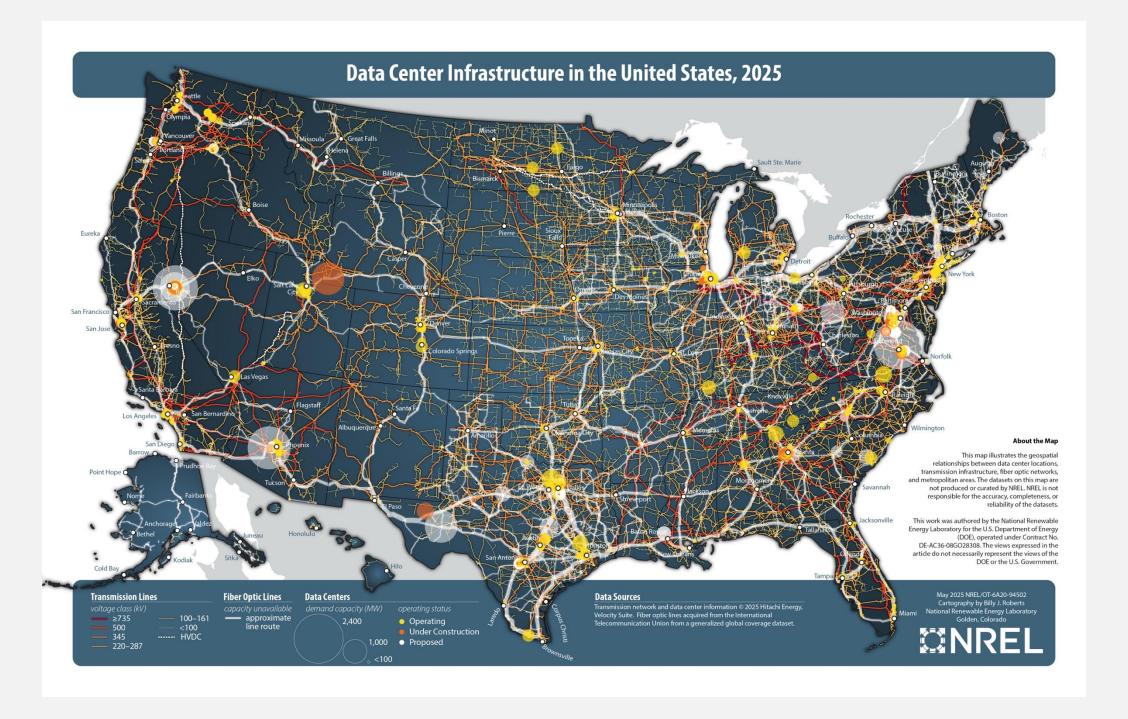


ARTIFICIAL INTELLIGENCE: IMPLICATIONS FOR ENERGY AND THE ENVIRONMENT

Fatima Ahmad, Founder & CEO, Al For Energy LLC Environmental and Energy Study Institute Briefing (Sep. 25, 2025)

[T]here is no Al without energy. At the same time, Al has the potential to transform the energy sector."

-International Energy Agency, Energy and AI (April 2025)





Energy Analysis & Environmental Impacts Division

2024 United States Data Center Energy Usage Report

Arman Shehabi, Sarah J. Smith, Alex Hubbard, Alex Newkirk, Nuoa Lei, Md Abu Bakar Siddik, Billie Holecek, Jonathan Koomey, Eric Masanet, and Dale Sartor Energy Analysis and Environmental Impacts Division, Lawrence Berkeley National Laboratory

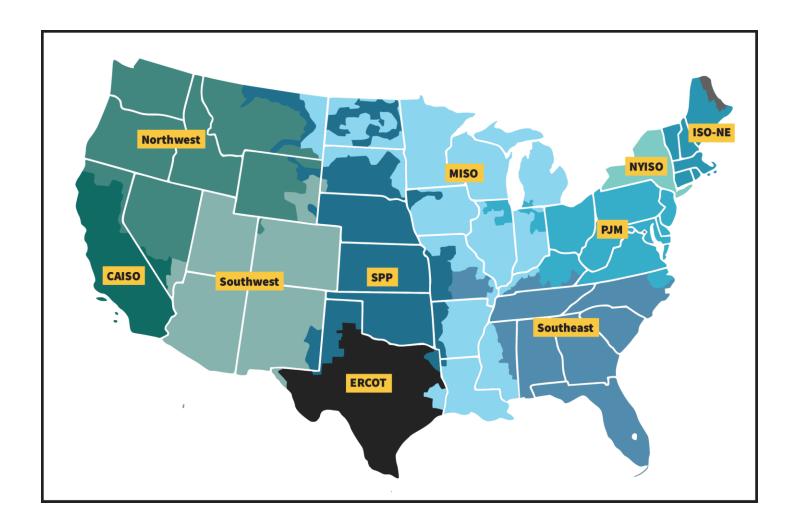
December 2021

DATA CENTER ENERGY USE IS RISING



This work was supported by the DOE Office of Energy Efficiency and Renewable Energy (EERE), Office of Industrial Efficiency and Decarbonization Office (IEDO) under Lawrence Berkeley National Leberatory Contract No. DE-ACG2-05CH11231.

"Data center load growth has tripled over the past decade and is projected to double or triple by 2028."



Source: U.S. Federal Energy Regulatory Commission

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NEW ENERGY POLICY RECOMMENDATIONS

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April 2024

U.S. DEPARTMENT OF ENERGY

• The Pacific Northwest National Laboratory is "clearing the path for critical infrastructure"





Al for Nuclear Energy Al for Fusion Al for Geothermal Energy Al for Critical Minerals Al for the Electric Grid Al for Energy Efficiency Al for Water

QUESTIONS?

Contact:
Fatima Ahmad
Al For Energy LLC
www.aiforenergy.tech
Fatima@aiforenergy.tech