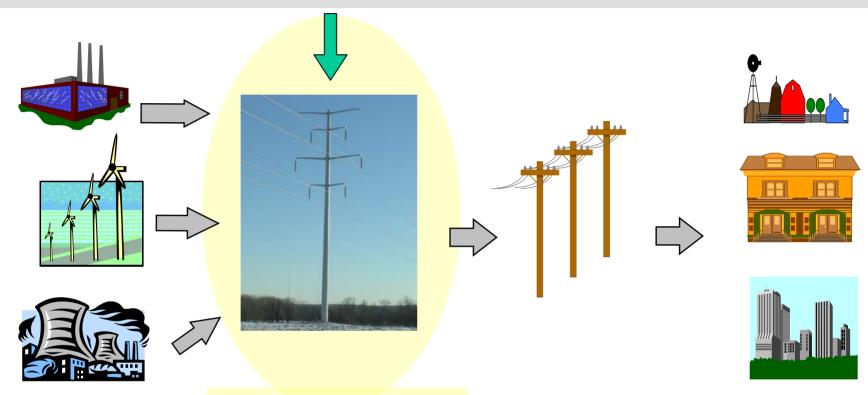
Talking Transmission

Tony Tewelis

Director - Customer Relations & Interconnection Services



What is transmission?



Multiple Sources of Generation Interconnected Transmission System (Grid)

Distribution System

Customers



Who is ATC?

We are responsible for building, operating, upgrading and maintaining the transmission system in most of Wisconsin and Michigan's Upper Peninsula as well as a small area of Illinois

We help ensure the reliability of the transmission system that delivers power to all customers using the grid in the upper Midwest

We are the critical link between generating plants and the utilities that provide power to your homes and businesses.



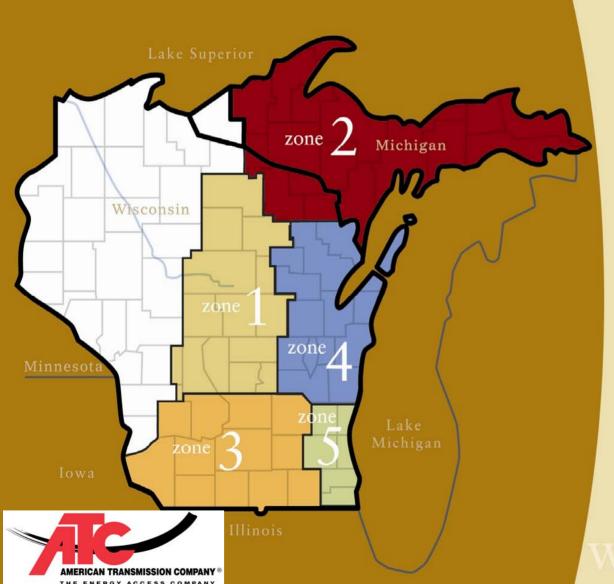
ATC: Background

- Began operations January 1, 2001
- 29 equity owners
- A member of the Midwest Independent Transmission System Operator & multiple reliability organizations
- Regulated by FERC for rates
- Regulated by states for siting transmission infrastructure
- Headquartered in Pewaukee, Wisconsin
- System can deliver more than 13,000 MW





ATC service territory



ATC at a glance

- Formed in 2001 as the first multi-state,
 transmission-only utility.
- Owner and operator of approximately
 9,100 miles of transmission line and
 480 substations.
- Meeting electric needs of approximately five million people.
- Transmission facilities in 66 counties in Wisconsin, Michigan and Illinois.
- \$1.8 billion in total assets.
- Seven offices in the communities of Cottage Grove, De Pere, Madison, Waukesha and Wausau, Wis.; Kingsford, Mich.; and Washington DC.

www.atcllc.com

The transmission system today

System at its limits

- New growth/generation/service cannot be adequately accommodated without reinforcement
- Enabling ongoing reliability requires reinforcement
- Very little system operating margin
- Insufficient import/transfer capability
- Key drivers
 - Load growth and location of growth
 - New generating units
 - Access to markets
- Other need drivers

ATC's response to situation

- Investment: \$3.1 billion next 10 years
- Growth: 160 projects
- Interconnections: 195 projects
- New generation: 30
- Transmission service: 41 projects
- Others (repairs, address service limitations): 31



