

Pathways for New Nuclear Development: A Workshop

January 29-30, 2025

**National Academy of Sciences Building
Lecture Room**

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Pathways for New Nuclear Development: A Workshop

Statement of Task

An ad hoc planning committee of the National Academies of Science, Engineering, and Medicine will organize and host a two-day workshop to explore the real and perceived barriers to new nuclear development and strategies that might motivate owner/operators to plan and build new nuclear projects. Participants will focus on three main themes:

- **Technology Choices**. If nuclear power is being considered for a project, how does technology choice affect financial risk (i.e. pursuing advanced reactor designs over existing light water reactor designs)? What are the costs and benefits of pursuing nuclear power in non-traditional (off-grid) deployment scenarios, such as co-locating a reactor with a secondary facility (e.g. providing power to a data center, or for industrial uses)?
- **Willingness and Community Support**. What approaches are needed to obtain support for new nuclear deployment and to stimulate “first-movers”? What are the key financial constraints and risks? How could future owner/operators and community-led stakeholder organizations work together to support new nuclear projects?
- **Regulatory Reform**. What is the status of the Nuclear Regulatory Commission’s Part 53 framework? What would comprise regulatory certainty for potential future owner/operators?

Pathways for New Nuclear Development Workshop Planning Committee Member Biographies



David Petti, *chair*

Dr. David Petti is a graduate of the MIT Nuclear Engineering Department and has been recognized as a Fellow at both Idaho National Laboratory and the American Nuclear Society. He recently retired from the Idaho National Laboratory after 35 years of experience in nuclear technology for both fission and fusion systems. He was the director of the Nuclear Fuels and Materials Division at INL and was also the Nuclear Science and Technology Directorate's chief scientist. Most recently, he was the Executive Director of MIT's study entitled The Future of Nuclear Energy in a Carbon-constrained World. He is currently a member of the Nuclear Regulatory Commission's Advisory Committee on Reactor Safeguards and a Senior Editor for the Journal of Nuclear Materials. He was elected to be a member of the National Academy of Engineering in 2022.



Steven Arndt, University of Tennessee

Steven Arndt currently serves as an Adjunct Professor of Nuclear Engineering at the University of Tennessee. Previously he spent 4 years as a Distinguished R &D staff member at Oak Ridge National Laboratory where his research involves advanced reactor design readiness and 31 years as a senior scientist and manager at the Nuclear Regulatory Commission (NRC), leading key research efforts in the areas of digital instrumentation and control, software reliability, emergency response, and severe accident analysis. Prior to his work at the NRC, Dr. Arndt was a Professor at the U.S. Naval Academy. Dr. Arndt holds a B.S. in engineering physics and a M.S. and Ph.D. in nuclear engineering all from The Ohio State University, where he was honored by the faculty of the College of Engineering in 2004 as a Distinguished Alumnus. Dr. Arndt also holds an M.S. in reliability engineering from the University of Maryland. Dr. Arndt is a Fellow of the American Society of Mechanical Engineers (ASME), the American Nuclear Society (ANS), the Association for the Advancement of Science (AAAS), the American Society for Quality (ASQ) and the National Society of Professional Engineers (NSPE). Dr. Arndt has served in leadership roles in several professional societies. He was the 68th President of ANS.

**Kara Colton, Kaco Group, LLC**

For over 18 years, Ms. Colton served as the Director of Nuclear Policy at the Energy Communities Alliance (ECA), the national non-profit organization of local governments impacted by Department of Energy (DOE) activities. Now, she continues in the same capacity through her own entity, Kaco Group, LLC, providing strategic input on the activities of the organization on nuclear energy issues including research and development of new nuclear technologies, waste classification, recycling, interim storage, nuclear

workforce development, siting nuclear facilities and high-level waste management. She is also the co-author of *A Community Handbook on Nuclear Energy: Understanding Nuclear Energy and Alternatives for the Future*, a publication aimed at helping local communities identify and understand the myriad of issues associated with hosting a nuclear facility and the role they can play in its development. Prior to joining ECA, Ms. Colton was the Program Director of the Energy and Environment Division at the National Governors Association's Center for Best Practices. Her responsibilities included working with Governors' designees and DOE to ensure the responsible cleanup of federal nuclear facilities, to highlight and encourage successful state strategies for encouraging energy efficiency and renewable energy resources, transmission siting and regional energy planning.

**Laura Hermann, Potentiary**

Laura Hermann is a change management strategist with global energy infrastructure systems expertise. Her background relates to technology adoption and supply chain development. She works across public-private partnerships to facilitate investment, systems change and market creation. As an advisor to investors and their portfolio companies, Laura helps navigate necessary activities related to technology transfer, stakeholder engagement, and market definition. She develops curricula and advises

national leaders on efforts in numerous countries to establish new civilian nuclear programs. She is a consulting expert at the International Atomic Energy Agency, MIT's Center for Advanced Nuclear Studies and a twenty-year member of the American Nuclear Society. Laura has facilitated planning exercises to help small and mid-sized companies in international joint venture formation, supporting investor relations and social licensing efforts. She designed and implemented crisis response programs for multiple entities and has recruited and coached subject matter experts to explain complex science to non-technical audiences. Her across numerous jurisdictions has tailored evidence-based approaches to improving outcomes related to regulatory conflict, environmental clean-up and armed conflict. She studied anthropology and organizational behavior at Loyola University Chicago and received a Masters in Science at Northwestern University. She is an associate at Rock Lake Advisors and sits on the board of the Billy Fiske Foundation.



Julie Kozeracki, U.S. Department of Energy – Loan Programs Office

Julie Kozeracki is the Director of Strategy for the United States Department of Energy Loan Programs Office, which provides attractive debt financing for high-impact, large-scale clean energy infrastructure projects. LPO has provided loan guarantees to Vogtle, the first new start-to-finish commercial nuclear reactors constructed in the US in 35 years, and to Palisades, which would be the first restart of a closed nuclear power plant in the US. She leads the cross-DOE effort on Advanced Nuclear Pathways to Commercial Liftoff, serving as lead author of the Nuclear Liftoff Report, which identifies pathways for tripling US nuclear capacity by 2050. Prior to DOE, she was a Principal with the Boston Consulting Group, where she was a leader in the firm's federal and operations practices. She holds a BS in Economics from the Wharton School and a BA in Cognitive Neuroscience from the University of Pennsylvania.



