

H.727 – Data Centers

**Testimony to the Senate Committee on
Natural Resources & Energy**

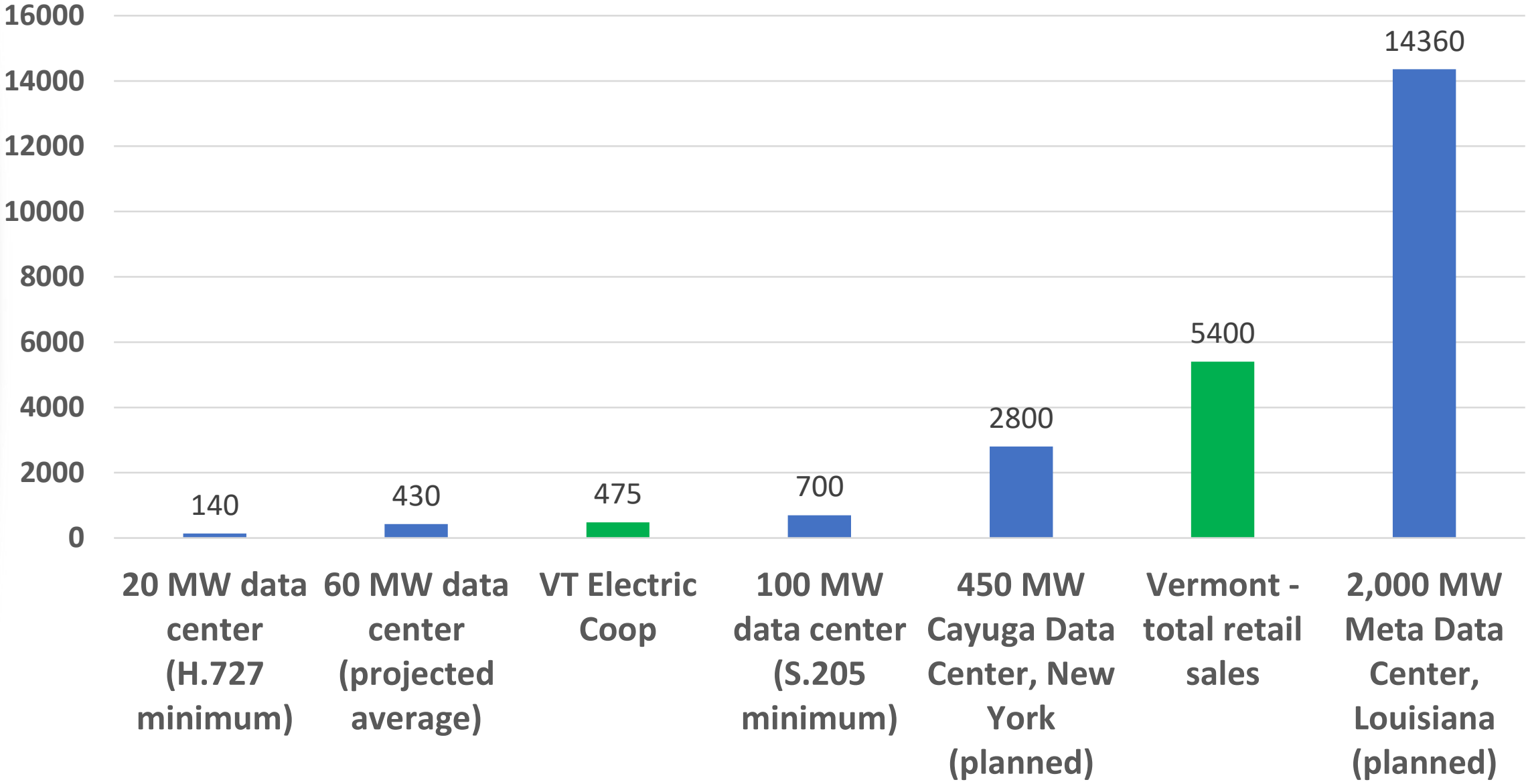
Ben Edgerly Walsh, VPIRG

April 23, 2026



How big are we talking here?

Annual electricity usage in GWh



Sources: Average size, 2028 – Boston Consulting Group
 Load factor – Grid Strategies citing Dominion Virginia and Duke Energy



A Rapidly Evolving Situation

“Ten years ago, a 30-megawatt (MW) center was considered large.” – McKinsey

“The average size of a US data center will increase from 40 MW today to 60 MW by 2028, with about a third of campuses above 200 MW.” – Boston Consulting Group

Sources: McKinsey, Oct 2024 - <https://www.mckinsey.com/industries/technology-media-and-telecommunications/our-insights/ai-power-expanding-data-center-capacity-to-meet-growing-demand>
Boston Consulting Group, Jan 2025 - <https://www.bcg.com/publications/2025/breaking-barriers-data-center-growth>

