



# DAVID STEFFEN

STATE REPRESENTATIVE • 4<sup>th</sup> ASSEMBLY DISTRICT

April 23, 2025

## Testimony to the Assembly Committee on Jobs and Economy on Assembly Bill 108

Chairman Gundrum and Committee Members,

Thank you for the opportunity to testify in favor of Assembly Bill 108, a bipartisan proposal that requires Wisconsin to conduct a nuclear power siting study.

Wisconsin must be prepared to meet soaring energy demands that will be driven by the development of data centers and other energy-intensive economic development. Nuclear power, especially next-generation reactors, will be a viable, carbon-free, domestically sourced option to meet those demands. Laying the groundwork for nuclear energy investments and options today will bolster the safe, reliable and affordable energy of tomorrow.

Under AB 108, the Public Service Commission will conduct (or contract) a nuclear power siting study. The study will:

- Identify nuclear power generation opportunities on both existing nuclear and nonnuclear power generation sites
- Identify new nuclear power and fusion energy generation sites that aren't currently dedicated to power generation
- Identify sites for the development of nuclear fission and fusion technologies
- Develop guidance for advanced nuclear fission and fusion reactors (including small modular reactors and fusion technologies)

A nuclear siting study will strengthen Wisconsin's ability to meet our state's growing energy demands. Thank you for the opportunity to speak in favor of this bill. I encourage you to join me in supporting this legislation and am happy to answer any questions you have.

A handwritten signature of David Steffen in black ink, located below the text of the letter.

David Steffen  
State Representative  
4<sup>th</sup> Assembly District



---

# SHAE SORTWELL

---

STATE REPRESENTATIVE • 2<sup>nd</sup> ASSEMBLY DISTRICT

**Hearing Testimony**  
**Assembly Committee on Jobs and the Economy**  
**April 23, 2025**  
**Assembly Bill 108**

Chairman Gundrum and members of the Assembly Committee on Jobs and the Economy – Thank you for giving me the opportunity to speak on AB 108, relating to conducting a nuclear power siting study.

Wisconsin must be prepared to meet soaring energy demands that will be driven by the development of data centers and other energy-intensive economic development. Nuclear power, notably its next generation of small modular reactors, will be a viable, carbon-free, domestically sourced option to meet those demands. Laying the groundwork for nuclear energy investments and options today will bolster the safe, reliable, and affordable energy of tomorrow.

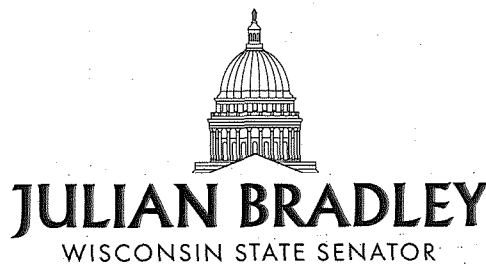
Under AB 108, the Public Service Commission (PSC) will conduct (or contract) a nuclear power siting study. The study will:

- Identify nuclear power generation opportunities on both existing nuclear and non-nuclear power generation sites.
- Identify new nuclear power and fusion energy generation sites that aren't currently dedicated to power generation.
- Identify sites for the development of nuclear fission and fusion technologies.
- Develop guidance for advanced nuclear fission and fusion reactors (including small modular reactors and fusion technologies).

Furthermore, some technical adjustments have been made with AA1 after my co-authors and I met with PSC. They have been involved throughout the drafting process, and we have incorporated their input.

A nuclear siting study coupled with a streamlined state-level approval process will strengthen Wisconsin's ability to meet the inevitable growth in energy demands.

I appreciate the opportunity to testify on this legislation and would gladly answer any questions the committee may have.



**Assembly Committee on Jobs and Economy**  
*Wednesday, April 23<sup>rd</sup>, 2025*

**Assembly Bills 108 & 132**

Thank you to Chairman Gundrum and the members of the committee for hearing Assembly Bills 108 (AB 108) and 132 (AB 132). Wisconsin has growing energy needs that must be met and we want to ensure our state stays on the forefront with nuclear innovation. These forward thinking, bipartisan bills work to achieve just that.

Nuclear power, and in particular next generation reactor technology, is the surest way to guarantee that we meet our baseload energy generation needs. In addition, expanding our nuclear portfolio will help us continue to attract energy-intensive new developments – like data centers. Assembly Bill 108 requires that our state conduct a nuclear power siting study. This will ensure that Wisconsin is poised to take advantage of future nuclear expansion and investment.

Specifically, this study is designed to identify opportunities for nuclear development, including the location of sites suitable for nuclear fission or fusion technologies. Additionally, AB 108 develops guidance for advanced nuclear fission and fusion reactors – including small modular reactors and fusion technologies. This bill also requires the Public Service Commission (PSC) to adopt an expedited nuclear facility approval process, trimming the standard 180-day application period to 150-day. This timeline adjustment is intended to make our state more attractive for development than our neighbors, with whom we will no doubt be competing.

To further demonstrate that our state is a national leader in this effort, Assembly Bill 132 establishes Wisconsin as a host for a Nuclear Power Summit. This allows us to bring together experts in the nuclear field and showcase how our state is leading the way in the next chapter of energy generation. AB 132 also creates the Wisconsin Nuclear Power Summit Board made up of legislators, administration representatives, and industry and economic development experts. The board will be responsible for organizing, promoting and hosting the summit with support from the Wisconsin Economic Development Corporation (WEDC).

I'd like to note that the date of the summit is set to coincide with the opening of the new College of Engineering building at UW-Madison. This enables us to showcase this state-of-the-art facility and its role in nuclear research. It's the perfect location to display Wisconsin's commitment to leading the way in the development of this safe and reliable energy.

