



Webinar

AI Data Centers in Your Backyard: Who Is at Risk?

July 22, 2025

1-2 PM

Thank you for joining, we will begin shortly.

HOUSEKEEPING

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- All participants will be muted during the webinar.
- If you have questions during the presentation, please type them into the Q&A box located at the bottom of your screen. Your questions will be visible to the moderator and presenters only.
- The webinar is being recorded and will be shared after the event.
- Members of the press may be joining today's webinar.





The Center for Progressive Reform harnesses the power of law and public policy to create a responsive government, a healthy environment, and a just society.

The Center envisions a government that uses the full force of its power to curb climate change and ensure a sustainable environment, economic justice, and healthy workplaces and communities for all.



Our Presenters



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Center for Progressive Reform
(Moderator)

Data Center Permitting

Daniel Farber
July 22, 2025



Introduction

- DOE estimates that power use of data centers could roughly triple from 2023 to 2030.
- This is going to be a jolt to the permitting system, depending on the source of the power.
- Unless on federal lands, solar and wind generally require state or local permits.
- Thermal power plants will require permitting for cooling water.
- Fossil fuel plants will need air pollution permits.



Projects with a Federal Nexus

- A federal nexus could involve federal funding or use of federal land for the data center itself or for an associated power generator.
- Those would bring into play the normal federal permitting process.
- This could require an environmental impact statement or at least an environmental assessment. There might also have to be a Biological Opinion from Fish & Wildlife to ensure Endangered Species Act compliance.
- Trump is trying to short-circuit this.



Dedicated Generation Sources

- A new nuclear plant would require licensing from the Nuclear Regulatory Commission (NRC).
- A new fossil fuel plant would fall under the Clean Air Act. If a major source, it would have to go through preconstruction review.
- Cooling water would also be subject to federal regulation under the Clean Water Act.
- In any event, it would need state approval for compliance with the State Implementation Plan for air pollution.



Data Centers: Water Pollution

- Poor data: Half of data centers don't even track their own water use. But indications are that it can be quite large.
- In 2021, for instance, Google data centers near one Oregon city used over 355 million gallons.
- Water goes through multiple cycles and concentrates certain pollutants such as total dissolved solids and chloride,
- May require pretreatment or a discharge permit with treatment requirements.
- Also may need state permit to withdraw from water body.

Data Centers: Air Pollution

- Emergency generators for backup power require permitting.
- In nonattainment area, the threshold for New Source review is lower (100 tons/yr). It may be necessary to purchase Pollution Reduction Credits.
- Staying below cap may require limiting runtime.
- Air dispersion modeling is needed to ensure compliance with a variety of air standards.



Power Plants – EPA Proposal

- EPA is proposing changes to speed up air permits for power plants used for data centers.
- EPA plans to allow everything up to actual groundbreaking to take place before the preconstruction review.
- EPA will address “the minimum requirements for public participation when it comes to minor emitters so the protest of a few does not unnecessarily thwart progress for all Americans.”



Musk in Memphis

- Musk's xAI installed 35 portable gas turbines without air permits to help power its supercomputer. Notably, this is in a black neighborhood with other industrial sources.
- xAI said that they were only using 15 and the others were just stored there. Thermal images showed more in use. NAACP threatened to sue.
- The local air authority then issued a permit to run 15 generators until 2027. Emission caps set a little below the 100 tpy threshold.