A *Rapidly* Evolving Situation

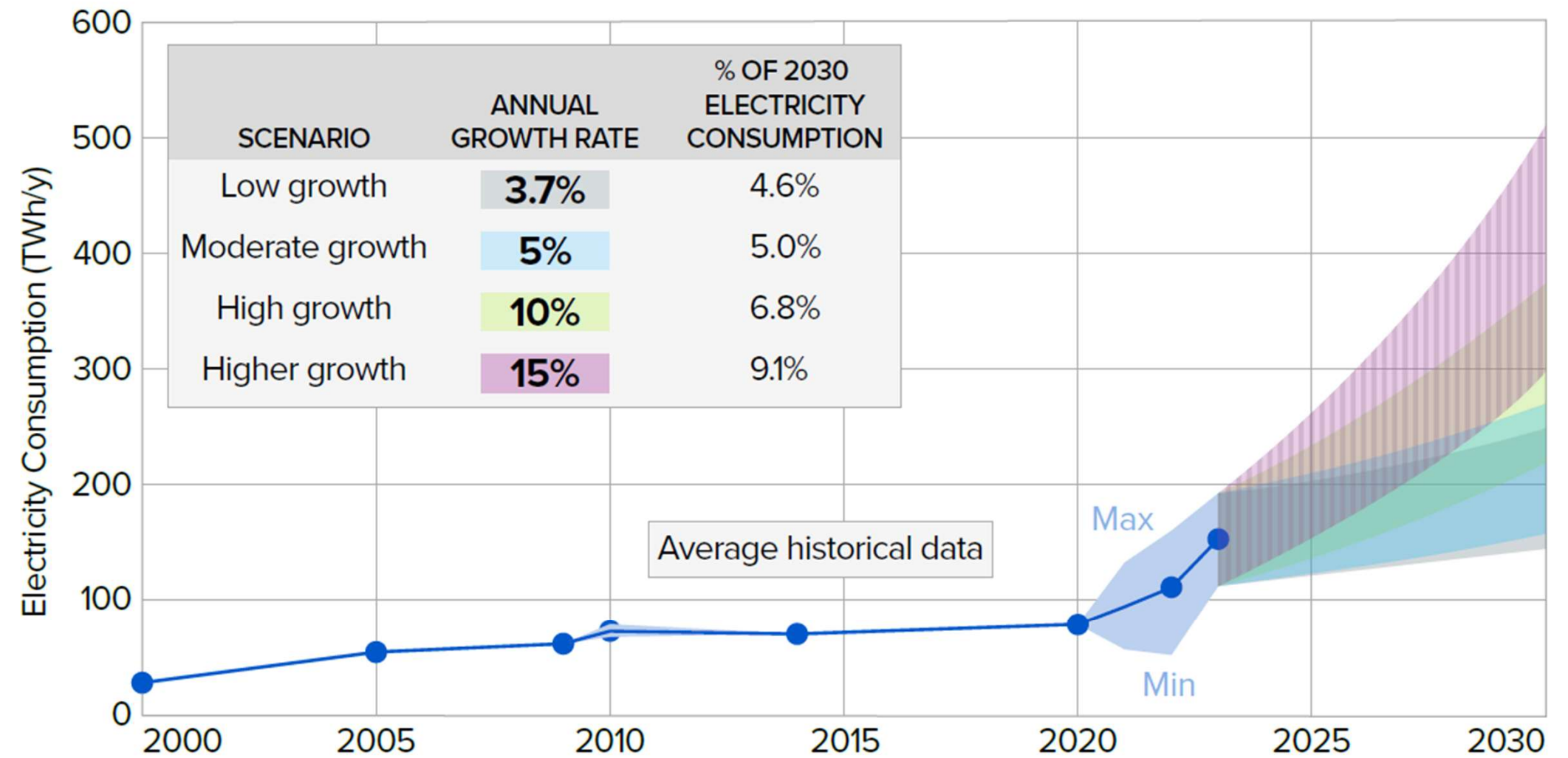


Figure 11. Projections of potential power consumption in U.S. data centers scenarios, 2023–2030 [1, 2, 4, 8, 14]

Source: “Powering Intelligence” report, Electric Power Research Institute (EPRI), 2024

Our Overall Approach

Precautionary principle – better safe than sorry.

Redundant safeguards are appropriate when we're potentially dealing with companies with valuations starting with a "T".

Three Principles

- **Protect Vermont's ratepayers and grid**
- **Keep new climate pollution as close to zero as possible**
- **Ensure strong oversight and transparency**

Issues - What are we solving for?

The incredible disappearing load – now you see it, now it's gone!

Sudden data center load losses prompt NERC alert, recommendations



The reliability watchdog is concerned about a series of “widespread and unexpected” customer-initiated load reductions in 2024 and 2025 during which 1,000 MW or more dropped off the bulk power system.

Published April 21, 2026

“In 2018, a mining operation in Washington State left more than \$700,000 in utility bills unpaid after it declared bankruptcy.” - Earthjustice

Issues - What are we solving for?

