

THE LOCAL SOCIAL AND ECONOMIC CONTEXT OF ENERGY TRANSITIONS

Center for Energy Law & Policy, Penn State University—University Park

May 25-26, 2021

Virtual workshop

As the United States pivots away from fossil fuels, resource-dependent communities and host communities for renewable energy are undergoing major transitions. These transitions play out quite differently in different contexts as local and state officials, nonprofit groups, and community leaders work to harness and re-apply the skills of the local workforce and address social and land use-based changes. But there is no single formula for success. This workshop aims to explore different communities' and states' experiences with losses and gains in their energy economies, focusing specifically on state and local experiences with economic redevelopment and skills transfer; local impacts, such as land use changes; and residents' perceptions of transitions. Speakers will provide perspectives from urban and rural settings; areas that are just starting the transition or are in the midst of it; and areas that are experiencing both economic gains and losses. The workshop has two objectives. The first is to identify potential best practice strategies the energy transition, focusing on engagement with residents, economic development, and regulatory and "soft" (e.g., negotiation-based) land use approaches. What strategies have been implemented, and what do we know about success and failure? The second is to provide opportunities for cross-jurisdictional learning among decision-makers in different locations and to identify opportunities to harmonize strategies.

ZOOM INFORMATION

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SCHEDULE

Each speaker will present for approximately 15 minutes, allowing 15 minutes for questions from the audience. **All times are EDT.**

May 25, 2021

1:00-1:15 PM: Welcome and introductions

1:15-1:45 PM

David Breecker, Microgrid Systems Laboratory, New Mexico

The paths that states are taking to enact “energy transition” policy measures and how constituencies are built.

1:45-2:15 PM

Jay Stender, Principal, The WY Ranch (energy industry hub), Wyoming

How Wyoming is managing the decline in coal and rise of renewables, including issues involving coal miners.

2:15-2:30 PM: break

2:30-3:30 PM: “Tag team” presentation

How local governments are managing the rise of solar and wind—both those welcoming development and those restricting it—and the interplay between state renewable mandates and local policy in Pennsylvania. Coordination of Pennsylvania municipalities’ local solar and wind development policies; the range of issues experienced by townships.

Robert Young, Southwestern Regional Office, Pennsylvania Department of Environmental Protection.

Scott Coburn, Education Director and Counsel, Pennsylvania State Association of Township Supervisors

Jonathan Andrews, Chair, Real Estate Group, McNees

3:30-4:00 PM

Ken Becker, Executive Director, SEED Municipal Development District, Sweetwater, Texas

Rural Nolan County wind project; response to the changing landscape both physically and talent-wise.

May 26, 2021

1:00-1:30 PM

Greg Molter, Planning Director, Montour County, PA

Transition from a steam generation plant to nine substantial solar projects in Pennsylvania's smallest county.

1:30-2:00 PM

M. Elizabeth (Beth) Melton, County Commissioner, Routt County, CO

The coal to renewable energy transition in Colorado.

2:00-2:30 PM

Jasmin Moore, Sustainability Director, City of Lawrence and Douglas County, Kansas

Process of planning for renewable energy goals and considerations included in the process. Interaction between state and local energy policy in Kansas.

2:30-2:35 PM: short break

2:35-3:05 PM

Silvia Tanner, Senior Sustainability Analyst, Office of Sustainability, Multnomah County,

The green tariff and community solar docket in Oregon.

3:05-3:35 PM

Emily Schapira, President & CEO, Philadelphia Energy Authority

Carbon reductions and economic development, job creation in Philadelphia.

3:35-4:00 PM

Paul Meltzer, City of Denton, Texas, City Council Member

Political dynamics of state preemption policies and local renewable energy transitions.

During Q&A portion, brief additional comments and context to be provided by **Dalton Gregory**, former Denton City Council Member.

SPEAKER BIOGRAPHIES

Jonathan D. Andrews, jandrews@mcneeslaw.com



Jon is Chair of the Real Estate Group, and practices in the Eminent Domain, Oil & Natural Gas and Pipeline & Oil/Gas Infrastructure Groups at McNees. Jon practices in the area of land use law, working on a variety of zoning and land development matters. He represents commercial and residential developers, members of the energy, telecommunications, and gaming industries, institutions of higher education, and other landowners in a variety of matters before municipal planning commissions, governing bodies and zoning hearing boards. Jon's work includes all forms of zoning relief, including special exceptions and conditional uses. Jon also advises clients on requests for zoning amendments and challenges to existing ordinances. He also works on storm water management and transportation matters that arise during the land development approval process. Outside of his work as a real estate lawyer in Harrisburg, PA, Jon is a certified instructor for the Pennsylvania Municipal Planning Education Institute. In that role, he instructs planning commission members, zoning officers, and other municipal officials on zoning matters. He received his B.A. *with distinction* from The Pennsylvania State University and his J.D. from the Dickinson School of Law of The Pennsylvania State University.

