



System Planning

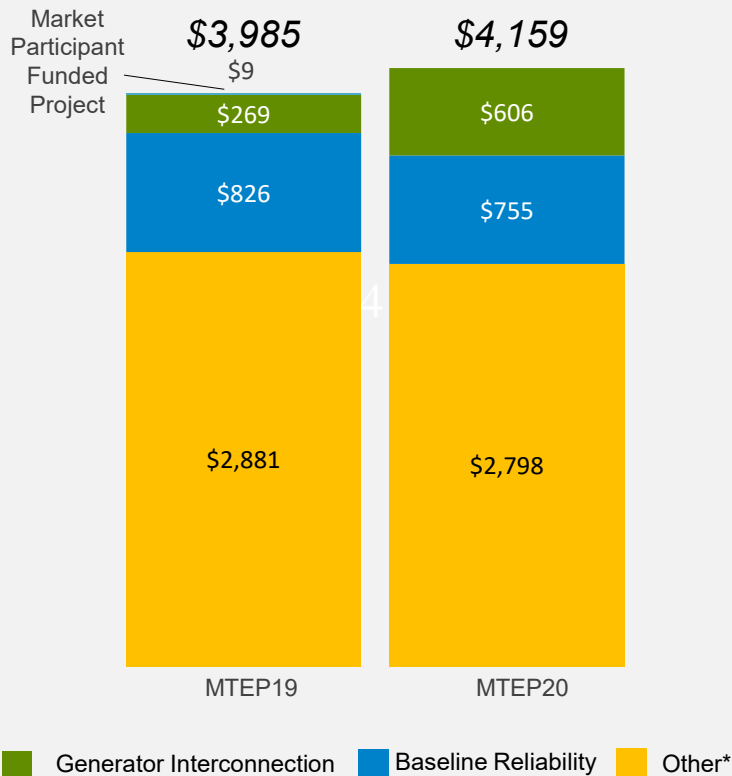
Entergy Regional States Committee

Nov. 20, 2020

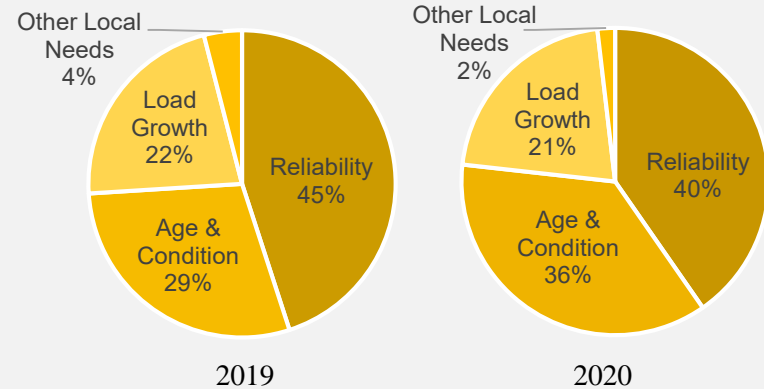
MTEP 2020

MTEP20 is focused on reliability

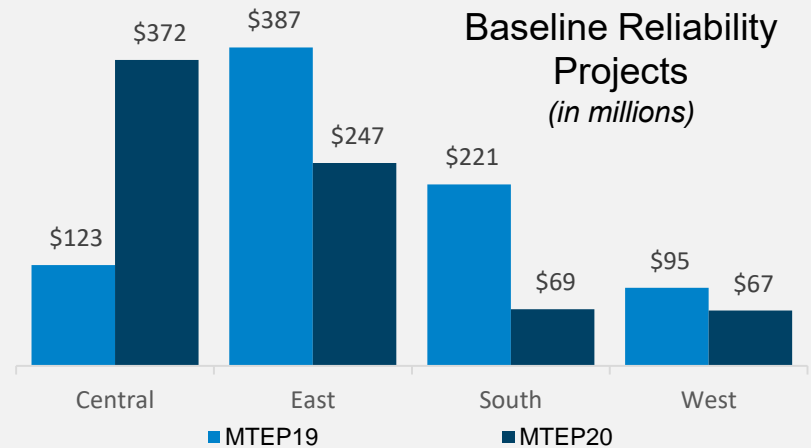
MTEP19 to MTEP20 Comparisons
(in millions)



