



Defending Our Future

Spring Conference & Annual Meeting

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AGENDA

Defending Our Future

2018 Spring Conference & Annual Meeting

8:00am	Check-in/Networking/Coffee and light breakfast
8:30am	Welcome/Intros
8:40am	<i>Sustainability at Penn State</i> —Dr. Paul Shrivastava, Chief Sustainability Officer of Penn State University
8:50am	<i>Campus Sustainability Champions</i> —2017-2018 CSCs announced; some of the CSCs share their best practices
9:30am	<i>Strength in Numbers</i> —Exploring the idea of building a PERC group to purchase renewables in bulk
10:10am	Networking Break
10:30am	<i>PA Higher Ed Food Recovery Challenge</i> —Best Practices from EPA National Award Recipient Ursinus College and insights from fellow award winner Sodexo
11:10am	<i>Less Pizzazz, More Payback</i> —The way energy efficiency projects benefit your sustainability bottom line
11:50am	<i>Sponsor Spotlight: Brookfield Renewables</i>
11:55am	Lunch/Networking/Poster Session
1:00pm	<i>Going to Zero</i> —Colleges and universities working with Communities on Climate Change
1:40pm	Networking Break
2:00pm	<i>Climate Change and National Security: People Not Polar Bears</i> —Keynote address by Admiral David Titley
3:00pm	<i>Sustainability Café</i>
4:15pm	Closing Remarks
4:30pm	Conference ends

Gratitude

Thanks to our host: [Penn State's Sustainability Institute](#) for helping us to find space for this conference on campus. Thanks especially to Penn State's Brandi Robinson and Doug Goodstein who worked tirelessly to make this conference happen. And to our student volunteers from Penn State. Thanks also to Ben Culbertson (Shippensburg University) for chairing the Campus Sustainability Champions session and Rich Bowden (Allegheny College) for chairing the Poster Session and facilitating the Sustainability Café. Thanks also to Liesel Schwarz (Villanova University) for chairing the Strength in Numbers session as well as Don Brown (Widener University) and Brandi Robinson (Penn State) for organizing the Going to Zero session. And finally, thanks to the entire Executive Committee and to all the speakers for giving so generously of their time.

Sponsors

The conference is made possible by PERC Member Institutions, Sustaining Annual Sponsor [Sodexo](#), and these other Annual Sponsors: [Schneider Electric](#), [NextEra Energy Solutions](#), [Brookfield Renewables](#) and [Altenex](#).

Panels & Sessions

Speaker bios can be found later in the packet.

8:40am: Sustainability at Penn State

Speaker: Dr. Paul Shrivastava

Dr. Shrivastava is Chief Sustainability Officer of Penn State University and Director of the Penn State Sustainability Institute. He came to Penn State in 2017, having been the Executive Director of Future Earth, an international sustainability program. He'll share the state of sustainability at Penn State.

8:50am: PERC Campus Sustainability Champions

Speakers: Ben Culbertson, Andrew Shelly, Kathleen Schreiber, Rebecca Urban

PERC's Campus Sustainability Champion designation is a statewide effort to recognize individuals who are doing commendable work on moving sustainability

forward on their campuses and communities. All of the 2017-2018 CSC designees will be recognized and selected designees will give an overview of their work and answer questions about how their lessons learned might apply to your campus. Lycoming College senior Andrew Shelly will talk about his work on the Lycoming Environmental Audit; Millersville University's Kathleen Schreiber will discuss her experiences developing new courses on Sustainable Development and Systems Thinking; and Becky Urban of Lebanon Valley College will explain how putting together her college's new Environmental Science Program led to the creation of a 20-acre Research Preserve.



9:30am: *Strength In Numbers*

Exploring a PERC group to purchase renewables "in bulk"

Speakers: Liesel Schwarz, Mike Nolan, Chris O'Brien

PERC is looking into the idea of forming a "buying group" to allow a number of PERC institutions to go to market together. Liesel Schwarz, Villanova's Sustainability Manager, will talk about the concept and feedback we've gotten from Executive Committee schools so far. Two experts in the field, Mike Nolan of Schneider Electric's Energy & Sustainability Services group and Chris O'Brien, a renewable energy consultant who served earlier in his career as Director of Sustainability at American University, will discuss trends in renewable energy as it applies to large load users like higher ed as well as talk about the "buying group" concept including the ways it could make a difference for your campus. Attendees will be encouraged to participate: sharing their interest in the idea and challenges and benefits they see for their particular situation.