Adam Stein, Breakthrough Institute

Dr. Adam Stein is the Director of the Nuclear Energy Innovation program at the Breakthrough Institute. His current focus is on evidence-based research to find innovative solutions to nuclear energy's technology, policy, risk, and economics. He also studies complex interdisciplinary systems and decision-making in risk, resilience, and clean energy systems. He has spent almost twenty years in the energy sector as an engineer, researcher, and consultant, working with every major energy source over that time. He earned a Ph.D. and M.S. in Engineering and Public Policy from Carnegie Mellon University, an MBA, and degrees in Mechanical Engineering and Nuclear Engineering.



Aditi Verma, University of Michigan

Aditi Verma (she/her) is an Assistant Professor in the Department of Nuclear Engineering and Radiological Sciences at the University of Michigan. She was previously a Stanton Nuclear Security Postdoctoral Fellow at the Harvard Kennedy School's Belfer Center for Science and International Affairs. Prior to her appointment at the Belfer Center, Aditi worked at the OECD Nuclear Energy Agency. Aditi is broadly interested in how nuclear energy systems and their institutional infrastructures can be designed in more creative, participatory, and inclusive of lay perspectives. To this end, her research group at the University of Michigan works towards developing a more fundamental understanding of the early stages of the design process to improve design practice and pedagogy, and also improve the tools with which designers of complex sociotechnical systems work. In her position at the OECD NEA, Aditi's work, endorsed and funded by policymakers from the NEA member countries, focused on bringing epistemologies from the humanities and social sciences to academic and practitioner nuclear engineering, thus broadening their epistemic core. At the NEA, Aditi also led the establishment of the Global Forum on Nuclear Education, Science, Technology, and Policy. Aditi holds undergraduate and doctoral degrees in Nuclear Science and Engineering from MIT.

Pathways for New Nuclear Development

A Workshop



The recent completion of Plant Vogtle, the largest nuclear energy plant in the United States, has sparked new opportunities for building next-generation nuclear reactors to produce reliable, clean energy. However, significant barriers remain to nuclear deployment, including technical challenges, regulatory hurdles, and investment risks that complicate decision-making timelines. Building on recommendations from the consensus report, [*Laying the Foundation for New and Advanced Nuclear Reactors in the United States*](#), this workshop seeks to explore pathways for new nuclear development in the United States. The event will facilitate in-depth discussions among policymakers, regulators, community leaders, and technical experts regarding the challenges of deploying nuclear power, including ways to improve construction, financing, decision-making, and public engagement.

WEDNESDAY, JANUARY 29, 2025

- Objectives**
- Determine the readiness of new nuclear designs and of the nuclear ecosystem to enable and support new deployment at scale
 - Better understand the challenges surrounding construction of new nuclear power plants and how to develop resilient and agile supply chains necessary to support deployment
 - Better understand the market for the range of nuclear reactor technologies and end user expectations of nuclear energy deployment to meet their needs
 - Explore efforts to improve options for sustained financial backing that will alleviate risks of abandonment, regulatory complications, and public perception
 - Consider how existing host communities are already supporting advanced nuclear projects and how partnerships drive alignment, address risks, and ensure shared benefits for all

8:00 AM¹ BREAKFAST

9:00 AM Welcome and Opening Remarks

Kasia Kornecki, National Academies Board on Energy and Environmental Systems
David Petti, *Workshop Planning Committee Chair*

¹ All times in ET

9:10 AM Laying the Foundation for New and Advanced Nuclear

The National Academies' report [Laying the Foundation for New and Advanced Nuclear Reactors in the United States](#) (2023) identified how the United States could support the successful commercialization of advanced nuclear reactors through a set of near-term policies and practices. The report included recommendations to close technology research gaps; improve project management and construction; explore new business use cases; develop competitive financing options; prioritize community engagement; strengthen the skilled workforce; and update regulations and security requirements. To set some context, the chair of this study, Dr. Richard A. Meserve, will reflect on the changing landscape nearly two years after the report's publication.

9:20 AM Technical Challenges to Deployment

The White House's report [Safely and Responsibly Expanding U.S. Nuclear Energy: Deployment Targets and a Framework for Action](#) (2024) "outline[d] pathways to responsibly expand domestic nuclear energy production," including action that "adhere[s] to the highest safety, security, nonproliferation, and environmental protection standards." This session will facilitate a discussion between authors of the National Academies and White House reports to elevate the important challenges to nuclear deployment and assess if the nuclear energy ecosystem is prepared to support new deployment at scale. An interview-style discussion will identify the challenges any new nuclear development will face in the current landscape and what solutions can be implemented in the future.

Moderator: David Petti, *Planning Committee Chair*

Panel:

- Jonathan Barr, (former) White House Office of Science and Technology Policy
- Michael Corradini, University of Wisconsin
- Richard A. Meserve, Covington & Burling LLP

10:00 AM Construction Timelines

Unforeseen technical challenges, adequate workforce, regulatory hurdles, capital costs, and supply chain bottlenecks are all barriers that have led to delays in construction, especially for first-of-a-kind facilities. This session will address construction timeline risk, optimism bias, management, ownership, and what is needed for nuclear plant construction to stay on time and budget. Panelists will speak to recent experiences in recent Advanced Passive 1000 (AP1000) Vogtle 3 and 4 builds and supply chain experience in naval nuclear systems to raise awareness of the challenges surrounding the construction of new nuclear power plants, including the magnitude of the human capital necessary to meet 200 gigawatts of nuclear power by 2050. A moderated discussion will highlight potential solutions to develop resilient and agile supply chains and minimize construction costs, schedule overruns, and supply chain issues. A Q&A session with the audience will follow.

Moderator: Aditi Verma, University of Michigan

Panel:

- Abdalla Abou-Jaoude, Idaho National Laboratory
- Barry Fletcher, Newport News Shipbuilding (retired)
- Erik Nygaard, BWXT Advanced Technologies, LLC
- Giorgio Locatelli, Politecnico di Milano
- Stephen Kuczynski, The Nuclear Company

11:40 AM End User Timelines and Decision-making

From traditional light water reactors (LWRs) to advanced small modular reactors (SMRs), each technology type has different benefits and risks. Selecting the most suitable technology will depend on the end user and how they value different technology attributes. This session will explore the market for the range of nuclear reactor technologies and end-user expectations of nuclear energy deployment. A moderated discussion will highlight early movers' challenges and needs to overcome. A Q&A session with the audience will follow.