Breakdown of Other* Projects

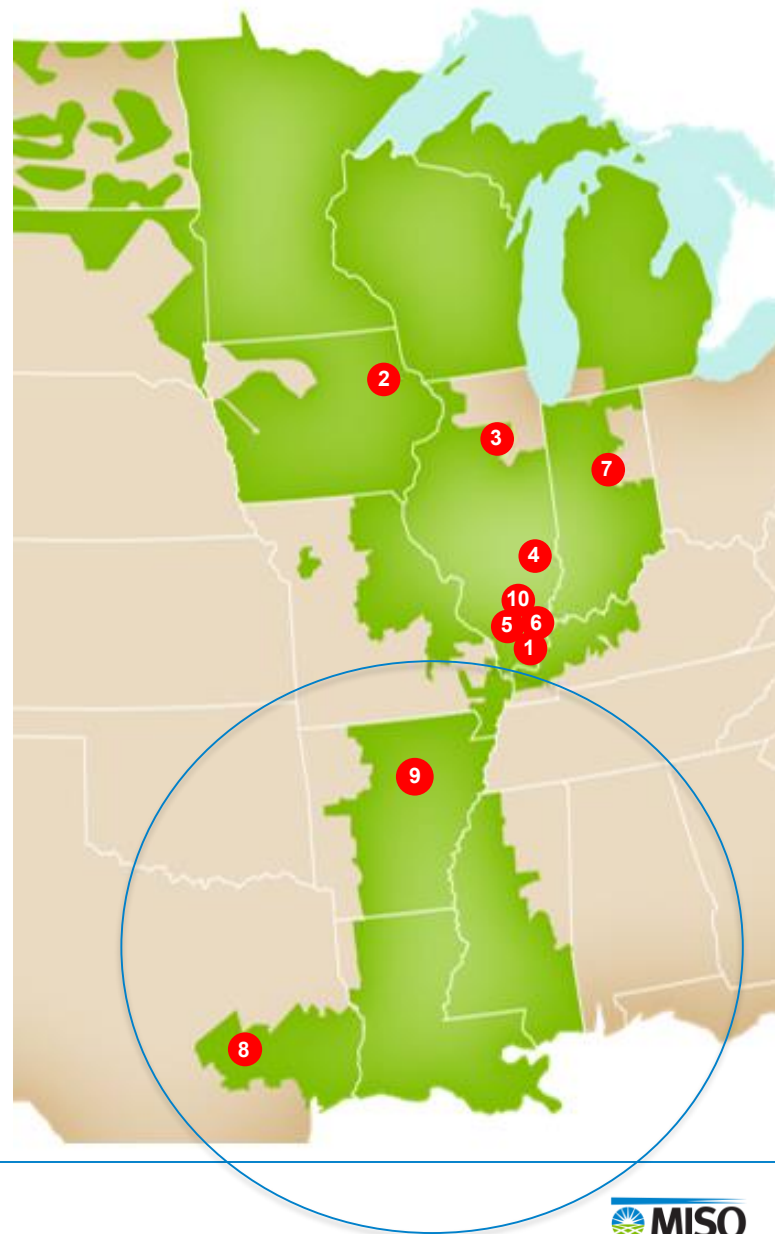


Breakdown of Baseline Reliability Projects
(in millions)