10:30am: *Fighting Food Waste on Campus*

The PA Higher Ed Food Recovery Challenge

Speakers: Josh Hooper, Ron Wood, Nell Fry and Jim Gurley

This past year, PERC was pleased to announce that one of the participating schools in the PA Higher Ed Food Recovery Challenge won a national EPA award

based on the food recovery work they are doing on their campus as part of the PHE-FRC. We'll hear from the award winner, Ursinus College and learn from Nell Fry, Sodexo's Director of Sustainability about the value the Food Challenge can bring to a campus. Find out how you can start—or rejuvenate—food recovery on your campus by joining this award-winning program.



11:10am: *Less Pizzazz, More Payback*

Energy efficiency as a driver for sustainability

Speakers: Larry Myers, Mike Mumper and Mike Kornitas



PERC members have illustrated a keen desire to drive sustainability within their own campuses. Why does such a noble cause often become a challenge for campus Administrators to implement? First, we will hear from two of PERC's sponsors, Mike Mumper of NextEra and Larry Myers of Schneider Electric that have some insight into this dilemma. They will address the importance of reducing consumption via energy efficiency in order to "right size" campus energy profiles. To further this cause, we intend to open a dialogue that is understanding of the competitive nature of a campus' limited fund stream while

communicating in a meaningful way the benchmarking of the community's energy consumption and carbon footprint.

We will then hear from Mike Kornitas, Sustainability Director, Rutgers University, about how he is able to drive sustainability efforts on his campus.

11:50am: Brookfield Renewables

Sponsor Spotlight

Speaker: Reid McDougall

Our newest Silver Annual Sponsor, Brookfield Renewables, owns and operates one of the world's largest renewable energy portfolios, anchored by more than 215 hydroelectric facilities; a number of those facilities are in Pennsylvania.

11:55am: Poster Session/Lunch

This year's poster session will be great chance discover and discuss work happening in other Pennsylvania institutions. Attendees should find wide array of topics and authors, from undergraduate to faculty to staff. Check it out!



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The poster session happens over the lunch hour.

1:00pm: Going to Zero

Connecting communities and colleges on climate

Speakers: Don Brown, Brandi Robinson

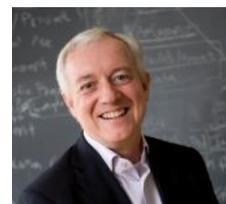
The Going to Zero program began last year in PERC and has grown into a partnership of many PERC schools and other non-profit entities. Though the model is still developing, the idea is to provide a mechanism by which colleges and universities can assist local communities' work on climate mitigation and resiliency. This session will explore the model and upcoming plans for activating municipalities across the state while also showcasing an example of a campus/community partnership from Millersville and Lancaster. Come to this session and share your success stories about work you're doing and to find out how to connect with communities to facilitate these important partnerships.

2:00pm: Keynote Address

Climate Change and National Security: People not Polar Bears

Speaker: Admiral David Titley

This talk will discuss why climate change is a national security issue. Climate change is about people, about water, and about change itself. Admiral Titley will cover some of the basic science and why mainstream climate scientists are very confident of their findings, how this challenge is being addressed, and what are the greatest challenges to national security that arise from



climate change. He will conclude with an assessment of future challenges and opportunities regarding climate change, from science, policy, and political perspectives. In addition, this talk will address how to effectively talk about climate change through the use of analogies, plain, non-jargon English, and even a little humor.

3:00pm: Sustainability Cafe

Facilitator: Rich Bowden

Learn and share in small groups! This breakout session is a perennial PERC favorite. Some of the tables will form around topics presented earlier in the day, others will be based on during-the-day input from the audience. The Sustainability Cafe is a great chance to connect in small groups with a goal of allowing the participants the chance to walk away with some action items for their own work.

