

# **CONNECTING**

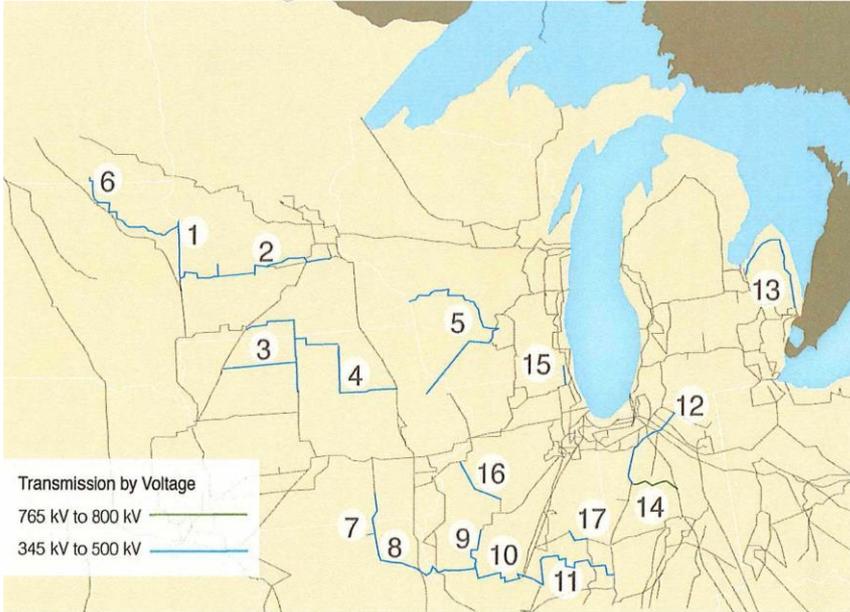
*Energy Infrastructure*

Electric Transmission Development

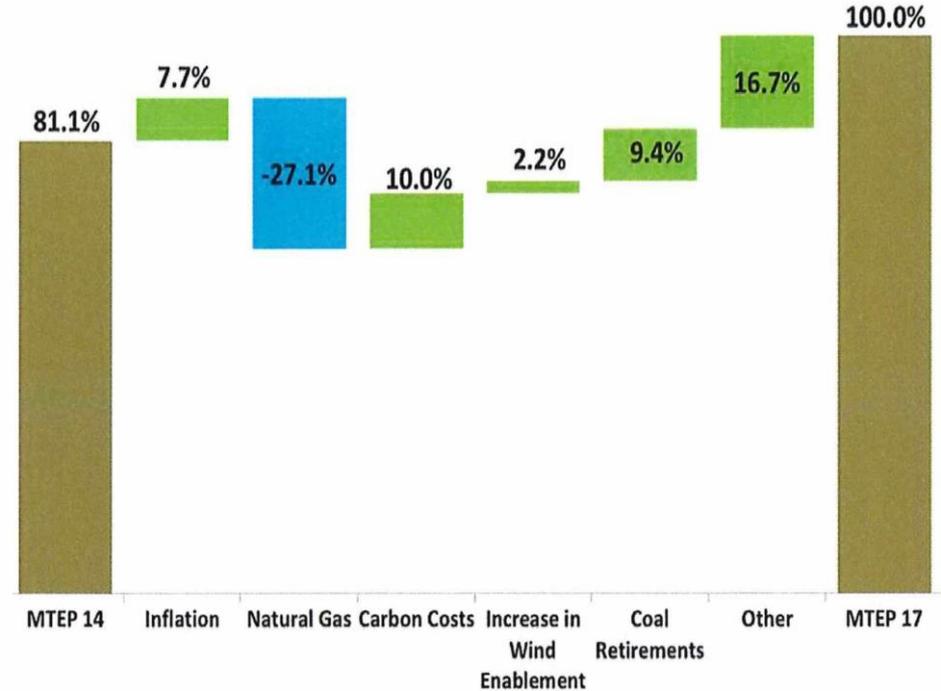
Alan Myers  
Director, Regional Planning