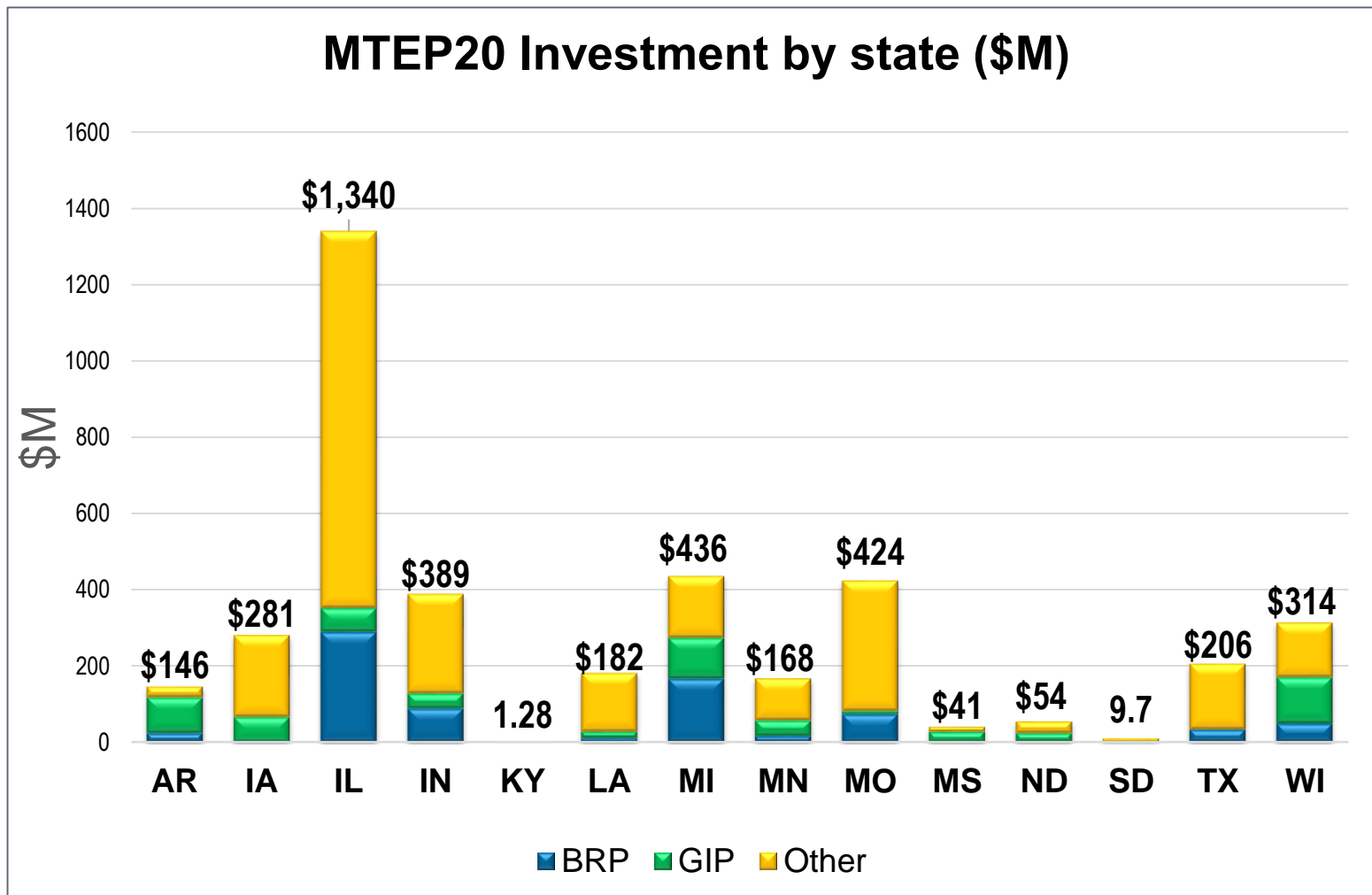


The proposed top ten projects represent 19% of total MTEP20 costs

Rank	Project	Driver	Cost (Millions)
1	New Massac Substation - Convert Joppa 230 kV Substation to 345 kV Substation	Other - Reliability	\$112
2	Big Cedar Load Interconnection	Other – Load Growth	\$105
3	New LaSalle Area 138 kV Statcom (100 Mvar)	Baseline Reliability	\$91
4	New Robinson 138 kV Statcom (70 Mvar)	Baseline Reliability	\$78
5	Rebuild Grand Tower-Carbondale NW 138 kV line	Other - Age & Condition	\$76
6	Rebuild Albion South-Norris City North 138 kV to Double Circuit	Other - Age & Condition	\$74
7	Upgrade Greentown 765 kV Substation	Other - Age & Condition	\$70
8	Millbend 138 kV: New Distribution Station	Other - Load Growth	\$65
9	Choudrant: New Distribution Substation	Other - Load Growth	\$56
10	New Jordan Substation - Convert West Frankfort 230 kV to 345 kV	Other - Reliability	\$56

