

Prioritizing High-Impact End-Use Energy Optimization

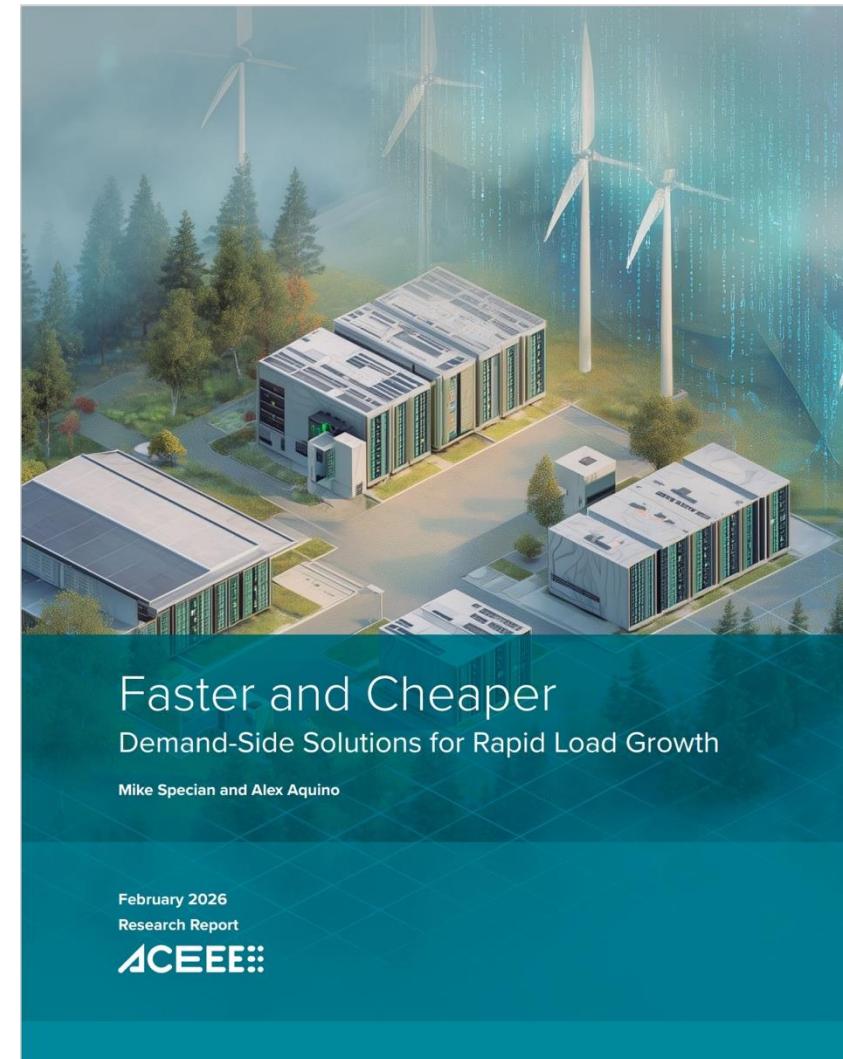
NASEO Energy Policy Conference 2026

Jennifer Layke
Executive Director



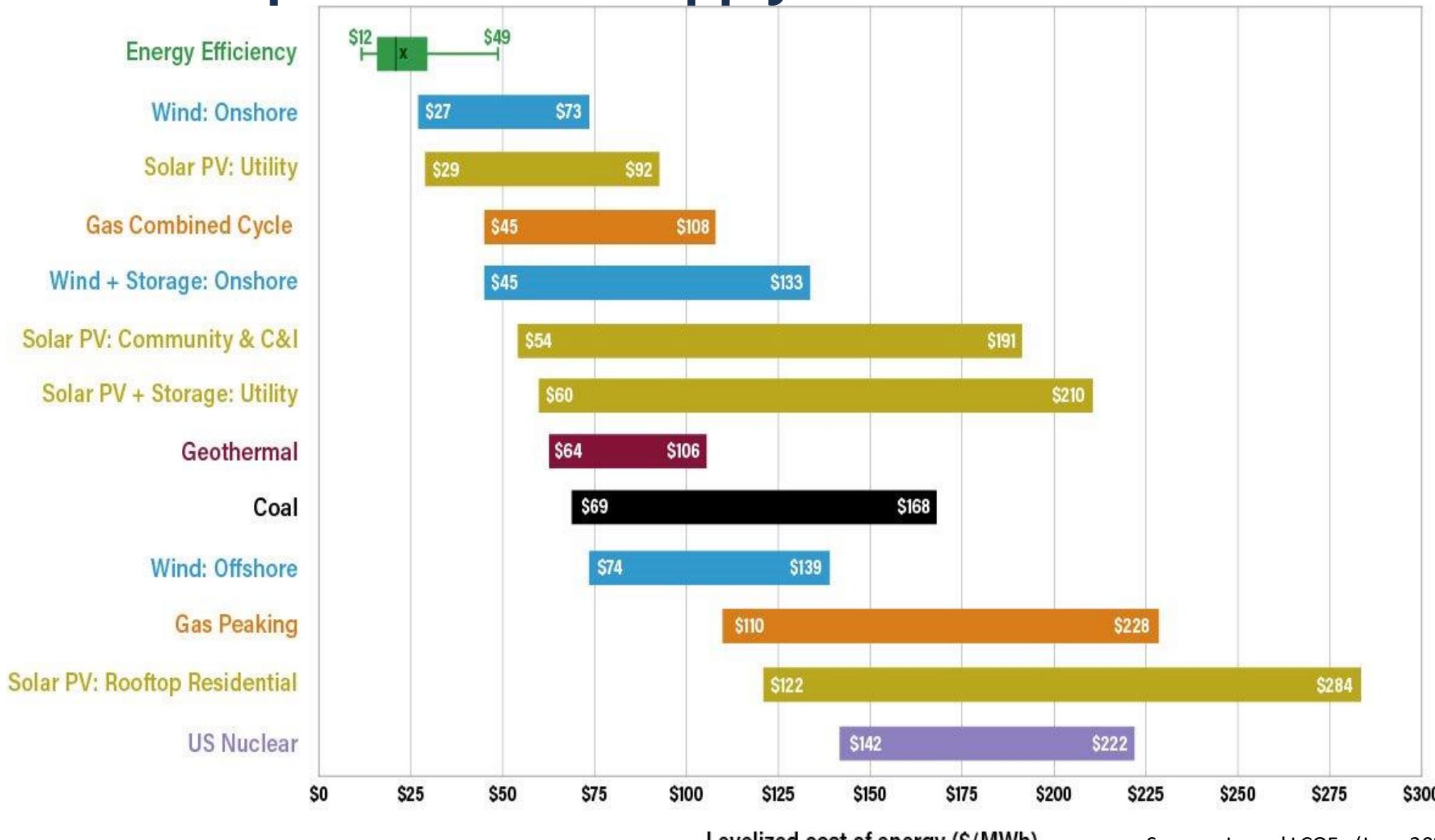
Tapping the potential of energy efficiency and load flexibility

- By 2040 **energy efficiency** has the aggregate realistic potential to **reduce annual electricity consumption in the U.S. by 8%** (at the national level)
- Utility EE programs have realistic potential to **reduce 70 GW of peak demand** (technical potential around 150 GW)
- **60–200 GW of load flexibility potential** available in the U.S. within the next decade
- In combination, **demand-side measures can realistically reduce peak demand by 130–270 GW** within the next 15 years.