Ken Becker, ken@sweetwatertexas.net



Ken and his wife Carla moved to Sweetwater, Texas from Nappanee, Indiana in 1982 where he started a construction company. He later managed the Sweetwater Chamber for 10 years, was Director of Training at Texas State Technical College Sweetwater for 2 years, managed the TSTC Brownwood Campus for 1 ½ years before accepting the position of Executive Director of Sweetwater Economic Development in October of 2007. He is a strong supporter of Regionalism and has served as Chairman of several organizations including (Texas Midwest Community Network, High Ground of Texas, Big Country RC & D, Workforce Solutions of WCT, West Texas Energy Consortium, Camp Butman Methodist Camp, and the Northwest Texas SBDC Advisory Council). He is also an advocate for energy (renewable and conventional), manufacturing, logistics, hospitality industry, and quality of life issues. He also serves on the Texas Economic Development Council Board of Directors. Ken loves volunteering in his community and his church, woodworking, and following his 5 grandkids in sports and academic events.

David Breecker, david@microgridsystemslab.com



David is the founder and President of the Microgrid Systems Laboratory, an international consortium of organizations working on decentralized grid modernization technologies, associated workforce development, and energy access, with a holistic approach encompassing research, innovation, demonstration, policy, and education. As President of David Breecker Associates, Inc., a management consulting firm specializing in strategies for industry and economic development, he previously completed numerous successful engagements for state,

county, city, and private and social sector clients, including the New Mexico Media Industries Strategy Project, the Santa Fe County Economic Development Plan, the NM Technology Commercialization Consortium solar energy roadmap, and the Santa Fe regional plan for renewable energy and sustainability technology-based development. David earned his MBA from Harvard in 1982, and has acquired some 30 years of general management experience. He enjoyed earlier careers in the film and music industries.

Scott Coburn, scoburn@psats.org



Scott Coburn is the Education Director & Counsel at the Pennsylvania State Association of Township Supervisors. Scott earned his J.D. with honors from The George Washington University Law School in Washington, D.C. and bachelor's degrees with honors in Economics and Political Science from James Madison University in Harrisonburg, Virginia. Prior to joining PSATS, he was in private practice, where he focused primarily on litigation, labor and employment, and environmental matters.

Dalton Gregory, daltonrgregory@gmail.com



Dalton Gregory spent 36 years in public education as a teacher in the Austin Independent School District, administrator in the Houston ISD and Denton ISD, and adjunct faculty member at the University of North Texas. He also spent 17 years serving on various boards and committees for the City of Denton followed by serving nine years on the Denton City Council.

M. Elizabeth (Beth) Melton, bmelton@co.routt.co.us



Beth Melton was elected as a Routt County Commissioner in November 2018 and initially sworn into office on January 8, 2019. Prior to her election, Beth's work experience was in education and educational leadership. She was a teacher on the Front Range and moved to Routt County to work with the Northwest Colorado Board of Cooperative Educational Services (BOCES). In her time at the BOCES, she worked with 25+ schools in 7 school districts across 4 counties in Northwest Colorado to improve literacy instruction for students with disabilities, implement the state-mandated teacher evaluation system, and instruct teachers in best practices for instruction. During this time she also managed local, state, and federal money supporting these projects.

Paul Meltzer, pmeltzer33@gmail.com



Paul Meltzer was elected to an at-large seat on the City Council of Denton, Texas, in 2018 and is serving his second term. He had a thirty-year career as a new product executive in both packaged goods—working for divisions of General Mills and Campbell Soup—as well as in telecommunications, retiring as SVP Product Management for Insight Communications which was acquired by Time-Warner Cable in 2012. He earned his BA in Philosophy from Wesleyan University and his MBA from the Tuck School at Dartmouth College.