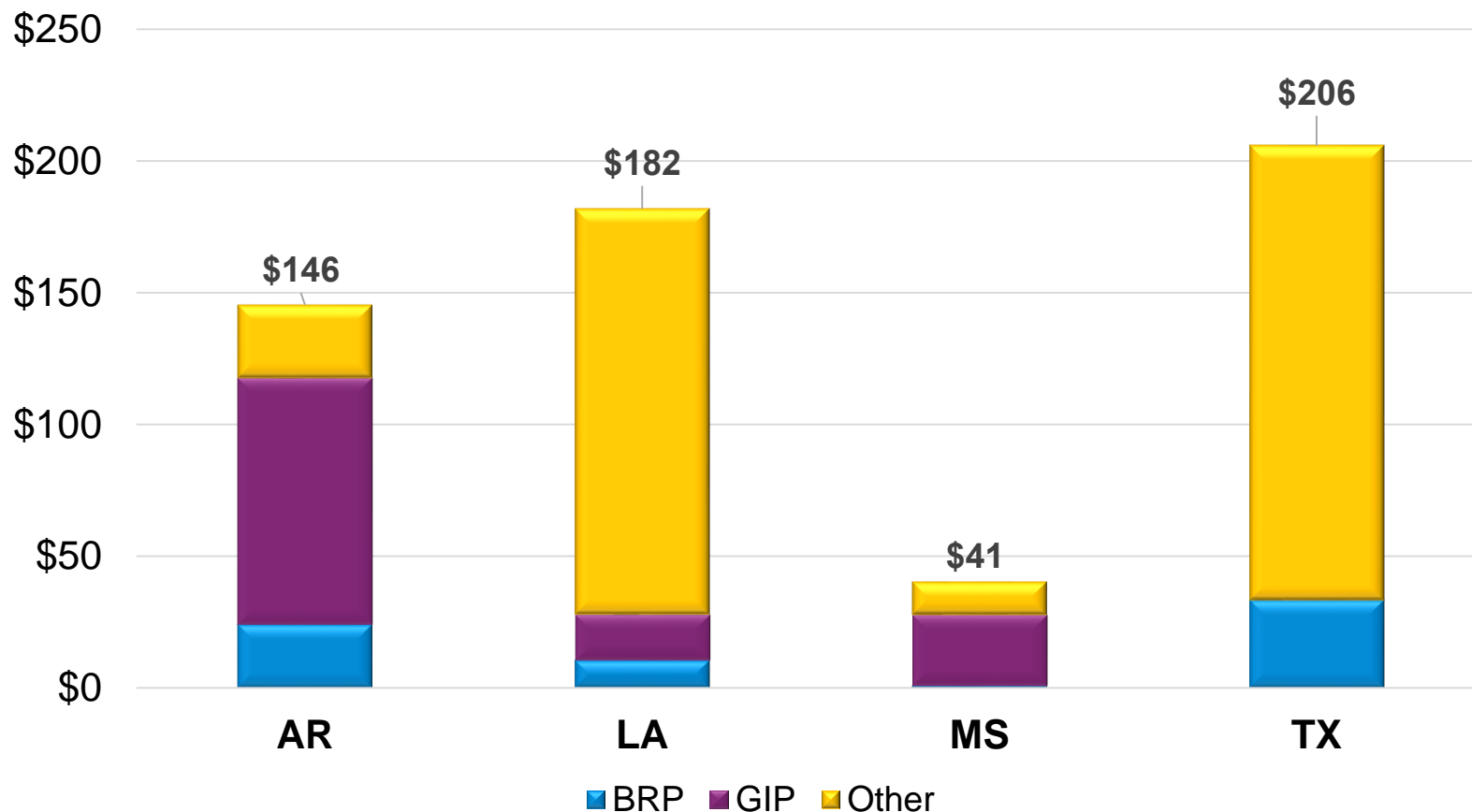


Proposed MTEP20 transmission investments span the footprint



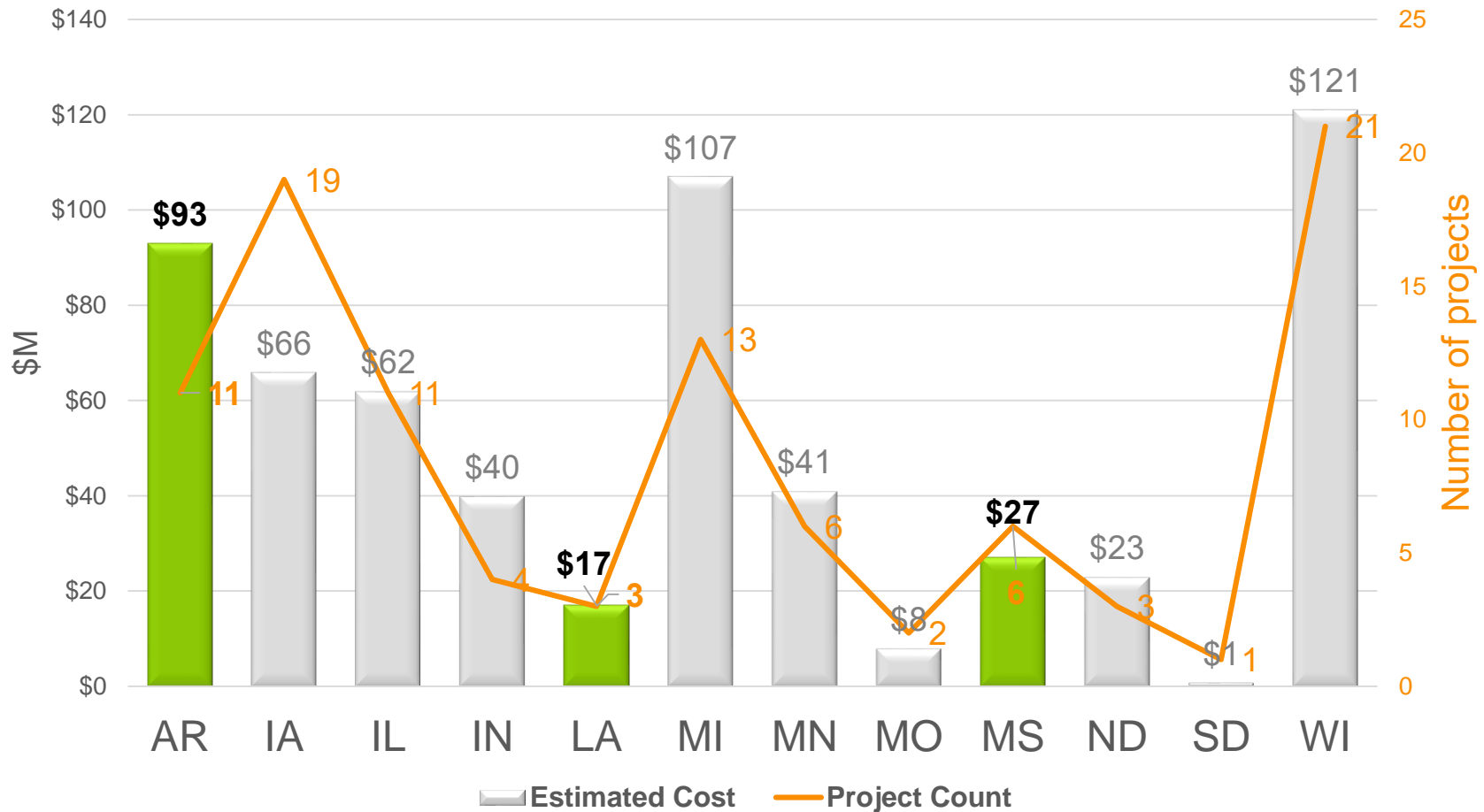
MTEP20 includes investment in South region