Together, we can make sure that Wisconsinites have their growing energy needs met through safe, clean, and reliable baseload energy production from nuclear fission and fusion technology. Thank you, members of the committee, for the opportunity to testify today. I ask that you join us in supporting these bi-partisan proposals for a brighter Wisconsin future.

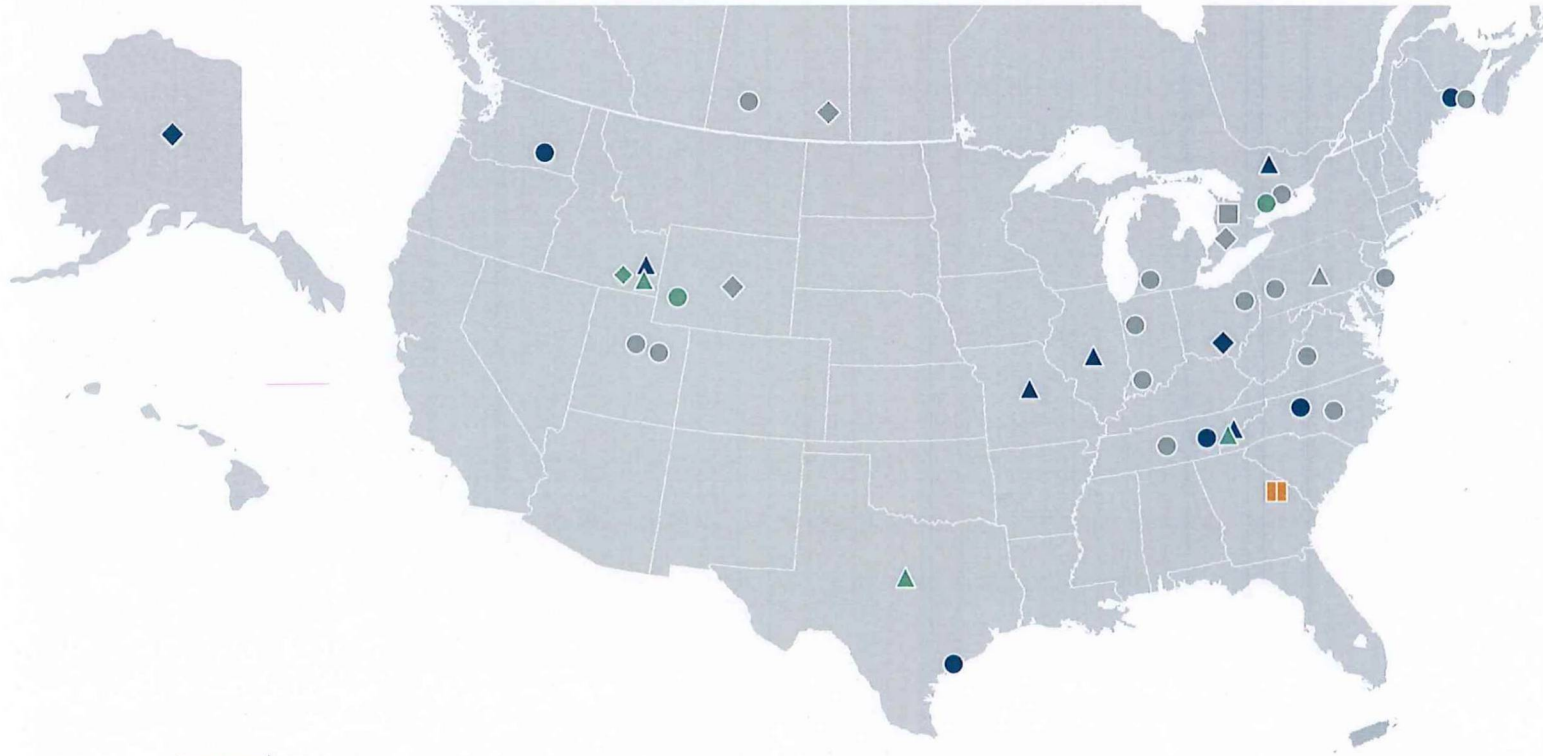
# Advanced Nuclear Deployment Plans

Projects that may be in operation by early 2030s



©2025 Nuclear Energy Institute

Updated 01/17/2025



## Legend

- |                      |                    |                           |                                |
|----------------------|--------------------|---------------------------|--------------------------------|
| ● Considered project | ● Planned project  | ● Under construction      | ■ Operating                    |
| □ Large (1,000 MWe)  | ○ Small (<300 MWe) | ◇ Micro-reactor (<50 MWe) | △ University / Research / Test |

April 23<sup>rd</sup>, 2025

Representative Rick Gundrum (Chair)

Representative Adam Neylon (Vice-chair)

Members of the Assembly Committee on Jobs and the Economy

Testimony for Information on Assembly Bill 108 & Assembly Bill 132

Dear Chairman Gundrum, Vice-chair Neylon, and Committee Members,

Thank you all for your time this afternoon.

My name is Oliver Schmitz, and I am the Thomas and Suzanne Werner Professor of Nuclear Engineering and Engineering Physics at the University of Wisconsin - Madison. I am also a co-founder of Realta Fusion, an early-stage fusion energy startup residing in Wisconsin. I speak today in support of Assembly Bills AB 108 and AB 132, and to offer the expertise of my colleagues and me as your committee considers the important role of nuclear energy for the economy and for the energy security and resilience of the State of Wisconsin. While my work at UW-Madison informs my expertise, I do not represent the views of the university. I am providing this testimony as a private citizen and subject matter expert with over 20 years of research and development experience in the field. My research focuses on Nuclear Fusion, the process that the sun and the stars use to produce energy, and the materials we need to invent and learn to manufacture at scale to confine a “sun on earth”. This will require new materials and new kinds of manufacturing technologies that can create new economic benefits for the state of Wisconsin and its citizens.