Speaker Information

(Listed alphabetically by speaker's last name)

Richard Bowden, Allegheny College

Rich Bowden is a Professor of Environmental Science at Allegheny College. When not playing professionally with soil or trees, or working on various sustainability efforts on campus or in the community, he enjoys myriad outdoor activities, including kayaking, xc skiing, and inviting venison into his freezer. Rich has been a member of the PERC Executive Committee since 2000, and has served two stints as Executive Committee Chair and President.

Donald A. Brown, Widener University

Don is Scholar In Residence for Sustainability Ethics and Law and Professor, Widener University, Commonwealth Law School where he teaches International Environmental Law, Human Rights Law, and Climate Change Law. He is also a contributing author to the Intergovernmental Panel on Climate Change, 5th Assessment Report. He is also a part-time Professor, Nanjing University of Science and Technology, Nanjing, China, where he lectures regularly on climate change ethics. In 2013 he was a visiting Professor, Nagoya University, Nagoya Japan where he taught human rights law and comparative law. In 2014 he was

a visiting lecturer at Griffith University in Brisbane Australia where he lectured on international climate change issues. Previously he was Associate Professor of Environmental Ethics, Science, and Law at Pennsylvania State University where he taught interdisciplinary courses on climate change and sustainable development issues. His newest book was published in November 2012 by Rutledge/Earthscan, Navigating the Perfect Moral Storm, Climate Ethics.

Ben Culbertson, Shippensburg University

Ben Culbertson is associate professor of art and design at Shippensburg University where he has served on the environmental committee for the past nine years. He started making biodiesel from campus waste oil in 2006. He and his students built the first biodiesel/vegetable oil fired ceramics kiln in the state. He joined the PERC Board in 2015 and serves as PERC's President-Elect.

Nell Fry, Sodexo

Nell is Senior Manager of Sustainability Field Support for Sodexo North America's Office of Corporate Responsibility. In this role, Nell is responsible supporting our operators to implementing corporate responsibility practices, with an emphasis on waste reduction, throughout Sodexo's 13,000 sites in North America. Sodexo has committed to eliminating avoidable waste in all their locations by 2025 in alignment with the United Nations Sustainable Development goal 12.3 and the United States' target of 50% food waste reduction by 2030. Sodexo will take action accordance with the EPA Food Waste Hierarchy and ReFED's Roadmap to Reduce U.S. Food Waste. Nell is responsible for creating initiatives that can be rolled out to all Sodexo sites nationally to eliminate waste by raising awareness, improving processes, measuring impact and collaborating with other thought leaders.

Nell has a BS in Management from Georgia Institute of Technology. She started her career at Sodexo as a Sustainability Coordinator and Energy Analyst. Nell later joined EY where she supported the sustainability missions of Fortune 500 companies by working directly with a diverse client base to mitigate risk, manage brand value and make a positive impact on their communities and the world.

Jim Gurley, Sodexo

Jim has been the District Manager for Sodexho Universities segment over the past 30 years in Western PA, Southern NY, Eastern OH and Northern WV. He has managed as many as fourteen accounts with managed volume of \$43,000,000. He has developed a team of managers who have remained intact for unusually long periods of time, many who have accepted promotional opportunities. His team is very interactive and supports one another whenever and wherever needed. This has resulted in very solid relationships with our employees, customers and clients. He also has experience in Healthcare,

Corporate Services and the commercial restaurant sectors of the hospitality management industry.

A 1977 graduate from Penn State with a B.S. Degree in Hospitality Management, Jim was the Vice President of the Hotel and Restaurant Society – Student Chapter during his Junior and Senior years.

Josh Hooper, PERC

Josh is the Executive Director of PERC and has been since 2010. In concert with PERC’s Executive Committee, Josh led the transition from a voluntary association of universities and colleges to a 501(c)(3) non-profit impacting over 80 of Pennsylvania’s higher education campuses. Josh is in the Climate Reality Leadership Corp and as such is trained to present variations on founder All Gore’s Climate Reality slide show. In 2015, he was honored to accept for PERC the U.S. EPA’s award as Endorser of the Year in recognition of PERC’s development with Sodexo and the EPA of the PA Higher Ed Food Recovery Challenge.