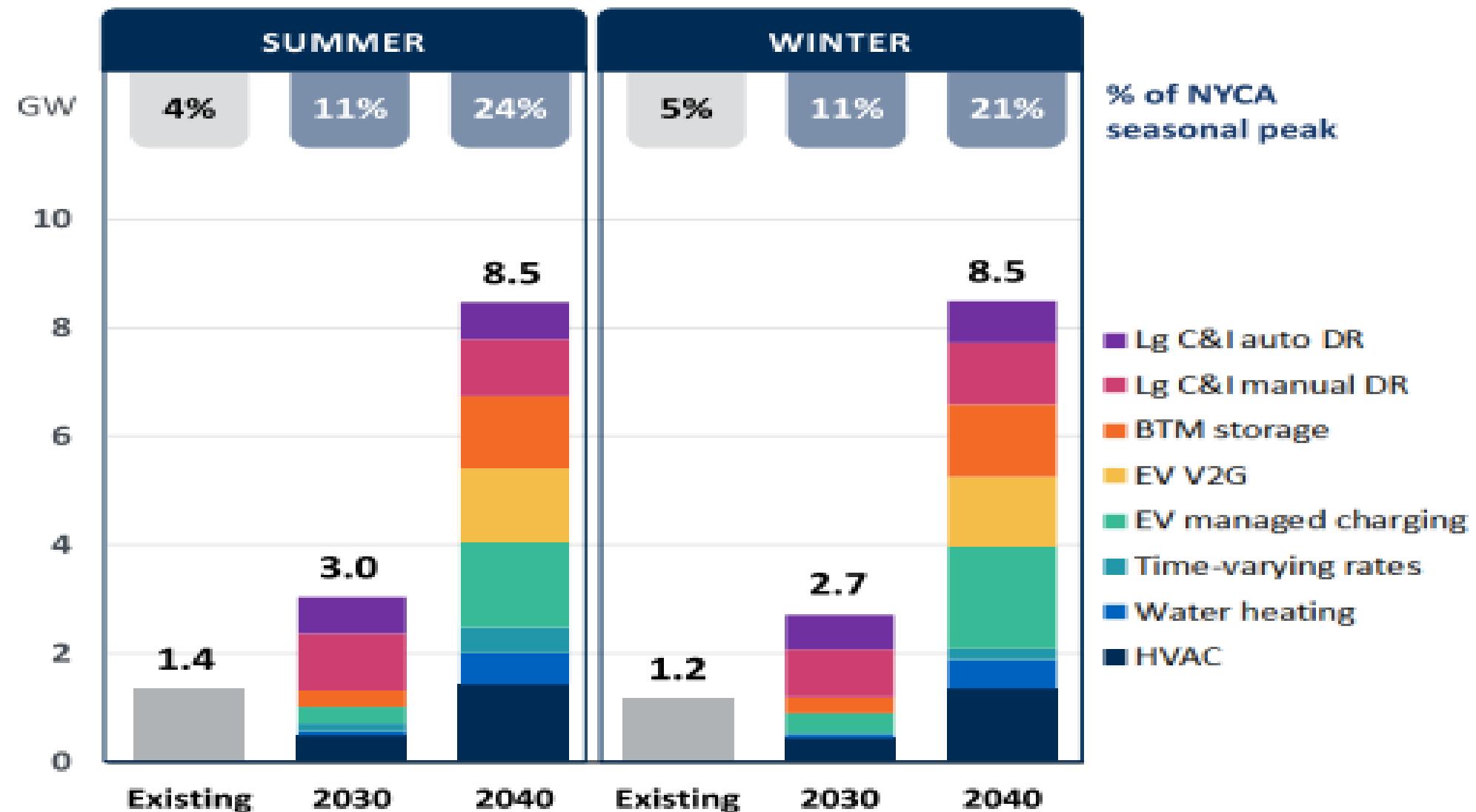


Source: Specian, M., and A. Aquino. 2026. Faster and Cheaper: Demand-Side Solutions for Rapid Load Growth. Washington, DC: ACEEE. aceee.org/research-report/u2601

Demand-side measures are faster to deploy and less expensive than supply-side alternatives