South Region MTEP20 Investment by State (\$M)



Generator interconnection investments continue in the South region

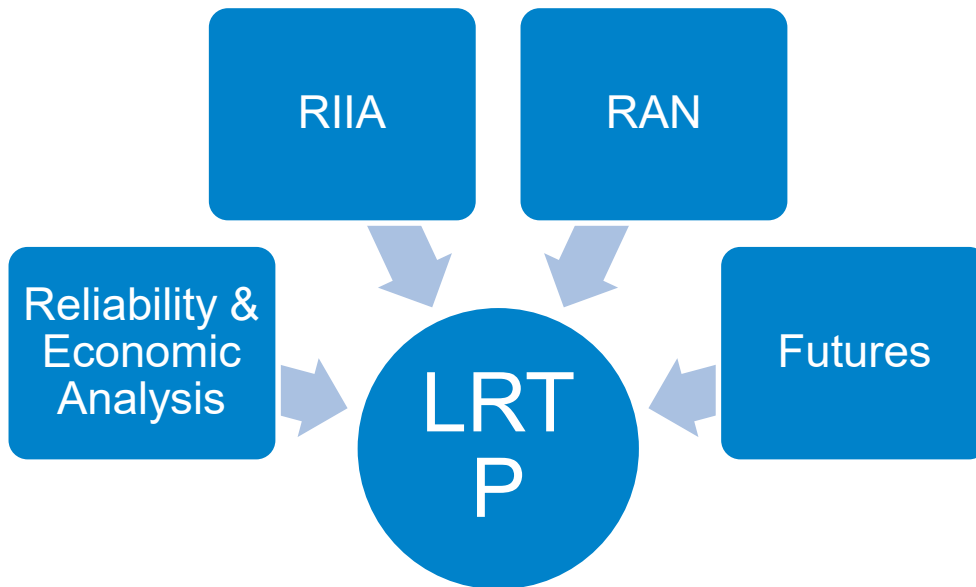
Generation Interconnection Projects by State (count, \$M)



