



# Review of Generator Interconnection Studies Plan

South Subregional Planning Meeting

February 13, 2025

# Purpose & Key Takeaways



To provide an update on MISO's current queue status, projects and costs; along with communicating upcoming schedule dates

- Gain understanding of current and future queue projects
- Awareness of upcoming system impact study report postings

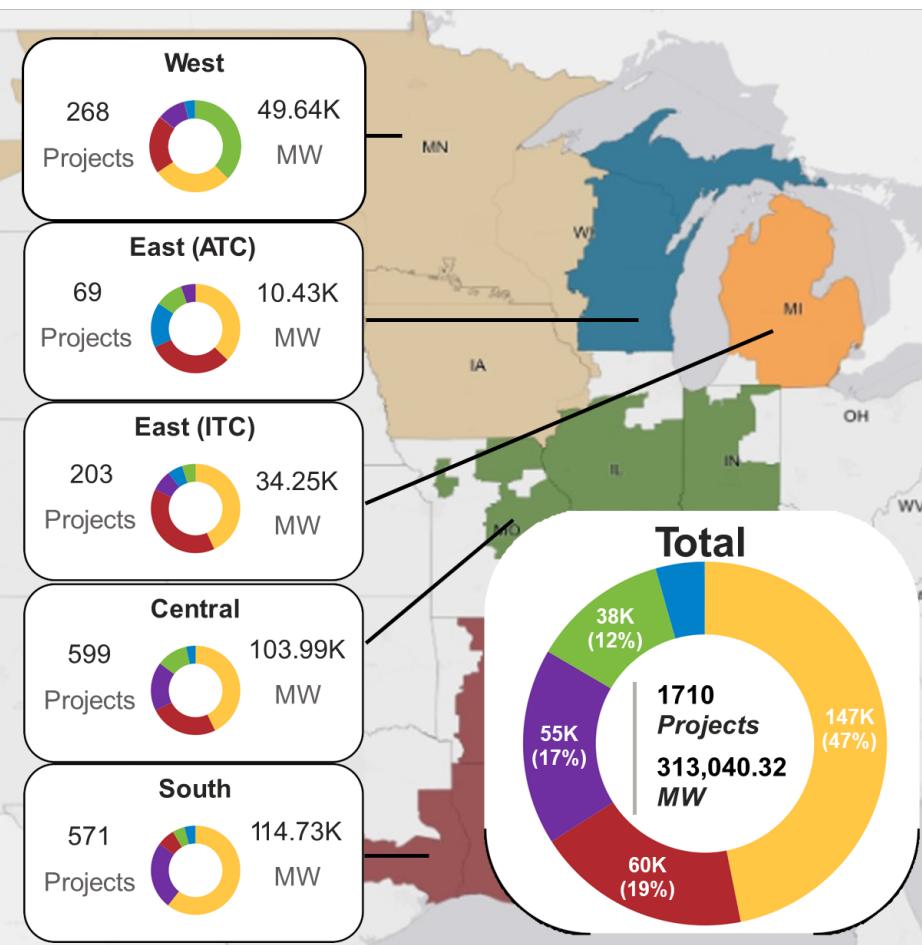
# MISO Generator Interconnection

## DPP Active Queue Overview

1710  
Active Projects in Queue

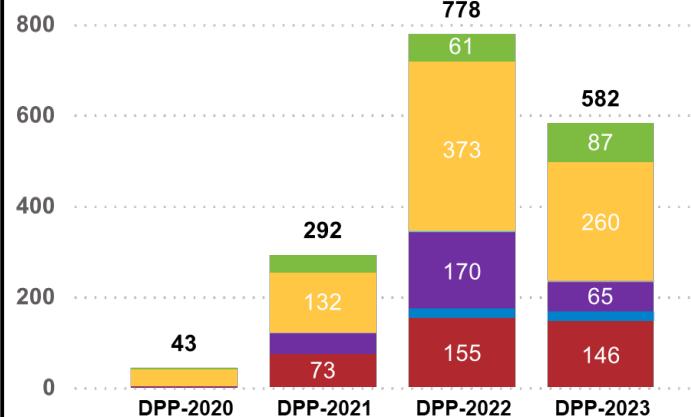
313,040.32  
MW in Queue

### MISO Active Queue by Study Group

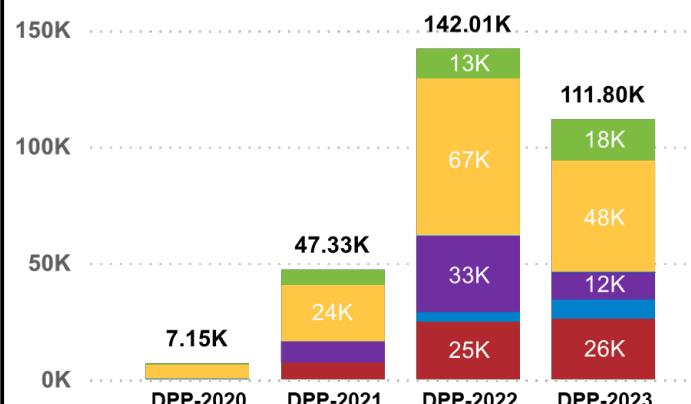


### DPP Trends

#### Active Projects by Year



#### Active Projects by Year (MW)



### 2021-2023 Breakdown

Group Fuel	DPP-2021 #	DPP-2021 MW	DPP-2022 #	DPP-2022 MW	DPP-2023 #	DPP-2023 MW
Central	95	14,075	246	43,889	210	37,571
Battery	30	2,778	62	10,508	63	11,679
Gas			2	1,277	4	1,948
Hybrid	18	3,312	62	12,089	17	2,628
Other					1	0
Solar	34	6,001	104	17,100	95	15,155
Wind	13	1,985	16	2,916	30	6,161
<b>East (ATC)</b>	<b>18</b>	<b>3,076</b>	<b>33</b>	<b>4,487</b>	<b>17</b>	<b>2,711</b>
Battery	6	950	11	1,615	4	650
Gas			6	995	2	707
Hybrid	1	100	3	125	3	324
Solar	10	1,986	11	1,394	4	360
Wind	1	40	2	358	4	670