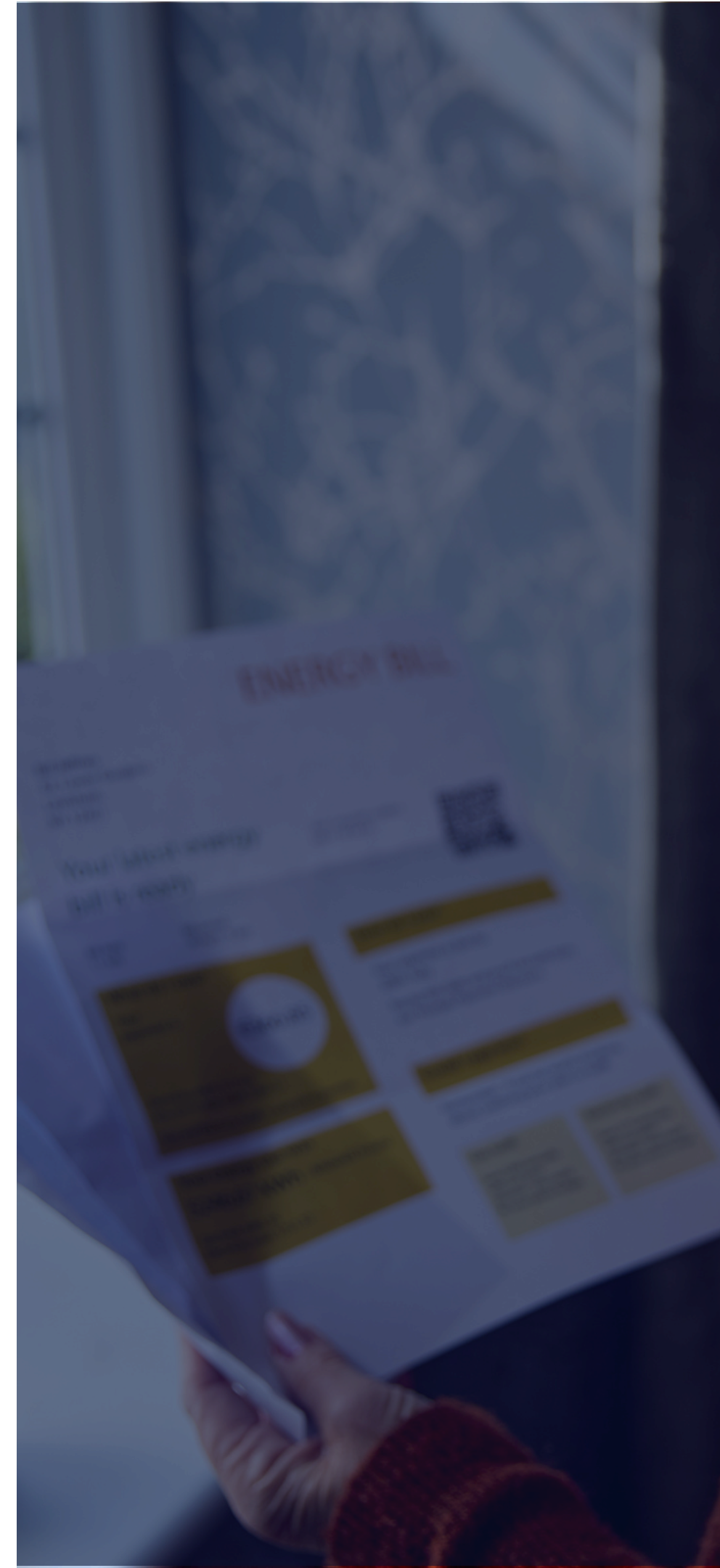


Conclusion

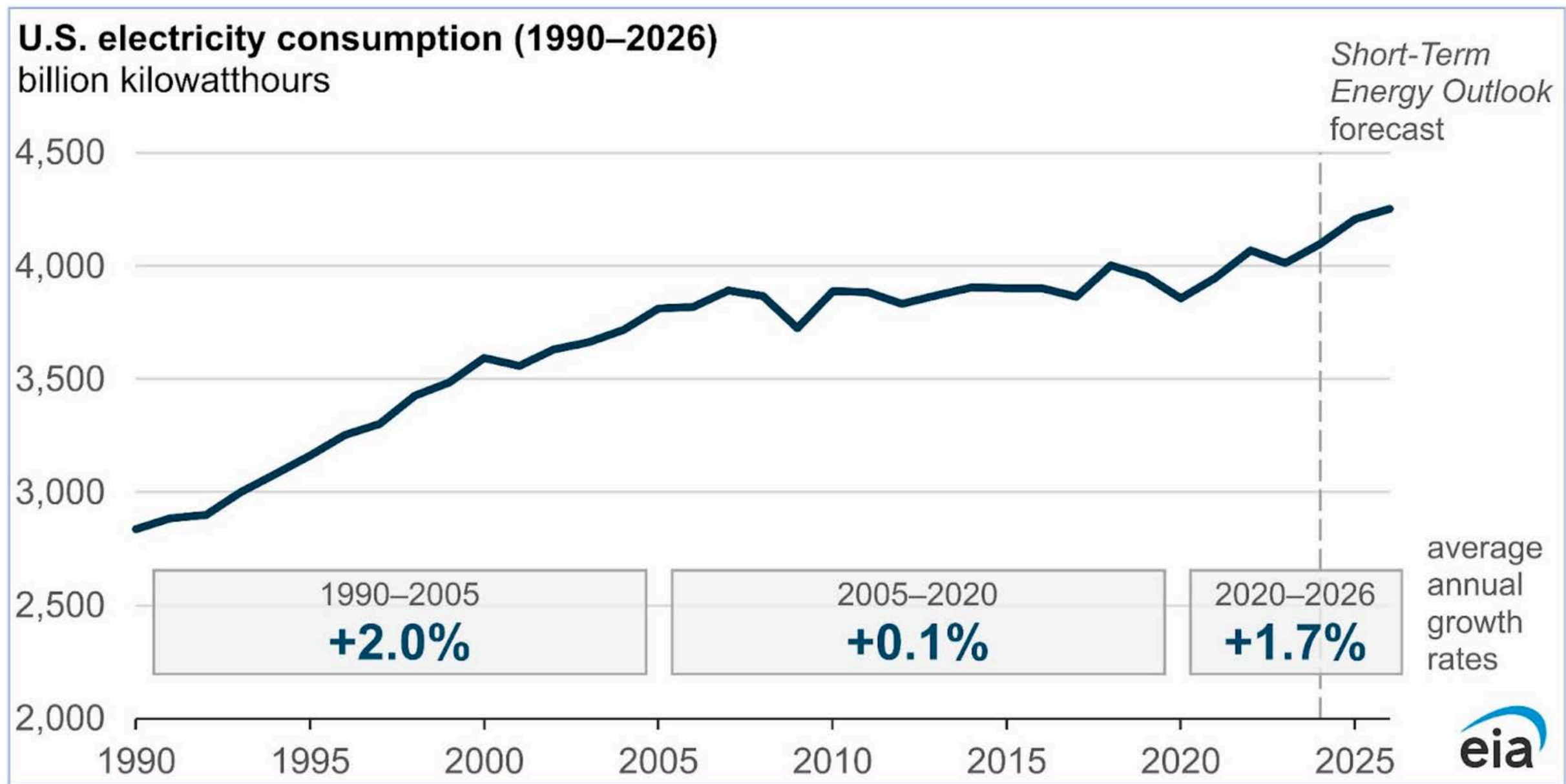
- Especially given Trump energy policy, much of the power for new plants could come from fossil fuels. Trump EPA will try to sidestep requirements and minimize public input.
- Cooling water will also require permitting both for withdrawal and at the discharge end.
- Finally, facilities using federal lands or funds will go through NEPA review, etc.
- **Bottom line:** This stuff is complicated and technical, but likely to become a battleground.



