



Export Capability

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AESO Stakeholder Conference

June 21, 2005

Export Obligations

- Transmission Regulation (A.R. 174/2004)
- Section 8(1)(g) requires the ISO to make arrangements for the expansion or enhancement of the transmission system so that, under normal operating conditions, the transmission system interconnections with jurisdictions outside Alberta can import and export electricity on a continuous basis, at or near the transmission facility's path rating.



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Export Work Group

- Work Group formed in 2004
- AESO chairs and facilitates
- Participants include:
 - Exporters
 - Calgary area generators
 - Load representatives
 - Powerex and BCTC (future?)
- Mandate → address export limitations



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Export Issues

- ✓ ***Available Transfer Capability (ATC)***
- ✓ ***Export Must Run (XMR)***
- ✓ ***Generator Remedial Action Scheme (GRAS)***
 - Market rule changes (merit order stability)
 - Development of import/export tariffs
 - Transmission facility upgrades
 - Transmission reliability margin (TRM)
 - Calgary/Southern AB load growth



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Available Transfer Capability (ATC)

- Static ATC calculation
 - Baseload generation south of Edmonton
- Dynamic ATC calculation
 - Includes Calpine, Cavalier, Balzac and Bow Hydro
- Implement interim ATC solution in August
 - Operations planning studies, operating policies and procedures, software development and SC training
- Make adjustments for market rule changes
- Implementation of final/automated solution by year-end



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Export Must Run (XMR)

- December 2004 Export Capability Study
 - Southern generation increases export capability
- March 2005 XMR discussion paper
- June 2005 XMR participant proposal
- Mechanisms to include non-baseload generation in ATC
 - Firm-up generation → relinquish restatement rights
 - Bilateral agreements between exporters and generators
 - Allocation of export capability & open access
 - AESO concerns with XMR as an ancillary service
- Impact of dynamic ATC and market rule changes



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Generator Remedial Action Scheme (GRAS)

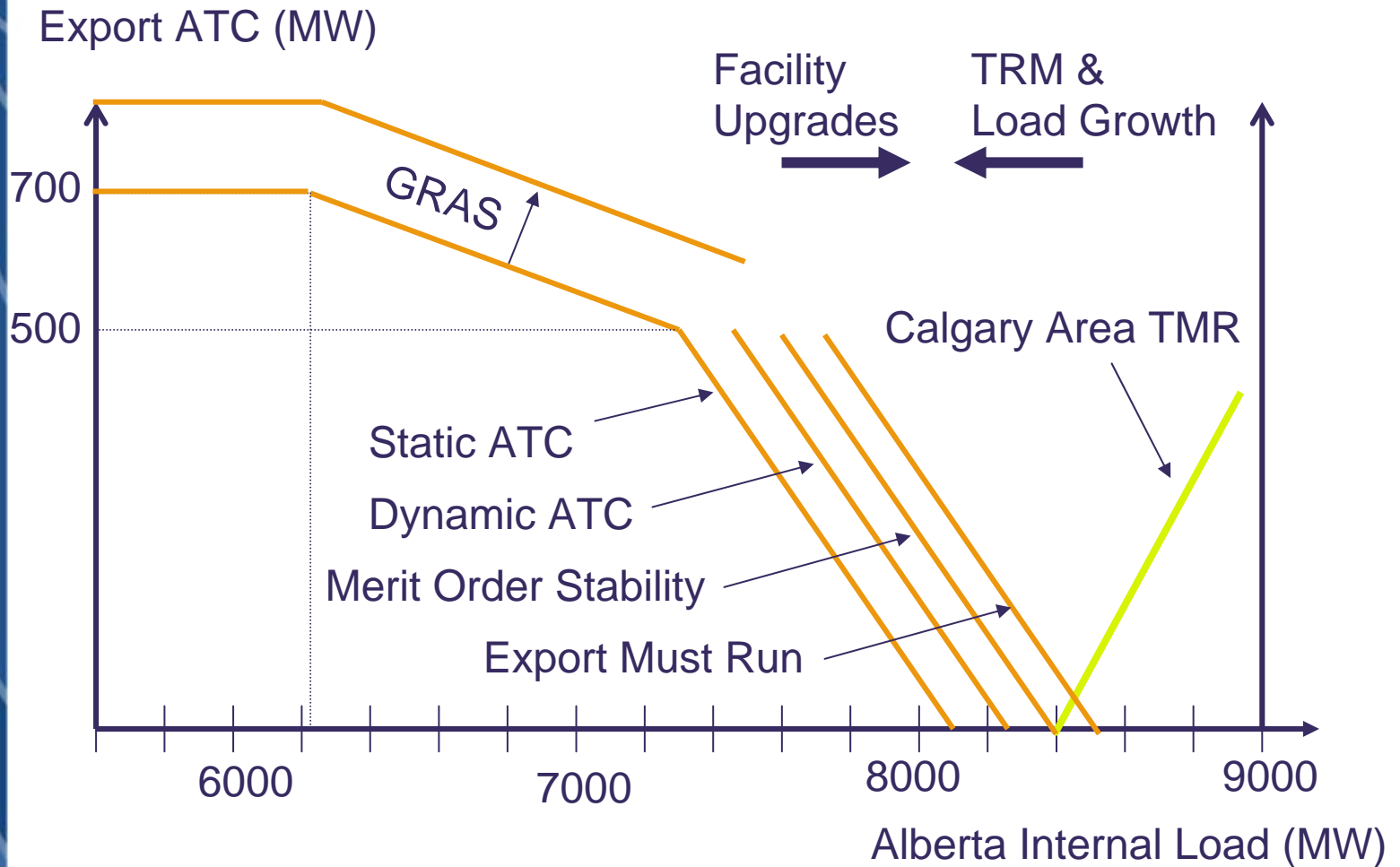
- Primary benefit is in off-peak periods
- Prevent excessive over-frequency for loss of exports
 - mitigate reliability concerns in BC
 - armed only during high exports
 - trip one or more northern generators when tie-line trips or when selected lines in BC trip
- Further analysis/study required
- Coordination with BCTC – June 22 meeting



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Available Transfer Capability vs. Alberta Internal Load



Summary / Next Steps

- Regular work group meetings
- Implement interim ATC solution
- Upgrade for market rule changes
- Further analysis of XMR and GRAS
- Coordinate all export related issues
- Develop stakeholder communication plan
- Contact me with questions @ 539-2457



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