



Pennsylvania Environmental
Resource Consortium

Making Progress

Working on Climate Change In Pennsylvania Higher Education

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Pennsylvania Environmental
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AGENDA

Making Progress

Climate Change Action In Pennsylvania Higher Education

8:00-9:00am	Check-in, light refreshments, networking
9:00-9:10am	Conference begins, opening remarks
9:10-9:20am	▶ Sustainability at Susquehanna University
9:20-10:20am	◆ PANEL: MEASURING PROGRESS
10:20-10:35am	Break/ Networking
10:35-45am	▶ Community Energy/ PERC program: "Building Keystone Solar"
10:45-11:50pm	◆ PANEL: PERFORMANCE PROGRESS
11:45-12:50pm	Lunch, networking, tour of Science Center
12:55-1:20	▶ PERC Update ▶ Summit Energy/PERC program to encourage renewable energy procurement ▶ Sustainable Energy Fund/ PERC Member Benefit: Free Energypath 2013 Scholarships
1:20-2:20pm	◆ PANEL: COMMUNICATING PROGRESS
2:20pm	▶ Combined Heat and Power on campus— New developments including "mini-apps"- MACEAC
2:30pm	Break/ Networking
2:50pm	▶ PERC Update II
3:00pm	◆ SUSTAINABILITY CAFE
3:50pm	Closing Remarks



Panels (◊) & Presentations (▶)

(Listed in order of presentation. See next section for speaker bios)

▶ SUSTAINABILITY AT SUSQUEHANNA UNIVERSITY

Eric Lassahn, *Director, Residence Life & Center for Civic Engagement*
Susquehanna University

◊ PANEL: MEASURING PROGRESS

Challenges that need to be dealt with in setting reliable metrics on energy use including energy efficiency and greenhouse gas (ghg) inventories. This will include examination of what is measured, who is responsible for measurement, software issues in measuring energy efficiency and greenhouse gas. Panelists include:

- **Dina El-Mogazi**, *Director, Campus Greening Initiative*
Bucknell University
- **Brittany Prischak**, *Sustainability Officer*
Mercyhurst College
- **Dan Webster**, *Sustainability Projects Coordinator*
Dickinson College
- **Julia Knight**, *Director, Office of Sustainability*
HACC

▶ BUILDING KEYSTONE SOLAR—A PERC PARTNERSHIP

Tom Tuffey, *Vice President, Project Services*
Community Energy Inc.

◊ PANEL: PERFORMANCE PROGRESS

This panel will describe what we currently know about Pa schools' achievements in reducing greenhouse gases (ghg) emissions from campus activities while sharing experiences of what has and has not worked. How are individual Pa schools doing in leading civil society to reduce the enormous threat of climate change both individually and in comparison to each other? What can be learned by Pa institutions of higher ed from the efforts of an individual school's attempts to measure, develop action plans, set emissions reduction targets, and achieve actual ghg emissions? Following initial presentations there will be a discussion of barriers, challenges, and successful strategies for improving Pa schools' performance on making higher education a leader in reducing the threat of climate change. Panelists include:



- **Julia Knight**, *Director, Office of Sustainability*
HACC
- **Donald Brown**, *Scholar In Residence, Sustainability Ethics and Law*
Widener University School of Law
- **Katherine Schreiber**, *Professor of Geography*
Millersville University
- **Katherine Straub**, *Associate Professor, Earth & Environmental Sciences*
Susquehanna University
- **Jessica Holtzapple**, *PERC Intern/ Student*
Millersville University

Lunch / Networking/ Tour

▶ **ENCOURAGING RENEWABLE PROCUREMENT: A PERC PARTNERSHIP**

Bill Oppenheim, *Client Manager*
Summit Energy

▶ **SCHOLARSHIPS TO ENERGYPATH 2013: A PERC PARTNERSHIP**

Jennifer Hopkins, *President*
The Sustainable Energy Fund

▶ **COMBINED HEAT AND POWER ON CAMPUS**

Bill Valentine, *Program Manager*
Mid Atlantic Clean Energy Application Center

◇ **PANEL: COMMUNICATING PROGRESS**

As people working in the field of sustainability, whether students, staff or faculty, we know that there are many challenges facing us in our efforts toward making our campuses more sustainable. We are not alone, and as members of PERC, we should be able to work together to learn how to overcome some of those challenges, and offer lessons of our own to other members. Through this panel, we will present ways some of our schools have been able to build success on other successes through communication efforts. Our examples will include checking the validity of our greenhouse gas emissions inventories and energy data, successful internal communication and external communication, and how to overcome some specific challenges. We would like to provide PERC members with new ways to view success and the tools to drive that success, to leverage these to the administration in order to get other sustainability projects done; building success on other successes. Panelist and their topics include:



