

# Next Frontier Energy Summit

## ***Power Grab: Exploring Electricity Market Evolution and Cutting- Edge Reliability Technologies***

May 2, 2024

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UNIVERSITY  
OF WYOMING

School of  
Energy Resources

*THE WORLD NEEDS MORE COWBOYS.*

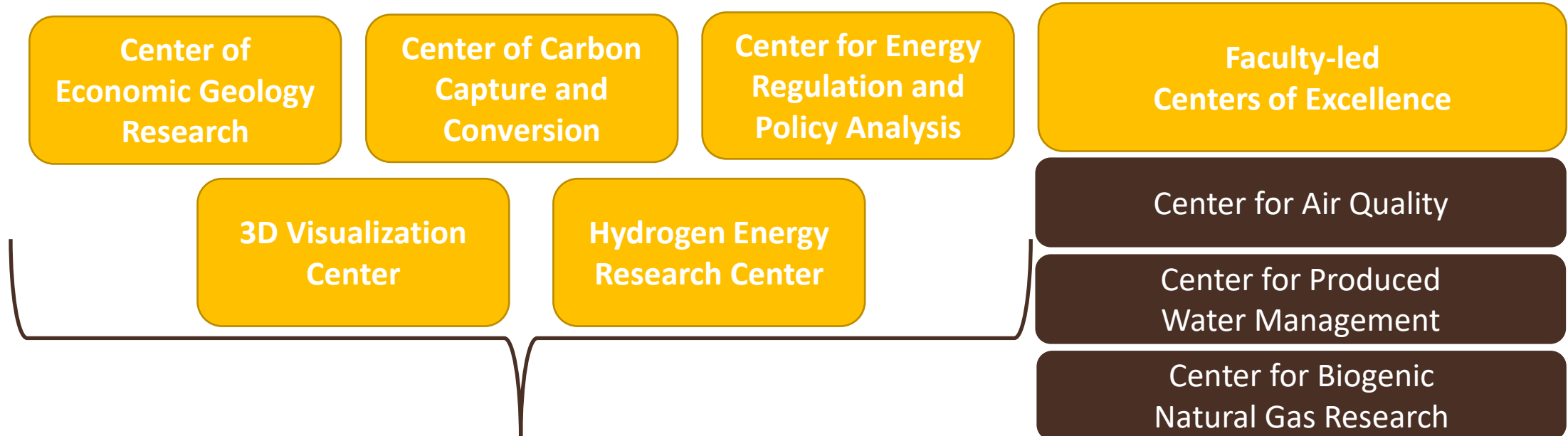
# SER's Mission:

Energy-driven  
economic  
development for  
Wyoming



*BUCKING  
THE SYSTEM  
SINCE 1886.*

# SER Research Structure



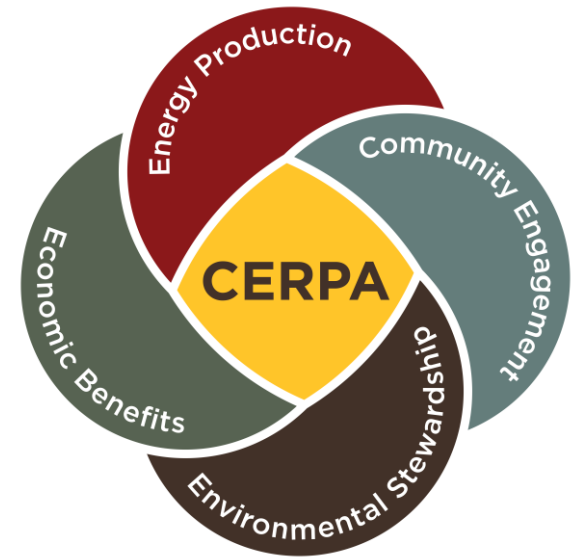
## Staff-led Centers of Excellence



RESEARCH

POLICY  
SUPPORT

STAKEHOLDER  
ENGAGEMENT



*BUCKING  
THE SYSTEM  
SINCE 1886.*

# Types of Electricity Markets



## Real-Time Market

Presents an opportunity to trade electricity real-time horizon

Pricing reflects hourly variation in electricity costs due to changes in demand



## Day-Ahead Market

Ensures both buyers and sellers can hedge against price changes and volatility of the real-time market by locking in prices before the next energy day