<b>East (ITC)</b>	<b>35</b>	<b>4,714</b>	<b>82</b>	<b>13,502</b>	<b>80</b>	<b>13,701</b>
Battery	15	1,600	25	4,345	38	6,900
Gas			1	13	3	405
Hybrid	7	1,000	5	1,119	3	503
Other					1	8
Solar	11	1,846	51	8,024	28	4,480
Wind	2	268			7	1,406
<b>South</b>	<b>91</b>	<b>16,770</b>	<b>298</b>	<b>57,540</b>	<b>180</b>	<b>39,656</b>
Battery	16	1,122	28	3,487	16	2,805
Gas			1	220	7	4,200
Hybrid	17	4,229	86	16,488	37	7,369
Hydro			1	36		
Nuclear					1	153
Solar	58	11,419	174	35,172	106	22,152
Wind			8	2,137	13	2,977
<b>West</b>	<b>53</b>	<b>8,691</b>	<b>119</b>	<b>22,590</b>	<b>95</b>	<b>18,162</b>
Battery	6	850	29	5,105	25	4,145
Gas			7	1,159	5	779
Hybrid	4	670	14	3,334	5	1,052
Hydro			1	4		
Other	1	18				
Solar	19	2,876	33	5,569	27	5,492
Wind	23	4,277	35	7,419	33	6,694
<b>Total</b>	<b>292</b>	<b>47,326</b>	<b>778</b>	<b>142,007</b>	<b>582</b>	<b>111,802</b>

# DPP-2020-South: GIA Negotiations Underway

Cost Breakdown	Cost
ERIS Thermal Network Upgrades	\$40,500,000
ERIS Voltage Network Upgrades	\$0
ERIS Stability Network Upgrades	\$0
ERIS Short Circuit Network Upgrades	\$2,400,000.00
Affected System Network Upgrades	\$0
NRIS Network Upgrades	\$37,000,000.00
TO Network Upgrades	\$244,591,334.00
TO - Owned Direct Assigned	\$37,489,500.00
Shared Network Upgrades	\$0
Total Network Upgrade Cost for Milestone Calculation	\$324,491,334.00

