

# POWER SHIFT:

Markets & Transmission Considerations for Clean Energy Integration

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## ACP is the largest and most influential association representing interests like yours.

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We represent more than 800 members from the energy storage, wind, utility-scale solar, green hydrogen and transmission sectors.

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# *WHY we need well-run markets and well-planned transmission:*

1. Extreme weather
2. Rate and volume of load increase
3. Increasing market share of clean energy
4. Aging grid infrastructure
5. Grid reliability and stability
6. Increased National Security
7. Non-market benefits of clean energy
8. Clean Energy Economy
9. Lower cost energy



## **Extreme weather is now the norm**

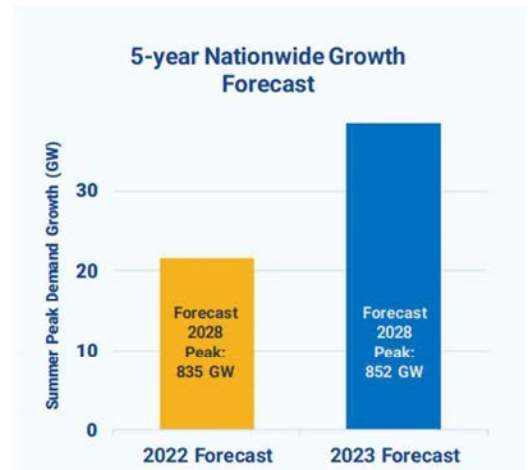
- “Record-breaking heat waves on land and in the ocean, drenching rains, severe floods, years-long droughts, extreme wildfires, and widespread flooding during hurricanes are all becoming more frequent and more intense.” — NASA website
- “Extreme weather could cripple the US electrical grid” — Energy Monitor, July 31, 2023
- “Extreme weather events are expanding — the U.S. power grid is not” Utility Dive Article, Barbara Tyran, March 16, 2023



# Load is increasing at astronomical rates

“The Era of Flat Power Demand is Over” Clean Grid Initiative Study, December 2023. According to the study:

- The U.S. forecast of electricity demand shot up from **2.6% to 4.7%**.
- Experts agree that this is a massive underestimate



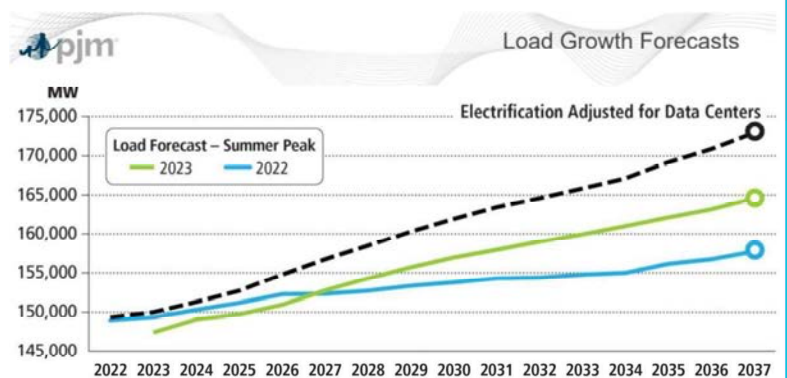
Source: National-Load-Growth-Report-2023.pdf (gridstrategiesllc.com)



# Load is increasing at astronomical rates

“The Era of Flat Power Demand is Over” Clean Grid Initiative Study, December 2023. According to the study:

- Biggest drivers = **Data Centers!!** + manufacturing facilities (but also electrification + hydrogen fuel plants + extreme weather)
- Data Center = small 1-5 MW, large = 20-100+ MW, hyperscale = 100-300 MW



Source: National-Load-Growth-Report-2023.pdf (gridstrategiesllc.com)



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## Title search: Market Reform and Redesign to Remove Barriers of Entry for Clean Energy and the Build Out a Robust Transmission Grid

First appeared as part of the conference materials for the  
19<sup>th</sup> Annual Renewable Energy Law Institute session

"Market Reform and Redesign to Remove Barriers of Entry for Clean Energy and the Build Out a Robust Transmission Grid"