Hamm Institute for American Energy
OKLAHOMA STATE UNIVERSITY

POWERING AI: GLOBAL LEADERSHIP SUMMIT

KEY FINDINGS AND ACTION PLAN TO UNLEASH AMERICAN ENERGY FOR AI

Pictured (from left to right): The Honorable Doug Burgum-U.S. Secretary of the Interior, the Honorable Chris Wright- U.S. Secretary of Energy, the Honorable Brooke Rollins- U.S. Secretary of Agriculture, the Honorable Lee Zeldin- U.S. EPA Administrator, Ann Bluntzer Pullin, PhD- Hamm Institute Executive Director

"Whoever controls scalable, reliable energy infrastructure will control AI's future."
— Jack Clark, Anthropic

The Powering AI Global Leadership Summit delivered a clear message: America isn't just participating in the AI revolution, it's leading it. But that leadership depends on an equally bold and urgent energy strategy. This historic gathering united global leaders from AI, energy, government, and academia—those not only shaping the future but building it in real time.

Together, we confronted the critical connection between AI advancement and energy innovation, recognizing that powering intelligent systems requires coordinated action and a comprehensive, all-of-the-above energy strategy.

One truth stood out: the future belongs to leaders who understand that AI and energy leadership must advance together. The time to act is now, to turn vision into infrastructure, strategy into policy, and collaboration into competitive advantage.

To secure lasting American leadership in energy, science, and national security, the U.S. must embrace a transformative vision: the rapid development of AI factories, advanced hubs that will drive innovation and revitalize U.S. manufacturing.

In response, the Hamm Institute for American Energy is launching the **American AI + Energy Initiative**, a coalition of industry, government, and academia committed to securing U.S. dominance in the AI-powered economy. Together, we will ensure a reliable supply of clean, affordable energy and modernize the infrastructure that powers American progress.

We're setting a bold national goal: rapidly scaling the energy and infrastructure needed to support America's leadership in AI and advanced manufacturing. This effort will power the next era of innovation and strengthen U.S. economic and national security.

"We want to make sure we are doing our part to help make America the AI capital of the world."
— Lee Zeldin, U.S. EPA Administrator

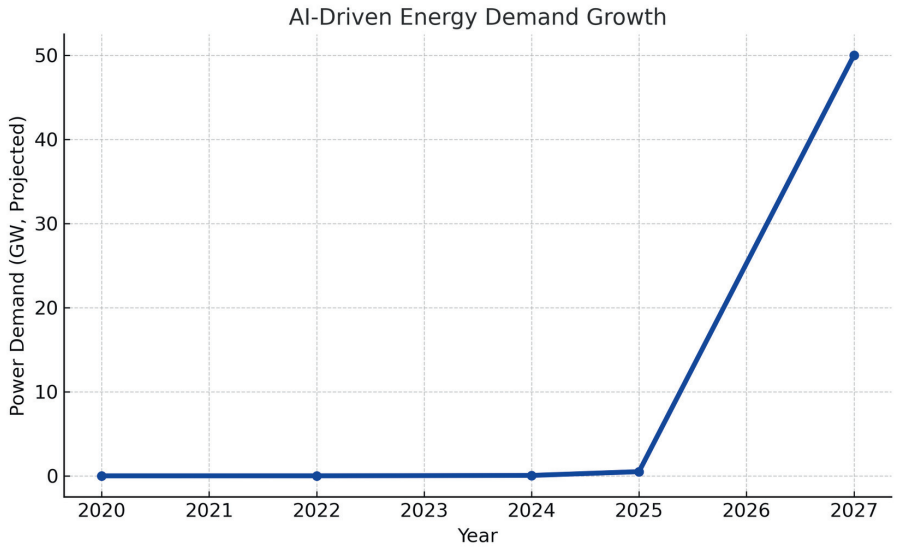
WHY THIS MATTERS NOW: WHAT ARE THE STAKES?

AI-Driven Energy Demand: Over 50 GW of new power capacity will be required by 2027 to sustain AI infrastructure.

Unprecedented Demand Growth: U.S. electricity demand is projected to grow 8% by 2030, driven by AI, data centers, and manufacturing reshoring.