- » *Using energy data to review, "proof" and understand campus progress*
 - **Mike Mumper**, *Director*
 - High Construction Energy Solutions Group

- » *Internal communication involved with a successful recycling program*
 - **Ann Bolla Quinn**, *Director, Greener Behrend*
 - Penn State Univ., Erie: The Behrend College

- » *External and Internal Communication needs for sustainability initiatives*
 - **Cliff Wills**, *Director Physical Plant*
 - Allegheny College

- » *Benefits of perseverance and patience in overcoming sustainability communication challenges*
 - **Brittany Prischak**, *Sustainability Officer*
 - Mercyhurst College

◇ **SUSTAINABILITY CAFÉ**

Don't miss this latest PERC Sustainability Café. The Café is designed to elicit input about priorities from PERC membership and to build a framework to begin to turn talk into action. This Fall's Café will be lead by Rich Bowden, PERC's President.

- **Rich Bowden**, *Professor, Dept. of Environmental Sciences*
 - Allegheny College

Speaker Information

(Listed alphabetically by speaker's last name)

Richard Bowden
President, PERC
Professor, Dept of Environmental Sciences
Allegheny College

Rich's research and professional interests are quite broad. He conducts research collaboratively with great colleagues at a variety of institutions, in a number of wonderful ecosystems. This collaborative work in coordinating and integrating a variety of large-scale and long-term studies is enabling Rich and his colleagues to better understand the complex ways in which human disturbances (acid rain, global warming, forest harvesting) compare to the variety of natural disturbances (e.g. hurricanes, local windstorms) that constantly affect forests.



Rich has been involved with PERC in a leadership role almost from its inception and is currently finishing a term as PERC's president. In addition to his work with PERC, Rich is also involved in other efforts to promote environmental sustainability. He is the project director for the Allegheny College Center for Economic and Environmental Development. CEED engages in local and regional projects that demonstrate that economic and environmental decisions can work together to foster economic vitality and maintain ecosystem integrity. Work with CEED focuses mainly on forest and ecotourism issues. Rich is also active in Northwest Pennsylvania Woodland Association, an organization of forestland owners and others interested in sustainable use of forest resources.

Donald A. Brown

**Scholar In Residence for Sustainability Ethics and Law
Widener University School of Law**

Brown is a contributing author to the Intergovernmental Panel on Climate Change (IPCC), 5th Assessment Report. Previously he was Associate Professor of Environmental Ethics, Science, and Law at the Pennsylvania State University where he taught interdisciplinary courses on climate change and sustainable development. Prior to that, he was an environmental lawyer for the states of Pennsylvania and New Jersey and Program Manager for United Nations Organizations at the United States Environmental Protection Agency's Office of International Environmental Policy. In this position he represented US EPA negotiating sustainability issues at the United Nations including climate change, international water issues, biodiversity, and Agenda 21. Mr. Brown has written extensively on climate change and sustainability issues and lectured on these matters in 30 countries. His newest book will be published in November 2012 by Rutledge, Earthscan, *Navigating the Perfect Moral Storm, Climate Ethics*. He manages an award winning blog EthicsandClimate.org, a publication that reviews ethical issues that arise in climate change policy formation.

Clara Changxin Fang

**Author *Residence on Earth* blog
PERC project leader**

Clara Changxin Fang works with businesses and institutions to develop and implement sustainability initiatives that save money and improve environmental performance. Recently she worked with Swarthmore College to develop its greenhouse gas inventory, climate action plan, and sustainability outreach and communication. Prior she worked with the Mayor's Office of Energy and Sustainability in Albany, New York on its greenhouse gas inventory, municipal climate action plan, and the sustainability components of the city's comprehensive plan. In addition she worked as a consultant for the City of New Rochelle, New York on its greenhouse gas inventory and sustainability plan.

Ms. Fang earned a Master of Environmental Management from the Yale School of Forestry and Environmental Studies. While completing her graduate studies, she



worked with the Yale Office of Sustainability to develop a composting and waste management program for Yale. In addition she helped to write *The Green to Gold Business Playbook: Implement Sustainability Practices for Bottom-Line Results in Every Business Function* (2011) published by Wiley.

Jessica Holtzapple
Student and PERC Intern
Millersville State University

Jess is an Environmental Geography major with minors in sociology and anthropology who has been working on collecting data for PERC survey of GHG progress. She was born and raised in York county and a student of Red Lion Area School district. Jess' passion for the environment and human rights lead her to become involved with Amnesty International and the Conestoga Club when first arriving at Millersville as an undecided freshman. Her interest in human culture and its impact on the environment lead her to take a short study abroad trip through Central America to see ongoing development in action and experience firsthand how that affected the people and the environment. She believes in a sustainable future where people can live in a sustainable manner to preserve the planet for current and future generations and hopes to be a leader towards that future.