# DPP-2021-South: Phase-2 Draft

Cost Breakdown	Cost
ERIS Thermal Network Upgrades	\$925,785,554
ERIS Voltage Network Upgrades	\$2,696,158
ERIS Stability Network Upgrades	\$567,230,581
ERIS Short Circuit Network Upgrades	\$45,000,000
Affected System Network Upgrades	\$392,443,285
NRIS Network Upgrades	\$4,772,582,663
TO Network Upgrades	\$947,465,977
TO - Owned Direct Assigned	\$145,823,477
Shared Network Upgrades	\$19,586,825
Total Network Upgrade Cost for Milestone Calculation	\$7,280,347,758

# DPP-2022-South: Phase-1

Cost Breakdown	Cost
ERIS Thermal Network Upgrades	TBD
ERIS Voltage Network Upgrades	TBD
ERIS Stability Network Upgrades	N/A
ERIS Short Circuit Network Upgrades	N/A
Affected System Network Upgrades	N/A
NRIS Network Upgrades	TBD
TO Network Upgrades	TBD
TO – Owned Direct Assigned	TBD
Shared Network Upgrades	TBD
Total Network Upgrade Cost for Milestone Calculation	TBD

# DPP Schedule Overview

DPP Schedule As Of 1/27/2025

Region	Study Cycle	Number of Projects	MWs	DPP Start	DPP 1 Completion	DPP 2 Completion	DPP 3 Completion*	GIA Execution*	Current Stage/Status	Reason for Delay	Expected Time of Delay	Details
Central	DPP-2018-APR	34	7,344	4/22/2019	1/7/2020	3/10/2021	1/8/2024	6/6/2024	GIA In Progress			
	DPP-2019-Cycle	81	13,216	6/23/2020	8/5/2021	5/20/2022	1/26/2024	5/13/2024	GIA In Progress			
	DPP-2019-Cycle (Restudy)	69	10,988			5/21/2024	1/24/2025	2/23/2025	GIA In Progress			No change from last month.
	DPP-2020-Cycle	43	7,035	3/15/2021	7/14/2023	8/30/2024	2/10/2025	6/25/2025	DPP 3			No change from last month.
	DPP-2021-Cycle	95	13,840	12/8/2021	10/7/2024	4/2/2025	5/28/2025	10/10/2025	DPP 2	IC Delay / Dynamic Model Delay	1 week delay from last month	Significant IC feedback for model updates required.
	DPP-2022-Cycle	283	51,762	3/27/2023	5/2/2025	8/12/2025	10/7/2025	2/19/2026	DPP 1	MISO Delay	9 week delay from last month	Cascading delay.
East (ATC)	DPP-2023-Cycle	207	37,035	5/5/2025	8/13/2025	11/23/2025	1/18/2026	6/2/2026	Application	MISO Delay	9 week delay from last month	Cascading delay.
	DPP-2019-Cycle	16	1,721	5/20/2020	2/11/2021	3/10/2022	11/14/2022	4/13/2023	GIA Complete			
	DPP-2020-Cycle	29	3,850	2/24/2021	7/30/2021	10/28/2022	1/4/2024	4/21/2024	GIA Complete			No change from last month
	DPP-2021-Cycle	38	5,166	12/8/2021	6/9/2023	9/30/2024	3/25/2025	8/7/2025	DPP 3	MISO Delay	1 week	Coordination with West region cause delay in model development. 1 week delay from January.
	DPP-2022-Cycle	30	4,045	3/27/2023	5/2/2025	8/12/2025	10/7/2025	2/19/2026	DPP 1	MISO Delay	9 week delay from last month	Cascading delay.
East (ITC)	DPP-2023-Cycle	-	-	5/5/2025	8/13/2025	11/23/2025	1/18/2026	6/2/2026	Application	MISO Delay	9 week delay from last month	Cascading delay.
	DPP-2019-Cycle	28	3,621	7/7/2020	2/11/2021	3/29/2022	9/10/2022	12/27/2022	GIA Complete			
	DPP-2020-Cycle	21	3,872	2/24/2021	1/6/2022	9/7/2022	5/23/2023	9/8/2023	GIA Complete			
	DPP-2021-Cycle	54	8,907	12/8/2021	9/4/2023	2/26/2025	4/23/2025	9/5/2025	DPP 2	MISO Delay/TO Delay	10 days	10 day delay from last month. Addressing IC comments on draft report.
	DPP-2022-Cycle	87	15,015	3/27/2023	5/2/2025	8/12/2025	10/7/2025	2/19/2026	DPP 1	MISO Delay	9 week delay from last month	Cascading delay.
South	DPP-2023-Cycle	-	-	5/5/2025	8/13/2025	11/23/2025	1/18/2026	6/2/2026	Application	MISO Delay	9 week delay from last month	Cascading delay.
	DPP-2019-Cycle	34	5,545	2/10/2020	8/6/2020	3/18/2021	5/31/2022	10/28/2022	GIA Complete			
	DPP-2020-Cycle	48	6,542	12/22/2020	10/27/2021	8/9/2022	1/20/2023	5/8/2023	GIA In Progress			
	DPP-2021-Cycle	144	24,603	12/8/2021	10/25/2023	2/19/2025	4/16/2025	8/29/2025	DPP 2	MISO/Affected System Delay	1 Week	1 week delay from last month. AFS received from TVA. Awaiting report from SOCO. MISO addressing comments received on draft report.
	DPP-2022-Cycle	369	70,999	3/27/2023	5/2/2025	8/12/2025	10/7/2025	2/19/2026	DPP 1	MISO Delay	9 week delay from last month	Cascading delay.
West	DPP-2023-Cycle	-	-	5/5/2025	8/13/2025	11/23/2025	1/18/2026	6/2/2026	Application	MISO Delay	9 week delay from last month	Cascading delay.
	DPP-2019-Cycle	24	4,314	5/5/2020	3/19/2021	2/22/2022	2/9/2023	7/9/2023	GIA In Progress			No change from last month.
	DPP-2020-Cycle	30	3,638	1/6/2021	12/21/2021	1/6/2023	4/16/2024	8/2/2024	GIA In Progress			No change from last month.
	DPP-2021-Cycle	65	10,384	12/8/2021	9/28/2023	6/24/2025	8/19/2025	1/1/2028	DPP 2			No change from last month.
	DPP-2022-Cycle	119	22,624	3/27/2023	5/2/2025	8/12/2025	10/7/2025	2/19/2028	DPP 1	MISO Delay	9 week delay from last month	Cascading delay.
	DPP-2023-Cycle	101	19,592	5/5/2025	8/13/2025	11/23/2025	1/18/2026	6/2/2026	Application	MISO Delay	9 week delay from last month	Cascading delay.