Energy Security = National Security & AI Control: America's energy abundance is a critical advantage and must be mobilized to secure AI leadership. Delays risk ceding technological leadership to foreign competitors.

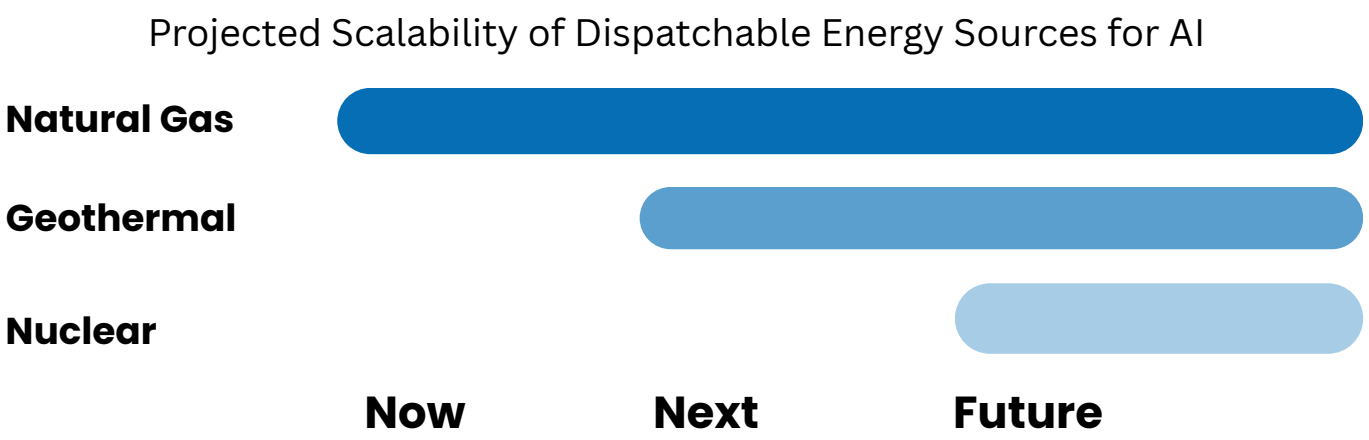
Inference Growth Will Surpass Training: Although each AI task (or inference) requires less energy than training a model, the number of AI tasks being performed is growing so rapidly that, together, they will soon consume more total energy than the training process itself.



Hamm Institute for American Energy, Powering AI Global Leadership Summit, 2025

SUMMIT HIGHLIGHTS

- **Historic Coalition Formed:** Industry, government, and academia joined forces to develop actionable solutions at the Powering AI Summit.
- **Department of the Interior Emergency Permitting Procedure Announcement:** U.S. DOI Secretary Doug Burgum announced a compressed timeline for National Environmental Policy Act (NEPA) compliance approval to accelerate the development of American energy and critical minerals.
- **Urgency of Power Delivery:** The scale and speed at which power must be delivered to support AI infrastructure is unprecedented. In addition to the critical need for 24/7 reliability, this rapid deployment timeline is a major driver for leveraging natural gas as a flexible and dispatchable energy source.
- **Call for Energy Innovation:** Vicki Hollub of Occidental Petroleum emphasized the importance of innovation, declaring, "We don't run out—we engineer our way forward."
- **Demand Projections:** Jack Clark of Anthropic warned, "By 2027, multiple companies will be training AI systems using the output of an entire gas power plant—and then some."
- **Need for Energy Certainty:** Kevin Miller of Amazon Web Services stressed, "We need certainty in energy supply. AI growth is happening now, and power availability cannot be a bottleneck."
- **Natural Gas:** America's Swiss Army Knife. Pierce Norton of ONEOK recognized natural gas as essential for power generation, heating, and LNG exports, providing unmatched versatility and a critical geopolitical advantage.
- **Other Stable Energy Sources:** Nuclear and geothermal technologies, such as microreactors and advanced geothermal wells, are scaling rapidly, as noted by Caroline Cochran of Oklo and Sarah Jewett of Fervo.
- **Consensus Reached:** Immediate deployment of natural gas is critical, with nuclear and geothermal solutions scaling rapidly by 2027–2028.