Jasmin Moore, jamoore@lawrenceks.org



Jasmin is the Sustainability Director for Douglas County, Kansas and the City of Lawrence, KS where she guides county and city initiatives to promote responsible management of resources to meet environmental, economic, and human needs. Jasmin is an active change agent for sustainability and equity with national and local impact. She was a key champion for the integration of sustainability and equity into funding criteria for the Lawrence Capital Improvements Plan, a first in the state of Kansas. She led the push to source 60% of Douglas County government facilities and 98% of City of Lawrence facilities from wind energy at a reduced cost to the county and city. She also led the City of Lawrence to commit to 100% renewable energy community-wide by 2035. Jasmin is currently leading the creation of a Climate Action and Adaptation Plan for the City of Lawrence and Douglas County and the development of an Open Space Plan for Douglas County, in partnership with a local foundation. She also leads an internal Environmental Sustainability Team, responsible for developing key performance indicators for the city's strategic plan and integrating five core principles, based on the Green New Deal, into city plans and policies.

Greg Molter, gmolter@montourco.org



Greg Molter is the Director of Montour County Planning, Zoning, and Human Services departments. Mr. Molter retired from the US Air Force as a Master Sergeant in 1997, after

serving 22 years as a Munitions Systems Specialist. He earned an Associates of Science degree in Weapons Systems Technology, and in 1995 was selected as US Air Force's Munitions Systems Supervisor/Manager of the Year. He started his career with Montour County in 2000 and has served as the Pest Control officer and Zoning Officer, and presently serves as Planning and Human Services Director. Mr. Molter is also a township supervisor in Derry Twp., serving as the chairman since 2006. A native of the Danville area, he also has a historical familiarity with the diversity of his community from small family farms to industrial power generation facilities.

Emily Schapira, eschapira@philaenergy.org



Emily Schapira is President and CEO of the Philadelphia Energy Authority, a municipal government entity building a robust, equitable clean energy economy for Philadelphia. Emily joined PEA as Executive Director in 2016 and launched the Philadelphia Energy Campaign, a \$1 billion, 10-year initiative to invest in energy efficiency and clean energy projects to create 10,000 jobs. Emily has been a PEA board member since 2010. Prior to joining PEA, Emily was Director of Global Accounts for Lighting at WESCO Distribution, and Chief Operating Officer for Aelux, a lighting and controls retrofitter. Emily previously worked on sustainability for Fortune 500 firms, and started the Wharton School's Sustainability Program. She spent her early career running a consumer heating oil co-op in Philadelphia and advocating for low-income energy assistance at the federal, state and local levels. Emily holds an MBA from Wharton and a BA from the University of Pennsylvania. She was recognized in 2020 as one of the Philadelphia Business Journal's 40 under 40 honorees.

Jay Stender, jay@wyranch.org



Since graduating from the University of Wyoming (M.S., 1979), Jay Stender has accumulated four decades of business experience spanning a variety of technology and service-oriented sectors. Most recently, Stender served as the CEO of Forward Sheridan from 2009-2020, a privately-funded, economic development entity. Currently, he is Principal at The WY Ranch - a Sheridan-based Hub for organizations working in the energy sector and related industries across Wyoming to introduce new opportunities for continued employment and prosperity. WYRANCH reaches out to its neighbors, elected officials, and the business community.

Silvia Tanner, silvia.tanner@multco.us



Silvia Tanner is a Senior Sustainability Analyst at Multnomah County's Office of Sustainability where she focuses on clean energy and energy justice. She leads Multnomah County's advocacy to ensure vulnerable populations maintain energy access during the COVID-19 pandemic as well as efforts to meet the County's community-wide renewable energy goals.

Clean energy advocacy has been the focus of Silvia's career. For years, she has worked to advance clean-energy through policy and regulatory advocacy at federal agencies and state utility

commissions through the Pacific Northwest. She has participated in processes and proceedings on a wide variety of topics, including utility resource planning and procurement, storage, community solar, distributed energy resources, PURPA, interconnection, and transmission. Silvia has also participated in the development of key energy policy in the region.

Silvia is deeply committed to her community. Her public service experience includes assisting low-income clients in areas like landlord tenant and business law, as well as asylum-seeker women and children in federal detention. She is passionate about improving the legal practice for attorneys from underrepresented backgrounds, and advances that work as a board member for the Oregon Women Lawyers, the Oregon Hispanic Bar Association, and the Energy, Telecom & Utility Law Section of the Oregon State Bar. Time with family and friends, dancing, cooking, and running bring Silvia joy.

