



# Topology Optimization: Reconfiguration for Congestion Cost Update

Reliability Subcommittee

August 28<sup>th</sup>, 2025

Updated 08/28/2025 Slide  
3: Corrected to “2 pending”  
in Market Analysis section.  
Updated 09/03/2025 Slide  
5: Corrected Line 7 State to  
“MO”; Slide 8: Corrected link  
for contact email address.

# Purpose & Key Takeaways



**Purpose:** To provide the quarterly update on the MISO Economic Reconfiguration process (Congestion cost reconfiguration)

## Key Takeaways:

- 2025 Implemented economic reconfigurations YTD resulted in estimated \$11M in market benefits
- Success rate of submitted requests in 2025 is 36% (4 approved and implemented)
- Eleven submissions in 2025 YTD (2 in progress)
- Majority of implemented reconfigurations addressed outage related congestion

# MISO Has Implemented 4 Economic Reconfigurations in 2025 YTD

## 11 reconfiguration Submissions YTD in 2025

- Market Participant or vendor on behalf of MP submitted
- Targeted at either existing or upcoming congestion

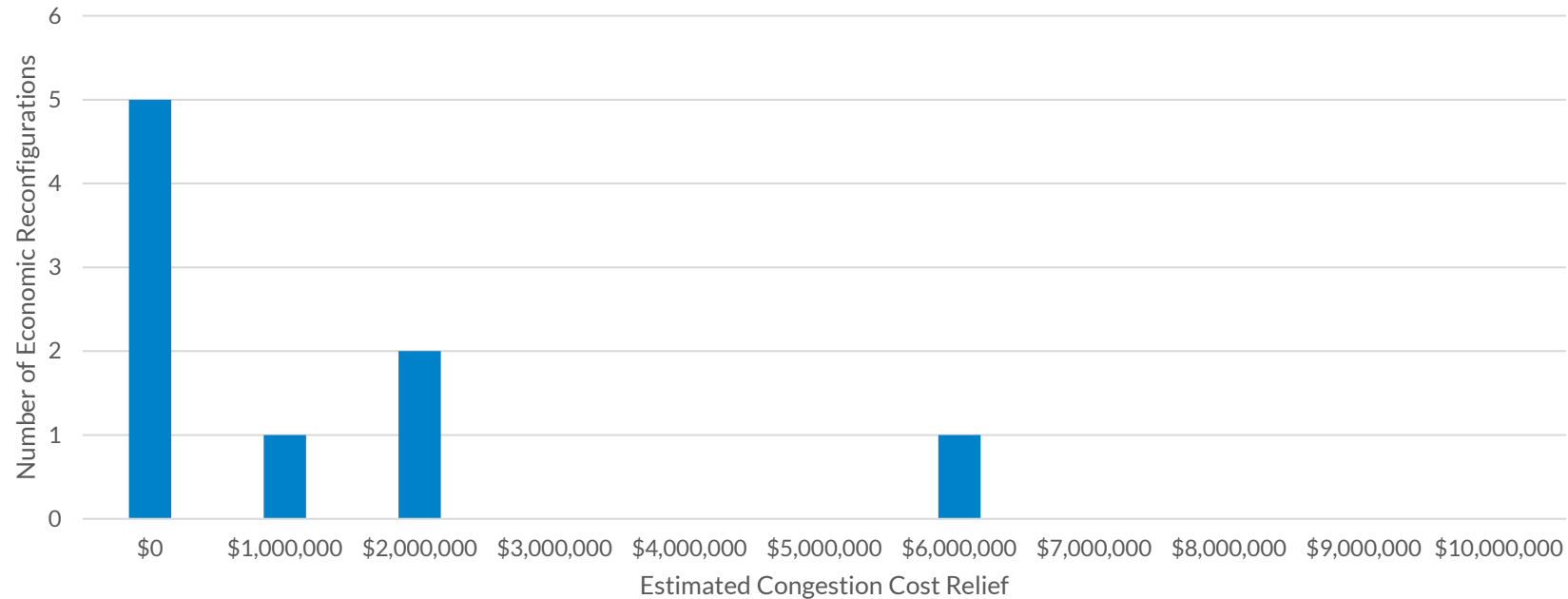
## 7 submissions approved through reliability analysis (2 pending)

