



2009 10-Year Assessment

Customer and Stakeholder Update Meeting

David Smith

March 6, 2009

Pewaukee CR160





Assessment Agenda

- Introduction
- Multiple Need Drivers
- Traditional Reliability Analysis
 - Needs
 - Stakeholder Input
 - Incorporating Futures: Status
 - Next Steps
- Collaborative - MI
- Summarize Multiple Need Drivers



Introduction

- Assessment Goal
 - Open and Transparent Process
 - Public Planning and Facility Siting
 - Identify multiple need drivers
 - Identify potential projects
 - Gather input from various stakeholders
 - Provide current results

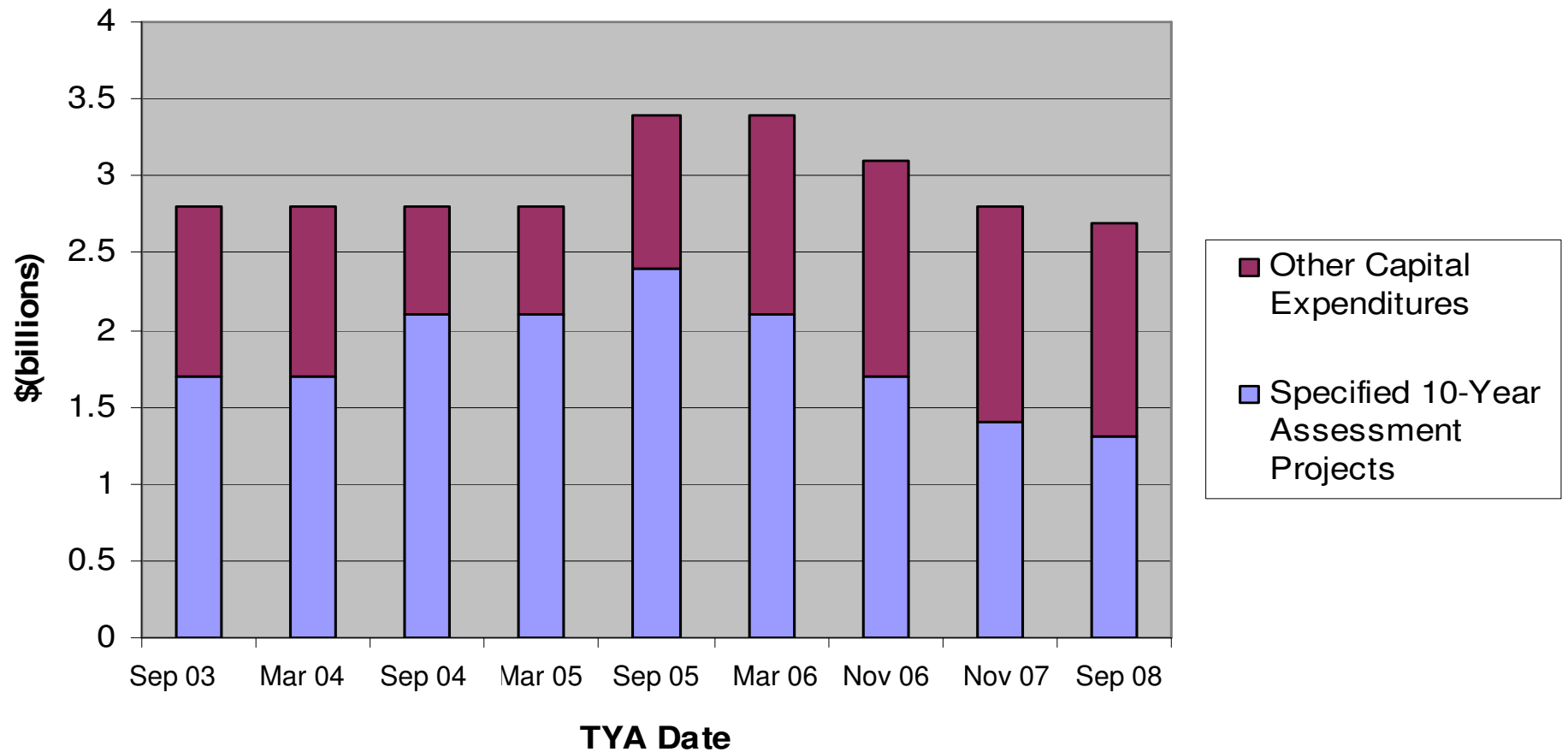


Multiple Need Drivers

- Safety
- Performance / Condition
- **Traditional Reliability Analysis**
- Multiple Contingency
- Economic Benefits
- Access
- Regional Initiatives
- Mandatory NERC Standards