Robert Young, rocyoun@pa.gov



Robert C. Young is an Energy Program Specialist at the Pennsylvania Department of Environmental Protection. At DEP, he works to support initiatives in the areas of renewable energy and energy efficiency, particularly around the deployment of grid-scale solar installations in order to for Pennsylvania to achieve a 10% in-state solar generation goal by 2030. Additionally, he is leading the development of a food waste to renewable energy assessment to be released later in 2021. He spent his early career as an analyst in the local government sector for the City of San Antonio, TX, and the City of Alexandria, VA. He is a certified Climate Change Professional (CC-P) through the Association of Climate Change Officers. Mr. Young received his B.S.E. in Civil Engineering from Duke University and his M.P.Aff. from the LBJ School of Public Affairs at the University of Texas.

LISTENERS AND DISCUSSANTS

Organizers

Dr. Jennifer Baka, jeb525@psu.edu



Jennifer Baka is an Assistant Professor in the Penn State College of Earth and Mineral Sciences, Department of Geography. Dr. Baka earned a Ph.D. in Environmental Studies from the Yale School of Forestry and Environmental Studies, a Master's in Public Policy from UC Berkeley and a B.S. in Economics from The George Washington University. Prior to joining Penn State, she was an Assistant Professor of Geography and Environment at the London School of Economics from 2013–16. Additionally, before graduate school, she worked in the energy industry for numerous years first as an economic consultant in Washington, D.C., and second as a consultant for the United Nations Environment Programme in Paris, France. She is originally from the anthracite coal mining region of Scranton, PA and is proud to be a coal miner's granddaughter.

Dr. Seth Blumsack, sab51@psu.edu



Seth Blumsack is a Professor of Energy and Environmental Economics and International Affairs in the Penn State Department of Energy and Mineral Engineering and the Director of the Penn State Center for Energy Law and Policy. Dr. Blumsack earned his B.A. from Reed College and his M.S. and Ph.D. from Carnegie Mellon University. He has authored or co-authored more than fifty scientific papers; book chapters; and articles in industry and popular press, with research funding from the U.S. National Science Foundation, Department of Energy, Environmental Protection Agency, and private industry. He has consulted with the American Public Power Association, Bayer Materials, the Congressional Research Service, the Consortium for Risk

Assessment and Stakeholder Participation, the National Renewable Energy Laboratory, the Idaho National Laboratory, the U.S. Department of Energy, the U.S. Environmental Protection Agency and numerous electric utilities and State Public Utility Commissions. He is also on the External Faculty of the Santa Fe Institute.

Hannah Wiseman, hqw5351@psu.edu



Hannah Wiseman is a Professor of Law; Professor and Wilson Faculty Fellow in the College of Earth and Mineral Sciences; and Co-funded Faculty – Institutes of Energy and the Environment at Penn State—University Park. Hannah received her A.B. from Dartmouth College, *summa cum laude*, and her J.D. from Yale Law School, and she clerked for Judge Patrick Higginbotham of the U.S. Court of Appeals for the Fifth Circuit. Professor Wiseman has taught at the University of Texas School of Law, University of Tulsa College of Law, and Florida State University College of Law in addition to Penn State. She has co-authored three books on energy law and has published articles in the *NYU Law Review*, *Georgetown Law Journal*, *Duke Law Journal* (co-authored), and *Environmental Science & Technology*, among other publications.

Participants

Mohamed Rali Badissy, Badissy@psu.edu



Mohamed Rali Badissy is an Assistant Professor of Law at Penn State Dickinson Law. Professor Badissy earned his B.A. from Occidental College and his J.D. with High Honors from the University of Washington School of Law. He is a scholar, advisor and international development advocate in the field of energy and climate finance. Professor Badissy previously served as the Senior Attorney for Energy and Finance with the Commercial Law Development Program of the U.S. Dept. of Commerce, where he advised governments in emerging markets on commercial law reforms intended to catalyze private investment to increase energy access and decarbonize

power markets. He began his career as an associate in the public international law practice of a large law firm and as a law clerk for the Hon. William H. Walls of the United States District Court of New Jersey (Newark).

Dr. Andrew Curley, apcurley@arizona.edu



Andrew Curley (Diné) is an Assistant Professor in the School of Geography, Development & Environment (SGDE) at the University of Arizona. His research focuses on the everyday incorporation of Indigenous nations into colonial economies. Building on ethnographic research, Curley's publications speak to how Indigenous communities understand coal, energy, land, water, infrastructure, and development in an era of energy transition and climate change. Curley is currently completing a book on the political legacy of coal mining in the Navajo Nation.