Moderator: Laura Hermann, Potentiary

Panel:

- Chad Eaton, Nucor Corporation
- Chris Nolan, Duke Energy
- Faraz Ahmad, Amazon
- Lucia Tian, Google
- Wayne Blaylock, Dow Chemical Company

1:10 PM LUNCH

2:10 PM Financing Timelines

Financing—whether looking for long-term revenue or facilitating ways for investors to recover costs during construction—has been a focal point for capital-intensive nuclear plants for many years. This session will explore efforts to improve options for sustained financial backing that will alleviate risks of abandonments, regulatory complications, and public perception. Panelists will introduce how today’s timeline for scaled deployment reflects thoughtful types of contracts shaping investment strategies. A moderated discussion will elevate essential mechanisms for attracting diverse investors with distinct risk profiles and incentives for their nuclear pursuits. A Q&A session with the audience will follow.

Moderator: Julie Kozeracki, U.S. Department of Energy – Loan Programs Office

Panel:

- Aaron Abramovitz, Georgia Power
- Allen Otto, Guggenheim Partners
- James Krellenstein, Alva Energy
- Ryan Nielson, Citi
- Stephen Comello, Energy Futures Initiative Foundation

3:50 PM Host Community Perspectives

Building trust around new nuclear energy projects and aligning consent across multiple scales of community are key for success, particularly since nuclear energy technologies built over the next decades may be smaller, have many potential use cases, and may be sited in much greater proximity to communities. Host communities must be engaged early and often by project developers and state policymakers to ensure they are informed of and can communicate clearly on safety, security risks, and long-term socioeconomic, environmental, and aesthetic impacts. This session will consider how existing host communities support advanced nuclear projects and work with state, Tribal, and regional partners to drive alignment, address risks, and ensure shared benefits for all parties. A Q&A session with the audience will follow.

Moderator: Kara Colton, Kaco Group, LLC

Panel:

- Christi Bell, University of Alaska
- Diahann Howard, Port of Benton
- Jesus Núñez, The Nuclear Alternative Project
- Richard Arnold, Consolidated Group of Tribes and Organizations
- Tracy Boatner, East Tennessee Economic Council

5:20 PM Closing Remarks

5:25 PM ADJOURN DAY 1

5:30 PM RECEPTION

THURSDAY, JANUARY 30, 2025

- Objectives**
- Determine what needs to be changed in order to expand the nuclear workforce
 - Explore the changing regulatory landscape and how it impacts near-term and subsequent deployments of new nuclear reactors
 - Summarize the workshop and identify overarching themes, challenges, and solutions from each session

8:00 AM BREAKFAST

9:00 AM Welcome and Opening Remarks

Kasia Kornecki, National Academies Board on Energy and Environmental Systems

9:10 AM Workforce Development Considerations

Over the last 30 years, workforce development in the energy sector has evolved from a localized employer-driven effort to a broad, multi-stakeholder collaboration. New energy realities demand innovative approaches to nuclear employment. This session will elevate why and how certification and reskilling programs must pace themselves with advances in everything from predictive maintenance and energy management to new manufacturing and construction techniques to achieve a seamless transition. A moderated discussion will focus on how policy frameworks, in parallel with partnerships that enable the development of scalable strategies benefiting energy companies, labor organizations, and the communities they serve, can accelerate the transition. A Q&A session with the audience will follow.

Moderator: Steven Arndt, University of Tennessee

Panel:

- Lisa Marshall, American Nuclear Society & North Carolina State University
- Matthew Warren, International Brotherhood of Electrical Workers
- Nickolas Bumpaous, UA Local Union 598 - Plumbers and Steamfitters
- Olivia Blackmon, Oak Ridge Associated Universities
- Trevor Falk, North America's Building Trades Unions

10:50 AM The Elements of Regulatory Risk

Regulation is often used as a scapegoat for time and budget deviations, but work is being done to improve regulatory efficiency. This session will explore how the Nuclear Regulatory Commission (NRC) is implementing the Accelerating Deployment of Versatile, Advanced Nuclear for Clean Energy (ADVANCE) Act (2024), how they are preparing for the early non-LWR license applications, and what remains to be done. A moderated panel discussion will explore the changing regulatory landscape and the expected near-term impacts on the deployment of new nuclear reactors. A Q&A session with the audience will follow.

Moderator: Adam Stein, Breakthrough Institute

Panel:

- Marcus Nichol, Nuclear Energy Institute
- Mark Shaver, NuScale Power
- Michael King, U.S. Nuclear Regulatory Commission
- Peter Hastings, Kairos Power LLC

12:30 PM Workshop Summary

This concluding session will take a solutions-based approach to the nuclear development challenges raised throughout the workshop. Members of the workshop planning committee will discuss their perspectives on the discussions and the role of key stakeholders in contributing to the solution space.

Panel:

- David Petti, *Workshop Planning Committee Chair*
- Aditi Verma, University of Michigan
- Laura Hermann, Potentiary
- Julie Kozeracki, U.S. Department of Energy – Loan Programs Office
- Kara Colton, Kaco Group, LLC
- Steven Arndt, University of Tennessee
- Adam Stein, Breakthrough Institute

1:50 PM Closing Remarks

Kasia Kornecki, National Academies Board on Energy and Environmental Systems

2:00 PM WORKSHOP ADJOURNS

2:15 PM LUNCHEON

Pathways for New Nuclear Development Workshop Workshop Speaker Biographies



Aaron Abramovitz, Georgia Power

Aaron Abramovitz currently serves as the executive vice president, chief financial officer and treasurer for Georgia Power. In this role, he oversees all the accounting and finance functions of the company including financial reporting, regulatory accounting, financial planning, analysis, and enterprise risk management, as well as pricing and planning. He also serves on the company's management council. Prior to his current role, he served as Southern Nuclear's vice president of business operations leading project controls, risk management, budgeting and reporting, and commercial analysis and controls for Vogtle Units 3 & 4. He has over 20 years of Southern Company experience in project governance, financial markets, regulatory matters and other functions. Abramovitz began his career at Southern Company Services in 2002, supporting financial strategy and decision support. From there, he held a series of positions at several Southern Company subsidiaries in the areas of financial analysis, financial planning, project management and forestry and right of way. He also served as director of Investor Relations for Southern Company, working to enhance Southern Company's value proposition within the financial markets, while fostering effective two-way communication between the investment community and the company's leadership. In addition, he provided leadership in building and improving Southern Company's shareholder outreach efforts when environmental, social, governance and sustainability were becoming areas of increased focus for the investment community and company stakeholders. He serves on the boards of the Atlanta Neighborhood Development Partnership, Inc. and Georgia Power Company Foundation, and is a member of the board of trustees for the Leukemia Lymphoma Society Georgia-South Carolina region. He is also the executive sponsor for both Georgia Power's Wellbeing Champion Network and the company's Hispanic/Latino employee resource group, Amigos. He earned a bachelor's degree in business administration with majors in finance and management information systems from the University of Georgia.