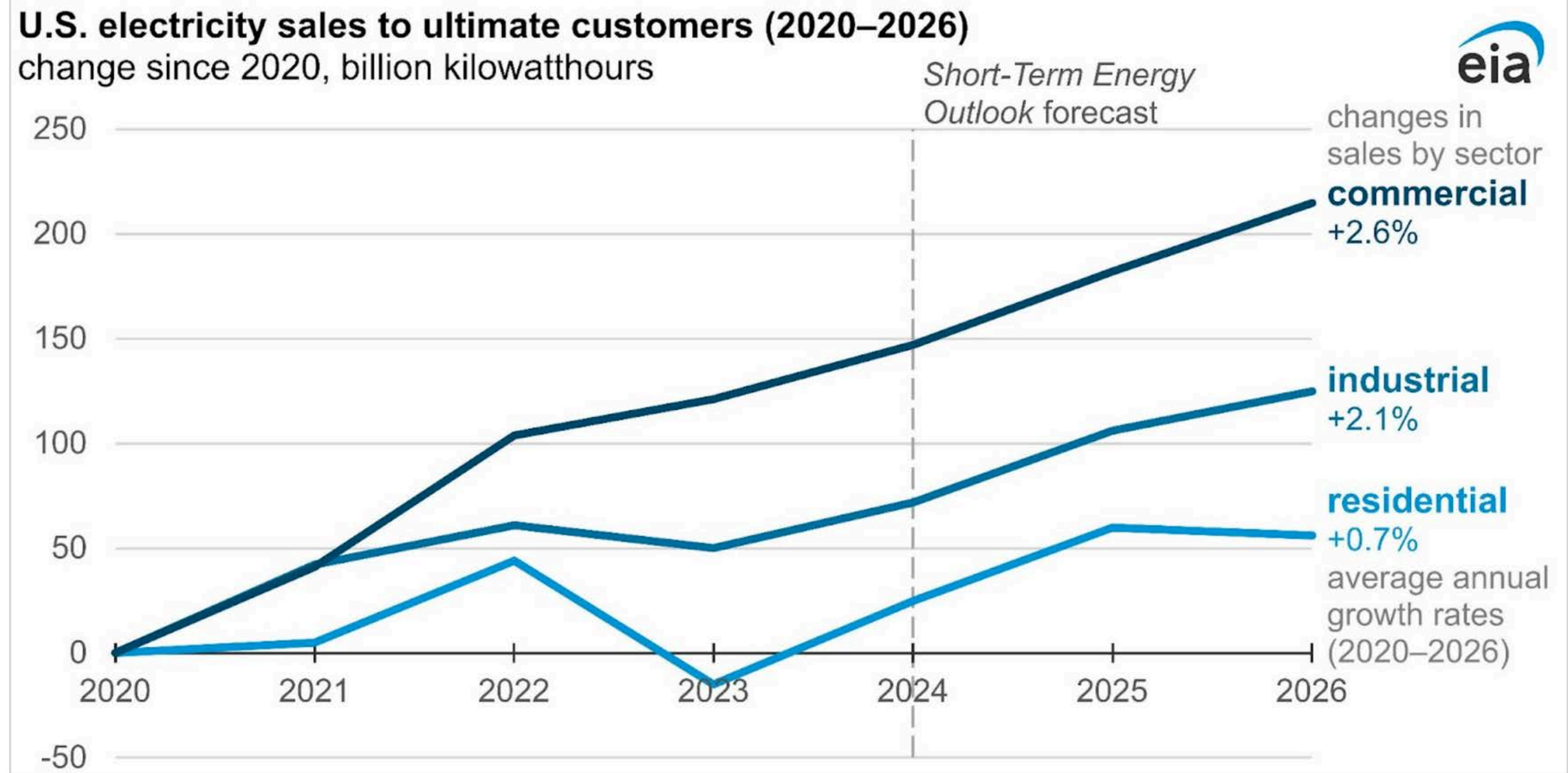
AI, Data Centers, and your Utility Bill



Demand Growth – United States (US Energy Information Administration)



Demand Growth – United States by sector (US Energy Information Administration)



Data Centers - Classifications

- Edge facilities - function largely as relay points between users and centralized servers - largely to reduce latency. Recently, the demand (and power draw) are increasing to meet AI expansion.
- Internal Facilities - traditionally server stacks, usually owned by a business operator for internal storage and computing. Still popular for sensitive data storage.
- Co-Located – large-scale facilities which typically host numerous businesses data storage and remote computing infrastructure under a shared roof. Growth coincided with cloud computing.
- Hyperscale – extreme sized facilities typified by ownership by a single provider, major nexus for AI implementation



Cost impacts of Data Centers (Energy economics)



Rising demand
for generation



Cost allocations for
non-benefitting localities



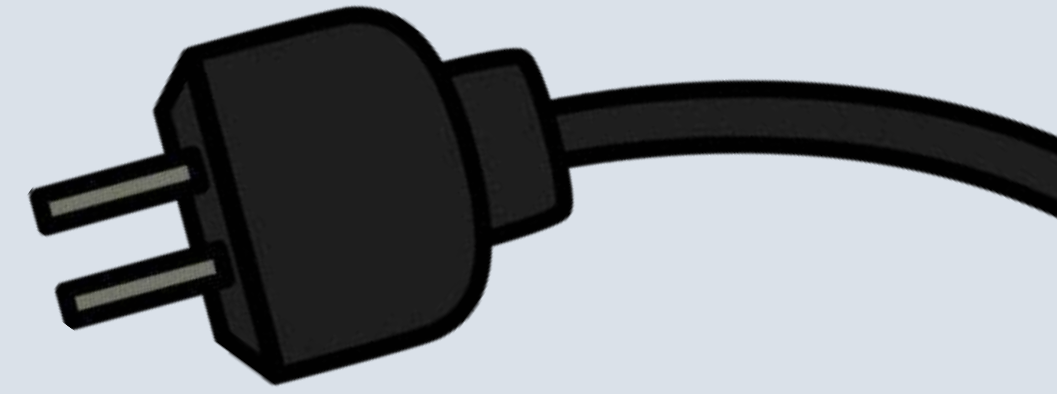
Unrealized or closed facilities
and stranded costs



Impacts, Benefits, and Risks

- » Introduction- what are AI data centers?
- » Environmental and public health impacts
- » Who stands to benefit and who is at risk?
- » Are AI data centers necessary?





