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2013 10-Year Assessment Preliminary Needs

Stakeholder and Customer Presentation – February 26, 2013

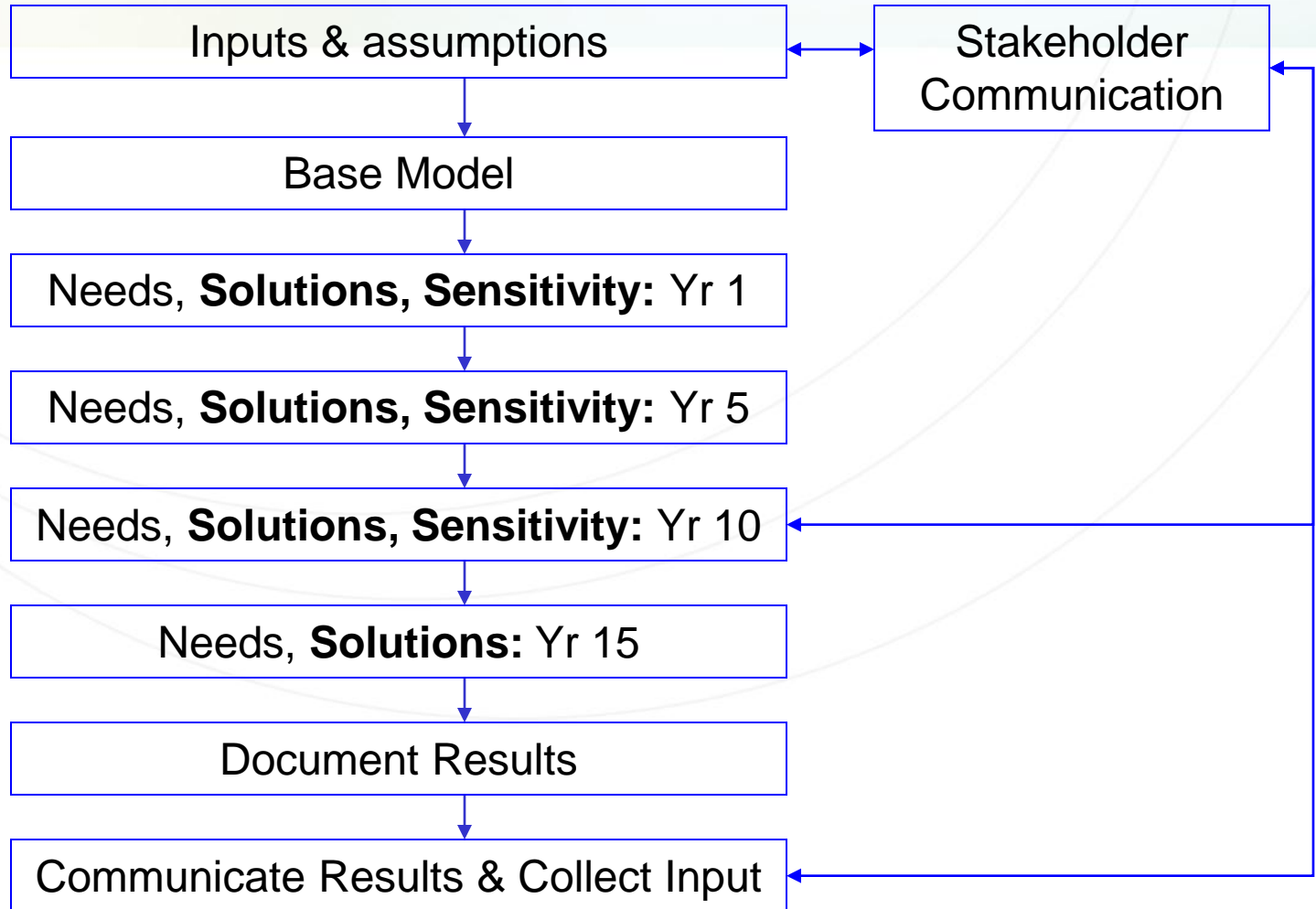
Purpose

- Information/process update
- Input on needs

Key Messages

- Load forecast growth slightly lower relative to 2012 Assessment
- Generation assumption changes
- Needs are likely to be delayed
- Participating in Regional Studies
- Addressing Northern Plan study area needs