Abdalla Abou-Jaoude, Idaho National Laboratory

Dr. Abdalla Abou-Jaoude is a recognized authority on advanced reactor technology, holding a pivotal role at Idaho National Lab (INL). He is currently leading the 'MARVEL' reactor, the first Department of Energy (DOE) advanced reactor demonstration effort in four decades. This microreactor is expected to lay the foundation for future commercial deployment. Prior to that, he served as the deputy national technical director of the DOE Systems Analysis & Integration (SA&I) program. In that role he co-led a large campaign spread across six national labs that addresses system-wide, socioeconomics, and cost/schedule topics relating to nuclear technology. Previously Abdalla was the Advanced Reactor Research Integrator with a broad research portfolio across 7 DOE programs on topics stemming from molten salt technology, nuclear technoeconomics, and multiphysics simulation. He most notably led a first-of-a-kind fueled salt irradiation experiment. He earned his PhD degree from Georgia Tech and his master's in engineering from Imperial College London.

Allen Otto, Guggenheim Partners

Allen Otto is a seasoned professional in investment banking with extensive experience in the power, energy, and renewables sectors. Currently serving as Managing Director at Guggenheim Partners since June 2015, Allen previously held the position of Director in Mergers and Acquisitions at The Blackstone Group from June 2007 to June 2015. Prior roles include Manager of Mergers & Acquisitions at Direct Energy / Centrica North America and Manager of Finance at Sirius Satellite Radio Inc. Allen began a career at Bear, Stearns & Co. Inc. as a Financial Analyst. Academic credentials include a B.A. in Physics from Hamilton College, earned between 1995 and 1999.



Barry Fletcher, Newport News Shipbuilding (retired)

Barry Fletcher is retired vice president of nuclear engineering at Newport News Shipbuilding. As vice president, Barry was responsible for new construction and overhaul nuclear engineering, production trades involved with reactor fuel handling, radiation health, emergency response planning. Barry worked in the US Naval nuclear program for 38 years, from 1979 to 2017. Since retirement, Barry has been a consultant for NuScale Power and currently chairs the NuScale Technical Advisory Board. Barry also assisted American Bureau of Shipping in the preparation of the recently issued

“Nuclear Power Systems for Marine and Offshore Applications”.



Chad Eaton, Nucor

Chad Eaton is Director of Government Affairs at Nucor Corporation. In his position, Chad oversees implementation of Nucor’s public affairs policies and leads the company’s energy and environmental public policy efforts as the largest recycler in North America. Chad also manages Nucor Corporation’s relationship with multiple State Legislative Associations, as well as its third party business and industry associations at the state level. Chad joined Nucor in February 2017 as the company’s State Government Affairs Manager, advocating the corporation’s policies and legislation

impacting Nucor’s more than 32,000 teammates and 300 locations at the state and local level. In November 2020, Chad was promoted to his current role of Director of Government Affairs. Prior to joining Nucor, Chad was Manager of Federal Government Affairs at Duke Energy Corporation. He also previously served as Director of Public Affairs in the Office of U.S. Representative Heath Shuler, and has held associate pastor positions in Baptist churches in North and South Carolina, and Alabama. Chad graduated with a Bachelor of Science degree from Samford University.



Chris Nolan, Duke Energy

M. Christopher Nolan, PE, has served Duke Energy for 18 years, assuming his role as vice president of new nuclear generation strategy and regulatory engagement in 2022. In this role, he is responsible for planning for advanced nuclear generation development to support the company's transition to net-zero carbon emissions. Previously, Nolan served as vice president of regulatory affairs, policy and emergency preparedness, where he was responsible for these programs for nuclear generation. He also worked as a licensing manager in nuclear plant development, where he was responsible for managing licensing, site characterization and project development activities for new nuclear interests in Duke Energy's Carolinas and Midwest service territories. Nolan started his career at the Knolls Atomic Power Laboratory in the naval nuclear propulsion plant program for General Electric Company. He also worked as a senior design engineer at Calvert Cliffs Nuclear Power Plant for nine years prior to working at the U.S. Nuclear Regulatory Commission (NRC) for nine years. At the NRC, Nolan held positions of increasing responsibility in the Office of Nuclear Reactor Regulation, Office of Nuclear Security and Incident Response and Office of Enforcement. He was the chief of the New Reactors Environmental Projects Branch in the Office of Nuclear Reactor Regulation when he joined Duke Energy in 2006. A native of Garret Park, Md., Nolan is a graduate of the University of Maryland, earning a Bachelor of Science degree in mechanical engineering and a Master of Science degree in engineering management. He is also a registered professional engineer (PE) in the commonwealth of Virginia.



Christi Bell, University of Alaska – Anchorage

Ms. Christi Bell is Associate Vice Chancellor and Executive Director of the University of Alaska Anchorage, Business Enterprise Institute. Christi is a seasoned economic and energy development leader with over three decades of experience empowering communities through innovative solutions. As a founding member of the Idaho National Laboratory's (INL) Emerging Energy Market Analysis (EMA), Christi has been instrumental in advancing pathways for deploying advanced nuclear technologies. Her work supports energy resilience in remote, industrial, and Arctic settings, bridging research with actionable strategies. Christi oversees a portfolio of programs, including the Alaska SBDC, MEP, Cooperative Development Center, Center for Economic Development, and APEX Accelerator. Under her leadership, these initiatives address Alaska's unique challenges while fostering economic growth and community resiliency. With master's degrees in Natural Resources Management and Business Administration, Christi's expertise spans advanced energy systems, strategic planning, and stakeholder collaboration. She has contributed to the INL Frontiers Initiative, focusing on energy innovation for Alaska, Wyoming, Utah, and Idaho. Christi is a respected advocate for sustainable development, and her work emphasizes the integration of advanced nuclear technologies to address global energy needs.