# Customer Benefits From Regional Transmission Investment

## MISO's Multi Value Projects (MVP)

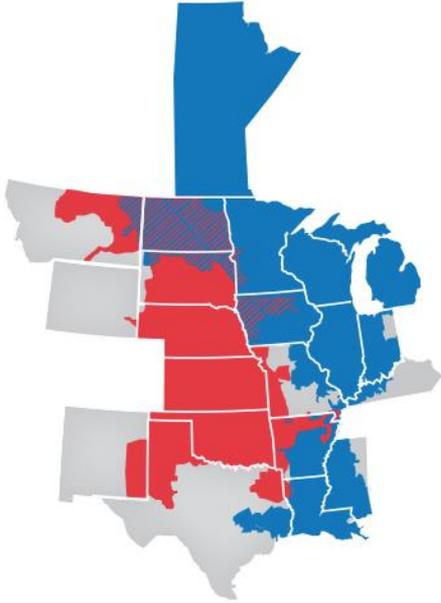


## Congestion & Fuel Savings Increase

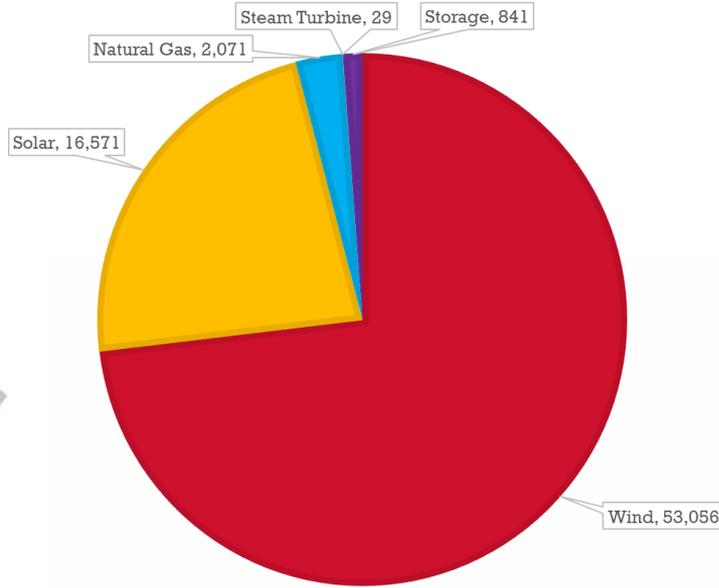


# The Need for New Investment

## SPP & MISO

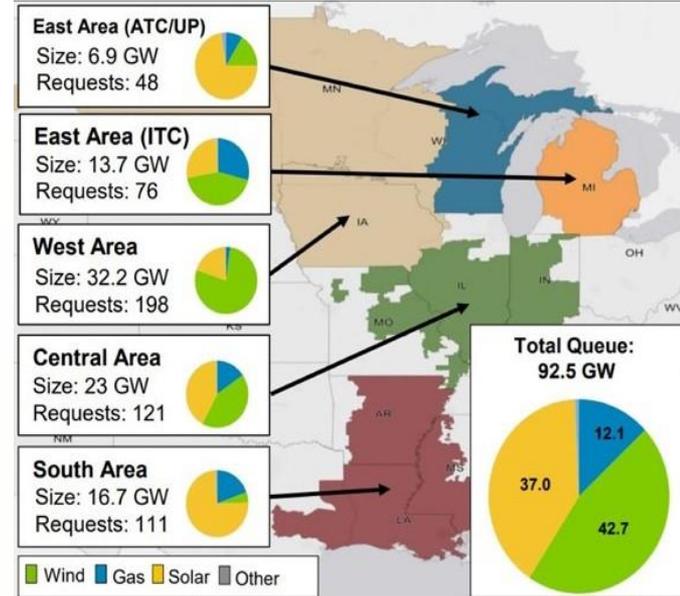


## SPP Interconnection Queue



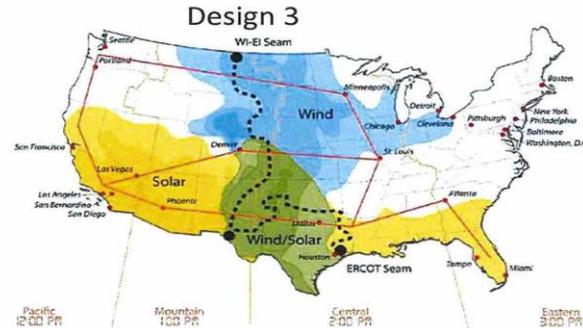
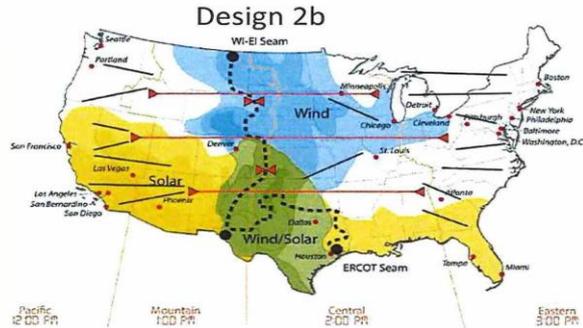