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INSIDE THE AMERICAN AI + ENERGY INITIATIVE

1. Align Industry, Government, and Academia Through National Roundtables
The collective from the American AI + Energy Initiative will continue to be the body that is the national convener to spur stakeholder collaboration among critical industries and regulatory agencies. Through a series of roundtables, we will actively engage stakeholders to ensure expert input remains central to this initiative. These discussions will also help foster critical partnerships to drive significant investments in strengthening America's grid infrastructure, like the one announced by key Summit participants Invenergy and Quanta Services.

2. Accelerate Energy and AI Innovation with Advanced Testing Facilities
The Hamm Institute Lab will serve as a premier testing ground for advanced energy technologies, microgrids, and AI-driven energy management systems essential to power next-generation data center operations. We will innovate, test, simulate and deliver from the lab according to key identified priorities.

3. Establish U.S. AI Computation Hubs to Power Innovation and Reshoring
We will work with partners like the National Energy Dominance Council (NEDC) to create computation hubs in key locations via state-led proposals for speed-to-power growth by leveraging agency authorities.

4. Streamline Approvals to Fast-Track Critical Infrastructure Deployment
We will create a dedicated task force to help streamline federal permitting and resolve grid interconnection bottlenecks limiting AI and energy infrastructure deployment, including high voltage transmission and pipelines.

5. Reshore Manufacturing & Promote Advanced Manufacturing Powered by AI
We will align AI and energy strategies to accelerate U.S. manufacturing of critical infrastructure components, strengthen both economic and national security, and position the U.S. as a global leader in advanced manufacturing, while fostering a skilled workforce to sustain this growth. For example, as announced at the Summit, the Hamm Institute will partner with Divergent Technologies to create new manufacturing sites that leverage AI to reduce time and costs.

"It's like the Manhattan Project. There is no other option but for the United States to lead in artificial intelligence on our shores right here. That means the technology, the energy, the advancement, the research. We have to lead in the United States."
— The Honorable Chris Wright, Secretary of Energy

CALL TO ACTION: POWERING AI BLUEPRINT

The American AI + Energy Initiative provides a bold, actionable plan to secure U.S. leadership in the AI-powered economy. By addressing infrastructure, policy, and investment challenges head-on, and setting clear national goals—including a significant increase in AI manufacturing capacity by 2028—this Initiative ensures America remains at the forefront of global innovation and economic strength.

If you build, fund, or govern the systems powering AI, this is where you belong.

Pictured (from left to right): Alix Steel- Bloomberg, Josh Parker- Nvidia, Jack Clark- Anthropic, Kevin Miller- Amazon Web Services

AMERICAN AI + ENERGY INITIATIVE: ACTIONABLE SOLUTIONS

Pillar	Challenges	Initiative Response	Policy & Strategic Solutions
Align Industry, Government, and Academia	Fragmented planning, lack of unified vision.	Convene expert roundtables to build coordinated strategies.	Prioritize collaborative partnerships; Develop a national energy plan.
Accelerate Energy & AI Innovation with Testing Facilities	Slow validation and deployment of advanced energy technologies; Limited collaboration between tech and energy sectors.	Establish the Hamm Institute Lab as a national testing ground for next-generation energy and AI solutions.	Fund National Labs; Leverage DOE loan programs; Deploy AI-driven energy management systems.
Establish AI Computation Hubs	Insufficient digital and energy infrastructure; Lack of regulatory clarity for co-located power generation; Uneven regional economic development.	Provide support for federally designated AI hubs with co-located energy resources.	Promote public-private partnerships and long-term contracts.
Streamline Approvals for Critical Infrastructure	Grid and interconnection constraints; Permitting delays and regulatory bottlenecks.	Lead permitting reforms and fast-track critical projects.	Reform National Environmental Policy Act (NEPA); Utilize Defense Production Act; Encourage high voltage transmission and pipelines.
Reshore American Manufacturing Leadership	Declining domestic manufacturing competitiveness; Energy supply insecurity.	Set a bold national goal to increase AI manufacturing capacity by 2028, backed by reliable power.	Create Strategic Gas Reserve; Expand tax incentives (45Q & 45U); All-of-the-above energy approach.

"The race to power AI is the race to shape the future—and it must be won with American energy."
– Harold Hamm, Continental Resources

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