Diahann Howard, Port of Benton

Diahann Howard was named Port of Benton's executive director in December 2019. Howard previously served as the Port of Benton's director of economic development and governmental affairs. Before joining the Port in 2006, she was the economic development manager for the City of Richland. Howard earned a Professional Port Manager (PPM®) certification in 2019 and was named a Port Professional Executive (PPX®) by the American Association of Ports in 2023. During her 19 years at Port of Benton, Howard's efforts have resulted in over \$28.2 million in grant and legislative funding. Additionally, under her leadership, the Port administers the VERTical Innovation Cluster. VERTical is working with industry to solve supply chain, workforce and other challenges to accelerate the deployment of next-generation nuclear energy. Howard currently serves on the Washington State Community Aviation Revitalization Board, Eastern Washington University President Advisory Board and others. In 2018, she was appointed to the U.S. Department of Energy's Environmental Management Advisory Board to provide expert advice on intergovernmental and stakeholder engagement, contracting, management, large project planning and risk assessment. Previously, she served as the Richland Rotary president from 2017 to 2018 and was named Rotarian of the Year in 2012. Howard is a native of Tri-Cities, Washington, and holds a Bachelor of Science in International Affairs from Eastern Washington University. She is the first female to hold the Port of Benton executive director position and the first executive director with Latina heritage among the 75 port districts within Washington state.



Erik Nygaard, BWXT Advanced Technologies, LLC

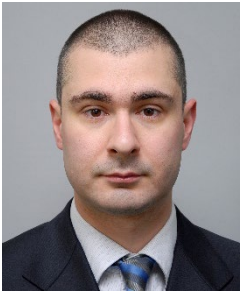
Erik Nygaard is the director of Product Development for BWXT Advanced Technologies, LLC, a subsidiary of BWX Technologies, Inc. (BWXT), which is the sole manufacturer of nuclear reactors for the U.S. Navy. Mr. Nygaard is responsible for the development of new products for Advanced Technologies, LLC, which includes commercial microreactors, data science technologies, and advanced manufacturing techniques. The products being developed by Mr. Nygaard's organization include the company's 50 MWth commercial microreactor- BANR. Previously, he served as the director of Research and Engineering leading the organization's design and technology development efforts for customers like NASA and the Department of Defense. Additionally, he previously served as the Director of Isotope Research and Development, overseeing the development of the company's groundbreaking medical isotope technology. Mr. Nygaard has also served BWXT as the product line manager responsible for the development of isotope technology, a nuclear engineer in the company's Advance Reactors and Engineering group and a safety analysis engineer and test engineer for mPower™, BWXT's Generation III++ small modular reactor project. He holds three U.S. patents and two pending for propriety technologies associated with the medical isotope production. Mr. Nygaard holds a bachelor's and master's degree in nuclear engineering from the University of Wisconsin–Madison where he was licensed by the U.S. Nuclear Regulatory Commission as a student operator.



Faraz Ahmad, Amazon

Faraz Ahmad is in Amazon's Global Clean Energy team, the center of excellence covering all of Amazon's businesses globally with the mission to ensure accessible, affordable and sustainable power for Amazon's global operations. Faraz is Head of Net Zero Electricity and focuses on Amazon's Net Zero Electricity approach and on strategy and implementation for Amazon's portfolio. In 2019, Amazon made its Climate Pledge to be net zero across all scopes by 2040. Amazon has now been the world's largest corporate buyer of renewable electricity for five consecutive years.

Previously, Faraz was Head of Strategy, Business Development and M&A for NextEra Energy's Retail division which serves residential, commercial and industrial energy users across the US. In this role, Faraz was responsible for driving strategy and profitable growth (increased operating income by ~3x), evaluating all venture capital investments and executing all acquisition transactions. During his tenure, he oversaw NextEra launch of business ventures in home energy optimization and expansion into energy consulting. His prior professional experience consists of a senior role with General Electric, a management consultant role at Boston Consulting, and engineering roles at British Nuclear Fuels, bp plc and Cambridge Silicon Radio plc. Faraz was selected by the World Energy Council, Future Energy Leaders program 2017 as one of the top energy professionals in the world. He has authored a number of publications related to UK energy policy and has spoken on various podcasts and conferences on developments in grid decarbonization. Faraz is a Fellow of the Energy Institute and a member of the Institute of Engineering & Technology. He holds a First Class bachelor's and master's degree in electrical and information engineering from Cambridge University, UK and MIT, USA.



Giorgio Locatelli, Politecnico di Milano

Giorgio Locatelli is Professor at Politecnico di Milano, leading the major "Complex Projects Business" at the School of Management. Since 2006, Giorgio has studied large and complex infrastructure projects and programs, particularly in the nuclear sector. He spent the years 2012-2022 in the UK, having prominent roles in shaping the UK nuclear SMR program, including co-authoring the documents "A Report to Her Majesty's Government by the Expert Finance Working Group on Small Nuclear Reactors Market Framework for financing small nuclear" "Small Modular Reactors - Can

building nuclear power become more cost effective?". He was a Steering Committee member for the UK "Nuclear Project Management Specific Interest Group". Giorgio attracted over €1.7 million in research funds and, since 2020, has been included every year in the Stanford-Elsevier list of the World's top 2% of scientists. He acts as a trainer and advisor for public and private organizations. Giorgio has authored over 160 international peer-reviewed Scopus index publications (mostly on nuclear and complex projects) with over 4400 citations. He won the 2023 "IPMA Global Research Award". He is Editor-in-Chief of the Project Management Journal and sits on the editorial boards of "Progress in Nuclear Energy", "International Journal of Project Management," and "Construction Management and Economics".

James Krellenstein, Alva Energy

James Krellenstein leads Alva Energy in engineering existing nuclear plants to maximize their power generation capabilities.



Jesus Núñez, Nuclear Alternative Project

Jesus M. Núñez is a Senior Structural Engineer at Bechtel, bringing over 16 years of experience in the design and technical support of various high-profile projects, including nuclear plants, transmission and distribution lines, chemical weapons processing facilities, and Department of Energy facilities. His expertise spans structural design and providing technical guidance during the construction phase of these projects. Mr. Núñez holds a master's degree in civil engineering with a specialization in Structures from the University of Puerto Rico, Mayagüez Campus, and is professionally licensed in both Puerto Rico and the state of Maryland. Currently, he serves as a lead structural engineer for the Natrium project, an advanced nuclear reactor being developed in Kemmerer, Wyoming. In addition to his engineering role, Mr. Núñez is the co-founder and CEO of The Nuclear Alternative Project, a non-profit organization dedicated to educating communities about the technological advancements in small modular reactors (SMRs) and microreactors.