“Backup” Generation

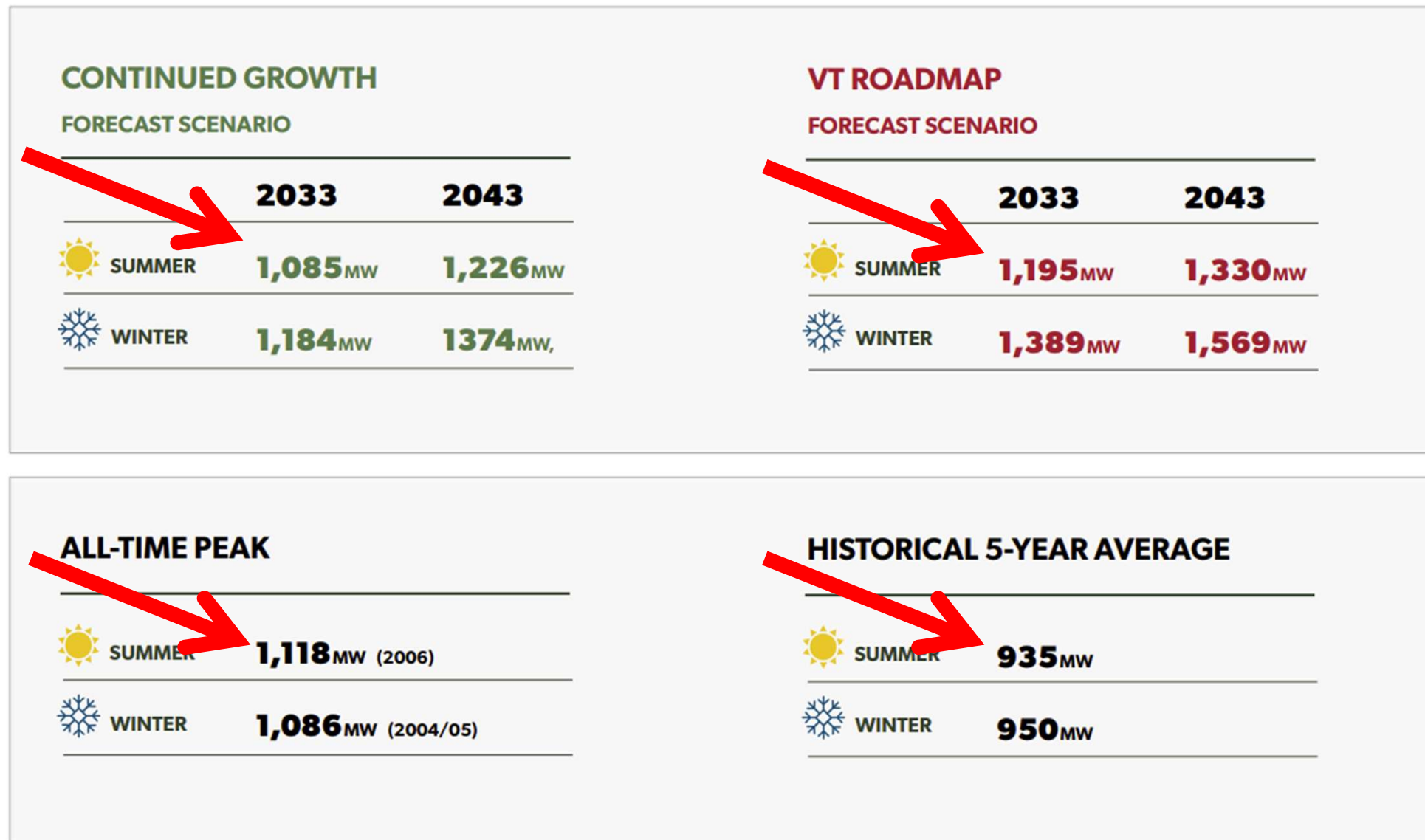


xAI's “Colossus 2” data center in Memphis

Source: Southern Environmental Law Center, April 2026 - <https://www.selc.org/news/xai-built-an-illegal-power-plant-to-power-its-data-center/>

Issues - What are we solving for?

Grid “head room”



Source: 2024 Vermont Long-Range Transmission Plan, VELCO

Issues - What are we solving for?

Data center growth is undoing work to reduce carbon pollution.

- “Compared to 2022, when the country was retiring power plants at a pace that would lead to a coal-free grid by 2040, the current pace of plant retirements would keep some of our dirtiest ones online until 2065. Power generation from coal-fired power plants increased by **13%** in 2025 as U.S. electricity generation hit an **all-time record**.” - *Frontier Group / Environment America / U.S. PIRG, "Energy Transition at Risk," April 2026*

Source: <https://environmentamerica.org/media-center/release-data-center-growth-threatens-air-quality-and-progress-toward-cleaner-energy-grid/>

Issues - What are we solving for?

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Thoughts, & Examples from H.727

- “mitigate the risk of other ratepayer classes paying unwarranted costs”
284(a)(2) on p2
- Relies on current Renewable Energy Standard – to prevent carbon pollution, we’d need to go further
- Language protecting grid capacity could be stronger

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