2008	2009	2010	Average
Maintenance	Conf.	Conf.	Conf.	Conf.	Conf.	2.88
Force Outage	Conf.	Conf.	Conf.	Conf.	Conf.	0.89

- New Brunswick Ties

	2006	2007	2008	2009	2010	Average
Maintenance	0.08	0.10	0.14	0.17	3.13	0.72
Force Outage	0.12	0.00	0.31	0.00	0.00	0.08

\*Detailed annual data are deemed confidential by Cross Sound Cable LLC.



Questions?