Assembly Bill 108, which provides funding and a mandate to the Public Service Commission in conducting siting studies across Wisconsin, is important to open access to economic benefits for the betterment of all people in Wisconsin and to strengthen our energy resilience and security. Installing nuclear power in Wisconsin is an effective method to realize base load power generation in the state and reduce our need for energy imports. At the same time, when considering the most modern nuclear energy technologies, it offers opportunities to bring manufacturing and supply chain industries in Wisconsin and to reskill and upskill our workforce for high-paying jobs in this sector. I support the idea that this bill considers both forms of nuclear energy generation, nuclear fusion and nuclear fission, because both can and should co-exist to satisfy the growing energy needs of the state and its population. The contemporary deployment and development of such technologies in one innovation region is critical to building a world-leading innovation space. The bill fully includes both types of energy generation and opens important access points to fully leverage the innovation potential and the impact it can have on our state.

Assembly Bill 132 supports the WEDC in acquiring a world-class nuclear convention for Wisconsin, and brings interested parties and industries to our state. This is advantageous for enhancing awareness of nuclear energy among the state’s citizens, its industries, and

decision makers. Moreover, it will make the nuclear energy efforts in Wisconsin visible and known, which is an important part of acquiring industries, talent, and overall interest in this technology movement. Forming a Nuclear Power Summit board is an inclusive way to create two-way engagement with all stakeholders for such a broad technology development. We can offer our network to broaden participation at the summit and develop ideas for follow-up meetings, workshops, and events to carry forward the momentum such a summit would build.

In summary, these two bills will advance Wisconsin's strides in energy security, affordability, and resilience. The economic development potential of being part of the worldwide nuclear renaissance is large. Wisconsin will be able to partake in and obtain leadership, in particular, based on its traditional and world-renowned heavy industry and high-tech manufacturing, advanced data and control, and supply chain sectors.

Thank you again for your time. I am happy to take any questions.

Sincerely,

Oliver Schmitz

Thomas and Suzanne Werner Professor of Nuclear Engineering and Engineering Physics  
Director of the Grainger Institute for Engineering  
College of Engineering, University of Wisconsin -Madison

April 23<sup>rd</sup>, 2025

Representative Rick Gundrum (Chair)

Representative Adam Neylon (Vice-chair)

Members of the Assembly Committee on Jobs and the Economy

Testimony for Information on Assembly Bill 108 & Assembly Bill 132

Dear Chairman Gundrum, Vice-chair Neylon, and Committee Members,

Thank you all for your time this afternoon.

My name is Paul Wilson, and I am the Grainger Professor of Nuclear Engineering and currently the Chair of the Department of Nuclear Engineering & Engineering Physics at the University of Wisconsin-Madison. I speak today in support of AB 108 and AB 132, and to offer the expertise of myself and my colleagues as your committee explores the important role of nuclear energy in the economy of the State of Wisconsin. While my expertise is informed by my work at UW-Madison, I am not representing the views of the university. I am providing this testimony as a private citizen and subject matter expert with over 30 years of research experience in the field. My own research includes the development of software tools that offer insight in two related areas: the design and analysis of the nuclear engineering components of future fusion energy systems, and the policy implications of different nuclear energy futures. Recent projects have also included technoeconomic analysis of small reactor deployment at US government facilities, and community engagement for siting of nuclear energy facilities. Together with my colleagues in the Department of Nuclear Engineering & Engineering Physics, currently ranked number 3 in the nation, we study a wide variety of aspects of both fission and fusion energy. We like to say that we are “Saving this Planet, and Exploring the Rest.”

Our students go on to important leadership roles across the country, with current and recent examples including a Commissioner of the Nuclear Regulatory Commission, a C-suite executive at the largest nuclear utility in the country, and the leading nuclear energy role at the US Department of Energy. Across the nuclear sector, you’ll find Badger Engineers using their UW-Madison education to make a positive difference in the operation of today’s nuclear fleet and the design of tomorrow’s. Our students come from across the State, all over the country, and around the world for a chance to join our legacy of Badger nuclear engineers, and many hope to stay in Wisconsin when pursuing a career.

As you will hear from other experts in this hearing, there is a growing consensus that nuclear energy has an important role to play in future energy systems, nationally and within the State of Wisconsin. While energy choices are generally dominated by economic considerations, our collective decisions about energy also represent other values that we share, including energy security, reliability and environmental conservation. Nuclear energy, whether fission today or fusion tomorrow, offers many advantages across all of these factors. In particular:

- nuclear energy uses less land than any other source of electricity and has no emissions to the atmosphere,

- nuclear energy routinely operates with over 90% availability, with most plants able to operate for up to 18 months without shutting down, and
- nuclear energy's fuel supply is relatively stable and easily stockpiled due to its high energy density.

Access to reliable electricity is a clearly-established driver of economic growth that leads to high quality jobs and technological innovation. All of these are things that I hope are part of this State's energy and economic future.

Assembly Bill 108 requires the Public Service Commission to conduct a nuclear power siting study that will help our state understand the emerging opportunities for deploying nuclear energy, including opportunities for facilities that contribute to the development of nuclear energy technologies. This is an important first step in reevaluating the State of Wisconsin's nuclear energy future. It has been many years since new nuclear power plants have been considered in the State of Wisconsin, and in that time, there have been substantial changes in the technology of nuclear energy as well as in the nature of electricity demand to drive economic growth. In particular, we see two primary ways in which future nuclear reactor technology may be different.

First, nuclear reactor vendors are exploring a wide range of reactor sizes. When reactors were built at Kewaunee and Point Beach, the prevailing trend was to make them ever larger. Today, for a number of reasons, reactors are being considered at many different scales, often considered into three broad categories:

- traditional large reactors with power levels of at least 300 MW,
- small modular reactors with power levels between about 50 MW and 300 MW, and
- microscale reactors with power levels below 50 MW.