The Epirus Bow

Louisiana's Data Center Problem



Alliance for Affordable Energy
New Orleans, Louisiana



KD Minor

Community Solutions Manager

Louisiana's Watchdog

1 Consumer
Protections

2 Clean
Energy

3 Energy
Efficiency

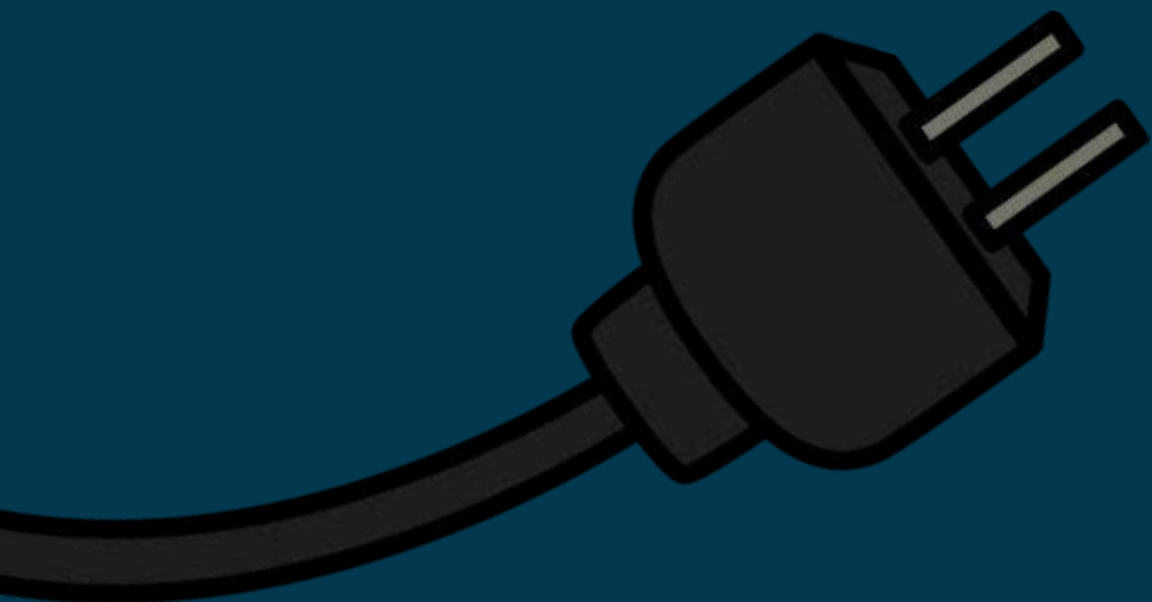
Overview

1

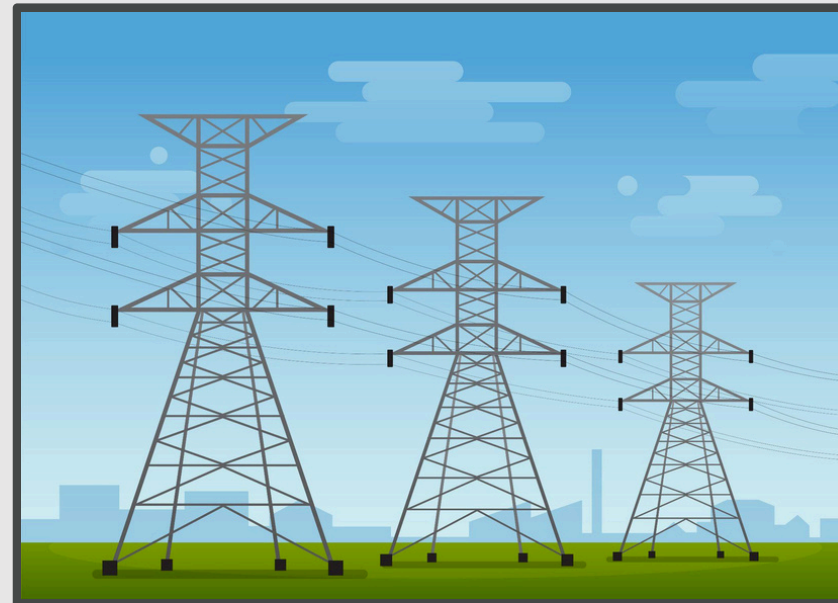
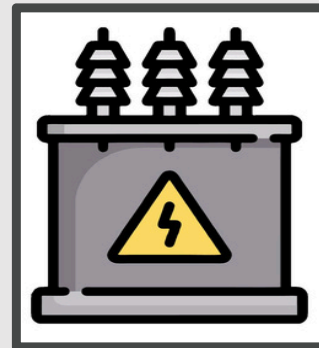
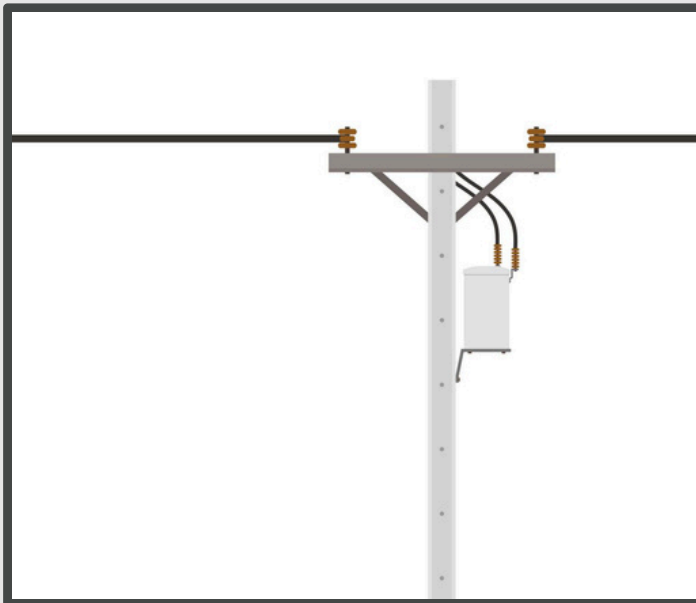
Louisiana's
Meta Data Center