- MISO TO's also require analysis and coordination and have heard anecdotally the challenges this has posed

## 4 submission approved through market analysis (2 pending)

- MISO Market analysis takes on average 24 hours for analysis.
- Complexity of analysis and coordination creates challenges with turnaround time from request to implementation

# Reconfigurations Led to an Estimated Market Wide Congestion Cost Benefit of \$11M Through 2025 YTD



| Reconfiguration           | Constraint                | Duration (days) | Lead Time (days) | Est Cong Relief |
|---------------------------|---------------------------|-----------------|------------------|-----------------|
| Remsen – Cherokee 345kV   | Raun - Fort Calhoun 345kV | 15              | 15               | \$1,000,000     |
| Chester 1922QB15, 822QB15 | Wabaco – Alma 161kV       | 19              | 27               | \$6,000,000     |
| Sand Lake-7 Mile          | 7 Mile-Port Edwards       | 83*             | N/A              | \$2,000,000     |
| Wilmarth TR9              | Wilmarth TR10             | 102*            | N/A              | \$2,000,000     |

\* This reconfig is ongoing

# Top 10 cost congested constraints since last RSC

| <u>July 7th, 2025-August 19, 2025</u>                                  |              |                                      |              |            |
|------------------------------------------------------------------------|--------------|--------------------------------------|--------------|------------|
| <u>Constraint</u>                                                      | <u>Total</u> | <u>Top 10 in the last 12 months*</u> | <u>State</u> | <u>M2M</u> |
| 1 RDT                                                                  | \$17.3M      | 5                                    | RDT          |            |
| 2 Brownstone-Monroe 345kV FLO Monroe-Wayne 345kV                       | \$6.6M       |                                      | MI           | x          |
| 3 Pohl-Eastwind 115kV FLO Wilmarth-Summit 115Kv                        | \$6M         |                                      | ND           |            |
| 4 Fargo-Sheyne 230kV FLO Hankinsin-Wahpeton230Kv-Wahpeton T2           | \$5.2M       |                                      | ND           | x          |
| 5 Brownstone XF FLO Monroe-Wayne 345kV                                 | \$4.8M       |                                      | MI           |            |
| 6 Roxana-Mittal 138Kv FLO Praxair 1-Chicago Ave 138kV                  | \$4.2M       |                                      | IL           |            |
| 7 Montgomery-Warrenton 161kV FLO Belleau-Montgomery 345kV              | \$3.8M       |                                      | MO           | x          |
| 8 Square Butte-Stanton2 230kV FLO Center-Praire 345kV                  | \$3.7M       |                                      | ND           | x          |
| 9 Morrisot-Grantco 115kV FLO Bigstone Brownsville- New Effington 230kV | \$3.3M       |                                      | MN           |            |
| 10 Plymouth-Burr Oak 138kV FLO Burr Oak Hiple 345 kV                   | \$3.2M       |                                      | IN           | x          |

|  |                                              |
|--|----------------------------------------------|
|  | Economic Reconfiguration available           |
|  | Reliability Reconfiguration available        |
|  | Being evaluated for Economic Reconfiguration |

\*Top 10 in the last 12 months derived from 8 RSC Postings

## Top 10 cost congested constraints - comments

- Many of the constraints driven by outages (Both planned and forced)
- 5 of the 10 constraints are M2M coordinated flowgates

# Economic Reconfig Information Posting

- Continuing efforts on posting reconfiguration information (Start and end date, target constraint, submittal status, approval status) to Extranet site.
- Targeting Q4 2025 roll out
- Will present to the October RSC with additional information for requesting access to Extranet site.



# Questions?

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