Those different size options will create new siting opportunities, whether repowering old coal power plants - or Kewaunee - or adding robust power to smaller communities.

Second, and independent of size, new reactor technologies have been developed to make nuclear energy more suitable for a long list of different uses. Some of those technologies allow it to be more responsive to rapid changes in energy demand. Others allow nuclear power plants to be sited closer to population centers. Still more technologies allow nuclear energy to be deployed for industrial or process heat. The versatility offered by these different reactor concepts will also allow for a richer set of siting opportunities in the state.

Our faculty and researchers are engaged with many of the companies pursuing these nuclear innovations and will be pleased to provide input on any questions that arise, whether as part of the legislative process or during the conduct of the siting study.

Assembly Bill 132 creates a Nuclear Power Summit Board, and directs that Board to host a summit in Madison on nuclear energy. This will be a vital opportunity:

1. For Wisconsin utilities to learn more about nuclear energy options,
2. For Wisconsin industry to learn more about supply chain challenges that they may be able to fill, and finally,
3. For other stakeholders in the global nuclear energy supply chain to learn what Wisconsin's manufacturing base can offer to fill important gaps.

We will be eager to offer our network of nuclear industry professionals and researchers to support the development of one or more nuclear energy summits in Madison or elsewhere around the state.

In summary, these two bills help the State of Wisconsin make important strides forward in developing a reliable and secure clean energy future that will support the technology innovation and economic growth that will be important for Wisconsin's future.

Thank you again for your time. I am happy to take any questions.

Sincerely,

Dr. Paul P.H. Wilson  
Grainger Professor of Nuclear Engineering  
Chair, Department of Nuclear Engineering & Engineering Physics



April 23rd, 2025

**Testimony to the Assembly Committee on Jobs and Economy on Assembly Bill 108**

Chairman Gundrum and Committee Members,

Thank you for the opportunity to testify today in support of Assembly Bill 108, a bipartisan bill which directs the Public Service Commission to conduct a much-needed nuclear power siting study in Wisconsin. I would also like to thank Representative Sortwell and Senator Bradley for introducing this important piece of legislation.

My name is Robb Hughes, and I am the Head of External Affairs at Realta Fusion. Realta Fusion is an early-stage commercial fusion energy company based right here in Wisconsin that spun out of a groundbreaking physics experiment at the University of Wisconsin-Madison in 2022. Funded by the United States Department of Energy, top-tier Silicon Valley venture capital firm Khosla Ventures, the Wisconsin Alumni Research Foundation, and TiletownTech – a joint venture between Microsoft and the Green Bay Packers – Realta Fusion is a tremendous example of the power of public-private partnerships.

In that same spirit of public-private partnership, I testify today in support of Assembly Bill 108 because it represents an important step toward enabling the commercial fusion energy industry and positioning the state of Wisconsin as its epicenter.

As demand for energy grows with each passing day – due in no small part to the increasing need for energy-intensive data centers to power the AI revolution in this country and help the US maintain its lead over our global competitors in this space – we need abundant, carbon-free, reliable, and domestically-sourced power generation solutions to meet the needs of tomorrow.

We believe fusion energy is the solution, and we believe we can build it right here in Wisconsin. The economic activity associated with fusion could be extraordinary. Fusion can be a massive boon for manufacturing, bringing the promise of high-paying jobs for thousands of Wisconsinites and economic growth for the skilled engineering and machining companies throughout the state. Realta Fusion is already attracting people to the state as we expand our team, and we need to enable others to do the same.

A nuclear siting study that identifies opportunities for fusion power generation on existing sites and uncovers fusion power generation options on new sites altogether brings us that much closer to actually building the next-generation machines we need to power the future and realize the staggering benefits of the economic and workforce development opportunity before us.

Thank you for the opportunity to testify in favor of Assembly Bill 108. I am happy to take any questions.

Robb Hughes

Head of External Affairs, Realta Fusion

A handwritten signature in black ink that reads "ROBB HUGHES". The signature is written in a cursive, slightly stylized font with all capital letters.



DATE: April 23, 2025

TO: The Assembly Committee on Jobs and the Economy

FROM: Clean Wisconsin

RE: Assembly Bill 108

---

Assembly Bill (AB) 108 is an attempt to improperly enlist an independent state regulator to pave the way for the development of one technology: nuclear power. The bill directs the Public Service Commission of Wisconsin (PSCW) to conduct a “siting study” that “identifies nuclear power generation opportunities on existing nuclear and non-nuclear sites” and on sites not currently used for energy generation at all.

Clean Wisconsin opposes AB 108 for the policy reasons outlined herein.

## **I. Industry, not regulators, are responsible for siting studies.**

Under PSC 111.53, Wis. Admin. Code, any entity proposing to construct power generation facilities must provide PSCW with its own comprehensive siting study. Applicants must make a showing to the PSC that a long list of very site-specific issues have been studied, including public input regarding those sites.

Once the applicant has provided sufficient information for the PSCW to evaluate the application, the Commission, as an independent and objective regulatory body, reviews that information and makes a determination whether the project should be approved. **To require the PSCW to identify and evaluate potential sites for new nuclear generation turns this longstanding process on its head, shifting the burden of site identification and recommendation onto the agency that is charged with objectively making siting decisions.** At the very least, this would create a serious conflict of interest.

Even if the “siting study” envisioned by AB 108 consists of different elements or criteria than the current power plant siting law, it is not the PSC’s job to do the work of the nuclear or utility industries for them. Both industries are far better resourced than Wisconsin’s regulatory agencies, which are already overtaxed with work that is necessary and appropriate for them to do.