Total 10-Year Capital Expenditures



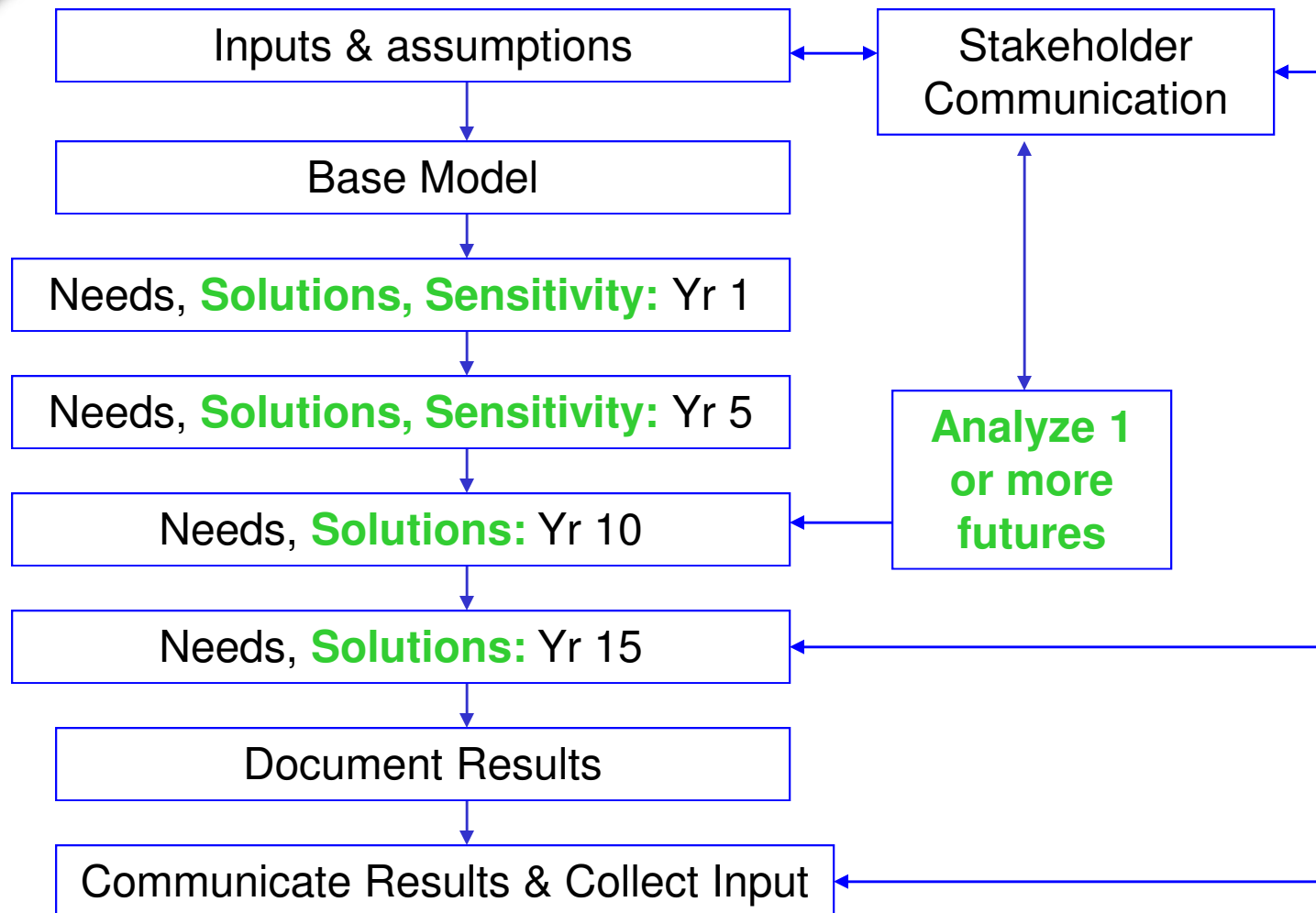


Traditional Reliability Analysis

October 16, 2008 Meeting

- Enhance Traditional Assessment
- Enhance Compliance with FERC 890
- Assumptions/ Futures Information
- Solicit comments

Enhanced Assessment





2009 Assessment Process

- Preliminary Needs
 - 4 summer peaks (2010, 2014, 2019, 2024)
 - ID near term impacts
- Additional Needs Sensitivity
 - Load Forecast +5% (2014)
 - West-to-East Bias at 70% load (2010,14)
 - East-to West Bias at 90% load (2010,14)
 - Futures – at least one (2019)
 - Might replace sensitivity
 - Consider result in project development



2009 Assessment Process (cont'd)

- 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



Electric Transmission Network & Substations

Wisconsin and the Upper Peninsula of Michigan

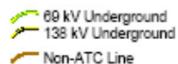
Currently, ATC owns or operates transmission facilities in 50 Wisconsin counties and in 15 Michigan counties. Facilities include:

- * Approximately 9350 miles of transmission lines
- * 95 wholly owned substations
- * 410 jointly owned substations
- * ATC offices in Madison, Cottage Grove, Pewaukee, De Pere, Wausau and Kingsford, WI

The information presented in this map document represents the most current and accurate georeferenced compilation of ATC owned and operated transmission facilities. Please direct any revisions or corrections to ATC Asset Data Management/GIS Services.

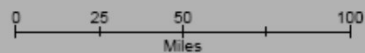
Base Map Information: ATC, PSCW, MDNR, WDNR

