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# 2019 Economic Study Assumptions

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#### Introduction

- Process Overview and Timeline
- 2019 Futures Development
- Study Areas
- Next Steps



#### ATC Process Overview and Timeline

- ATC Economic Project Planning Per ATC Tariff
  - During February, we hold an initial stakeholder meeting to review the market congestion summary and potential fixes and to discuss economic study scenarios, drivers, ranges, and assumptions.
    - By March 1, we work with stakeholders to request and prioritize new/other economic studies and recommend study assumptions.
  - By April 15 we identify preliminary areas of economic study, study assumptions and models and solicit further comments from stakeholders.
  - By May 15 we finalize areas of economic study, study assumptions and models to be used in analysis.
  - By November 15 we provide a summary of the results of the economic analyses to our stakeholders.



### 2019 Futures Development

- Utilize the MISO MTEP models and futures
- Review MISO models and provide updates as necessary
  - Review generation interconnection request in MISO Queue
  - Review load profiles and demand and energy growth
  - Better modeling of time of use industrial customers
  - Most updated transmission topology
- Ensures greater alignment with MISO stakeholder process



#### MISO MTEP19 Futures

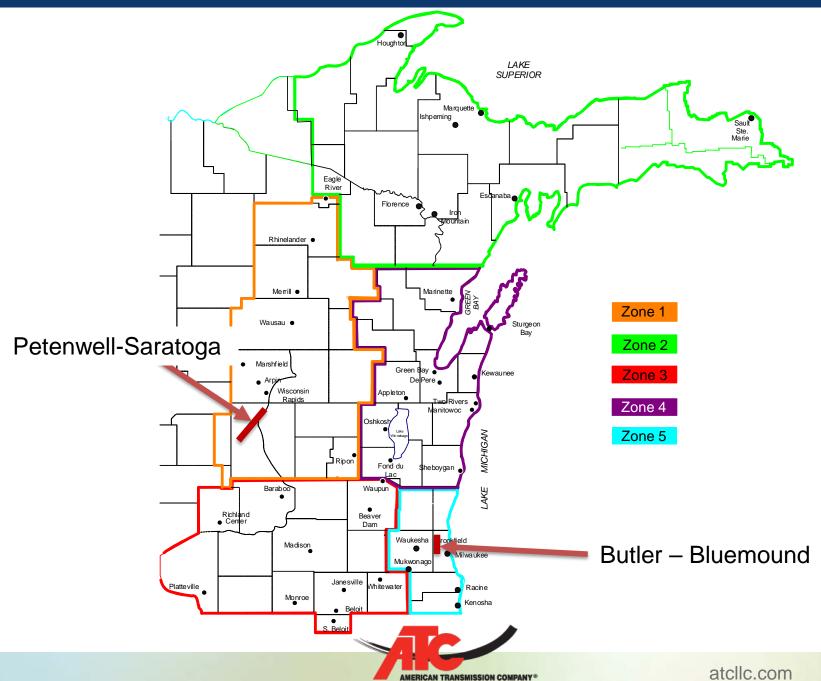
- Limited Fleet Change (LFC)
- Continued Fleet Change (CFC)
- Accelerated Fleet Change (AFC)
- Distributed & Emerging Technology (DET)



## **Notable MTEP19 Congestion**

- Butler Bluemound 138 kV
- Petenwell Saratoga 138 kV
  - This has a remedial action scheme for constraint mitigation
- North Monroe Bass Creek 138 kV
  - Driven by future assumed generation siting
- Eden Wyoming Valley 138 kV
  - Driven by future assumed generation siting





## Petenwell – Saratoga 138kV

- New NERC RAS study requirements increases cost of maintaining RAS
- A significant portion of the poles need to be replaced in 5-10 years
- \$20M Cost estimate to rebuild
- Evaluating other benefits of a project



### Butler - Bluemound 138kV

- Studied last year
- Congestion occurs in MTEP19
- Analyzing extensive battery solutions for constraint



## **Next Steps**

- 2019 Model Updates
  - Update model with new signed interconnection agreements
- Analysis of Projects
  - Study Years 2023, 2028 and 2033
  - Futures All MISO MTEP19 Futures
- Timelines
  - May 15: Finalize Assumptions
  - November 15: Provide Analysis Update



#### Questions?

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### **Thank You For Your Time!**