Jonathan Barr, (former) White House Office of Science and Technology Policy

Jonathan Barr served as Assistant Director for Nuclear Energy in the White House Office of Science and Technology Policy for the Biden-Harris Administration from October 2023 until January 2025. In this role, Jonathan led domestic nuclear energy policy efforts and was lead author for the first-of-its-kind U.S. strategy for safely and responsibly expanding nuclear energy. Prior to this, Jonathan spent over 17 years in various positions of increasing responsibility at the US Nuclear Regulatory Commission where he led many high-visibility projects regarding nuclear power safety, licensing, economics, and policy. Jonathan holds a bachelor's degree from Northwestern University and a master's degree from the Massachusetts Institute of Technology, both in materials science and engineering, and an MBA from the University of Maryland.



Lisa Marshall, American Nuclear Society & North Carolina State University

Lisa Marshall is the President of the American Nuclear Society (ANS) and has been an active member, with leadership roles, since 2005. With over 22 years of engineering education experience spanning pre-college to graduate studies, she is the inaugural Director of Outreach, Retention and Engagement (starting in 2001), and the inaugural Assistant Extension Professor (starting in 2023) at North Carolina State University Department of Nuclear Engineering. Marshall is co-principal investigator or education outreach director on U.S. Department of Energy-funded consortia. She teaches in the First-Year Engineering Program, co-directs the Study Abroad Program in Engineering and Social Sciences, and serves on the Working Council for the Women in Science and Engineering Program. She is the chair of the Association of Women Faculty. Lisa is a member of the Organization of Economic Cooperation and Development (OECD) Nuclear Energy Agency (NEA) Council of Advisers, NEA High-Level Group on Improving the Gender Balance in the Nuclear Sector and chairs the NEA Global Forum Working Group on Building a Pipeline of STEM Professionals.

**Lucia Tian, Google**

Lucia Tian leads Google's team responsible for developing and scaling advanced clean energy technologies through strategic investments, offtake, and partnerships, to achieve Google's global 24/7 carbon-free energy and net zero goals. Prior to Google, Lucia served as Senior Advisor to the U.S. Department of Energy's Chief Commercialization Officer, and as Chief Strategist for the Loan Programs Office, driving the Pathways to Commercial Liftoff effort to inform DOE's IIJA and IRA investments. Previously, Lucia built and led strategy & analytics functions across public, private, and non-profit organizations, including at the ACLU and McKinsey & Co. She holds a dual B.S. in Electrical Engineering & Computer Science and B.S. in Economics from MIT, and an M.A. in Economics from Harvard.

**Marcus Nichol, Nuclear Energy Institute**

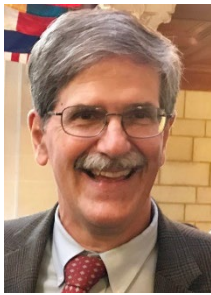
Marc Nichol joined Nuclear Energy Institute (NEI) in 2011 and is the Executive Director of New Nuclear. In this role, he leads industry's efforts to improve the policy, regulatory, and business environment for new and advanced reactors. Marc has previously worked for Duke Energy, Toshiba America Nuclear Energy and Transnuclear, in the areas of used nuclear fuel management, operations and new plant projects. Marc holds degrees in Nuclear Engineering from Purdue University and the University of California Berkeley, and an MBA from the University of North Carolina.

**Mark Shaver, NuScale Power**

Mark Shaver is a leader the nuclear field with experience in Management, Regulatory Affairs, Policy, and Engineering. He currently serves as the Director of Regulatory Affairs at NuScale Power, where he leads the Regulatory Affairs and Licensing Department, which has projects for both U.S. and International licensing applications, as well as other initiatives. Mark has been at NuScale for over 10 years in various roles of leadership. Previously, he worked at Pacific Northwest National Laboratory as a Nuclear Engineer and Project Manager, specializing in reactor analysis, radiation detection, and National Security Technology. Mark holds Bachelor's and master's degrees from the University of Michigan and Oregon State University, where he was awarded election to the Council of Outstanding Early Career Engineer Alumni.

**Matthew Warren, International Brotherhood of Electrical Workers**

Matthew Warren is an International Representative for the International Brotherhood of Electrical Workers (IBEW), bringing years of experience and expertise to his role. Having spent much of his career in the commercial nuclear power sector he staunchly advocates the unique benefits of the nuclear industry. Among being a representative of the members employed in the nuclear energy sector, he also maintains responsibility for other forms of emerging and conventional energy matters including business development, workforce development and regulatory. As an International Representative, Matthew continues to leverage his knowledge of the commercial nuclear sector and his passion for worker advocacy to support IBEW members and strengthen the IBEW mission of improving working conditions while working with industry partners to secure economic opportunity for electrical workers in North America.



Michael Corradini, University of Wisconsin

Michael L. Corradini is Emeritus Wisconsin Distinguished Professor of Nuclear Engineering and Engineering Physics at the University of Wisconsin-Madison. Dr. Corradini served from 1995 to 2001 as associate dean for the College of Engineering and Department Chair from 2001 to 2011. He has published widely in areas related to vapor explosion phenomena, jet spray dynamics, and transport phenomena in multiphase systems. From 1978 to 1981, he served as a member of technical staff of Sandia National Laboratories. In 1998, he was elected to the National Academy of Engineering. He has also served as a presidential appointee in 2002 - 2023 as chairman of the Nuclear Waste Technical Review Board (a separate government agency). From 2004 to 2008, he served as a board member of the INPO National Accreditation Board for Nuclear Training. In 2006, he was appointed to the NRC Advisory Committee on Reactor Safeguards and was elected to the National Council on Radiation Protection. In 2010, he was appointed chair of the Scientific Advisory Committee to the French Atomic Energy Agency. He began and served as the director of the Wisconsin Energy Institute. He was elected as the President of the American Nuclear Society (2012–2013). Dr. Corradini received his BS in mechanical engineering from Marquette University, Milwaukee; MS and PhD in nuclear engineering from MIT.



Michael King, U.S. Nuclear Regulatory Commission

Mike King is currently coordinating the U.S. Nuclear Regulatory Commission's (NRC) implementation of the ADVANCE Act as the Special Assistant to the Executive Director for Operations (EDO). Previously, he was the Deputy Office Director for Reactor Safety Programs and Mission Support, overseeing the licensing and inspection programs for the 94 power reactors operating in the United States. Mr. King joined the NRC in 2005 in the Region II office in Atlanta, Georgia, and subsequently served as the Resident Inspector at Shearon Harris Nuclear Power Plant in North Carolina. Since joining the Senior Executive Service (SES) in 2016, he has held several senior management positions, including the Director of the Vogtle Project Office where he led the licensing and inspection programs for the construction and startup of Vogtle Units 3 and 4 near Augusta, Georgia, the first newly-constructed nuclear power reactors in the US in over 30 years. Before joining the NRC, Mr. King worked for General Electric Energy in Marietta, Georgia, and served in the U.S. Navy as a Nuclear Engineer qualified Submarine Officer. Mr. King received a bachelor's degree in electrical engineering from the U.S. Naval Academy, a master's degree in electrical engineering from Georgia Institute of Technology, and a Master of Business Administration Degree from George Washington University.