Michael Kornitas, Rutgers University

Mike is the Director Sustainability and Energy for Rutgers University. CEM and LEED Accredited Professional. Chair of the Rutgers University Sustainability Committee, member of Rutgers Energy Institute and a research associate for the Rutgers Center for Green Building. Advisory Board for AASHE. VP NJHEPS and Co-Chair Big 10 and Friends Sustainability Committee.

Reid McDougall, Brookfield Renewables

Reid McDougall holds the position of Vice President, Business Development, within Brookfield Renewable’s North American platform. In this role, he supports the delivery of commercial and project development activities and drives growth strategies. Having recently joined Brookfield Renewable, Mr. McDougall brings in more than 15 years of operations, management and project development experience across several industry sectors. Mr. McDougall has a broad background in energy, water and waste management sectors, and extensive experience consulting with both public and private stakeholders. He has been responsible for the siting, design and construction of various facilities across western Canada and the US.

Mike Mumper, CRM, NextEra ESG

Mike is a Sr. Consultant with the NextEra Energy Solutions Group. He has received certification as Carbon Reduction Manager with the Association of Energy Engineers (AEE) and has a BS in Environmental Resource Management from The Pennsylvania State University. Mike has worked in the field of facilities consulting and facilities management for over 30 years, developing energy conservation projects for Shippensburg University, East Stroudsburg University

and Grove City College. He has provided consulting services for various educational facilities in the northeast and has been an active participant in PERC since 2011. His role with NextEra is to match end users with cost effective carbon reduction solutions and help customers successfully navigate the complexities of the present energy market. Mike serves on the board of the Central PA Chapter of AEE and is a member of the central PA chapter of POWER, a citizen's group focused on enforcement of the fair funding formula for public schools in PA.

Larry Myers, Schneider Electric, Energy & Sustainability Services

Larry Myers is with the Energy & Sustainability Services (ESS) group at Schneider Electric. He works with owners of public and private facilities to develop performance based conservation measures to reduce the energy requirements of public and private buildings and increase the comfort of their occupants. Mr. Myers seeks to develop a scope of work that maximizes the performance of facilities while maintaining fiscal responsibility. This requires interaction with corporate level administrators, building and plant operators, financial lenders, engineers and legislators. Additionally, Mr. Myers is a registered Professional Engineer with an MBA in Finance from St. Francis University, holds two US Patents and serves leadership roles with the Association of Energy Engineers, the PA Chapter of the Energy Services Coalition, the Advisory Committee of the Allegany College of Maryland's Bedford Campus, the American Society of Mechanical Engineers and the Southern Alleghenies Planning and Development Commission.

Mike Nolan, Schneider Electric, Energy & Sustainability Services

Mike Nolan is a Director of Strategic Renewables within the Energy & Sustainability Services (ESS) group at Schneider Electric. Our mission is to enable organizations around the globe to embrace clean, renewable energy solutions on the journey to Active Energy Management. Mike has spent the last 9 years focused on the energy space, most recently accelerating the growth of offsite renewable energy investments/projects within the US. Prior to Schneider Electric, Mike managed client relationships with US utilities for the consulting firm BRIDGE Energy Group. Mike graduated from St. Michael's College, in Winooski, Vermont.

Chris O'Brien, independent renewable energy consultant

Chris was the Director of Higher Education Programs at Edison Energy, where he helped campuses catalyze the transformation of America's electricity supply to clean and renewable sources. Previously, he was the Director of Sustainability at American University, where he lead all sustainability functions, including the university's commitment to achieving climate-neutrality by the year 2020. Chris spearheaded the university's power purchase agreement from a 52 megawatt solar PV project, which was the largest non-utility PPA in higher education at the

time. He teaches about energy, climate, carbon markets and sustainable purchasing in the Sustainability Management program at AU's Kogod School of Business. He is also a founding board director of the Sustainable Purchasing Leadership Council, and serves on the Association for the Advancement of Sustainability in Higher Education's (AASHE) Advisory Committee.

