



# 2010 10-Year Assessment Preliminary Needs

February 22, 2010 Customer /  
Stakeholder Meeting

David Smith





# Overview

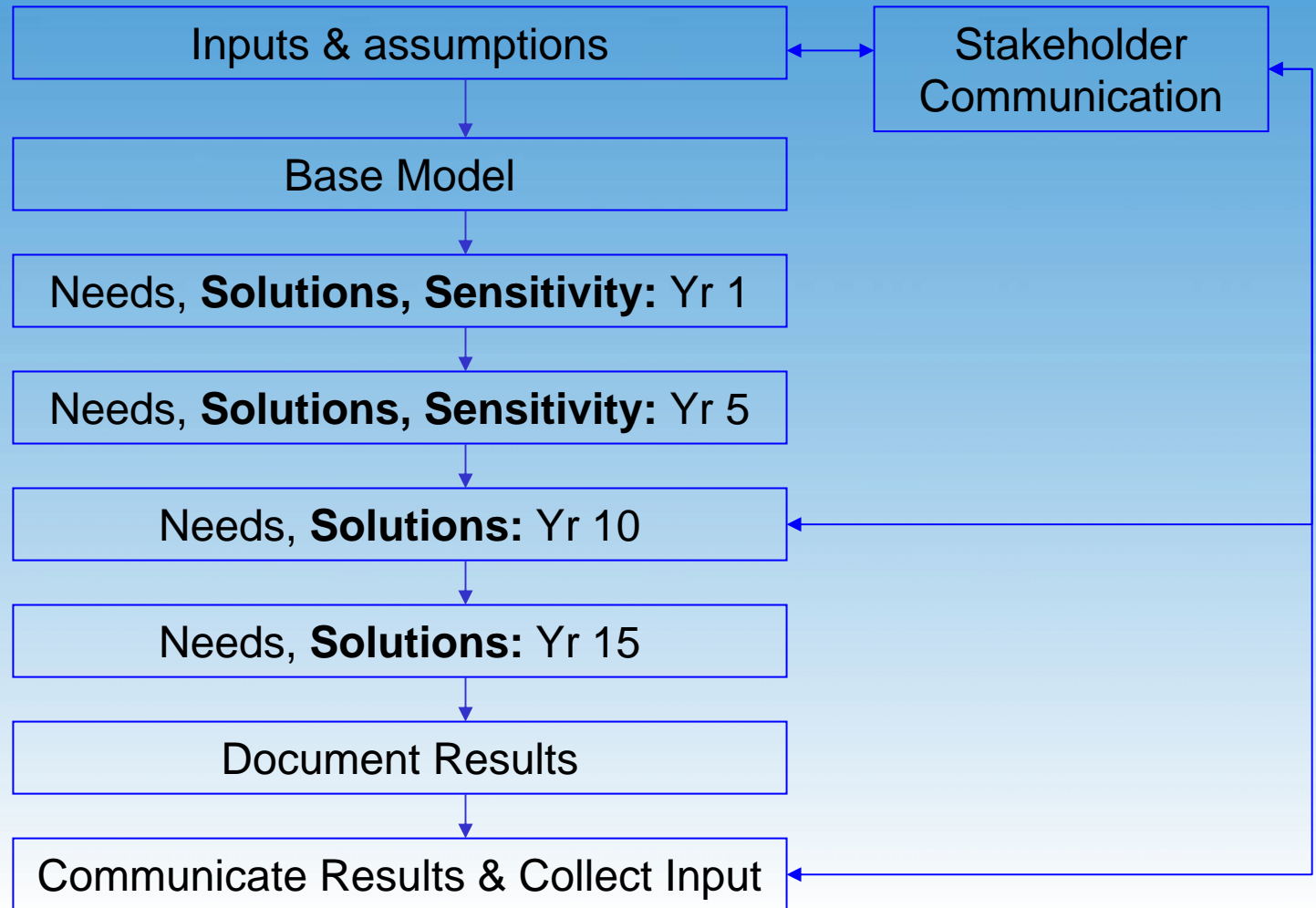
- Key Messages
- Process Summary
- Load Assumptions
- Generation Assumptions
- Need changes
- Stakeholder process
- Next Steps



# Key Messages

- Load forecast decreasing
- Minor generation assumption changes
- Many needs are likely to be delayed
- Participating in Regional Studies
- Use 2010 TYA to support NERC audit