Ann M. Eisenberg, ameisen@law.sc.edu



Ann Eisenberg is an Associate Professor of Law at the University of South Carolina School of Law. Professor Eisenberg joined the faculty at the University of South Carolina School of Law in 2016 after spending two years as the Land Use and Sustainable Development Law Fellow at West Virginia University College of Law. Her research applies the lens of law and political economy to rural marginalization, examining how law, policy, and public institutions influence rural economic opportunity. Her work has been published or is forthcoming in numerous law journals and book chapters, including the *Southern California Law Review*, the *Harvard Law and Policy Review*, the *Boston College Law Review*, and the *Washington University Law Review*. Professor Eisenberg's career focused on community development began with her service in the Peace Corps in Morocco from 2006 to 2008 and has been informed by her work as

a practitioner as well as a scholar. She created South Carolina's transactional Environmental Law Clinic, through which law students tackle complex projects focused on natural resource conservation, environmental justice, and community economic development. Her other courses include Property, Water Law, Law and the Urban/Rural Divide, and Interviewing, Counseling, and Negotiation. Prior to entering academia, Professor Eisenberg worked as a staff attorney for the U.S. Court of Appeals for the Eighth Circuit in St. Louis, Missouri. She received her J.D., *cum laude*, from Cornell Law School, and is a member of the bars of New York and South Carolina.

Dr. Julia Haggerty, julia.haggerty@montana.edu



Julia Haggerty is an Associate Professor at the Department of Earth Sciences, Montana State. Her research interests include community and social-ecological resilience, rural communities, extractive industries, and rangelands. She has published articles in *Energy Policy*, *Energy Research & Social Science*, and *Journal of Rural and Community Development*, among other journals, and she won the Professional Geographer Award from the American Association of Geographers, Energy and Environment Specialty Group in 2019.

Dr. Tyler Harlan, Tyler.Harlan@lmu.edu



Tyler Harlan is an Assistant Professor at Loyola Marymount University, Department of Urban and Environmental Studies. Dr. Harlan earned his PhD in Geography from UCLA, an MPhil in Resource Management and Geography from the University of Melbourne, and a BA in Anthropology and Chinese from Vanderbilt University. He recently completed a postdoctoral fellowship with the Atkinson Center for a Sustainable Future at Cornell University, and is currently a Wilson Center China Fellow. He researches energy transition and renewable energy development in extractive regions of China and the U.S., and has published articles in *Global*

Environmental Change, Ambio, and Annals of the American Association of Geographers, among others.

Dr. Elise Harrington, eliseh@umn.edu



Elise Harrington is an Assistant Professor at the Humphrey School of Public Affairs at the University of Minnesota in the Science, Technology, and Environmental Policy. She has worked on research projects in Kenya, India, and the United States. Her most recent work in Kenya examined the role of intermediaries in off-grid solar, with an emphasis on trust and consumer education. Ongoing work focuses on how social relationships underpin knowledge about climate change, climate change adaptation, technology standards, and financing for solar and electricity access. Elise holds a Ph.D. in Environmental Policy and Planning from MIT's Department of Urban Studies and Planning and a B.A. in Architecture and Environmental Studies from the University of Pennsylvania.

Dr. Cris Moore, moore@santafe.edu



Cristopher Moore received his B.A. in Physics, Mathematics, and Integrated Science from Northwestern University, and his Ph.D. in Physics from Cornell. From 2000 to 2012 he was a professor at the University of New Mexico, with joint appointments in Computer Science and Physics. Since 2012, Moore has been a resident professor at the Santa Fe Institute. He has published over 150 papers at the boundary between physics and computer science, ranging from quantum computing, to phase transitions in NP-complete problems, to the theory of social networks and efficient algorithms for analyzing their structure. He is an elected Fellow of the American Physical Society, the American Mathematical Society, and the American Association for the Advancement of Science. With Stephan Mertens, he is the author of *The Nature of Computation* from Oxford University Press.