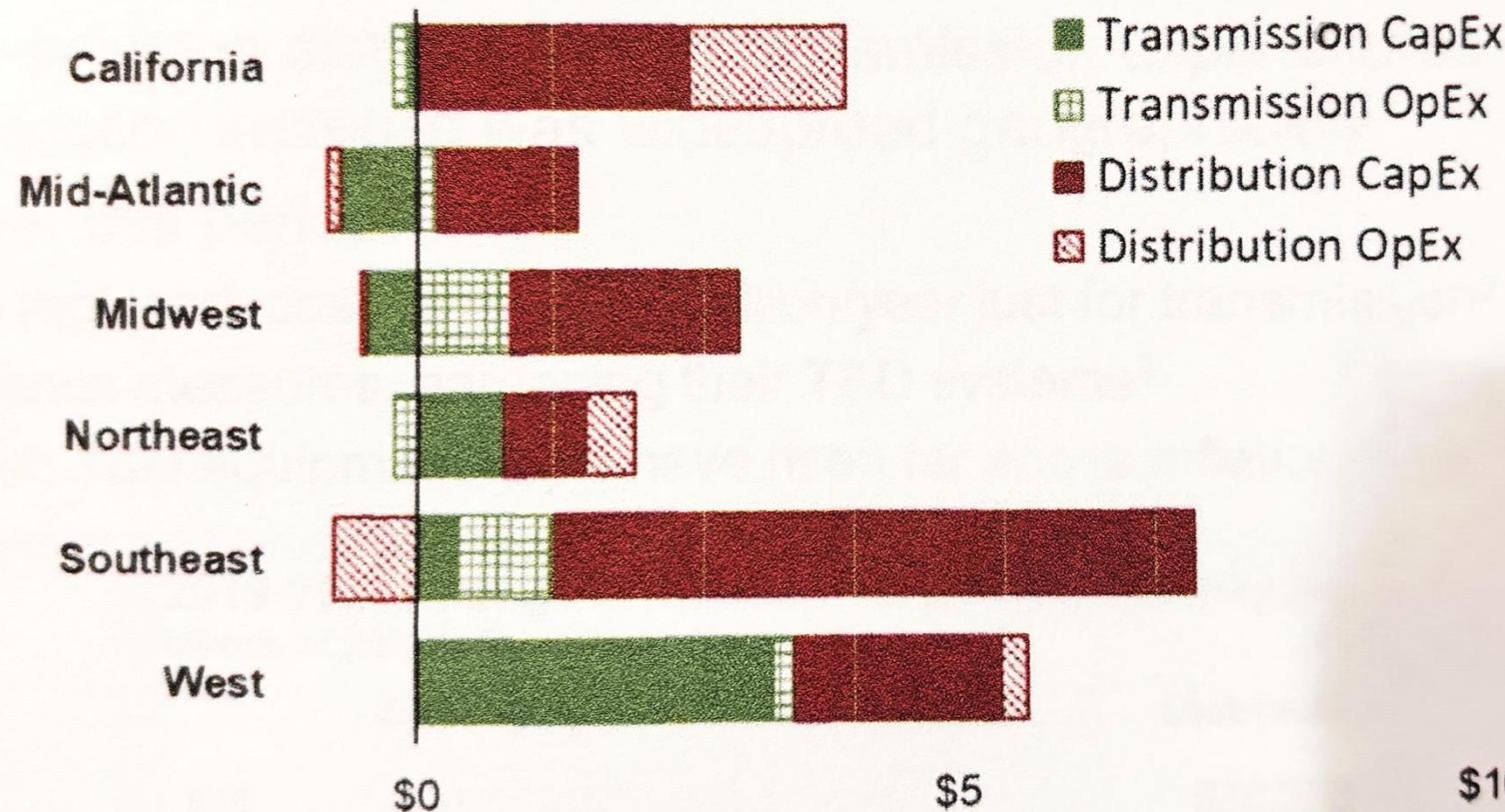
Cost-effective Grid Flexibility Potential in New York



