2012 10-Year AssessmentPreliminary Needs/Solutions

April 5, 2012 Stakeholder Web Conference



Purpose

- Preliminary key messages
- Assessment process/assumption updates
- Need drivers summary
- Preliminary summary of impacts
- Stakeholder communication
- Next steps

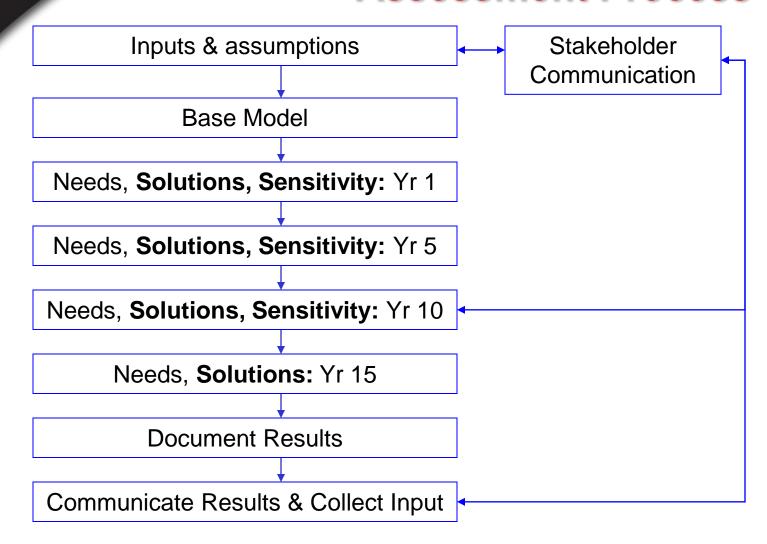


Preliminary Key Messages

- Load forecast growth slightly lower relative to 2011 Assessment
- Minor generation assumption changes
- Included Study-Based Ratings
- Addressing needs in northern ATC region
- Several new and some delayed needs
- Participating in regional studies



Assessment Process





Process/Assumption Changes

Share 2012 assessment process/assumption changes

- Compared to Spring 2011 Presentation
- Methodology
- Sensitivities
- Contributing studies



Methodology Changes

- Using Study Based Rating Methodology ratings
- Considering streamlining publishing process
- Considering enhancing write-up process to more efficiently support compliance documentation



Sensitivities Comparison

2011 Assessment		2012 Assessment		
Model	Year(s) Studied	Model	Year(s) Studied	
105% Summer Peak	2016	105% Summer Peak	2017	
90% Load E-W Bias	2016, 2021	90% Load E-W Bias	2017, 2022	
65% Load W-E Bias	2016, 2021	70% Load W-E Bias	2017, 2022	
40% Minimum Load	2012, 2021	40% Minimum Load	2013, 2022	
70% Load Firm Transfers (All-Projects Model Only)	2016, 2021	70% Load Firm Transfers (All-Projects Model Only)	2017, 2022	
70% Load 3000 MW Import	2016, 2021	Not Studied	None	