Nickolas Bumpaous, UA Local Union 598 - Plumbers and Steamfitters

Nickolas A. Bumpaous is the current President of the Central Washington Building and Construction Trades Council and the Business Manager for UA Local 598, Plumbers and Steamfitters in Pasco, Washington. In these roles he has been an outspoken advocate for working families and policies that benefit construction tradesmen and women. He has worked closely with the Washington legislature and U.S. Congress on numerous issues, most recently to assist in the development of advanced nuclear energy production, the dignified treatment for sick Hanford workers, family wage jobs, apprenticeship opportunities as well as continued Federal funding for the next generation energy production and the U.S. Hanford Mission. Nickolas currently serves as the Special Assistant to the President of North America's Building Trades Unions for Nuclear Energy. Mr. Bumpaous is a Washington State Building Trades Executive Board Member, member of the HAMMER Federal Training Center's Steering Committee, Member for the Washington State Labor Council's DOSH Committee and in 2019 was appointed by General President Mark McManus to serve on the United Association of Plumbers and Steamfitters National Political Engagement Committee. In 2024 Nickolas was proud to serve Washington State Governor-Elect Bob Ferguson as a member of his Gubernatorial Transition Team. Nickolas serves on the Board of Directors for the United Way of Benton and Franklin Counties, MyTri 2030 Council member of the Tri-Cities Regional Chamber of Commerce, Board of Directors for the State-wide non-profit Hanford Challenge and is a proud member of Plumbers and Steamfitters Bikes for Tikes, a non-profit which has built and donated over 14,000 bicycles to underprivileged children in Washington State.



Olivia Blackmon, Oak Ridge Associated Universities

Olivia M. Blackmon has more than 20 years of professional experience in critical infrastructure, regional innovation, partnership development and business operations. She earned her doctoral and master's degrees in sociology with a concentration in education and statistics from George Mason University and was an Education Writers Association fellow for education policy at Harvard University. Blackmon is currently the director for Oak Ridge Associated Universities (ORAU) STEM Accelerator and Partnership for Nuclear Energy (PNE), a national initiative to strengthen America's global leadership in STEM by unifying and mobilizing a comprehensive body of leaders from various sectors to address the critical challenges in the nuclear energy education, training, and workforce development issues across the United States. In addition, her role Dr. Blackmon is the AAAS-White House Anchor Partner to oversee Diversity, Education, Inclusion, and Access (DEIA) for national Higher Education. She is also a Fulbright Specialist, specializing in Energy infrastructure in 11 African countries. Prior to joining ORAU, Blackmon directed a \$30 million United States Agency of International Development (USAID) program for DAI, Inc., to enable the digital transformation of the Western Balkans, Black Sea Region, and South Caucasus by working with the national governments, critical infrastructure operators, private sector partners, academia, and oversight bodies to address cybersecurity vulnerabilities across critical infrastructure sectors. Over the last decade Blackmon has successfully built and managed programs totaling more than \$130 million with multiple federal agencies including the Department of Defense, Department of State, National Science Foundation, USAID, Department of Health Services and National Institute of Standards and Technology.



Peter Hastings, Kairos Power LLC

Peter Hastings is the Vice President of Regulatory Affairs & Quality at Kairos Power and leads teams responsible for licensing and permitting activities, safety analysis and probabilistic risk assessment, quality assurance, and government affairs with a focus on establishing the regulatory basis for Kairos Power's reactor technology. Mr. Hastings previously ran a successful management and regulatory consulting firm and held prior positions as Director of Licensing and Regulatory Affairs for Generation mPower, Licensing

Manager for Duke Energy's Nuclear Plant Development Division, and licensing and design-center lead NuStart Energy Development, LLC. Mr. Hastings' background includes work as a reactor engineer responsible for startup testing and fuel performance monitoring, design engineer on the Monitored Retrievable Storage facility, manager in safety assurance and performance assessment for the Yucca Mountain repository, and licensing manager responsible for receipt of construction authorization for the MOX Fuel Fabrication Facility. Mr. Hastings earned his B.S. in Nuclear Engineering from North Carolina State University. He is a registered professional engineer in North and South Carolina.



Richard A. Meserve, Covington & Burling LLP

Richard A. Meserve is Senior Of Counsel in the Washington, DC, office of Covington & Burling LLP. He is the President Emeritus of the Carnegie Institution for Science and former Chairman of the U.S. Nuclear Regulatory Commission. He is a member of the National Academy of Engineering, the American Academy of Arts and Sciences, the American Philosophical Society, and the Council of Foreign Relations; he is a Fellow of the American Physical Society and the American Association for the Advancement of Science, and a foreign member of the Russian Academy of Sciences. Early

in his career, after obtaining a PhD in applied physics from Stanford and a JD from Harvard Law School, he served as law clerk to Supreme Court Justice Harry A. Blackmun and as legal counsel to the President's Science Adviser. Among other activities, he is the former President of the Board of Overseers of Harvard University and the former Chairman of the International Nuclear Safety Group (chartered by the International Atomic Energy Agency). He has chaired or served as a member of a wide variety of studies undertaken by NASEM, including as chairman of a recently completed study of advanced reactors and as co-chair of the National Science, Technology, and Security Roundtable.