Notes:

- 1) The dates provided are an estimate of queue cycle performance (including Federal Holidays or Weekends).
- 2) The dates provided are inclusive of the associated Decision Points. Final study reports are posted 15 business days prior to the completion dates.
- 3) DPP3 (Final System Impact Study) of several DPP cycles is scheduled to start before expected GIA execution of higher queued cycles. This schedule does not consider any restudies that may occur after Decision Point 2 of higher queued cycles.
- 4) Updates from the previous version are provided in red font.
- 5) The number of projects or MWs in a study group may change throughout the study process.

\*DPP 3 Completion and GIA Completion dates assume that Interconnection Customer follows Path #1 (NUFS not required). If the Interconnection Customer elects to follow Path #2, add 90 calendar days to the dates shown in these columns.

Categories for Reason of Delay:

- TO Delay
- MISO Delay
- MISO Delay/TO Delay
- IC Delay
- Restudy Delay
- Affected System Study Delay
- Pending FERC Ruling
- Model/Mitigation Delay
- Pending Previous Study Results

MISO Holidays	2024
News Year's Day	1/1/2025
Martin Luther King Day	1/20/2025
Presidents' Day	2/17/2025
Memorial Day	5/28/2025
Independence Day	7/4/2025
Labor Day	9/1/2025
Thanksgiving	11/27-11/28/2025
Christmas 2023	12/24-12/25/2025

On March 15, 2022, MISO's Reduced GIP Timeline initiative took effect. For all active study cycles, the subsequent Study Phase starting after March 15, 2022 will follow the new timeline. For additional details, please see Attachment X Sections 5, 9, 7, & 11. The transition to the new DPP timeline is shown on the schedule above as follows:

Dates NOT impacted by the new timeline have a white background with normal text

Dates impacted by the new timeline have a green background and italic text

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