

Congress of the United States

Washington, DC 20515

April 17, 2026

The Honorable Chris Wright
Secretary of Energy
U.S. Department of Energy
1000 Independence Avenue, SW
Washington, DC, 20585

Secretary Wright,

We write to you today with a sense of urgency and shared purpose regarding the future of American technological dominance. President Trump's Executive Order of November 24, 2025, *Launching the Genesis Mission*, is not merely a research initiative. It goes well beyond the Manhattan Project and Apollo missions and will have societal impacts at the scale of the industrial revolution. It is a declaration that the United States intends to win the defining geopolitical contest of the 21st century: the race for dominance in Artificial Intelligence (AI), quantum computing, and nuclear energy, including advanced fission and fusion.

As Congress considers legislative priorities this year, building on the historic Working Families Tax Cut, we look forward to working with you and President Trump to secure the necessary resources, financial incentives, and regulatory reforms required to make the Genesis Mission a reality. We cannot allow this critical national security imperative to languish. The stakes are too high, and the race with China on AI and the national security and technological advancements it brings is well underway.

The Geopolitical Reality: Winning the AI Race

The Genesis Mission correctly identifies that AI is no longer just an economic engine; it is a domain of national security and strategic advantage. Our adversaries, particularly the Chinese Communist Party, are mobilizing their entire state apparatus to surpass us in AI, quantum, and nuclear fission and fusion capabilities. If they achieve supremacy in these fields, they will control the future.

The Administration's goal to "double the productivity and impact of American science and engineering within a decade" is as ambitious as it is necessary. Under your leadership, the Department of Energy (DOE) launched the **Genesis Mission**—an integrated system linking our National Laboratories, supercomputers, and vast federal datasets with public-private partnerships. This infrastructure requires investment and we look forward to working with you to achieve these ambitious goals within a timescale that matches the urgency of the moment.

The Energy-Technology Nexus: Powering the Future

We must be clear-eyed about the physical realities of this digital revolution. The Genesis Mission's success is inextricably linked to our ability to generate massive amounts of reliable, baseload power.

- **AI Power Demand:** The computational intensity required to train the next generation of scientific foundation models is driving energy demand to unprecedented levels. Hyperscale data centers cannot run on intermittent power alone. The anticipated growth for datacenters is substantial, having doubled over the last 5 years. Power demand for AI infrastructure is set to grow from 40GW today to over 100GW by 2035. OpenAI CEO Sam Altman said that "the cost of AI will converge to the cost of energy... the abundance of it will be limited by the abundance of energy."

- **The Nuclear Solution:** The only path to meeting this demand, while also addressing energy affordability, grid reliability, and national security is a massive, technology neutral expansion of power, including **nuclear fission** and the accelerated commercialization of **fusion**. We should further invest in commercialization and pilot programs such as the DOE's Advanced Reactor Demonstration Program (ARDP), Generation III+ Small Modular Reactor Program, and a demonstration phase of the Fusion Milestone Program, as well as the Department of the Navy's Pilot Program on Navy Installation Nuclear Energy. These programs will accelerate the deployment of these game-changing technologies and ensure that U.S. industry dominates the global market.
- **Leveraging AI and Quantum to Accelerate Nuclear Power Deployment:** To maximize the full potential of Genesis Mission, it is vital to invest in key enabling research and infrastructure at our National Laboratories and universities to capture the full value of these technologies and advancements, as outlined in the DOE's recently released Fusion Science & Technology roadmap. Building out the research infrastructure in the Administration's fusion roadmap can yield critical fusion data to help optimize fusion power plants, improve performance, and drive down electricity costs for consumers.

National Security and Economic Implications

The economic and national security implications of the Genesis Mission are staggering. By leading the world in fission and fusion deployment, the U.S. will wield energy dominance just as we have with oil and gas. The "quantum ecosystem" this new energy enables will unlock new materials for defense, aerospace, energy, and medicine, securing our supply chains against foreign disruption.