2

Data Center
Costs and
Impacts to
Residents



Data centers directly affect our electricity grid



Hyperion

\$10B pricetag

4 million sq ft

**Uses 2.3x as
much power
as Orleans
Parish, which
has 364,136
residents**



~30 miles

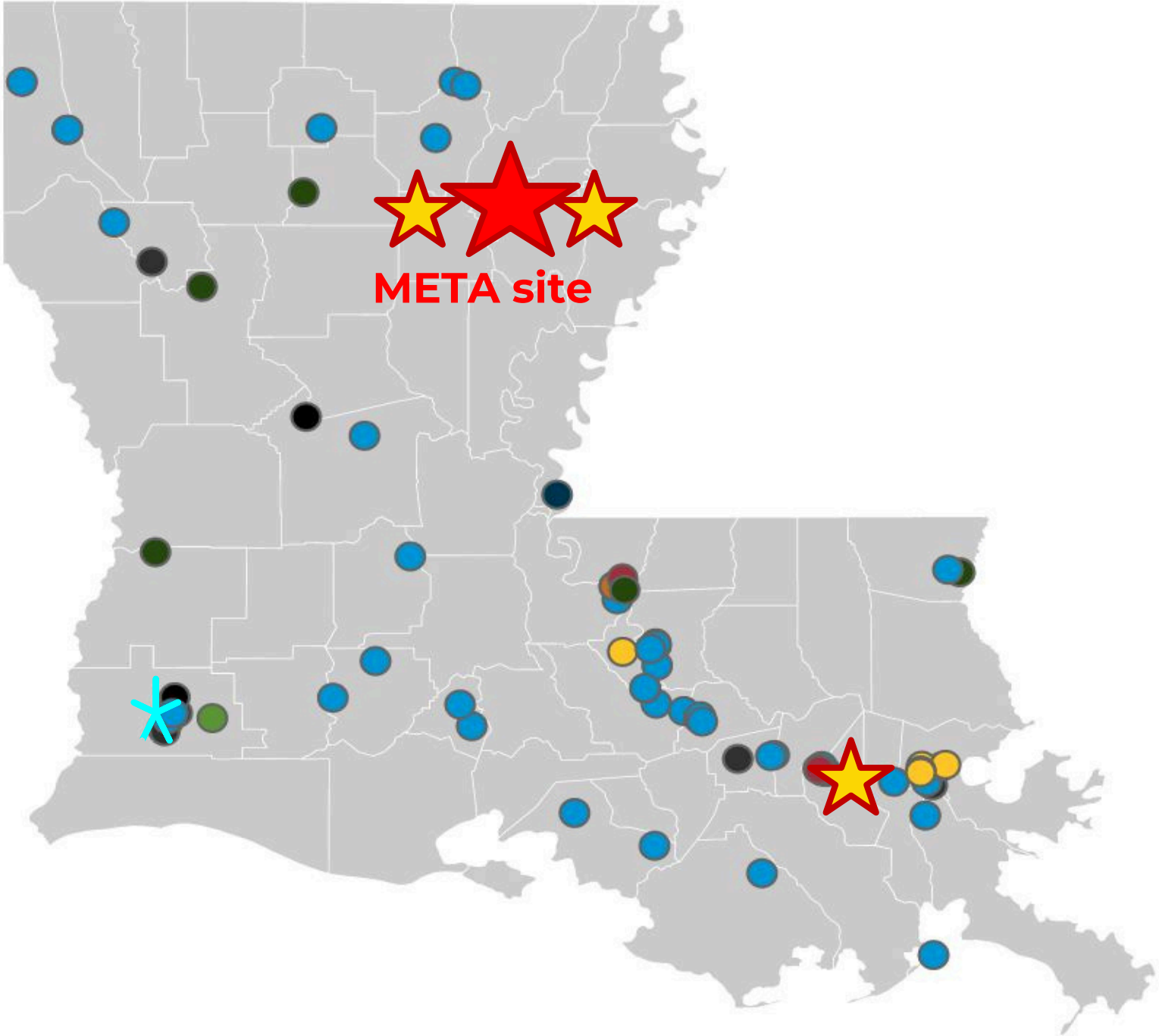


Power Generation

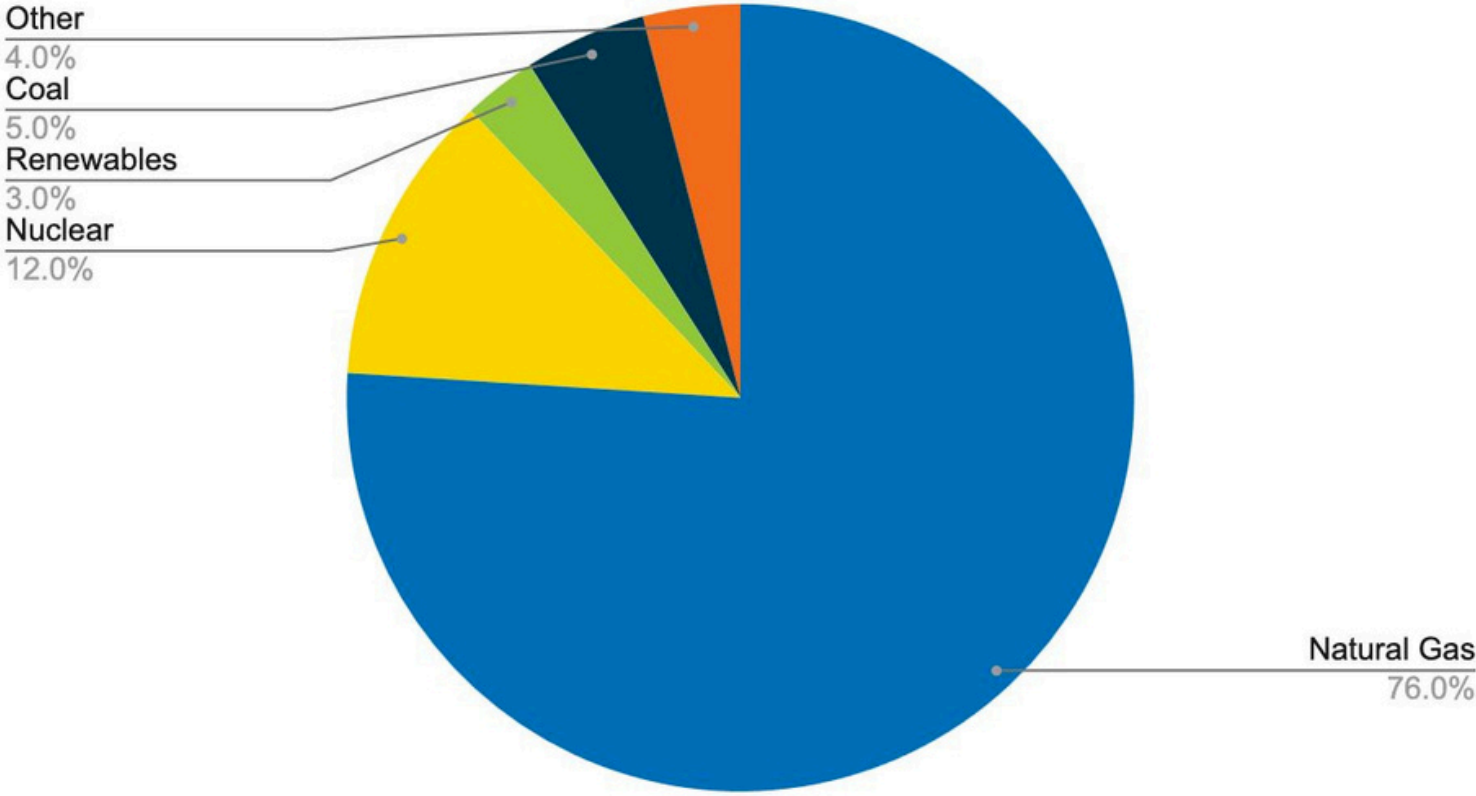
Number of plants for all fuels, Louisiana, all sectors