## **II. The nuclear industry is fully capable of and should conduct its own siting studies.**

For every nuclear reactor (or any other type of power generator) that has ever been constructed in Wisconsin, the applicant has, by law, conducted its own comprehensive siting study. Other than to unfairly promote the nuclear industry over other forms of power generation, there is no reason that this should change.

### **III. Taxpayers should not foot the bill for a study that a highly subsidized industry can easily afford.**

Between 1950 and 2016, the U.S. federal government has paid \$85 billion for energy subsidies to support R&D for nuclear power.<sup>1</sup>

In 2022, the Bipartisan Infrastructure Law allocated \$6 billion to prevent existing financially struggling nuclear reactors from closing and \$900 million for the development of Generation III+ small modular reactors. The industry said that was not enough. The Build Back Better Act provided a production tax credit for existing nuclear reactors, which the Joint Committee on Taxation score estimates to be valued at \$23 billion.<sup>2</sup>

Just one year ago, the U.S. Department of Energy included in its FY2024 spending bill more than \$1.68 billion for the Office of Nuclear Energy's research and development activities. Last month, the Trump administration removed "community benefit" requirements from that funding opportunity, eliminating the provisions for community and local job creation.

The only nuclear power plant built in the United States in recent memory, the Vogtle Units 3 and 4 in Georgia, received a \$12 billion loan guarantee from the Department of Energy.<sup>3</sup>

**This is not an industry that needs more taxpayer dollars. The nuclear industry has profited from decades of federal subsidies and yet new reactors remain too expensive to finance or build. Wisconsin taxpayers should not be forced to further subsidize this uneconomic industry.**

## **Conclusion**

Using hard-earned taxpayer money and an independent state agency to promote an industry that is already receiving billions in taxpayer subsidies is unwise, unfair, and contrary to the mission of the PSCW.

---

<sup>1</sup> Two Thirds of a Century and \$1 Trillion+ U.S. Energy Analysis of Federal Expenditures for Energy Development, 1950-2016, by Management Information Services, Inc. Washington, D.C. May 2017.

<sup>2</sup> "Project Financing and Funding of Nuclear Power in the US" by David Beckstead, National Law Review, Vol. XV, number 110, Feb. 6, 2025.

<sup>3</sup> "Project Financing and Funding of Nuclear Power in the US" by David Beckstead, National Law Review, Vol. XV, number 110, Feb. 6, 2025.

The Public Service Commission's mission is to "provide fairness in transactions between utilities and their customers, other utilities, and other entities specifically provided protection by law."<sup>4</sup> As the agency that reviews applications for new energy infrastructure, the PSC should not conduct siting studies or look for 'opportunities' for any form of energy generation and certainly not for one specific type of generation over any other. It is unfair to ask Wisconsin families to foot the bill for a service that should be conducted and paid for by energy developers.

Please oppose Assembly Bill 108. If you have any questions, please contact Clean Wisconsin's government relations director Erik Kanter at [ekanter@cleanwisconsin.org](mailto:ekanter@cleanwisconsin.org).

---

<sup>4</sup> Public Service Commission of Wisconsin website, "History and Mission" accessed April 19, 2025.

## **Cardinal Glass Industries Statement in Support of Wisconsin Assembly Bills 108 and 132**

Cardinal Glass Industries supplies innovative, energy-efficient glass products for the residential window market. We have 49 locations and approximately 9,000 employees across the US, including 11 locations in Wisconsin.

Cardinal Glass supports Assembly Bill 108 which, among other things, provides for the Public Service Commission to develop and provide guidelines for advanced nuclear fission and fusion reactors, including small modular reactors and fusion energy generating technologies.

The matters addressed by the Bill are a positive step to facilitate the development of advanced nuclear energy in Wisconsin. Advanced nuclear fission and fusion reactors, including small modular reactors and fusion energy generating technologies, will advance Wisconsin's goals to improve energy grid stability and reduce carbon emissions. Advanced nuclear energy is clean, reliable and sustainable energy.

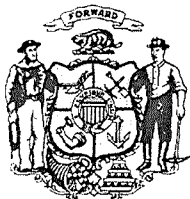
The Bill's provisions pave a way for businesses to investigate and pursue decreasing dependence on fossil fuels and lowering the carbon footprint of their operations and products using small modular reactors and fusion energy generating technologies. Advanced nuclear energy complements existing renewables like solar and wind and offers a zero-carbon energy source that enhances grid stability and supports Wisconsin's commitment to reducing emissions.

Policies that accelerate clean energy development spur economic activity, create jobs and are key to maintaining global competitiveness for companies like Cardinal Glass, which depends on consistent, high-quality energy. By providing for a study to identify sites and for guidance to be developed for advanced nuclear reactors, AB 108 advances Wisconsin's goal to encourage investment and foster innovation regarding clean energy development in Wisconsin. AB 108 aligns with Cardinal Glass's long-term environmental initiatives to reduce its carbon footprint and supports Wisconsin's broader carbon reduction goals.

Cardinal Glass also fully supports Assembly Bill 132's initiative to organize, promote and host a nuclear power summit at the new college of engineering building at the University of Wisconsin-Madison to showcase Wisconsin's leadership and innovation in the nuclear industry. AB 132 represents an opportunity to further establish the State of Wisconsin as a hub for sustainable energy development.

We urge legislators to pass Assembly Bills 108 and 132 in support of advancing the contribution of nuclear technology to Wisconsin's energy independence, stable energy grid, economic growth, and environmentally sustainability energy sources.

Thank you to the sponsoring Representatives for their leadership on this important matter.