Brandi Robinson, Penn State University

Brandi has been a lecturer and academic adviser in the Department of Energy and Mineral Engineering at Penn State since 2010 where she teaches courses for the Energy and Sustainability Policy program (GEOG 432 Energy Policy and GEOG 438W Human Dimensions of Global Warming). Brandi is currently chairing the Ferguson Township Climate Action Committee to develop a GHG emissions inventory and climate action plan for this State College-area municipality. Prior to returning to Penn State, Brandi was a policy analyst and account manager for Environmental Credit Corp., a leading US-focused greenhouse gas offset project developer. In 2005, Brandi completed a Master of Geography from Penn State University in which she focused on local scale greenhouse gas mitigation strategies for the University Park campus. After graduating, Brandi worked for the Office of Physical Plant to complete greenhouse gas emissions inventories of the Commonwealth campuses and work on University-wide mitigation planning efforts.

Kathleen Schreiber, Millersville University of Pennsylvania

Dr. Schreiber is Professor of Geography specializing in environmental studies at Millersville. Her research focuses on climate and its interrelationships with the biosphere and environmental quality. She has served on the Executive Board of PERC, and chaired both the American Meteorological Society Committee on Environmental Stewardship and the Millersville University Climate Action Committee. She is introducing new courses into the curriculum on Sustainable Development and Systems Thinking in Sustainability.

Liesel Schwarz, Villanova University

Liesel is a graduate of the University of Rochester, where she studied sustainability planning and development and worked for 3 years in the dining services department on sustainability initiatives. After graduating, she worked as the sustainability planner for SWBR Architects in Rochester, NY, where she practiced sustainable design, specifically the LEED rating system, and achieved LEED AP O+M accreditation. Mrs. Schwarz is now the sustainability manager for Villanova University, and is responsible for complying with the carbon commitment, as well as working with faculty, staff and students to make Villanova a more sustainable place to work, live, and play.

Paul Shrivastava, Penn State University

Dr. Paul Shrivastava is Chief Sustainability Officer of Penn State. He is also

Director of Sustainability Institute, and Professor of Management at the Smeal College of Business. Prior to this he served as the first Executive Director of Future Earth global research platform.

He has published 17 books and over 100 articles in refereed and scholarly journals. He has served on the editorial boards of numerous leading management education journals. His work was recognized with a Fulbright Senior Scholar Award and IIM Calcutta Distinguished Alumni Award.

Andrew Shelly, Lycoming College

Andrew Shelly is a senior biology major at Lycoming College from West Grove, Pennsylvania. He is presenting on his work with Dr. Mel Zimmerman on the 8th edition of the Lycoming College Environmental Audit conducted in the spring of 2017. Andrew is also the president of the Sustainability Committee at Lycoming College that focuses on two main programs, TerraCycling and food recovery. To date the Lycoming College Sustainability Committee has TerraCycled 21,144 items and recovered 34,859 pounds of food!

Tom Simpson, Franklin and Marshall College

Tom Simpson has been the Sustainable Coordinator at F&M College since 2008. Previously he also was Liaison to the College's Millport Conservancy, and prior to that was a science teacher in Millan, Italy and Lebanon and Lancaster, PA. He lives in Lancaster city with his wife and has two adult children. Tom is active in several local environmental and land preservation initiatives. In his spare time he coaches cross country and track at Lancaster Catholic High School.

Chris Steuer, Millersville University

Chris is the Sustainability Manager for Millersville University where he coordinates and advances Millersville's sustainability initiatives and programs, including developing and implementing the University's Climate Action Plan and incorporating sustainable management principles into University activities and operations. Previously, Mr. Steuer was a Senior Sustainability Management Consultant for ICF International, wherein he helped developed sustainability programs for various public and private sector clients, including the National Park Service, Environmental Protection Agency, and U.S. House of Representatives. Mr. Steuer received his B.S. and M.S. in Geography from Penn State and while there prepared the University's greenhouse gas emission inventory.