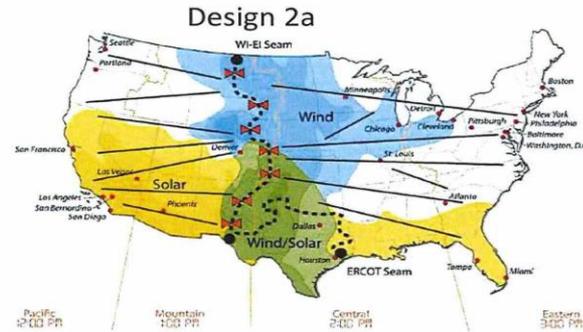
MW Requested by Generation Type

## MISO Interconnection Queue



# The Benefits of Interregional Projects

## NREL Interconnection Seam Study:



- Population Center
- Hydroelectric Power
- Fossil Resource
- Wind Resource
- Solar Resource
- Wind and Solar Resource

# The Benefits of Interregional Projects

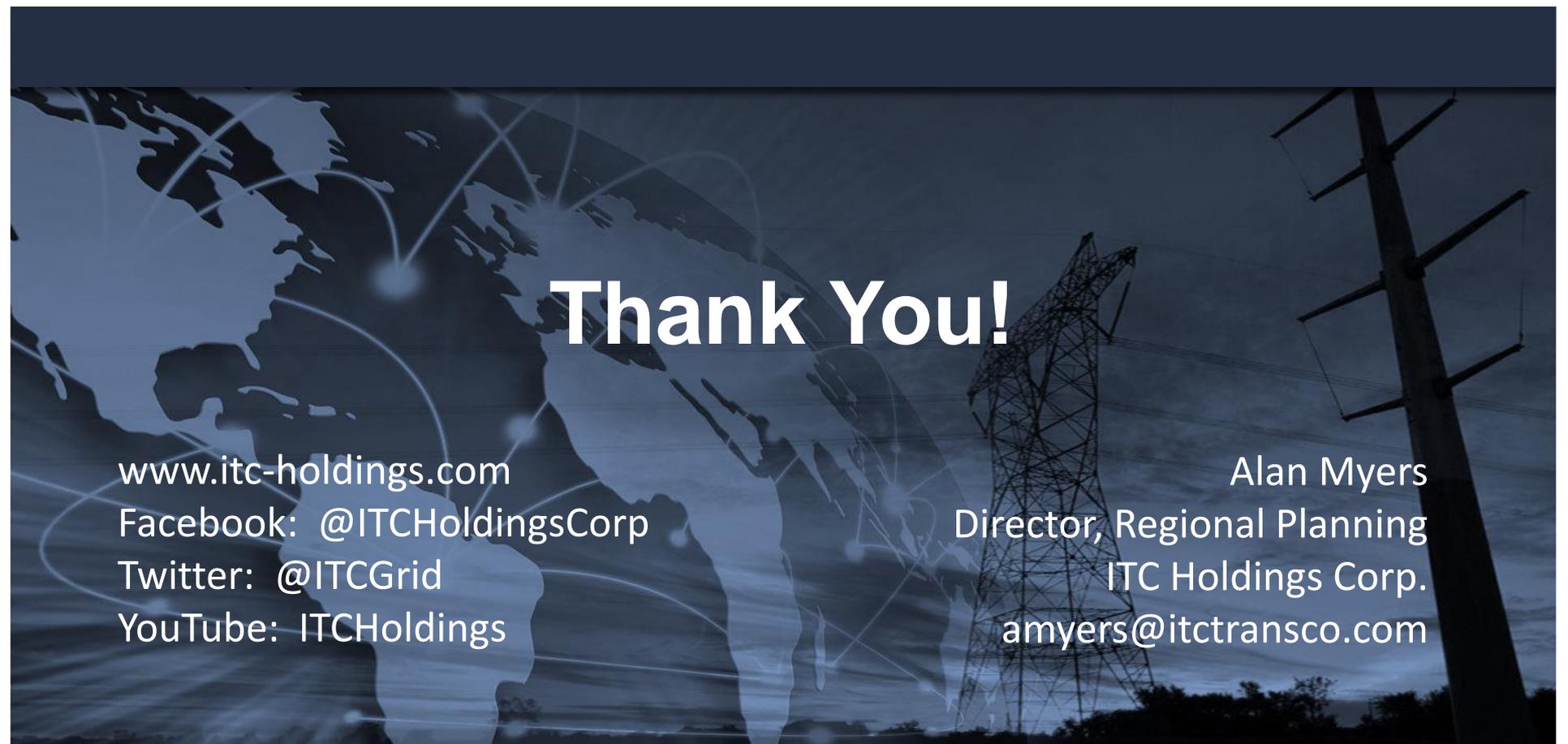
WIRES/London Economics Institute Study:

- 1.) Proposes a transmission expansion in the Eastern Interconnect between PJM & MISO
- 2.) Suggests a new transmission line extending from the Rocky Mountain area to Southern California

Benefit type	Eastern Interconnect project	Western Interconnect project
Project local spending	\$69 million	Over \$2 billion for both transmission and generation components
Electricity market cost savings	\$275 million/year	Nearly \$1,200 million/year
Increase in some generators' net revenues	About \$80 million/year in MISO (2021-2026), \$300 million/year in PJM (2027-2035)	\$960 million/year
Savings from efficient production of energy	Nearly \$30 million/year in PJM*	\$120 million/year
GDP	GDP increase by \$150 million/year in MISO (2021-2026), and by \$560 million/year in PJM (2027-2035)	GDP increase by nearly \$2 billion/year
New Jobs	1,200 new jobs/year in MISO (2021-2026), and 3,000 new jobs/year in PJM (2027-2035)	About 9,400 new jobs/year
Carbon emissions reduction	Avoid 3 million metric tons cumulatively of carbon emission for PJM and MISO	Avoid 18 million metric tons of carbon emission cumulatively for the California grid system
Emissions reduction benefits	\$4 million to \$20 million/year	\$23 million to \$112 million/year
Improved quality of life	GDP increase by \$2-\$11 million/year, and create 20-90 new jobs/year in PJM and MISO	GDP increase by \$180 - \$890 million/year, and create 1,100 to 5,700 new jobs/year in California

# Policy Change Needed to Support Future Investment

- A continued incremental approach to system planning will impose a higher long-term cost on customers.
  - Will also lead to reduced optionality to respond to changing conditions and less resilience against threats.
  - A more holistic and forward-looking approach to system planning is needed.
- New drivers for regional investments are emerging, including the need to support resilience, the need to incorporate new generation, and the need to support electrification of the economy.
- Policy-makers and industry must incorporate these drivers into the planning process, while project approval and cost allocation must be driven by a holistic review of project benefits.
- Through this workshop and the Triennial Congestion Study, the DOE can illustrate the need for regional and interregional transmission and establish a national network of transmission corridors.
- In combination, these actions create an environment that encourages changes to transmission planning processes to address unmet needs for long-distance transmission lines.



# Thank You!

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