Long Range Transmission Planning

L RTP will be a comprehensive approach under MISO's Reliability Imperative to provide a transmission road map of grid evolution that will be the foundation to drive future investment decisions

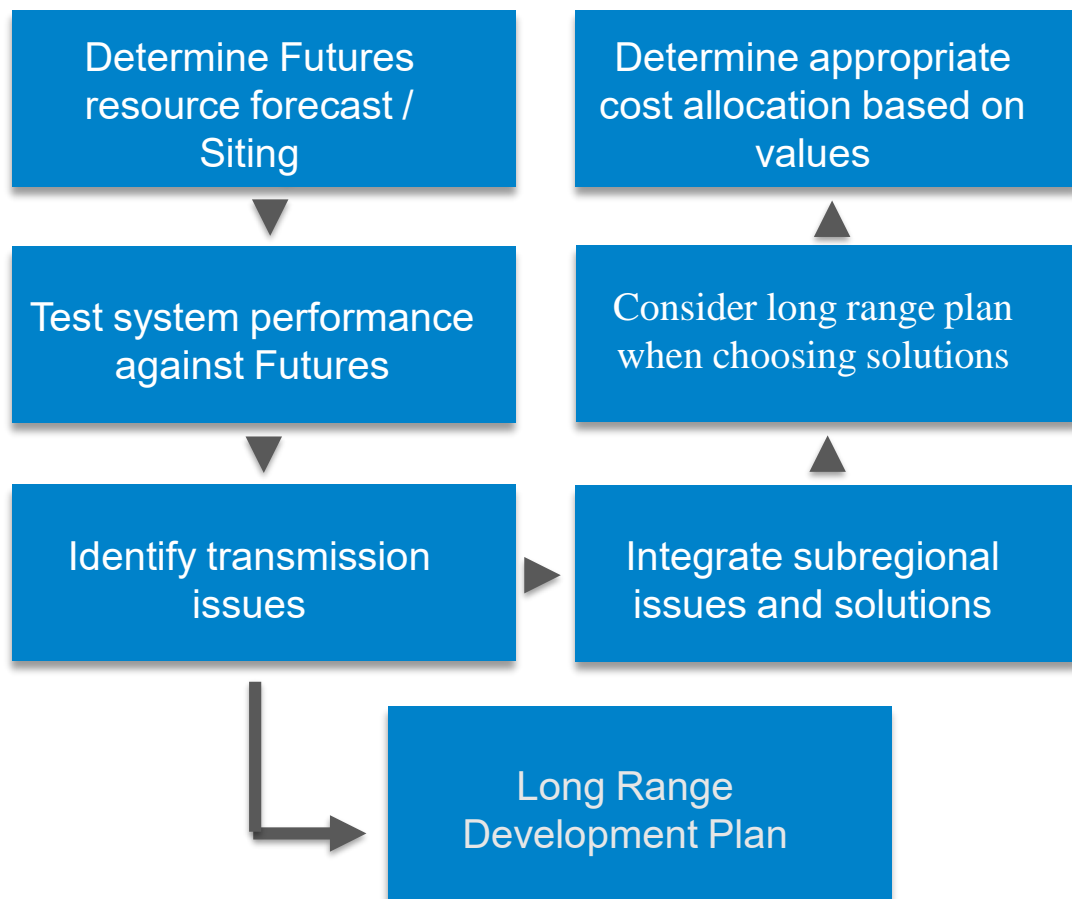
L RTP will focus on several aspects of the grid – reliability, stability, robustness, resiliency, system diversity, economics, and challenges associated with operating the system with the changing fleet (as identified in RIIA and RAN)



What is a Transmission Road Map? MISO envisions this to be a foundational set of regional, subregional and interregional transmission projects that provide insight and direction for future investment

L RTP will utilize MISO's planning process which identifies grid needs based upon Futures, is multi-step, and considers subregional needs and solutions