Economically, this is the most significant ROI opportunity for the American taxpayer in generations. Just as the Apollo program spurred the semiconductor age, the Genesis Mission will birth entirely new industries. Working together, we can ensure that the resources needed to jumpstart these industries are deployed immediately, signaling to private capital that the U.S. government is fully committed.

Accelerating the commercialization of advanced fission and fusion technologies, likewise, positions the U.S. to dominate global energy markets. The annual global markets for electricity (generation equipment and the sales of electricity) are well over \$1 trillion each, with the global market for electricity expected to grow another 40% by 2035. Ensuring the U.S. leads in the development and export of fission and fusion power to meet global energy needs will drive economic growth in the U.S. while also providing another power tool to our geopolitical interests in the same way the U.S. benefits from being a global leader in oil and gas exports.

Rapidly scaling nuclear fission and fusion power will also help drive new, affordable power generation to the American taxpayer. We should be thinking about affordability measures both in the near term and long term.

Funding to Match our Ambitions

We are particularly focused on ensuring the Genesis Mission's critical energy components receive the resources necessary to succeed. The mission specifically prioritizes accelerating advanced nuclear fission, fusion, and grid modernization using AI to provide abundant, affordable, reliable, and secure energy for Americans.

Advanced fission and fusion energy commercialization represents the promise of virtually unlimited, secure, and affordable power that will transform our economy for generations. With private sector companies pushing to deliver electrons on the grid in the early 2030s, commercial fusion is no longer a question of "when" but a question of who does it first and where. By some estimates, China has mobilized \$10 billion – roughly 5 times

as much as the United States – since 2023 to accelerate its fusion program– and develop this technology to capture the fusion future for themselves. We cannot allow our adversaries to win this race.

Incentives to Drive Investment and Innovation

Leading in manufacturing is what turns American fusion breakthroughs into real world energy systems built at scale, creating high-paying jobs and securing decades of industrial competitiveness. For example, if the U.S. wants to lead in fusion it must lead in industry and support domestic manufacturing. Changes to the tax code to incentivize the manufacture of nuclear fusion components would help anchor fusion supply chains in the U.S.— not China—, scale domestic production capacity, and unlock faster commercialization by reducing the cost and risk of manufacturing critical parts. Smart, strategic manufacturing incentives would accelerate investment into American factories, delivering energy dominance for decades to come. Fusion has largely been driven by American scientific leadership and private investment, now is the time to ensure the U.S. does not become dependent on foreign supply chains to manufacture the technology we invented.

Conclusion

We look forward to working with you and the Trump Administration on legislation this year that includes a dedicated "**Genesis Title**" that fully funds the Genesis Mission, unleashes nuclear fission and fusion energy development, and secures American dominance in AI and quantum sciences for generations to come.

The Administration has laid out the vision. With congressional support that matches our national ambition -- the same clarity and drive that put Americans on the moon -- we can ensure that the breakthrough discoveries happen here, the nuclear reactors and fusion pilot plants are built here, and the economic benefits flow to American workers and communities across the country.

Sincerely,



Robert J. Wittman
Member of Congress



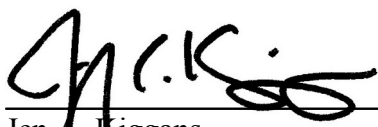
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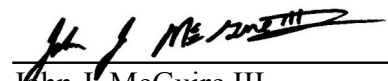
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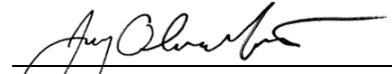
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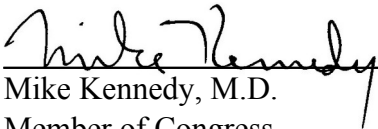
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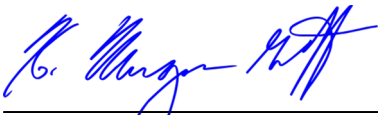
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