Richard Arnold, Consolidated Group of Tribes and Organizations

Richard Arnold is Southern Paiute from Pahrump, Nevada and Spokesperson for the Consolidated Group of Tribes and Organizations (CGTO). The CGTO is comprised of 16 Tribes from Nevada, California, Utah, and Arizona that focus on expanding government-to-government interactions with federal and state agencies. He has written and co-authored numerous articles and worked on nuclear initiatives, including the Department of Energy Office of Civilian Radioactive

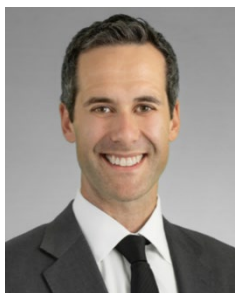
Waste Management Yucca Mountain Site Characterization Project; the Transportation External Coordination Working Group (TECWG) and DOE's Nuclear Power Plant Shutdown Site Evaluation Team where he examines technology and infrastructure needs for shut down. Richard is Chairperson of the Tribal Radioactive Materials Transportation Committee (TRMTC), shaping national policy and working closely with the DOE's National Transportation Stakeholder's Forum. He is Chairperson of the Office of Nuclear Energy-Nuclear Energy Tribal Working Group (NETWG) where he guides discussions with participating tribes on domestic and international research and development that have the potential to impact Tribal lands or interests. In 2022, Richard was appointed as the first Native American to the Office of Nuclear Energy-Nuclear Energy Advisory Committee (NEAC) providing tribal insight on research and development of technology, security, transportation, storage, and siting activities relating to the nuclear fuel cycle and interests of tribal communities. He serves on the DOE's State and Tribal Government Working Group that focuses on clean-up activities throughout the DOE Complex.



Ryan Nielson, Citi

Ryan Nielson is a Vice President in Citi's Clean Energy Transition Group in Houston, Texas. He began his career with the United States Navy as a Nuclear Power Research Project Officer in Washington, D.C. (2011 – 2016) where he was responsible for reactor design, maintenance, operation, and disposal in Los Angeles Class submarines. Mr. Nielson previously worked at Credit Suisse in the Energy & Infrastructure investment banking group from 2018 – 2021. His advisory experience includes work with the Carbon Free

Power Project in 2023 and with the Texas Pacific Land Trust in 2021. He holds an MBA from the Tuck School of Business at Dartmouth, a M.E. in Nuclear Engineering from Pennsylvania State University and a B.S. in Mechanical Engineering from Brigham Young University.



Stephen Comello, Energy Futures Initiative Foundation

Stephen D. Comello is the Senior Vice President of Strategic Initiatives at the EFI Foundation and Managing Director of its Energy Futures Finance Forum. In early 2025, he was appointed Executive Director of the Nuclear Scaling Initiative, a collaboration between EFI Foundation, the Clean Air Task Force and the Nuclear Threat Initiative. Previously, he served as a faculty member at the Stanford Graduate School of Business for over a decade, co-leading the Rapid Decarbonization Initiative. With a 23-year career dedicated to scaling emerging energy and environmental

technologies, Comello specializes in policy and business model innovations. His expertise spans technoeconomic analysis, policy and project finance, corporate strategy in the energy transition, and open innovation. Stephen holds bachelor's and master's degrees in mechanical and industrial engineering from the University of Toronto and a Ph.D. in civil and environmental engineering from Stanford University. Originally from Canada, he now resides in Washington, D.C.



Stephen Kuczynski, The Nuclear Operating Company

Stephen Kuczynski is the recently (mid 2024) retired CEO and President of Southern Nuclear Operating Company. Upon completion and placing in service Vogtle Units 3 and 4 Stephen concluded a 13-year tenure at the Southern Company. During that period Stephen was the lead executive that assumed the responsibility to complete the Vogtle project (AP1000) after the Westinghouse bankruptcy in 2017. Prior to Southern, Stephen spent 27 years of increasing leadership roles at Exelon. These included obtaining a Senior Reactor Operating License from the Nuclear

Regulatory Commission early in career with the last role being Senior Vice President of Engineering and Technical Services for the Exelon nuclear fleet. Over his career Stephen has participated in new reactor deployment efforts via industry working groups and numerous advisory roles with nuclear development companies. Stephen's expertise includes major project development and execution, operational excellence and organizational effectiveness. Currently Stephen is an independent consultant providing advisory services for select opportunities that currently include The Nuclear Company and Dow chemical.



Tracy Boatner, East Tennessee Economic Council

Tracy Boatner is the President & CEO of the East Tennessee Economic Council (ETEC), an independent nonprofit organization that unites industry, government, and academia to drive collaboration in energy, science, national security, and research, to promote regional growth and opportunities. Working with partners like the Tennessee Valley Authority, Oak Ridge National Laboratory, and Y-12 National Security Complex, ETEC's Nuclear Working Group organizes an annual Nuclear Opportunities Workshop (NOW). NOW gathers hundreds of attendees

from across the nation each year to feature Tennessee's expertise in all things nuclear and to drive interest in the state's robust nuclear industry. Boatner has been with ETEC for nearly a decade and was promoted to President & CEO in 2022. She serves as a Fellow of the University of Tennessee's Center for Energy, Transportation, and Environmental Policy at The Baker School of Public Policy and Public Affairs. Her community leadership roles include Board Chair of United Way of Anderson County, Board Member of YWCA of Greater Knoxville, Leadership Knoxville Class of 2012, Leadership Oak Ridge Class of 2016, Past President of Rotary Club of Oak Ridge, and Board Member of Center for Leadership & Community Development.



Trevor Falk, North America's Building Trades Unions

Trevor Falk joined North America's Building Trades Unions (NABTU) in July of 2021 and currently serves as Special Assistant to the President for Energy Policy. In this role, he actively works to advance policies and projects in the energy sector, which accounts for nearly 50 percent of all hours worked by NABTU's three million members and remains one of the strongest areas of growth for the unionized construction industry. Prior to joining NABTU, Trevor worked for the National Electrical Contractors Association (NECA) as the Deputy Executive Director of Government

Affairs advocating on behalf of NECA's 4,000 signatory electrical contractors in the U.S. He has held various positions in the political arena, spending time structuring and implementing fundraising campaigns for multiple members of Congress and working as a policy analyst for the Center for the Study of the Presidency and Congress. Trevor holds a master's degree from George Mason University and a bachelor's degree from The Catholic University of America. He is a proud Eagle Scout.



Wayne Blaylock, Dow Chemical Company

Wayne Blaylock is a Commercial Director for Dow Chemical's Energy & Climate business. In this role he is responsible for leading business activities related to Project Long Mott, Dow's advanced nuclear reactor project with X-energy and the Department of Energy. Project Long Mott is developing four Xe-100 reactors to be located at Dow's Seadrift site in Texas, providing steam and electricity for Dow's manufacturing operations. Wayne has led commodity fundamentals analysis and business development activities for Dow's Feedstocks business for the last 10 years, after joining Dow's

Research and Development organization in 2011. Wayne holds a PhD in Chemical Engineering from MIT and a BS from Tennessee Tech University. He began his career as a nuclear process design engineer at the Y-12 National Security Complex prior to obtaining his graduate degree.