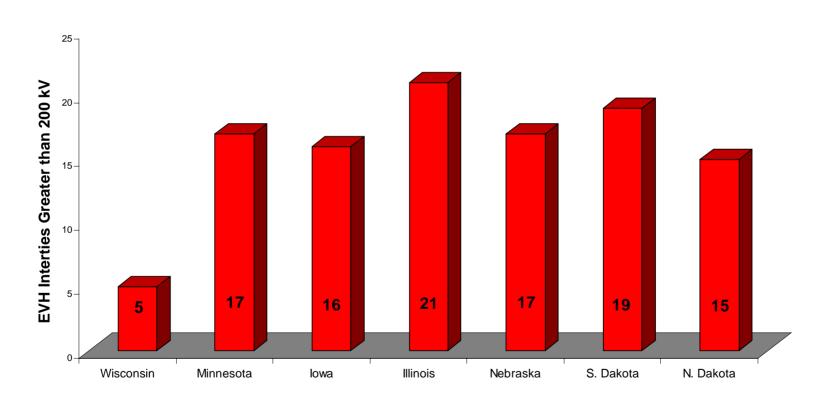
ATC's current plan

- Major projects approved/under construction:
 - Arrowhead-Weston
 - Gardner Park-Central Wisconsin
 - Morgan-Werner West
 - Cranberry-Conover-Plains
 - Oak Creek/Elm Road
- Major projects proposed/provisional:
 - Dane County
 - Access Initiative