LBNL analysis: distribution investment as a driver of retail price increases

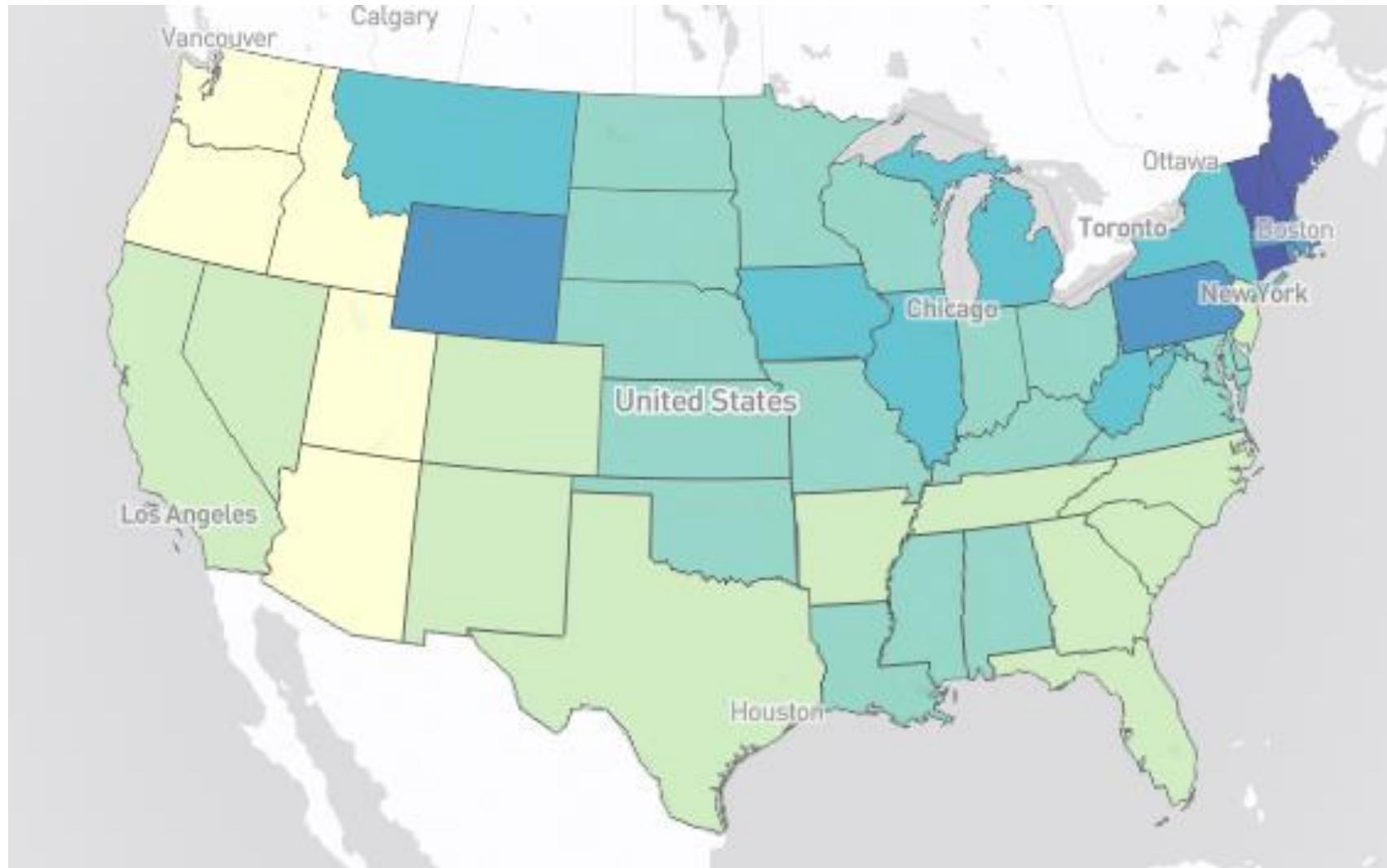
2019-2024 change in annual U.S. electric IOU expenditures

billions of 2024 U.S. dollars

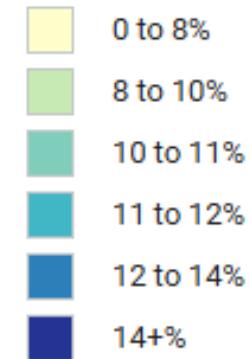


https://eta-publications.lbl.gov/sites/default/files/2025-10/full_summary_retail_price_trends_drivers.pdf

Demand Flexibility & Efficiency Improve the Economy for Everyone – and for those who need it most



Average Energy Burden
(% income)



200% FPL = a family of four with an annual income of \$64,300

Average energy burden of households below 200% of federal poverty level.

Data source: [LEAD tool](#), 2022 American Community Survey Census Bureau data