73 total power plants

- Biomass
- Coal
- Geothermal
- Hydro
- Natural gas
- Nuclear
- Other
- Other fossil gases
- Petroleum
- Pumped storage
- Solar
- Wind
- Wood



Louisiana's Fuel Mix



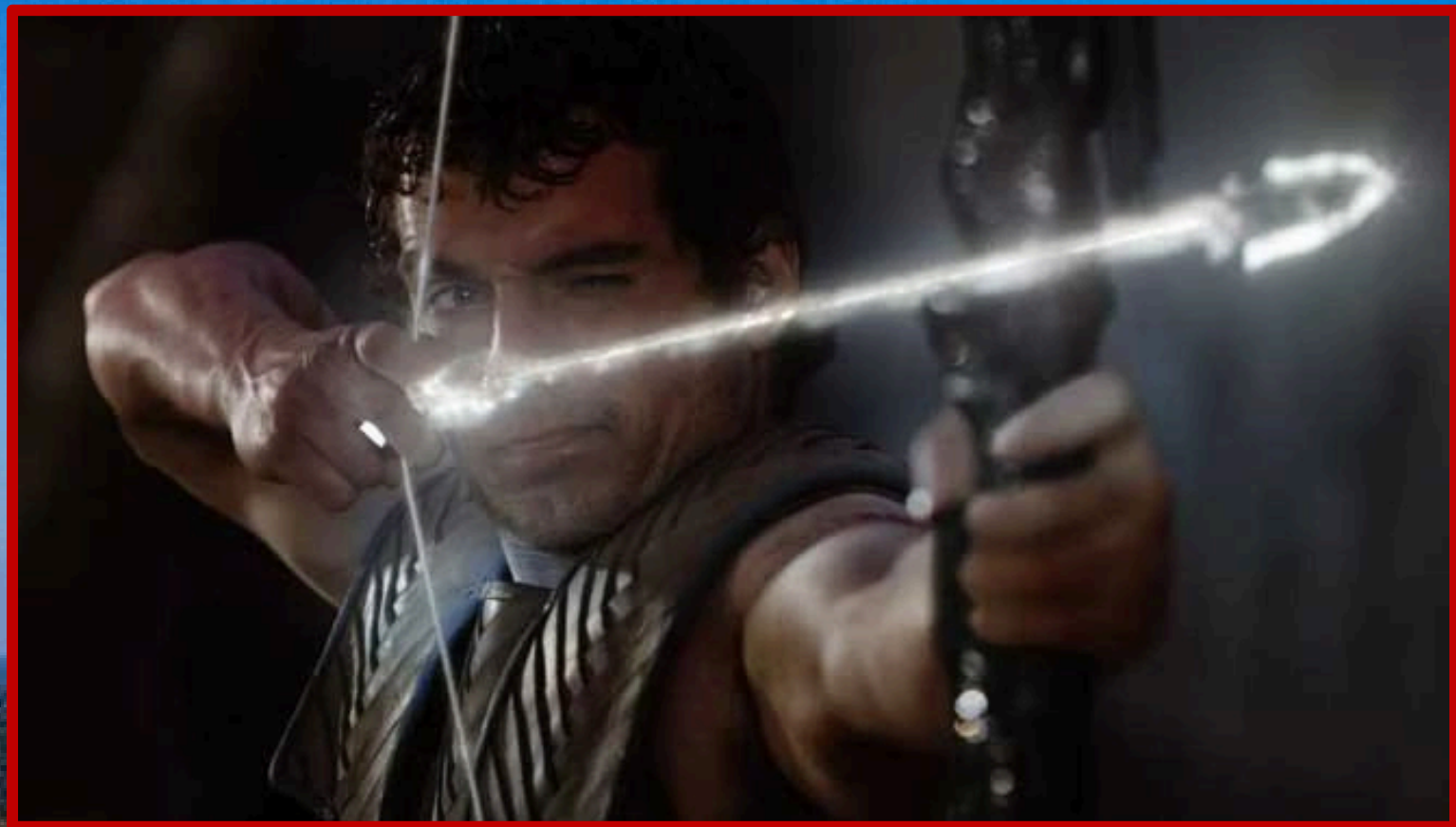
The Promises

- 1. 500 permanent jobs;
5000 construction jobs**
- 2. 1500 MW of Renewable energy**
- 3. Carbon Capture Integration**



The Risks

1. First hyperscale center in LA
2. No accountability on jobs promise
3. Residents pay for 3 new gas plants
4. Electrical impacts to Richland residents
5. Potential threat to nearby Grand Gulf nuclear plant
6. Sacrificed sales + property tax revenue
7. Major emissions increases
8. Extreme water use
9. Secret political dealings