PROCESS



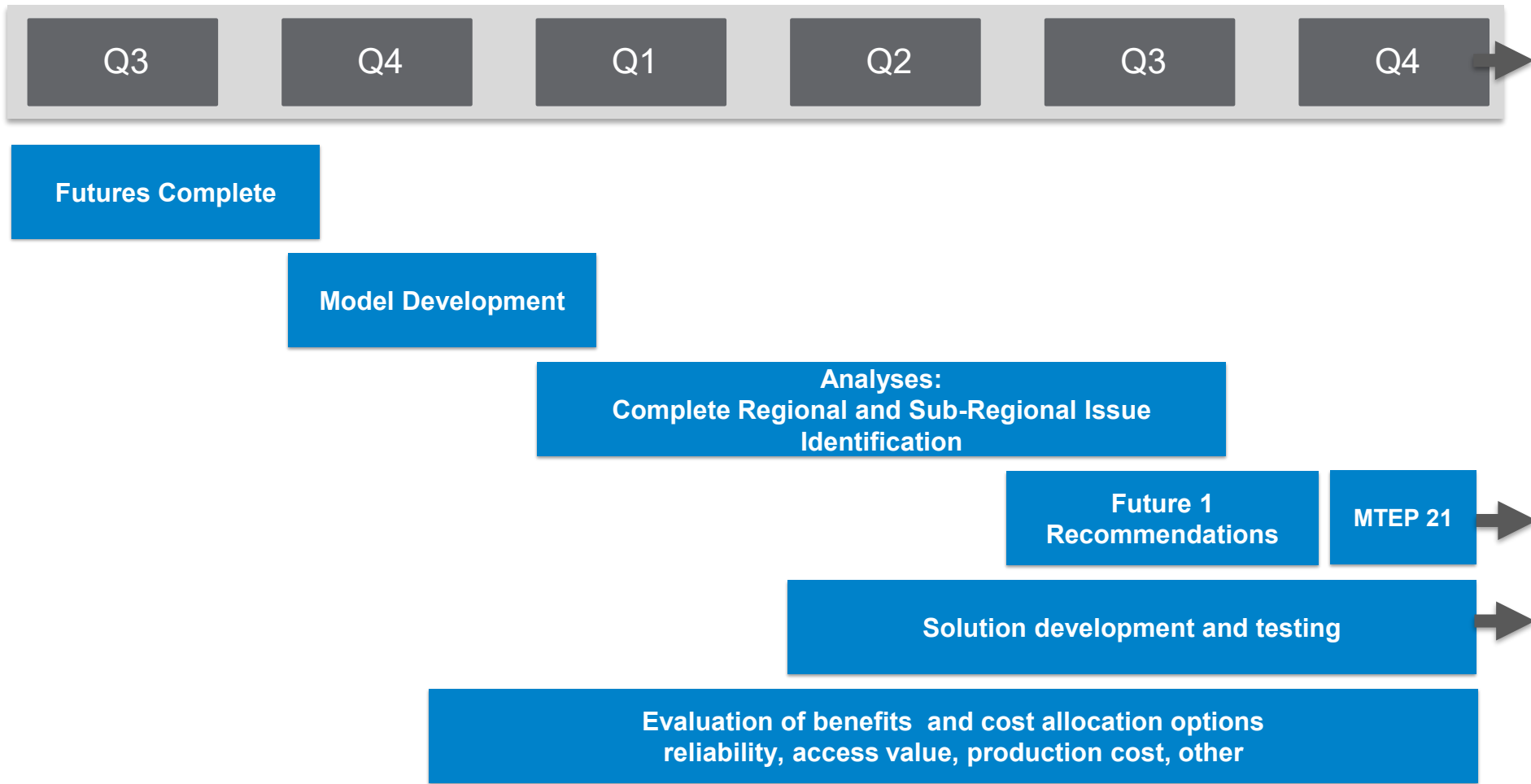
GOALS



Stakeholder Engagement

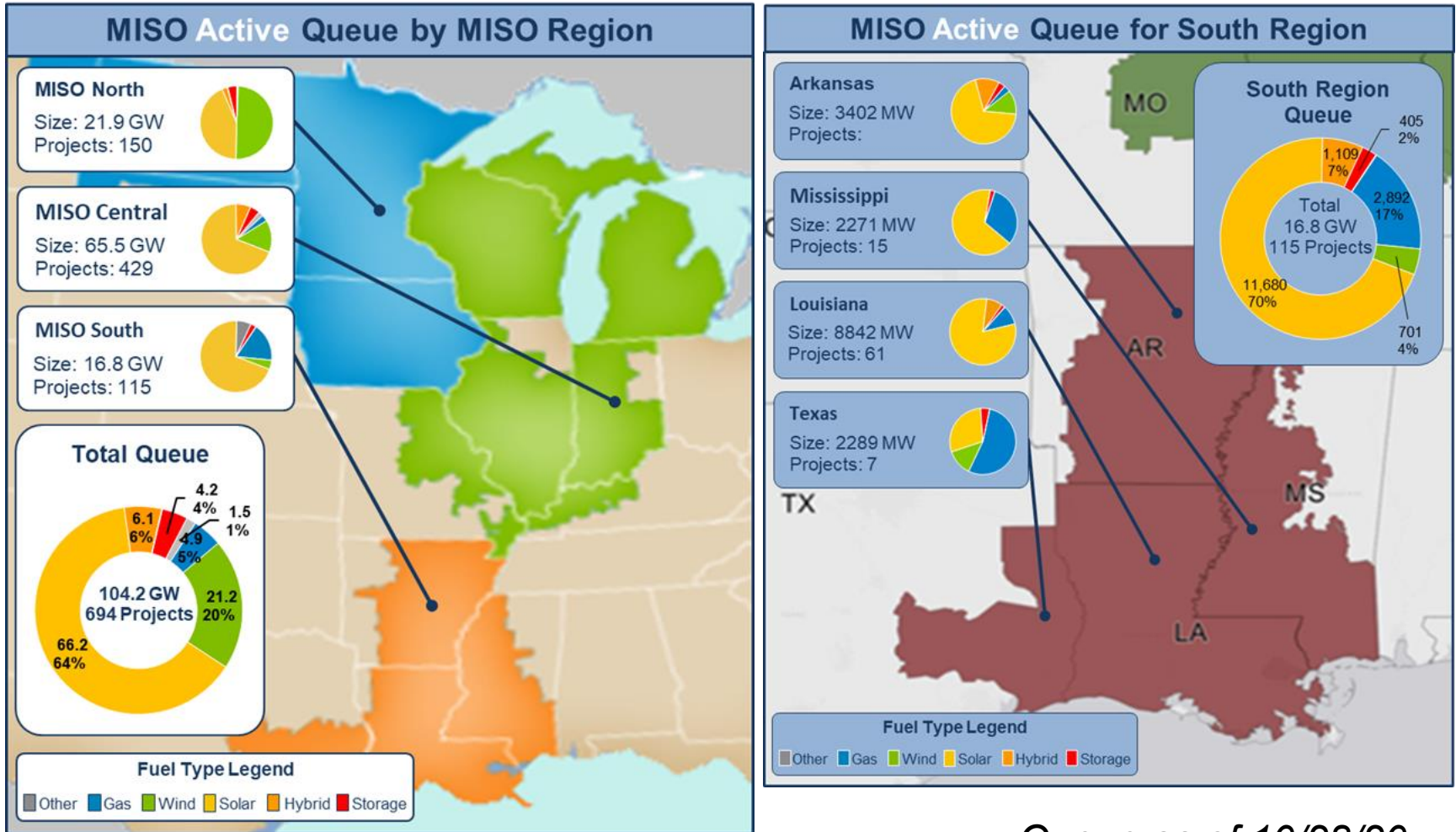
- MISO anticipates utilizing workshops and/or PAC and PSC when relevant information is ready to be shared and/or study discussions are warranted
- The RECBWG anticipates cost allocation discussions by 1Q 2021