# Public Service Commission of Wisconsin

Summer Strand, Chairperson  
Kristy Nieto, Commissioner  
Marcus Hawkins, Commissioner

4822 Madison Yards Way  
P.O. Box 7854  
Madison, WI 53707-7854

---

April 22, 2025

**RE: PSC Support of AB 108 relating to a nuclear power siting study, and AB 132 relating to the creation of a Nuclear Power Board and Summit**

Dear Chair Gundrum, Vice-Chair Neylon, and Members of the Assembly Committee on Jobs and Economy:

As the Chair of the Public Service Commission of Wisconsin (PSC), I am writing to express the agency's support of Assembly Bill 108, Assembly Bill 132, and the proposed amendments to these bills.

I commend Governor Evers and the authors —Representatives Steffen, Wittke, and Sortwell, and Senator Bradley, for their foresight and proactive engagement on these important issues. I would also like to thank the authors for soliciting PSC feedback and working with us to incorporate some minor modifications through the proposed amendments.

From the breadth of expertise and research occurring at the University of Wisconsin-Madison, to the burgeoning, Wisconsin-based fusion energy companies investing in and developing deployable uses of their innovations, our state is uniquely positioned to be a global leader in nuclear and fusion energy. These bills capitalize on that strong foundation by signaling broad support and creating exciting opportunities for in-depth study and crucial collaboration.

One of the PSC's core responsibilities is to review and consider applications for the construction and siting of energy facilities in Wisconsin. Utilities and wholesale merchant developers are required to apply for and obtain a Certificate of Public Convenience and Necessity (CPCN) for proposed large electric generation facilities, statutorily defined as 100 megawatts or more of capacity. The PSC does not mandate or direct these applicants to construct a specific type or source of energy facility, nor do we pre-judge applications. Instead, we review the record of evidence gathered, analyze it within applicable statutes and administrative rules/regulations, and render a decision. The Commission strives to ensure we are adequately prepared and informed to review applications of all types of facilities.

Currently, the Point Beach Nuclear Plant is the only operational nuclear power facility in Wisconsin. Construction on Point Beach began in 1966, and it was first placed into commercial operation in 1970. Since then, extensive research, development, and technological advancements have occurred in the nuclear and fusion energy fields. The fact that a nuclear power plant has not been constructed in Wisconsin in over 50 years illustrates the importance of AB 108's proposed undertaking of an in-depth study of nuclear power and fusion energy siting. The study would include relevant, up-to-date information to help ensure that the PSC is informed and prepared for the review of potential future nuclear power and/or fusion energy applications. The significant passage of time also highlights the need for and benefits of AB 132's proposed Nuclear Power

Page 2

Summit and Board where industry experts and policymakers can engage in robust dialogue and essential information exchange.

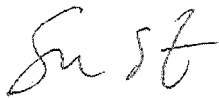
The proposed amendment to AB 108 increases the length of the siting study, enhances its scope, and maintains the existing statutory CPCN review timeline. The PSC believes these modifications set appropriate study and timing parameters that should result in a successful work product that helps guide future application proceedings. The amendment also includes language requiring the study report to include discussion and assessment of methods to streamline the process for obtaining a CPCN for an advanced nuclear reactor. Leading thorough and efficient project reviews that allow for ample and accessible public engagement opportunities is an ongoing goal of the PSC and as such, the Commission supports efforts to develop and refine process improvements on issues such as the siting of nuclear power and fusion energy.

The proposed amendment to AB 132 would add one additional non-voting member appointed by the Chairperson of the Public Service Commission to the Nuclear Power Summit Board. The PSC appreciates this expansion of the agency's involvement in the proposed Board and believes the Summit will be an asset to potential nuclear power and fusion energy development in Wisconsin.

Thank you for the opportunity to convey the PSC's support of AB 108 and AB 132 and their respective amendments. We stand ready to assist these important efforts and look forward to continuing our partnership to ensure Wisconsin is well-positioned and prepared in a dynamic energy landscape.

If you have questions about the PSC's support of AB 108 and AB 132 as amended, please contact Tanner Blair, PSC Director of Policy and Legislative Affairs, at 608-267-9859 or [tanner.blair@wisconsin.gov](mailto:tanner.blair@wisconsin.gov).

Sincerely,

A handwritten signature in cursive script, appearing to read "Su St", likely representing Summer Strand.

Summer Strand  
Chairperson  
Public Service Commission of Wisconsin

April 23, 2025



Representative Gundrum  
Chairman, Assembly Committee on Jobs and Economy  
State Capitol  
Madison, WI 53708

**SUBJECT: Support of Assembly Bills 108 and 132**

Good afternoon Chairman Gundrum and Committee Members

On behalf of Alliant Energy, we thank you for holding this important hearing today on Assembly Bills 108 and 132, which would help energize Wisconsin's commitment to expanding nuclear power in the state. We also appreciate Chairman Steffen, Chairman Bradley, and Representative Sortwell authoring these bills because of the positive impact they could have in fueling Wisconsin's economic growth for decades to come.

For those on the committee who are not familiar with Alliant Energy, we are an investor-owned utility headquartered here in Madison. We serve electricity to approximately 495,000 retail customers and transport natural gas to about 200,000 customers across Wisconsin. A mix of coal, natural gas, wind, hydro, and solar power our generation fleet. Our electric subsidiary, Wisconsin Power and Light, previously co-owned the Kewaunee nuclear plant from 1974 until 2005 when it was sold to Dominion Resources. Dominion began decommissioning the plant in 2013.

As you know, AB 132 establishes the Wisconsin Nuclear Power Summit Board that will be charged with organizing and promoting a Nuclear Power Summit in Wisconsin. Bringing a diverse group of organizations and professionals together is important to build the vast network of experts we need to bring the next generation of reactors here to reality. Overall, we believe the summit will be an excellent opportunity to showcase Wisconsin's leadership and innovation in the nuclear industry – for both fusion and fission energy.