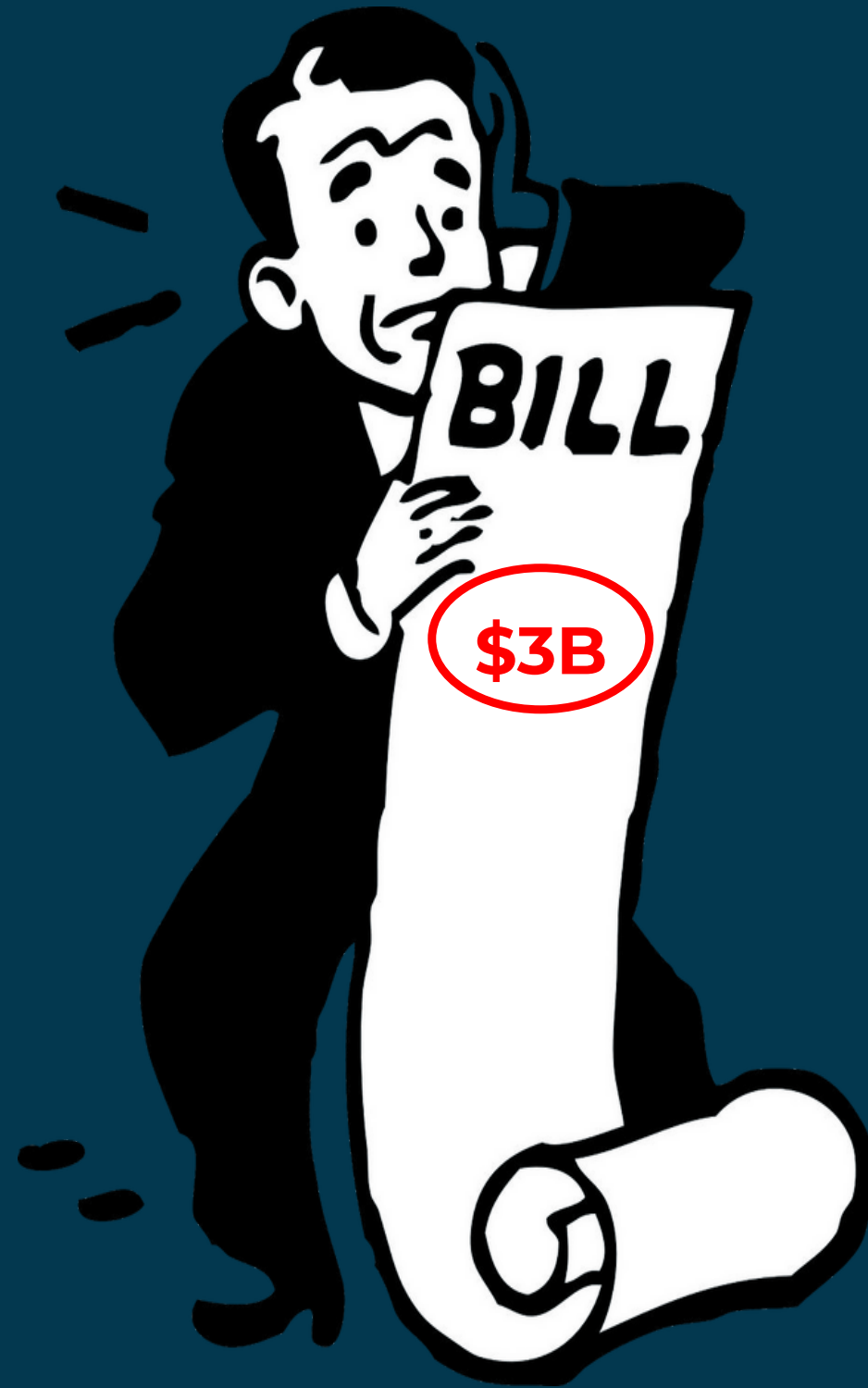
Entergy's Grand Gulf Nuclear Station in Port Gibson, MS

[ABOUT](#) / [NEWS](#)

Motion Filed to Defend Louisiana Ratepayers Against Entergy's Attempt to Circumvent Commission Policy