Financially binding schedule of commitments for sale and purchase of electricity



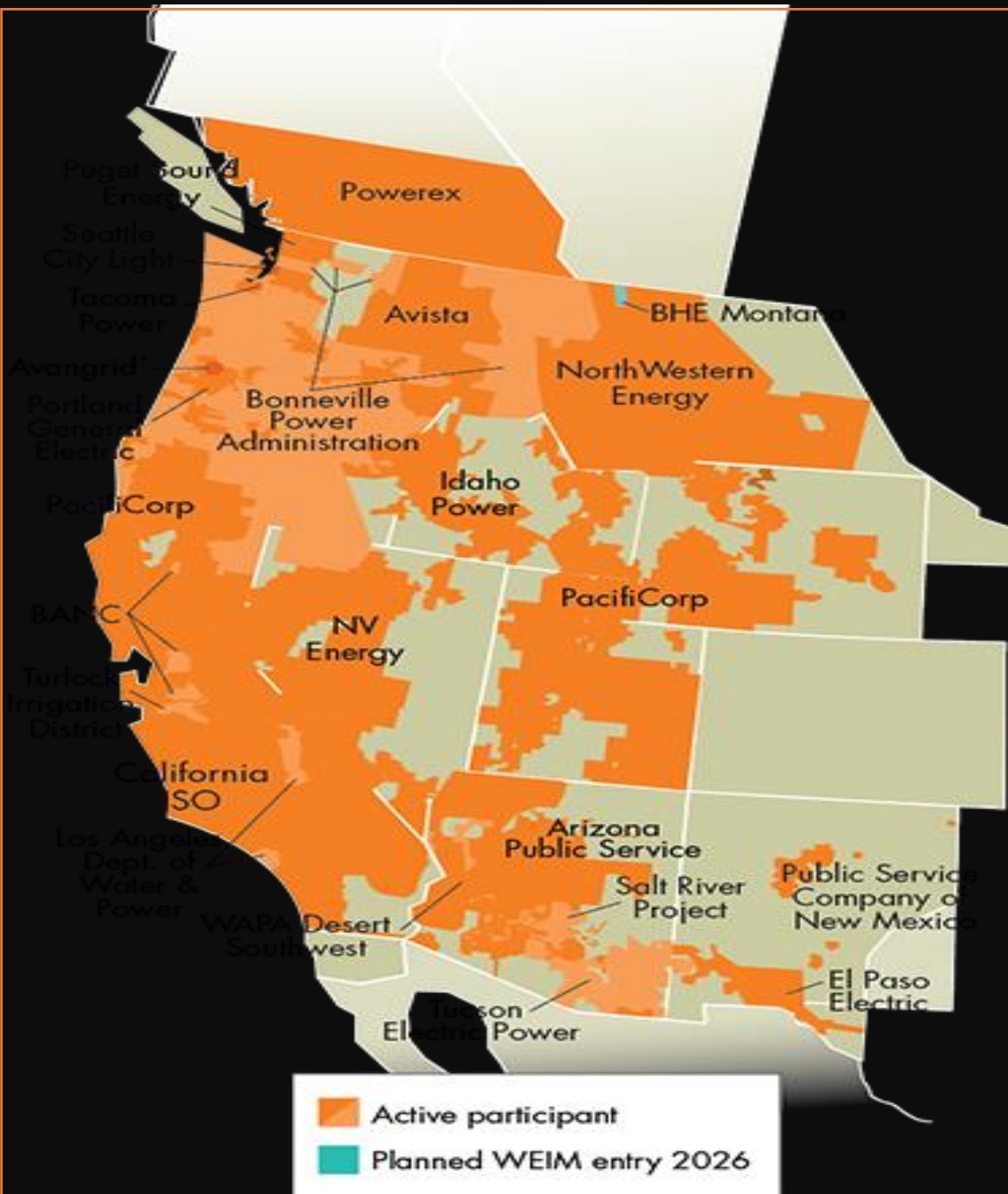
## RTO/ISO

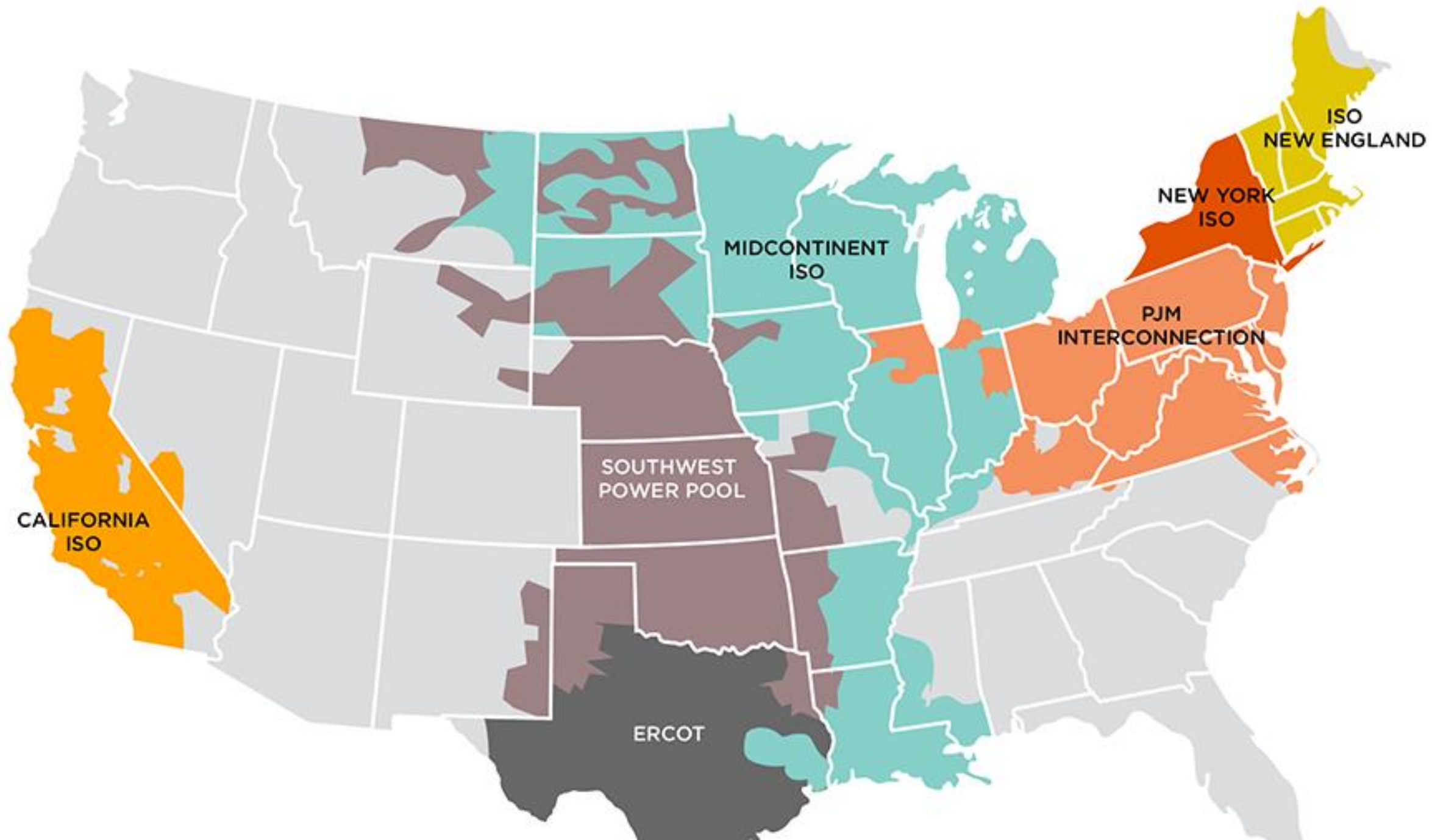
Operates the electric power grid to ensure reliability

Administers the wholesale electricity market in their region by coordinating, controlling and monitoring generation assets and transmission facilities

Purpose is to promote economic efficiency and reliability

# CAISO Energy Imbalance Market





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