

U.S. ELECTRICITY DEMAND BY THE NUMBERS

U.S. electricity demand is growing with: onshoring of manufacturing, electrification of vehicles, and data center expansion with cloud and AI; all signs of a healthy economy.

We've successfully met the demand spikes in the past, and the U.S. has more tools at the DOE and across government to meet them today. ([Read more](#))

2023

4%

Data center share of
total U.S. electricity
demand

2030

9%

Projected data center
share of total U.S.
electricity demand

Next Decade

15-20%

Projected growth in
U.S. electricity
demand

LOAD GROWTH: DOE'S RECENT WORK

- **Spring:** Started engaging data center developers, utilities, state/local officials, community orgs, other stakeholders
- **Summer:** Published existing DOE resources at energy.gov/electricitydemand
- **Fall:** Held convenings with the industry
 - White House convening on [convening on critical AI infrastructure](#)
 - Load flexibility workshop at Lawrence Berkeley National Lab
 - Nuclear tour and workshop at Idaho National Lab
 - Capacity building for energy assets with DOE's FECM
 - Participated in convenings hosted by industry
- **Winter / Coming Soon:** LBNL report on data center load growth and research on tariff/rate design

DOE'S APPROACH TO LOAD GROWTH

- **DOE is focusing on four solution areas:**
 - Revitalizing existing infrastructure
 - Behind the meter flexibility
 - Innovative rate and regulatory designs
 - Commitments for longer-term technologies
- **Select resources at energy.gov/electricitydemand**
 - [Coal Site Redevelopment](#)
 - [Financial and technical assistance resources](#)
 - [Expanding Clean Energy Generation on DOE Lands](#)
 - [Pathways to Commercial Liftoff](#) (recent: nuclear, load growth)
- **Data Center Engagement Team** with support from every DOE office
 - Contact us at: businesshub@hq.doe.gov