Published Feb 13, 2025

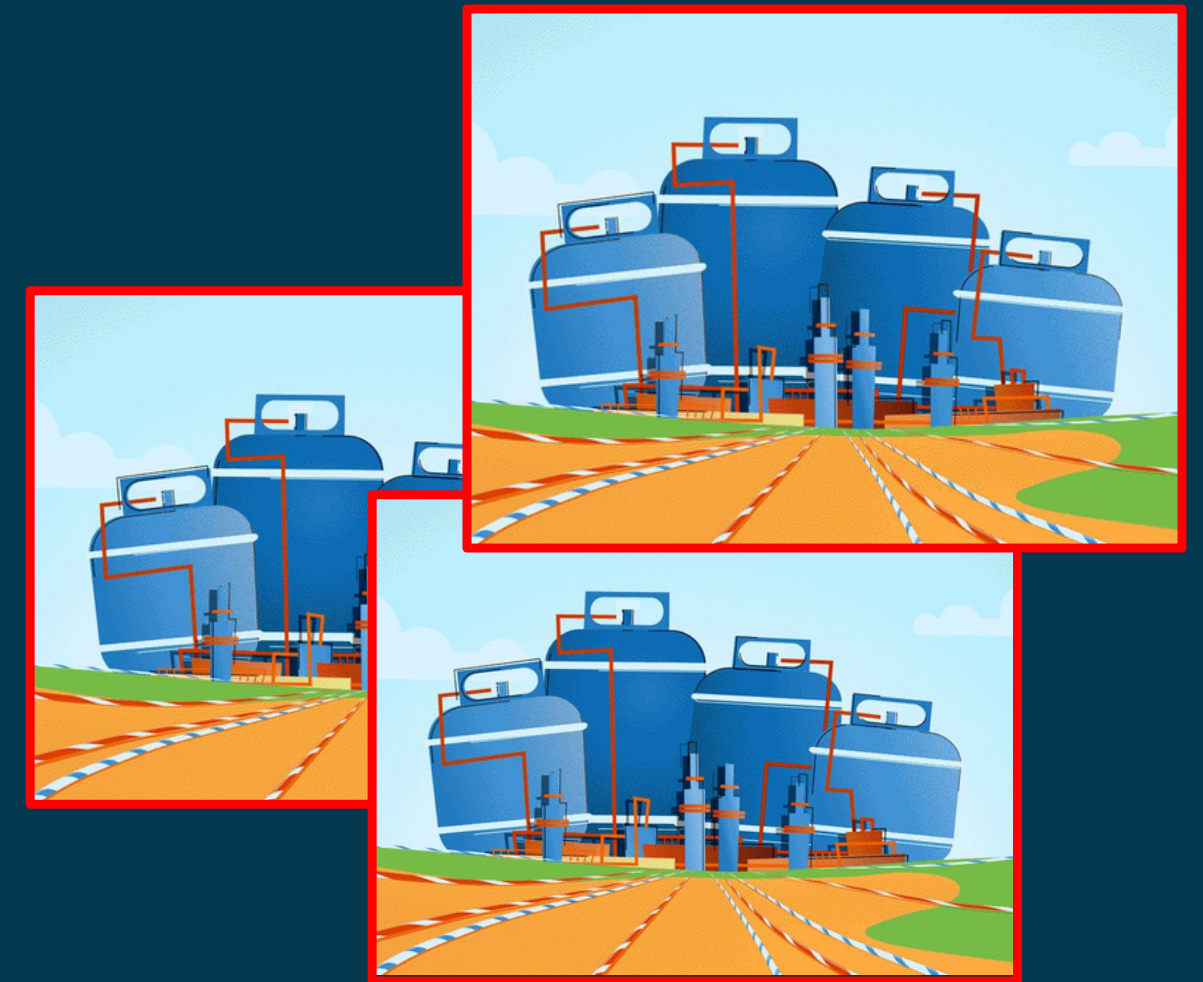
THE COST OF OUR AI USE



**No RFP
Process**

**Increases
Energy
Demand by
25%**

**3 New Costly
Gas Plants**



What we're fighting to win

1. Datacenter pays for 100% of the interconnection costs
2. No subsidies from ratepayers for generation supply
3. Clear criteria for load shifting and reliability impacts
4. Security deposits for failure to perform
5. Consider a microgrid approach to support energy needs
6. Transparency on contract provisions that reflect rates, discounts, reliability commitments, costs to ratepayers



Do Your Part: Reducing Environmental Impact of AI Use:

1 Reflect necessity of usage

2 Advocate and vote for pro-renewable energy regulations & legislation. Support grid enhancing technologies.

3 Add -ai after google search to cease AI search engine



Next Steps

**Plug into
community**

**Fight for
achievable
wins**

**Develop
principles
for AI use**

**Our energy regulators MUST hear from us.
WE must hold them accountable!**


CATEGORIES

- ☐ Utility Regulation
 - ☐ Entergy New Orleans
 - ☐ Cleco
 - ☐ SWEPCO
 - ☐ Entergy Louisiana

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☐ Reliability & Resilience

☐ Legislative Priorities

Enter keyword to search...



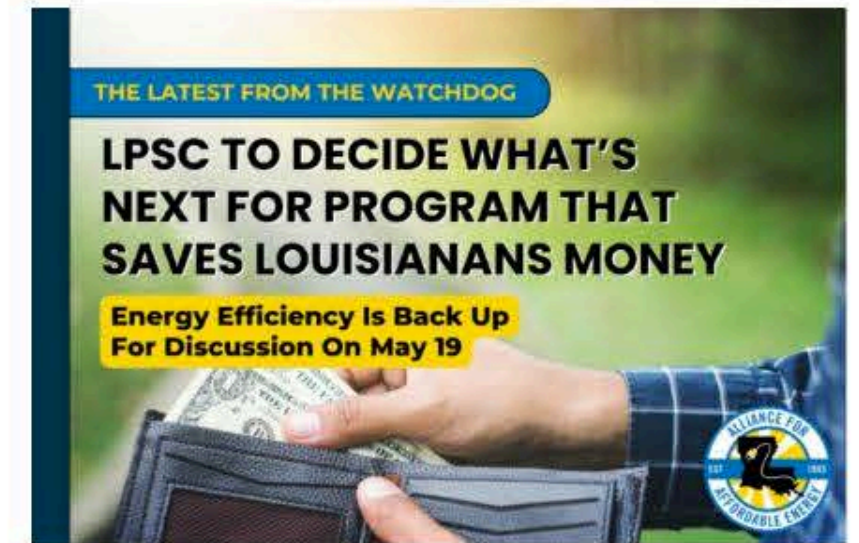
LPSC Vote Leaves Louisiana Families Without...

05.19.2025 Utility Regulation



Louisiana Consumer Advocate calls on FERC...

05.15.2025 Transmission, Bills & Economics



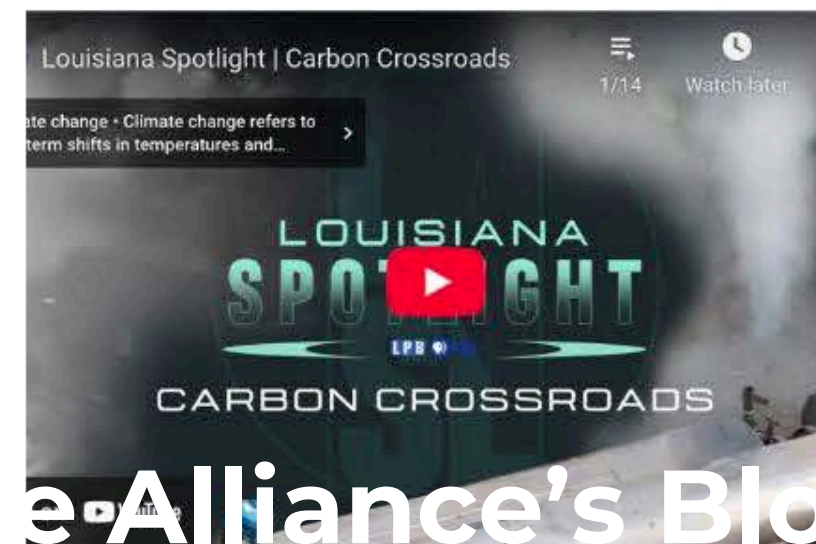
LPSC To Decide What's Next For...

05.12.2025 Utility Regulation



Lights Out: What We Know About...

05.08.2025 Utility Regulation



Louisiana Spotlight: Carbon Crossroads

04.25.2025 False Solutions, Consumer Protection, Bills & Economics,



Making Energy Resources More Accessible Thanks...

04.23.2025 Utility Regulation



e-Alliance's Blog

What Protections are Available in Communities

- » Grassroots efforts
- » Formal coordinated coalitions
- » State based advocacy and legislation
- » Regulatory mechanisms



Q & A

Thank you!

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