David Titley, Penn State University

Admiral Titley is the director of Penn State's Center for Solutions to Weather and Climate Risk. He is a nationally known expert in the field of climate, the Arctic, and National Security. He served as a naval officer for 32 years and rose to the rank of Rear Admiral. Dr. Titley serves on numerous advisory boards and

committees, including the CNA Military Advisory Board, the Center for Climate and Security and he chairs the National Academies of Science Engineering and Medicine's "Climate Communications Initiative."

Among numerous other recognitions for his work, Admiral Titley is one of the Climate 25, a project that features interviews with "the world's 25 most compelling voices" on climate change.

Rebecca Urban, Lebanon Valley College

Rebecca is an Associate Professor of Biology and Program Director of the new Environmental Science major at Lebanon Valley College. She also serves on LVC's Sustainability Advisory Committee where she is involved on the Climate Action Plan subcommittee, and is the driving force behind the annual Earth Days activities. Recently she created a successful proposal that designated 20 acres of LVC's campus as the Wood Thrush Research Preserve. Rebecca also conducts research with undergraduate students on invasive plant ecology, both locally and in Adirondack Mountain lakes of New York.

Ron Wood, Sodexo

Ron Wood, CEC is the General Manager of Ursinus College's Dining Service. A 1983 Graduate of The Culinary Institute of America, Ron began his training at The Greenbrier in White Sulphur Springs, West Virginia as a Butcher and Saucier. Ron later served as Executive Chef at the Willson-Walker House fine dining restaurant, in Virginia. In 1987 Ron joined The Wood Company (now Sodexo) and has held management positions at Delaware Valley College, Lehigh University and Ursinus College, where he has been General Manager for the last 13 years. He received his Certified Executive Chef from the American Culinary Federation in 2000.

Ron is active working on sustainability issues through his partnership with the Ursinus College Office of Sustainability, ENV Department and various student groups.

Sponsor Information

Sustaining Annual Sponsor PHE-FRC Funding Sponsor



QUALITY OF LIFE SERVICES

Sodexo’s corporate responsibility roadmap helps us monitor our progress on nine clear commitments that are fully aligned with the UN’s Sustainable Development Goals and cover all impacts of our business. The roadmap gives us, and all those we work with, a shared focus on our long-term future.

As a global business, we have three different but connected roles in the world: we are an employer, a service provider and a corporate citizen. Better Tomorrow 2025 will help us exceed our own and others’ expectations in all three of these roles so we can use our unique position to make a difference. We can stand with the best on the issues we can own, like hunger, gender and waste. And we can do the right thing for everyone, as a truly responsible, global business. For more information about our Better Tomorrow 2025 roadmap, watch this [video](https://www.sodexo.com/Bettertomorrow.html) and visit <http://www.sodexo.com/Bettertomorrow.html>.

9 COMMITMENTS	INDIVIDUALS	COMMUNITIES	THE ENVIRONMENT
AS EMPLOYER	Improve the Quality of Life of our employees	Ensure a diverse workforce and inclusive culture that reflects and enriches communities we serve	Foster a culture of environmental responsibility within our workforce and workspaces
AS SERVICE PROVIDER	Provide and encourage our consumers to access healthy lifestyle choices	Promote local development, fair, inclusive and sustainable business practices	Source responsibly and provide management services that reduce carbon emissions
AS CORPORATE CITIZEN	Fight hunger and malnutrition	Drive diversity and inclusion as a catalyst for societal change	Champion sustainable resource usage

Gold Annual Sponsor



PERC Gold Sponsor Waste Management, Inc., based in Houston, Texas, is the leading provider of comprehensive waste management services in North America. Through its subsidiaries, the company provides collection, transfer, recycling and resource recovery, and disposal services. It is also the largest residential recycler and a leading developer, operator and owner of waste-to-energy and landfill gas-to-energy facilities in the United States. In addition to higher education, the company's customers include residential, commercial, industrial, and municipal customers throughout North America.