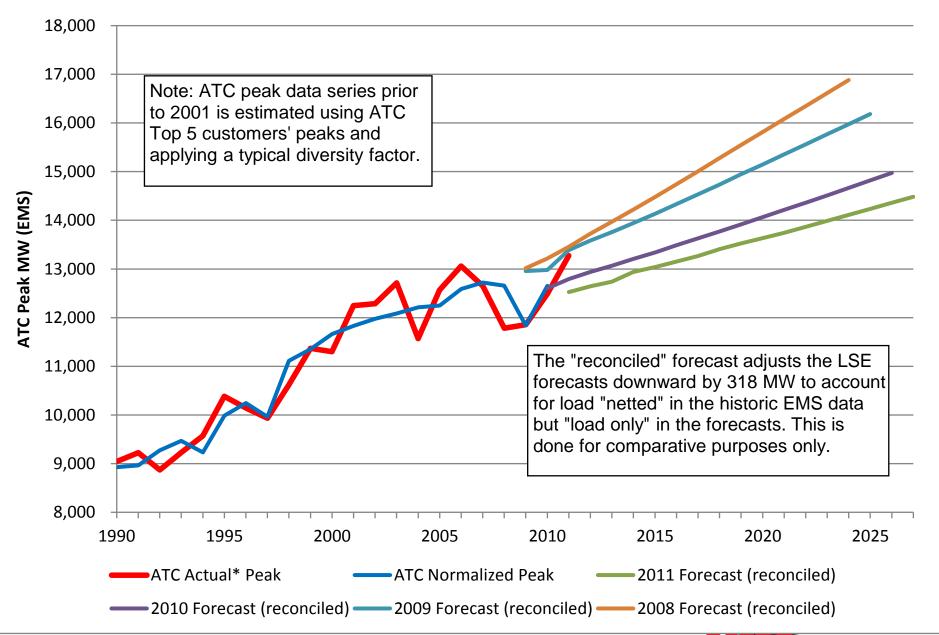


Contributing Studies

- 1st contingency Needs 4 years
- Multiple outages
 - Added cascading analysis (based on 2011 TYA models)
 - Screening for bus or generator and line outages no load shed
- Generation -Transmission studies
- Distribution Transmission studies
- Economic benefits studies
- Regional reliability
- Public policy benefits
- Added studies from northern area of ATC territory



ATC System Peak Demand Forecast Comparison



Generation Dispatch Changes

- Minor changes mostly
- Wind (-83 MW)
- Other increases (+50 MW)
- Other reductions (-36 MW)
- ATC net interchange comparison to 2011 TYA
 - 1 year out model (+17 MW)
 - 5 year out model (-43 MW)
 - 10 year out model (+351 MW)
 - Removal of 392 MW import from MHEB
- EPA Rules Existing changes & northern studies



Need Drivers

	Zone					
Need Drivers	1	2	3	4	5	
G-T		X	X	X		
TSR	X	X	X	X	X	
Condition	X	X	X	X	X	
D-T	X	X	X	X	X	
Economic Benefits	X		X		X	
Load Growth	X	X	X	X	X	
Study Based Ratings	X	X	X	X	X	
Category C/Maintenance	X	X		X		
Dispatch/Biases	X	X	X	X	X	
Regional		X	X		X	

Preliminary Network Changes - Deferrals

- Near term (two-year impact)
 - 7 projects could be deferred
 - West Middleton Stagecoach uprate (2015 to 2016)
 - Ripon Capacitor Banks (2015 to 2018)
 - Harrison Transformer Replacement (2016 to 2022)
 - Fairwater Mackford Prairie 69-kV line (2017 to 2018)
 - Brick Church Capacitor Banks (2017 to 2021)
 - Colley Road Brick Church 69-kV rebuild (2018 to 2022)



Preliminary Network Changes - Deferrals

- Longer term (Beyond two-year impact)
 - 8 projects could be deferred
 - two line projects
 - three transformers
 - three capacitor banks
 - 2 projects could be canceled
 - Bluemound capacitor banks (2015)
 - Dunn Rd Egg Harbor 69-kV line (2021)



Preliminary Network Changes – New or Advanced Projects

- New/advanced projects (near-term impact)
 - 8 potential new projects (new dollars in capital forecast), so far
 - 9 potential ISD advancements
- New individual projects (near term impacts)
 - Study-Based Ratings Methodology
 - 40 projects
 - Plans within the northern region
 - 13 projects



Stakeholder Communication

- February April 2011
 - Requested load forecast from LDCs
- April 2011
 - Process and assumptions meeting
 - Suggested new sensitivity studies
- September 2011
 - Sent final load forecast back to LDCs
- April 2012
 - Stakeholder preliminary needs meeting



Next Steps

- Spring Discuss solutions w/stakeholders
- May Cost estimates developed
- May Study write-ups drafted
- June Multiple-outage screening complete
- Summer Review/approval
- Autumn Publication



Questions?

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