Assessment Process



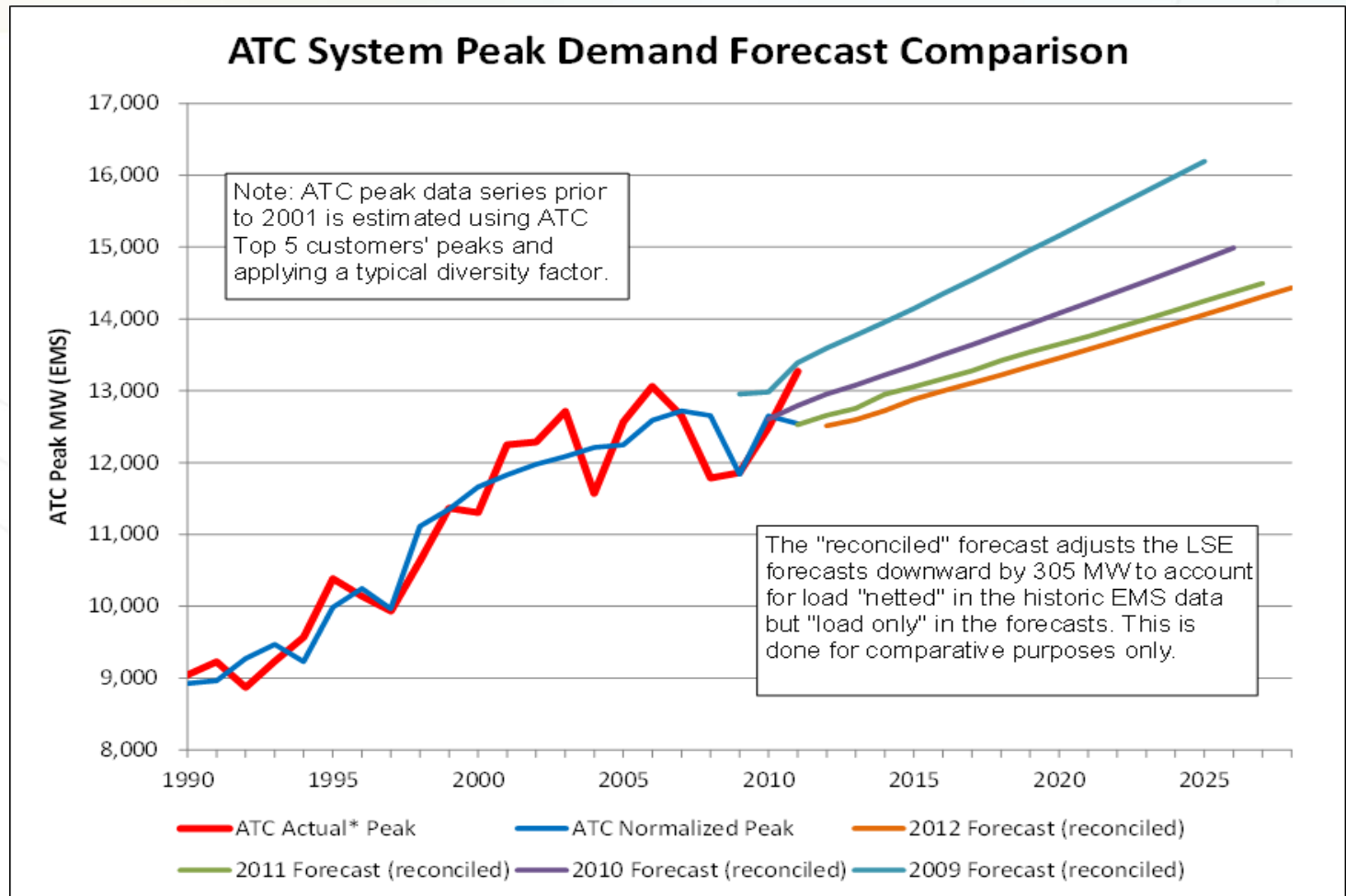
Sensitivities

2012 TYA		2013 TYA	
<i>Model</i>	<i>Year(s) Studied</i>	<i>Model</i>	<i>Year(s) Studied</i>
105% Summer Peak	2017	<i>Not Studied</i>	N/A
90% Load E-W Bias	2017, 2022	90% Load E-W Bias	2018, 2023
70% Load W-E Bias	2017, 2022	70% Load W-E Bias	2018, 2023
40% Minimum Load	2013, 2022	40% Minimum Load	2014, 2018
70% Load Firm Transfers (<i>All-Projects Model Only</i>)	2017, 2022	70% Load Firm Transfers (<i>All-Projects Model Only</i>)	2018, 2023

Contributing Studies

- 1st contingency Needs – 4 years
 - Added getting back to normal ratings with contingency
 - No 2013 projects
- Multiple outages
 - Added Cascading analysis (based on 2012 TYA models)
 - Screening for bus or generator and line outages (no 2013 projects)
- Generation -Transmission studies
- Distribution - Transmission studies
- Economic benefits studies
- Regional Reliability
- Public Policy Benefits
- Added Northern Plan Studies

Load Forecast Trends



Generation Dispatch Changes

- Studies with and without Kewaunee
- Wind (+13 MW)
- ATC Net Interchange Comparison to 2012 TYA
 - 2014 Peak: 84 MW reduction to imports
 - 2018 Peak: 81 MW reduction to imports
 - 2023 Peak: 81 MW reduction to imports

Need Drivers

Need Drivers	Zone				
	1	2	3	4	5
G-T		X	X	X	
TSR	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
Dispatch/Biases	X	X	X	X	X
Regional		X	X		X

Preliminary Network Changes - Deferrals

- **Near Term (2 year impact)**
 - 2 projects could be deferred
- **Longer Term (Beyond 2 year impact)**
 - 2 projects could be deferred
 - 19 projects could be cancelled

Preliminary Network Changes – New/Advanced

- 5 potential new projects (new dollars in capital forecast)
- 5 potential in-service date advancements

Stakeholder Communication

- **February – April 2012**
 - Requested load forecast from LDCs
- **September 2012**
 - Sent final load forecast back to LDCs
 - Process and assumptions meeting
 - Suggested new sensitivity studies
- **February 2013**
 - Stakeholder preliminary needs meeting
- **2nd Quarter 2013**
 - Stakeholder preliminary solutions meeting

Next Steps

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

Questions?

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