Wisconsin must be prepared to meet the soaring energy demands driven by data centers and other energy-intensive economic development opportunities. AB 108 is a bipartisan proposal that will help identify suitable locations for future nuclear generation to help utilities meet the energy demands of these companies while also keeping our state's energy safe, reliable, and affordable for *all* customers.

In closing, the adoption of advanced nuclear generation and related technologies will not happen overnight. Passing AB 108 and AB 132 are wise first steps in creating a cleaner energy future for Wisconsin that will also help attract companies, scientists, and skilled workers. Alliant Energy is pleased to support these bills and we look forward to working with you on other initiatives that will help advance carbon-free nuclear energy and other new resources in the state.

Thank you, Chairman Gundrum for holding this hearing today and to rest of Committee members for your attention on these important bills.

**Zack A. Hill, Sr. Manager Public and Community Affairs for Alliant Energy**



1414 W. Hamilton Ave  
P.O. Box 8  
Eau Claire, WI 54702-0008  
Telephone (800) 895-4999

April 23, 2025

Representative Gundrum  
Chair, Committee on Jobs and Economy

Committee on Jobs and Economy Members:

Northern States Power Company, a Wisconsin corporation and wholly owned subsidiary of Xcel Energy ("the Company" or "NSPW"), provides the following comments in support of Assembly Bill (AB) 108 and AB 132 establishing a nuclear power siting study and hosting a Wisconsin nuclear power summit.

Xcel Energy is the owner and operator of two 1970s vintage nuclear facilities providing customers in Wisconsin, Michigan, Minnesota, North Dakota, and South Dakota with low-cost, 24/7 always available, and reliable power. The Prairie Island and Monticello Nuclear Plants located in Minnesota provide 1,771 MW of power, enough to power the equivalent of over 1.5 million homes annually. The plants provide significant employment opportunities with a total of 1,100 employees during normal operations, an additional 1,800 employees during refueling, and supporting a total of 6,100 jobs economy wide. In total, the plants provide \$1 billion annually in benefits to the local economies. Lastly, the plants are the largest source of carbon-free energy in the Xcel Energy generation portfolio.

The future of the electricity industry is changing and demand for electricity is expanding. Customers are increasingly choosing to electrify their homes, businesses, and transportation. Significant growth in the demand for electricity is also expected due to the emergence of data centers and artificial intelligence. At the same time, the demand from customers and policymakers to reduce carbon emissions remain strong. In large part due to the nuclear plants at Prairie Island and Monticello, Xcel Energy is well positioned to meet customer demands.

Xcel Energy's maintains that an all-of-the-above strategy for generating electricity is needed during this unprecedented growth in electricity demand and changing generation mix. With advances in nuclear technology an all-of-the-above strategy should include nuclear. Removing barriers to development and planning new nuclear plants is also important. Xcel Energy is supportive of AB 108 and AB 132 as they directly address a key barrier to developing new nuclear generation – working with communities that are supportive of hosting new nuclear plants to evaluate the feasibility of potential sites.

Xcel Energy appreciates the efforts of the State of Wisconsin to remove barriers to new nuclear generation and is supportive of AB 108 and AB 132. Please direct any questions to Matt Pagel at 608-280-7333 or [Matthew.E.Pagel@XcelEnergy.com](mailto:Matthew.E.Pagel@XcelEnergy.com).

Sincerely,

A handwritten signature in black ink that reads 'Tyrel Zich'.

Tyrel Zich  
Regional Vice President of Regulatory Policy



# XCEL ENERGY'S CURRENT NUCLEAR FLEET



# State of the Nuclear Industry in the US

94 operating  
reactors at 54  
plants across the  
country

18.5% of US  
electricity  
production in 2024

Almost 50% of  
US emission-free  
electricity  
generation in 2024

Over 92% capacity  
factor

~\$31 MWh  
industry average  
generating cost

New Vogtle Units 3  
and 4 online in  
2023/2024

# Xcel Energy Nuclear Generating Fleet

*Over five decades of carbon free power*

## Prairie Island Nuclear Plant



- 2 Pressurized water reactors
- Unit 1 (1973); Unit 2 (1974)
- Licensed through 2033/2034
- Pending extension to 2053
- 1,100 MW
- 800 Employees; 1,000 more during refueling

## Monticello Nuclear Plant



- 1 Boiling water reactor (1971)
- Licensed through 2050
- 671 MW
- 650 employees; 800 more during refueling

# Benefits of Nuclear Power



**Clean**

**Nuclear provides more than 1,700 MW of clean energy**



**Economic**

**Nuclear provides \$1B to the local economy**



**Reliable**

**Nuclear is always on 24/7 - regardless of the weather. Can flexibly operate.**



**Safe**

**Nuclear is highly regulated and secured**

# Community Involvement

- Monticello and Prairie Island nuclear plants pay significant local taxes, and generate a billion dollars in local economic activity/yr
- The plants support over 1000 jobs directly and supports nearly 2,000 jobs indirectly
- Monticello and Prairie Island are the largest sources of carbon-free energy in Minnesota
- Nuclear employees contribute significantly to the local United Way, and are personally involved in the community

## Economic Impact of Xcel Energy's Nuclear Fleet (Monticello and Prairie Island)

**\$1 billion**

Our plants add \$1 billion to the Minnesota economy each year

**6,100**

Supports 6,100 Minnesota jobs

**\$146 million**

Generates \$146 million in local, state and federal taxes each year

**\$1 spent ▶ \$2**

Each \$1 spent at a plant generates \$2 in economic output

**\$237 million**

Generates \$237 million in disposable personal income each year



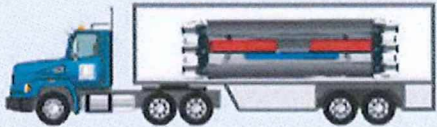
# Advanced Nuclear




# Advanced Nuclear Reactors Vary in Size

## Advanced Reactor Sizes

*Microreactors*  
*Range: 1 MW to 20 MW*  
Can fit on a flatbed truck, and are mobile and deployable.



