

# Scenario Analyses

## Transfer Capability Comparisons

- Evaluated three scenarios
  - High internal generation
  - Low internal generation
  - High external wind generation
- Evaluated four alternatives
  - Base case
  - Byron-North Madison
  - Salem-North Madison
  - Prairie Island-Columbia

# Scenario Analyses

## Key Assumptions

- High generation scenario
  - All planned generation included
  - Base import: 1,610 MW
- Low generation scenario
  - All planned generation included
  - 2,600 MW of existing generation retired
  - Base import: 2,130 MW
- High wind generation scenario
  - All planned generation included
  - 1,500 MW of new external wind generation
  - Base import: 3,110 MW

# Scenario Analyses

## Transfer Capability Comparisons

### High Internal Generation Scenario

<u>Alternative</u>	<u>No fixes</u>	<u>One fix</u>	<u>Two fixes</u>
Base Case	3,462 MW	3,582 MW	3,648 MW
Byron-North Madison	4,499 MW	4,737 MW	4,787 MW
Salem-North Madison	4,497 MW	4,607 MW	4,766 MW
Prairie Island-Columbia	3,643 MW	3,985 MW	4,085 MW

# Scenario Analyses

## Transfer Capability Comparisons

### Low Internal Generation Scenario

<u>Alternative</u>	<u>No fixes</u>	<u>One fix</u>	<u>Two fixes</u>
Base Case	3,132 MW	3,556 MW	3,614 MW
Byron-North Madison	3,865 MW	4,001 MW	4,262 MW
Salem-North Madison	3,787 MW	4,141 MW	4,305 MW
Prairie Island-Columbia	3,598 MW	3,629 MW	3,972 MW

# Scenario Analyses

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### High Wind Generation Scenario

<u>Alternative</u>	<u>No fixes</u>	<u>One fix</u>	<u>Two fixes</u>
Base Case	3,017 MW	3,158 MW	3,508 MW
Byron-North Madison	3,430 MW	3,897 MW	4,007 MW
Salem-North Madison	3,751 MW	4,113 MW	4,531 MW
Prairie Island-Columbia	3,508 MW	4,010 MW	4,473 MW