Waste Management has implemented programs specifically targeted at helping higher education increase sustainability. For more information, go to www.wm.com/enterprise/college-and-university

Silver Annual Sponsors



In December 2017 we were ranked #1 Energy Services Company by Navigant Research

We help colleges and universities do more with less

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-  Uncover hidden revenue
-  Modernize classrooms
-  Attract faculty & students

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From coast to coast, our clients range from small community colleges to large state university systems. Find out more at www.enable.schneider-electric.com/





NextEra Energy Solutions is honored to support the mission and vision of PERC through our annual sponsorship. As the largest owner/operator of wind and solar generation systems in the U.S., supporting the exploration and implementation sustainable options is at the core of what we do. NextEra designs solutions for customers that bring together technology, generation and engineering to reduce energy consumption and sustainably source energy. We have been named one of the world's Most Ethical Companies by Ethisphere 11 times. In February of 2018, AT&T signed one of the largest virtual power purchase agreements (VPPA) with NextEra to purchase 520 MW of wind power from 2 wind farms. This is a key component of AT&T's goal "to develop and leverage technology solutions that enable carbon savings 10 times the footprint of its operations by 2025." NextEra Energy is well positioned to provide key services to enable customers to deal with the next era of energy management and procurement. For additional information please visit our web sites <http://www.nexteraenergy.com/sustainability.html> Or www.nexteraenergysolutions.com

Brookfield | Power. Naturally.
Renewable

Brookfield Renewable Partners operates one of the world's largest publicly traded, pure-play renewable power platforms. Our portfolio consists of solar, wind and hydroelectric power in North America, Latin America, Europe and Asia, and totals more than 16,400 megawatts of installed capacity. In the State of Pennsylvania, Brookfield Renewable owns & operates four hydropower facilities, generating 750 megawatts of clean, renewable energy. Brookfield Renewable is listed on the New York and Toronto stock exchanges. Further information is available at www.brookfieldrenewable.com

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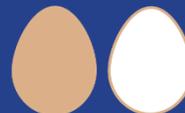
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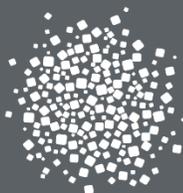
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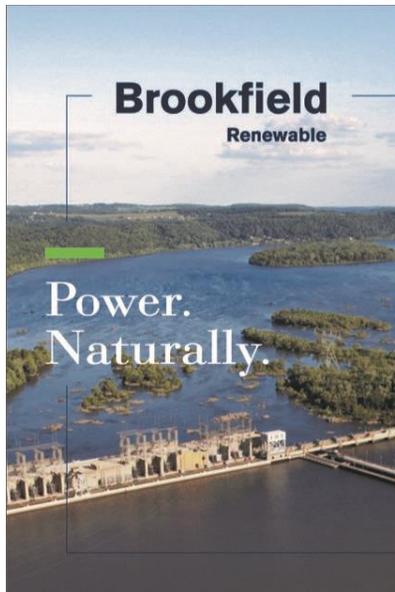


Schneider Electric: Silver Sponsor of PERC

Schneider Electric has been a PERC Silver Sponsor since 2011. Again, we have elected to carry on this tradition for another year. We are honored to be a part of such a great organization that is helping students, faculty and Directors of Sustainability to connect, collaborate and take action.

Enabled by corporate sponsors and memberships, PERC is able to allow individuals to share knowledge about research and best practices. Repeatedly this collaboration has led to projects that move each of us toward a more sustainable future. This resonates clearly with our corporate mission.

Find out more about how we Enable our clients to do more with less at www.enable.schneider-electric.com/



Brookfield Renewable

Brookfield Renewable is a committed community partner and environmental steward, generating over 750 megawatts of **clean, renewable energy** which includes hydropower and solar across Pennsylvania. We are the proud owners & operators of:

- Safe Harbor
- Holtwood
- Piney Hydroelectric
- Lake Wallenpaupack

Brookfield Renewable values **strong partnerships** with local communities, government agencies, academic institutions & NGOs. These partnerships have led to beneficial outcomes for the regions where they operate, such as:

- The operation of a premier Whitewater Facility
- The donation of over 500 acres of land to the Lancaster County Conservancy
- Recognition for proactive, environmentally friendly efforts
- Numerous parks and recreational facilities, boat launches, etc.

brookfieldrenewable.com