Long Range Transmission Planning High-level 2020-2021 Timeline



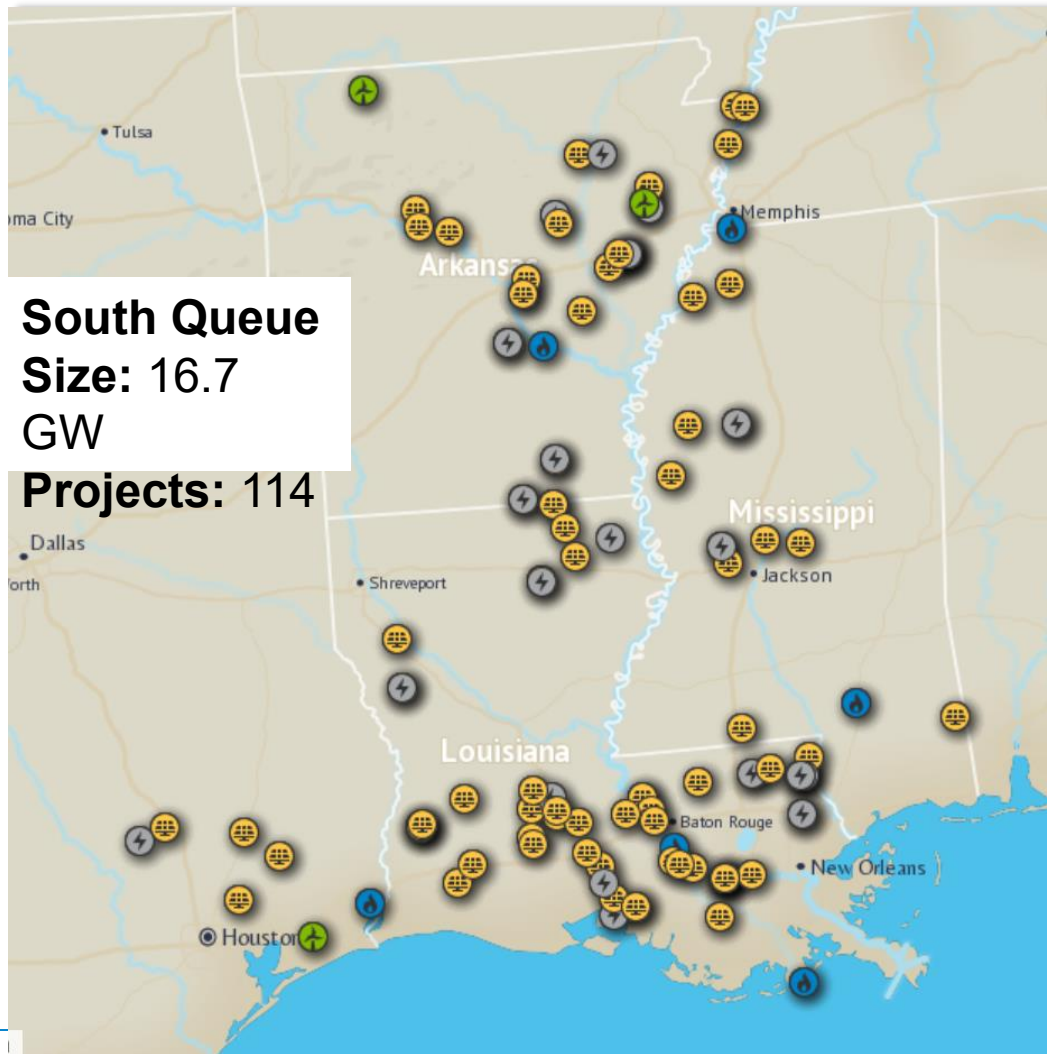
Resource Utilization

MISO's queue totals 104.2 GW, comprised of nearly 700 projects

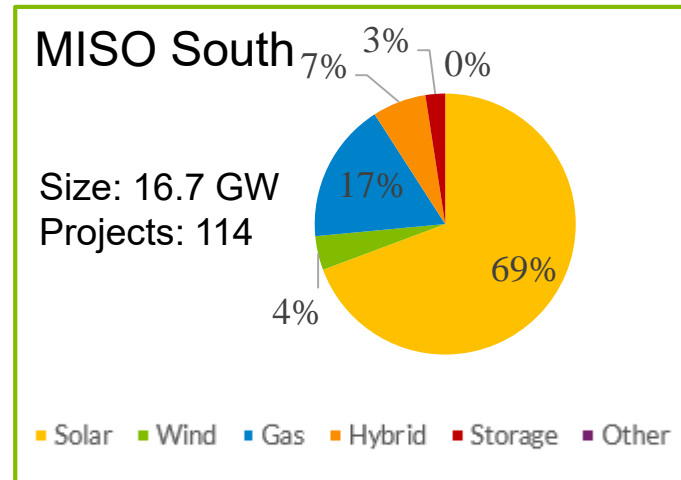


Queue as of 10/28/20

Queue requests in the South are dominated by solar

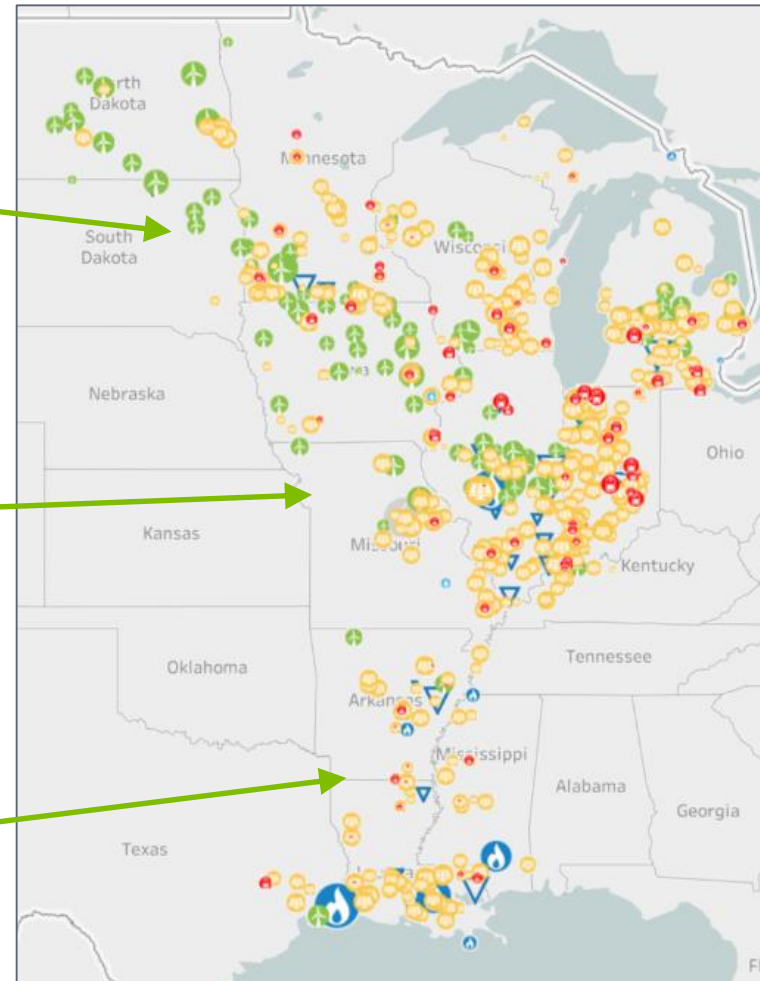
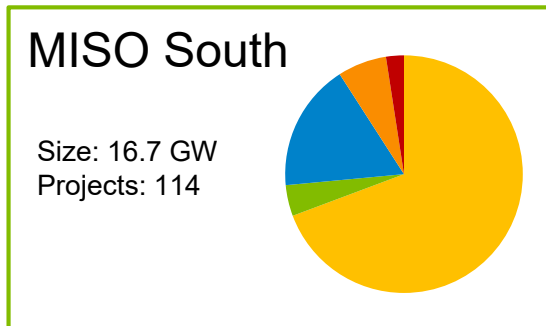
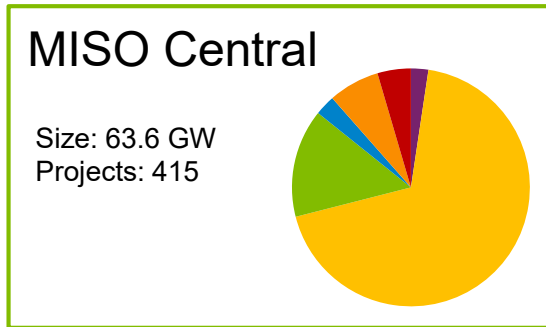
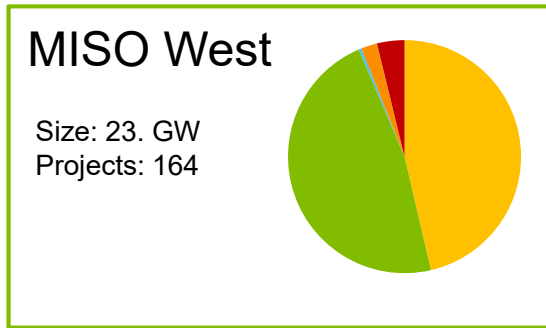


South Queue
Size: 16.7
GW
Projects: 114



As of 10/28/20

Interconnection Queue: Solar, storage and wind project locations provide geographic diversity throughout the MISO footprint



Updated 10/28/2020