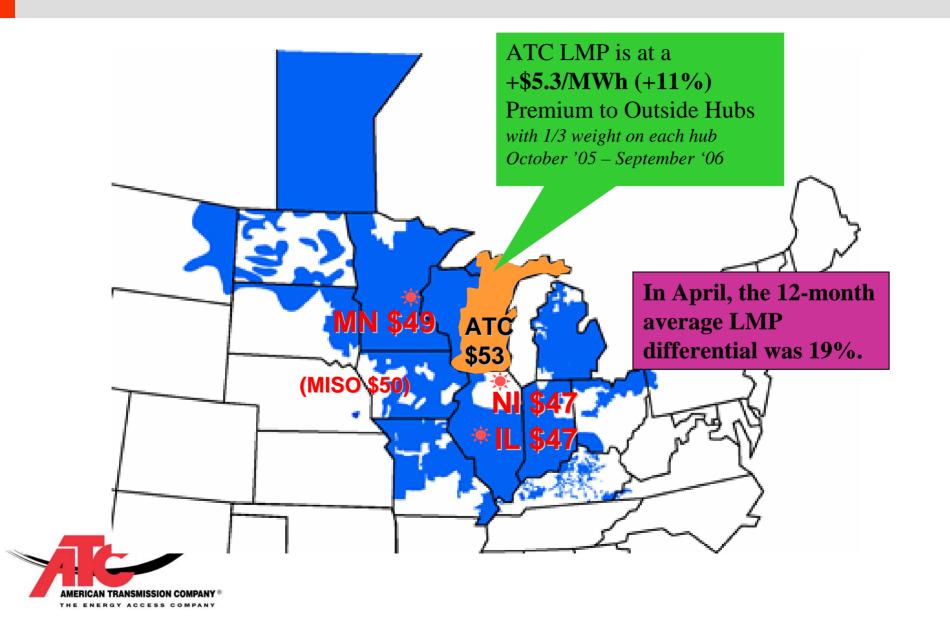


High Voltage Interconnections

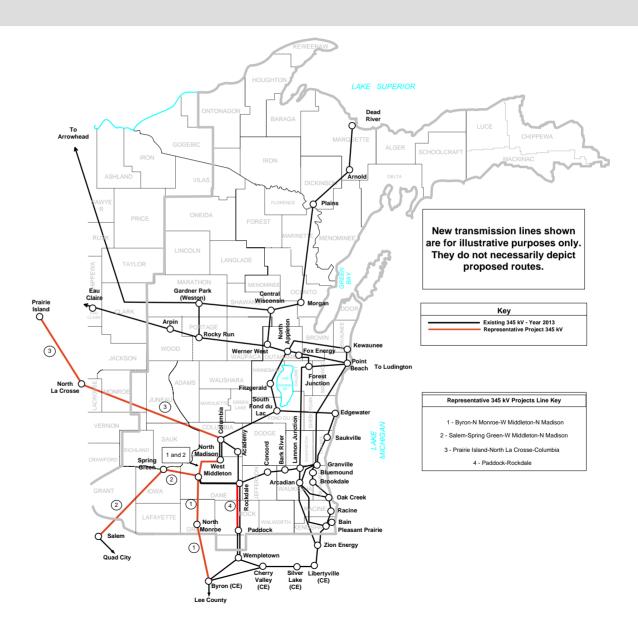




LMP Differentials

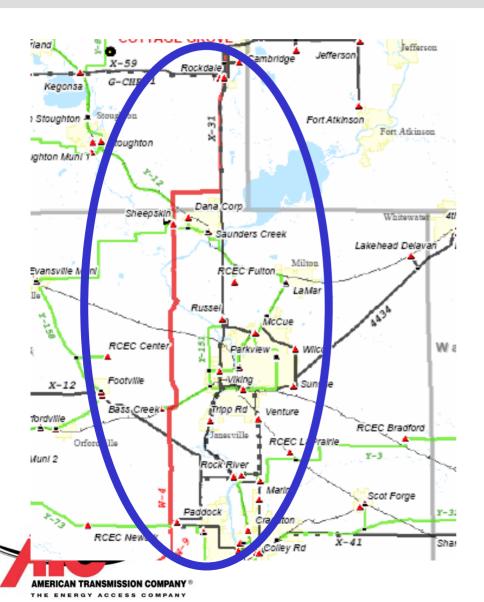


Access Alternatives





Project Map Study Area



Project Package:

- Add 345 kV circuit to existing W4 345kV
 Paddock Rockdale line
- Replace the Rockdale transformer
- Upgrade the Portage-Trienda 138kV line to increase capacity

Existing Line Rating:

■ 1214MVA, 181°F

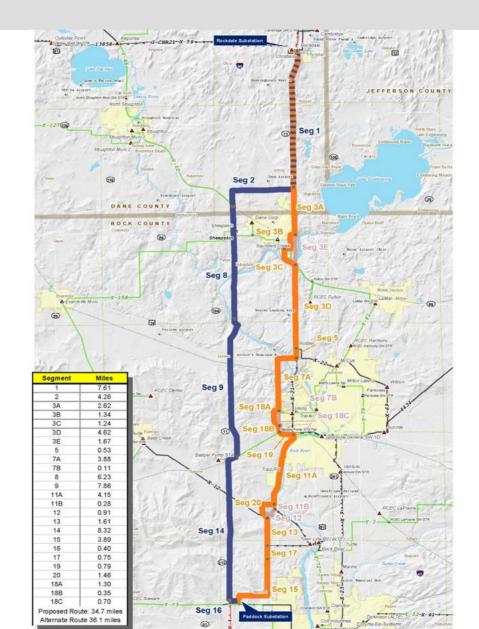
Original Line Installed:

1975

Proposed and Alternate Routes

Proposed Route

Alternate Route





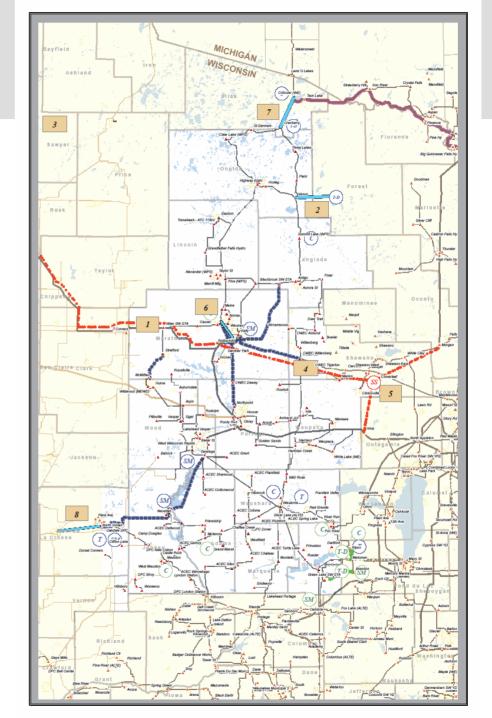
Zone 1 Projects

| 1. | Arrowhead – Weston 345 kV Line | 2006/2008 |
|----|---|-----------|
| 2. | Venus – Metonga 115 kV Line | 2007 |
| 3. | Stone Lake Substation | 2008 |
| 4. | Gardner Park – Central Wisconsin 345 kV Line | 2009 |
| 5. | Central Wisconsin 345 kV Substation | 2009 |
| 6. | Weston – Sherman St. – Hilltop 115 kV Rebuild | |
| | & new Gardner Park – Hilltop 115 kV Line | 2007 |
| 7. | Cranberry – Conover 115 kV Line | 2008 |
| 8. | Monroe County - Council Creek 161 kV Line | 2012 |



Zone 1 Map

Please refer to ATC Zone 1 Handout





Zone 4 Projects

| 1. | Loop Butternut – South Fond du Lac 138 kV | |
|-----|--|------|
| | into Forward Energy Center | 2007 |
| 2. | Loop Forest Junction – Arcadian 345 kV | |
| | into Cypress Substation | 2007 |
| 3. | Werner West 345 /138 kV Substation | 2006 |
| 4. | Stiles – Amberg double circuit 138 kV line rebuild | 2006 |
| * | Sunset – Ellinwood second circuit 138 kV Line | 2007 |
| 5. | Werner West – Morgan 345 kV line and | |
| | Clintonville – Werner West 138 kV line | 2009 |
| 6. | Crivitz – High Falls 69 kV double circuit line rebuild | 2009 |
| 7. | Canal – Dunn Road 138 kV Line | 2012 |
| 8. | Dunn Road – Egg Harbor 138 kV Line | 2016 |
| 9. | Shoto – Custer 138 kV Line | 2012 |
| 10. | Bayport – Suamico – Sobieski – Pioneer 69 kV line | |
| | rebuild & conversion to 138 kV | 2016 |
| 11. | Northside – City Limits (Appleton) 138 kV Line | 2016 |



Zone 4 Map

Please refer to ATC Zone 4 Handout



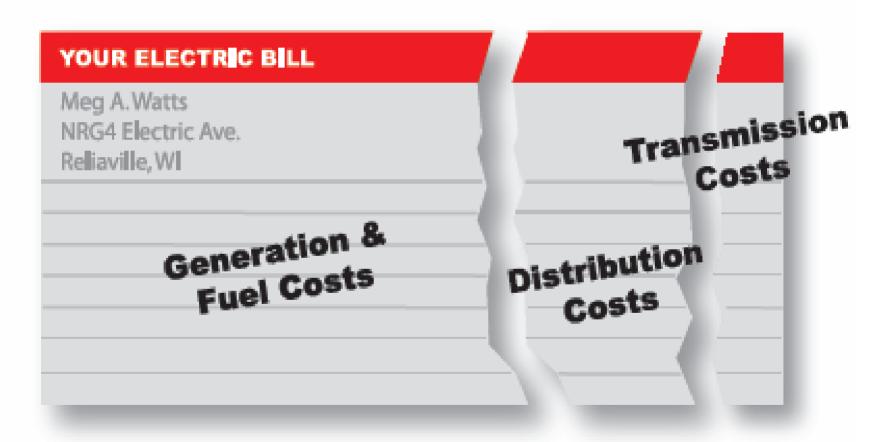


What are the challenges?

- Planning ahead for changing conditions
- Resource-intensive: both labor and capital
- Siting new facilities is a long process
 - 5 to 7 years for a new major transmission line
- Gaining support for new projects
- NIMBY & NUMBY



Electric transmission is approximately 5%-7% of the average electric bill





Why public outreach?



- Tell public and regulators about need and possible impacts
- Learn their concerns
- Respond to concerns and questions
- Demonstrate fairness
- Spend time now....
 Save time later



How can you assist?

- Become informed
- Read project literature
- Attend open houses
- Ask questions WPS & ATC
- Regulatory public comment period
- Contact & inform employees / civic groups
- Provide feedback



Contacts

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 Senior Regional Manager Customer Relations
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 Director Customer Relations & Interconnection Services



Questions?