Transmission Line Voltage

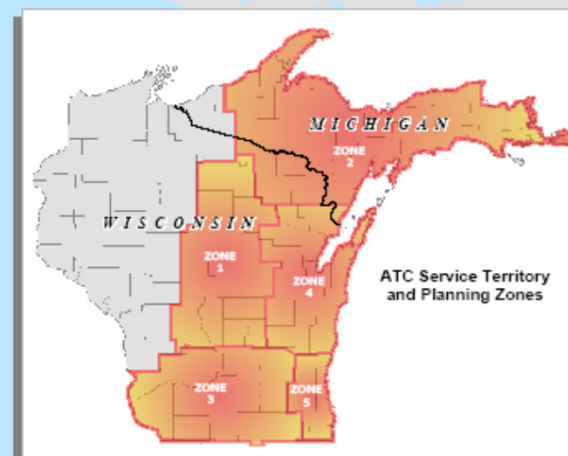
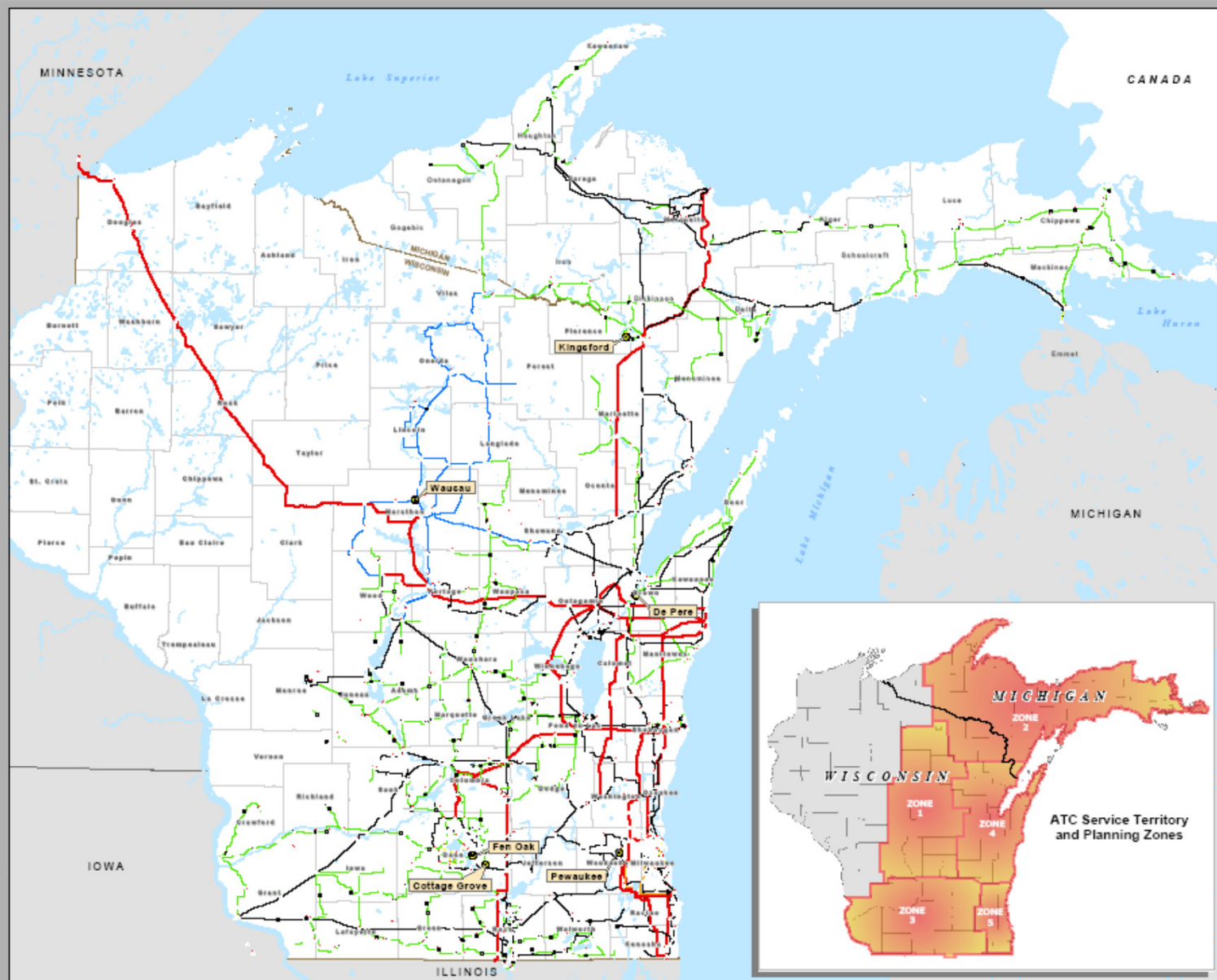


Transmission Related Facilities

- ▲ Substation or Switchyard
- Tap or Switching Structure
- ATC Office Location
- Generation



Last Revision: June 2008



\\p0001\GIS\Map\TransLineMap\ATC Service Territory.mxd June 21, 2008

Need Drivers

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



Futures Analysis

- Status
- Up to 3 futures
 - Slow growth
 - High environmental
 - DOE 20% Wind
- Models being developed
- Project Development



Schedule

- Study Plan w/Futures — Drafted
- Expected Load Forecast — Done
- Stakeholder Meeting — October 16th - Done
- Model Development — In Progress
- Preliminary Solutions — March 10, 2009
- **Preliminary Results & futures — 1st Qtr 2009**
- Final Solutions — 2nd Qtr 2009
- **Document and Publish — 3rd Qtr 2009**



ATC Energy Collaborative - MI

Ken Copp



For more information

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Presentations are available on the ATC web site,
<http://www.atc10yearplan.com/A8.shtml>



Recap of Day – Need Drivers

- Economic Benefits
- Regional Initiatives
- Traditional Reliability Analysis
- ATC Collaborative – MI
- Performance / Condition
- Safety
- Multiple Contingency
- Access
- Mandatory NERC Standards



Thanks for Participating!