Dr. Dustin Mulvaney, dustin.mulvaney@sjsu.edu



Dustin Mulvaney is a Professor in the Environmental Studies Department at San José State University (SJSU) and a Fellow with the Payne Institute for Public Policy at the Colorado School of Mines. His research includes work on just transitions, solar energy commodity chains, and natural resource development. Dr. Mulvaney's book *Solar Power: Innovation, Sustainability, Environmental Justice* was published by the University California Press (2019). He also wrote a textbook *Sustainable Energy Transition: Socio-Ecological Dimensions of Decarbonization* with Palgrave-MacMillan (2020). Dustin has conducted extensive work on photovoltaic sustainability, chemical stewardship, and recycling management including the development of the e-stewards recycling standard for photovoltaics with the Basel Action Network and as a member of the Joint Committee for a sustainability leadership standard for photovoltaics at the National Standards Foundation International. Prior to SJSU, he was a National Science Foundation Science & Technology Studies Postdoctoral Scholar in the Department of Environmental Science, Policy, and Management at the University of California, Berkeley. He was Visiting Scholar with the Bill Lane Center for the American West at Stanford University 2016-17. Dustin received his Ph.D. from the Environmental Studies Department at the University of California, Santa Cruz, and obtained an M.S. in Environmental Policy Studies and B.S. in Chemical Engineering with a minor in Applied Physics from the New Jersey Institute of Technology.

Thomas B. Murphy, tbm1@psu.edu



Thomas Murphy is the Director of the Penn State Marcellus Center for Outreach and Research (MCOR). He has 36 years of experience working with public officials, researchers, industry, government agencies, and landowners during his tenure with the Extension/Outreach branch of the University. Tom's current work is centered on educational consultation in energy transitions, specifically at the convergence of shale gas and renewables, with a more recent emphasis on

utility-scale solar. In his role with MCOR, Tom provides leadership to a range of Penn State's related energy outreach events and research activities.

Uma Outka, uoutka@ku.edu



Uma Outka is a Professor and Associate Dean for Faculty at the University of Kansas School of Law. Professor Outka's scholarship explores the legal context for energy transition, with particular interests in energy and environmental justice, renewable energy, electricity regulation, and decarbonization of the electric grid. She serves on the board of the Kansas-based non-profit Climate + Energy Project. Prior to academia, Outka served as general counsel for the 1000 Friends of Florida, a non-profit advocacy organization focused on land use, environmental conservation, and affordable housing, and worked in private practice at the law firm Verrill Dana in Portland, Maine.

Gabe Pacyniak, pacyniak@law.unm.edu



Gabe Pacyniak is an associate professor at the University of New Mexico School of Law. He teaches primarily in the school's natural resources and environmental law clinic, which provides law and policy representation to low-income and underserved communities on a broad range of environment, energy, and natural resources issues. In addition to his work in the clinic, Gabe's other teaching, scholarship, and policy work focuses on climate change and clean energy issues. In recent years, Gabe's work has included research, analysis, and advocacy on issues related to rural electric cooperatives, promoting low-income energy efficiency and energy affordability, grid modernization, and a just transition away from a fossil-fuel economy. Gabe previously managed the climate change mitigation program at the Georgetown Climate Center, where he led

work to support states on climate and clean energy policies. Gabe holds a J.D. from Georgetown Law and B.A. from the New College of Florida.

Saumya Vaishnava, suv276@psu.edu



Saumya Vaishnava is a PhD student in the Department of Geography at Penn State. She studies energy infrastructure projects in India, and her dissertation research examines the evolution of the electricity grid in the city of Mumbai. Prior to joining Penn State, Saumya worked on energy policy and governance issues in India. She has a bachelor's degree in Economics from Saint Xavier's College, Mumbai and a master's degree in Economics and Public Policy from Sciences Po, Paris.

Adam Walters, adwalters@pa.gov



As a William Penn Fellow with the Department of Community and Economic Development, Adam Walters works to support the agency's goals of developing investment and recruitment strategies for the Commonwealth. He works collaboratively with private companies, across state agencies, and non-governmental organizations to further the agency's strategic agenda in and around the energy sector. Previously, Adam was Project Administrator with Downtown Inc where he worked to improve the economic health of the City of York's business improvement district through strategic enhancements to public spaces and safety. Adam completed his Master of Public Administration with a certificate in Policy Analysis and Evaluation at Penn State University Harrisburg in 2016.

Dr. Tricia Youngbull, tyoungbull@mitre.org



Tricia Youngbull is a PhD materials scientist who serves as a Lead Energy Technologies Scientist at MITRE. Since joining MITRE in 2020, Tricia has been a key contributor to MITRE's new Environmental Resiliency work program and leads a project focused on economic development for the energy transition. Prior to joining MITRE, Tricia held several industry positions focused on product development and manufacturing of photovoltaics, thermoelectrics and IC packaging.