# Assessment Process



# 2010 Assessment Process

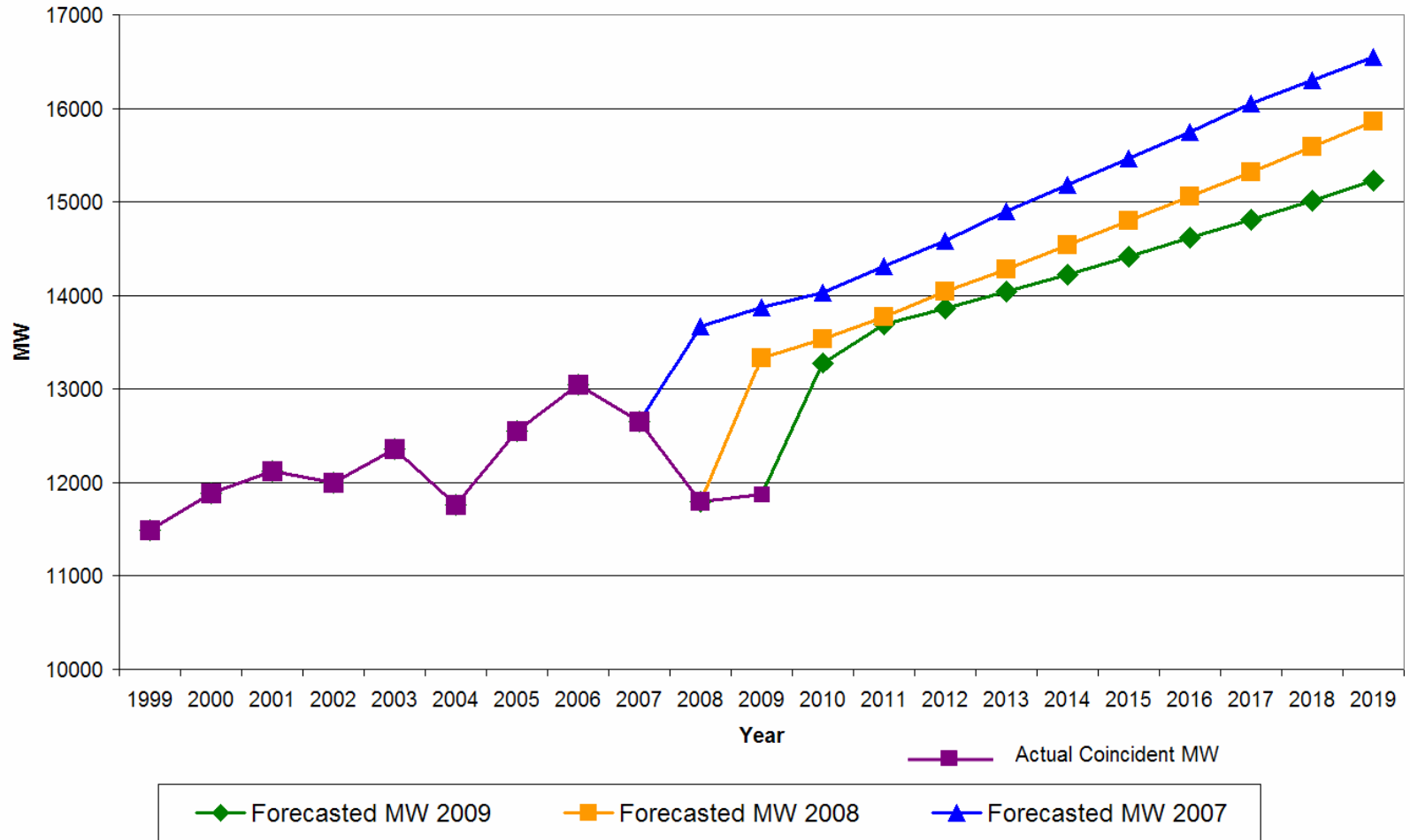
- Obtain/confirm utility forecasts
- Create ATC models using MISO models
- Analyze performance of ATC system 1, 5, 10 and 15 years out
- Verify/identify system needs and possible solutions
- Put projects in 10-Year forecast
- Draft report

# 2010 Process (cont'd)

- Preliminary Needs
  - 4 summer peaks (2011, 2015, 2020, 2025)
  - ID near term impacts
- Additional Needs Sensitivity
  - Load Forecast +5% (2015)
  - 3000 MW import shoulder model (2011,15)
  - Summer east-to-west flows (2011,15)
- Minimum load (2011)
- High wind generation impact (2015)

# Load Forecast Trends

## Load Forecast Trends 2007-2009





# Generation Changes

- Major Changes
  - Point Beach (208 MW increase)
  - Elm Road (70 MW decrease)
  - MH TSR modeled (500 MW to WPS, net increase of 392 MW)
  - WEC imports from ComEd (580 MW decrease)
- Minor Changes
  - Wind generators
    - Randolph (-19.8 MW) – withdrawn from G-T Queue
    - Twin Creeks (-21.1 MW) – withdrawn from G-T Queue
  - Menasha (-12 MW) – generation shut down





# Need Drivers

Need Drivers	Zone				
	1	2	3	4	5
G-T	X	X	X	X	X
TSR	X	X			
Condition	X	X	X	X	X
D-T	X	X	X	X	X
Economic Benefits	X	X	X	X	X
Load Growth	X	X	X	X	X
Dispatch/Biases		X	X	X	X
Regional	X	X	X	X	X



# Network Changes - Delays

- Several projects evaluated for potential delayed ISD
  - Approx 10 near term projects (1 – 3 years)
  - 20 – 25 longer term projects
    - Includes lines, uprates, transformers, capacitors
  - Approximately 5 projects evaluated for potential cancellation



# Network Changes - New

- 10 – 15 new projects under consideration
  - Includes uprates, transformers, capacitors and flow control
- 5 – 10 projects evaluated for potential advancement
  - Primarily in first half of planning horizon
  - Due to reliability and/or economic need drivers



# Comments/feedback

- Other needs?
- Potential solutions to these needs?



# Stakeholder Communication

- February – April 2009
  - Requested load forecast from LDCs
- July 10, 2009
  - Process and assumptions meeting
  - Suggested new sensitivity studies
- September 2009
  - Sent final load forecast back to LDCs
- February 2010
  - Stakeholder preliminary needs meeting
- 2<sup>nd</sup> Quarter 2010
  - Stakeholder preliminary solutions meeting



# Next Steps

- March - Sensitivity analyses complete
- April - Multiple outage study complete
- May - Cost estimates developed
- June - Study write-ups drafted
- August - Review/approval complete
- September - Publication complete
- October – Documented for NERC Audit



# For more information

Contact David Smith at [dsmith@atcllc.com](mailto:dsmith@atcllc.com)  
Or call at 920-338-6537

Stakeholder presentations available on the 10-  
Year Plan web site,  
<http://www.atc10yearplan.com/A8.shtml>





# Questions?