*Small Modular Reactors*  
*Range: 20 MW to 300 MW*  
Can be scaled up or down by adding more units.



*Full-Size Reactors Range:*  
*300 MW to 1,000+MW*  
Can provide reliable, emissions-free baseload power.



*MW refers to one million watts of electricity.*

Image from U.S. Department of Energy Office of Nuclear Energy – Advanced Reactor Technology Development Fact Sheet:  
<https://www.energy.gov/ne/articles/advanced-reactor-technology-development-fact-sheet>

# Advanced Nuclear Tech Overview

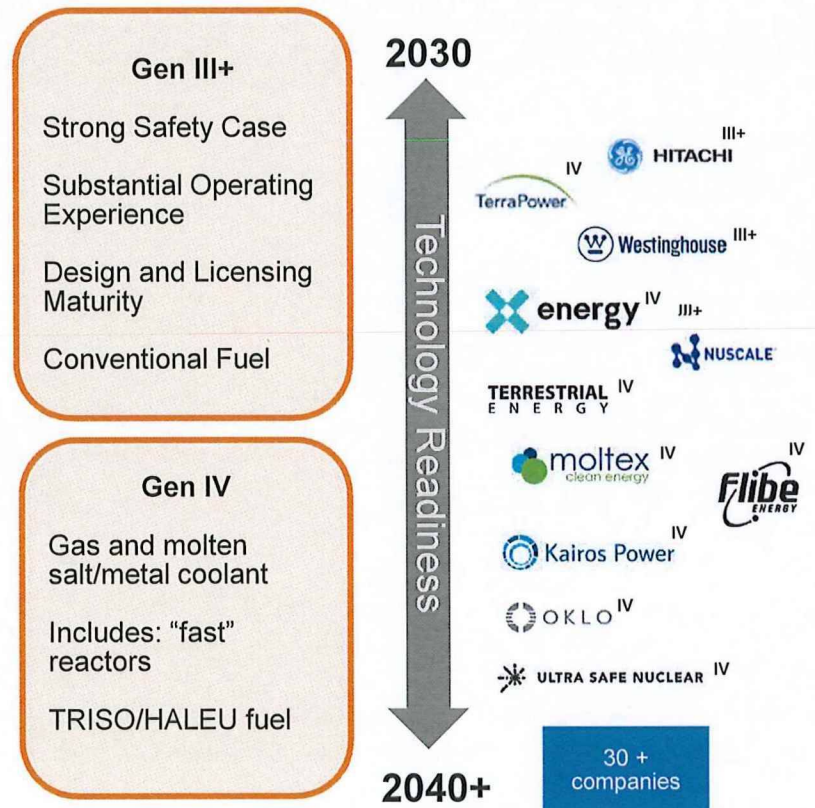
## Small Modular Nuclear Reactors (SMRs)

### Zero-Carbon Dispatchable Base Load

- SMRs: Modular fission reactors generally 50 to 300 MW
- Strong federal support:
- GE BWRX-300 under construction in Canada
- TerraPower, and X-Energy in varying stages of pilot projects
- Project development, licensing and construction timeline estimated at 10-14 years
- Micro Reactors: Factory-built, 1-20 MW, very small footprint

#### Considerations:

- Fuel, supply chain, licensing



#### Micro Reactors (< 20MW)



Oklo (shown)  
Approximately a dozen in development

#### LWR SMRs <300MW

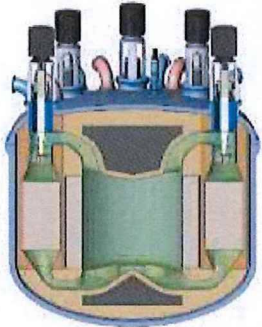


NuScale (shown)  
GEH X-300  
Holtec SMR-160

# DOE Advanced Reactor Demonstrations

**Reactor demonstrations** expected to result in a fully functional advanced nuclear reactor.

## Two designs funded by DOE

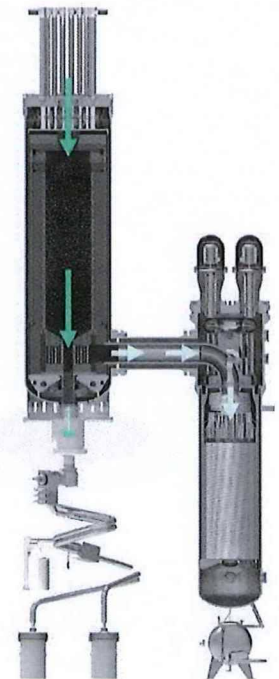


### TerraPower Natrium

- Sodium cooled fast reactor, combined with thermal storage
- Pilot location in Kemmerer, Wyoming. It is coal to nuclear conversion.
- April 2024 – TerraPower submits Construction Permit application to NRC
- Construction in progress – expect to be operational by 2030

### X-Energy Xe-100

- Four, 80 MWe High temperature gas reactors
- Working with Dow Chemical on Pilot
- 4-unit 320 MWe plant
- Construction expected to begin in 2026
- March 2024 – opened training center for future operators of Xe-100



# Challenges of Advanced Nuclear Generation

**Risk factors to consider in evaluating new nuclear technologies**



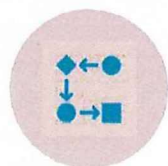
Cost



Licensing /  
Regulatory Risk



Construction  
Risk



Supply Chain



Fuel Supply



Spent Fuel