Jennifer Hopkins
President
Sustainable Energy Fund

Jennifer Hopkins is the President of Sustainable Energy Fund. Prior to joining SEF, Ms. Hopkins has been employed as Controller for several profit and nonprofit entities. She has significant and varied experience in the accounting sector and is now focused on running the Sustainable Energy Fund; an organization that promotes renewable energy and energy efficiency projects. She is a graduate of the Pennsylvania State University and has an MBA from the University of Scranton. She is a Certified Public Accountant and a Certified Renewable Energy Professional.

Julia Knight
Director, Office for Sustainability, Adjunct Instructor
Harrisburg Area Community College

Julia Knight, Director, Office for Sustainability at Harrisburg Area Community College (HACC), has served in this role for the last year, and has served as an Adjunct Instructor at the college since 2005. Julia has a B.S. in Geology from St. Lawrence University and an M.S. in Geology from Old Dominion University, and is a registered professional geologist in Pennsylvania and a LEED Accredited Professional. She has served on the college Sustainability Task Force since 2009, led the initial efforts to conduct a campus Greenhouse Gas Inventory, and is currently working on campus sustainability initiatives, including a Sustainability Strategic Plan



Eric Lassahn

**Director, Residence Life & Center for Civic Engagement
Susquehanna University**

Lassahn oversees the staffing, programmatic and operational aspects of Susquehanna University's on-campus housing and serves on Susquehanna's Sustainability Committee. His department also includes the Center for Civic Engagement, which offers many of the university's volunteer service, community-based learning, and service trip opportunities for students. He also serves as an instructor for the Perspectives and Disaster Impacts in Society courses. He has led six SU Hurricane Relief Teams to the Gulf Coast. Before joining Susquehanna in 2005, Lassahn was the director of housing and residence life at Notre Dame de Namur University in Belmont, Calif.

Dina El-Mogazi

**Director, Campus Greening Initiative
Bucknell University**

Dina El-Mogazi, Director of the Bucknell University Environmental Center, serves as the primary facilitator and advocate for sustainable environmental practices, environmental literacy, and ecologically sound campus design and planning at Bucknell. Dina holds a graduate degree in landscape architecture and an undergraduate degree in chemistry, and serves as an adjunct professor in Bucknell's Environmental Studies Program. Dina and her colleagues are currently working on Bucknell's fourth greenhouse gas inventory.

Mike Mumper, CRM

Director

Energy Solutions Group, High Construction Company

Mike Mumper, is certified as a Carbon Reduction Manager (CRM) by the Association of Energy Engineers and provides input to design and renovation projects being managed by High Construction. His primary role is to help clients reduce energy consumption in new and existing facilities. His degree, from The Pennsylvania State University, is in Environmental Resource Management. His most recent work with PERC has been to compile data detailing energy use as it relates to emissions and Greenhouse Gas Inventories. This side-by-side comparison has been the source of background information and benchmark data for some of the panel discussions included in today's agenda.

William Oppenheim

Client Manager

Summit Energy

Mr. Oppenheim is responsible for client energy management in the Mid-Atlantic region for Summit Energy, a subsidiary of Schneider Electric, overseeing and facilitating Summit's energy management services for clients. He also has regional business development responsibilities. Prior to working for Kimball Resources and subsequently Summit Energy (who purchased Kimball in 2008) in this capacity, Mr. Oppenheim worked at PECO Energy for 29 years as a gas and electric engineer. The last 10 years at PECO he managed the Gas Acquisition



and Planning group responsible for purchasing natural gas supplies for PECO's gas customers. Education: Bachelor and Master degrees in Civil Engineering from Villanova University

**Brittany Prischak
Sustainability Officer
Mercyhurst College**

Brittany Prischak, Mercyhurst University's Sustainability Officer, joined the university's Green Team staff in 2009, after graduating from Mercyhurst College with a B.S. in Forensic Science and Biology. She was the lead author of the campus Greenhouse Gas Inventory and Climate Action Plan, and currently coordinates the campus sustainability initiatives. Brittany is using the software package, Mosaic™, to track college energy efficiency and carbon emission trends. Brittany is also working on a few other major campus projects including sustainability course development, a hiking and biking trail system for Girard and Lake City communities, and implementation of a university composting program.

**Ann Quinn
Director, Greener Behrend
Penn State Erie, The Behrend College**

In addition to her role as Director of Greener Behrend, Ann also serves as lecturer in biology at the College. she has been with Penn State Erie, The Behrend College since 2006. Working with sustainability issues on campus, Ann works closely with students, faculty and staff. Behrend has enhanced their recycling efforts, initiated composting on campus, brought in environmental speakers, begun free bus service for students, organized a viable student group and a group of like minded faculty and staff.

**Dr. Kathleen V. Schreiber
Department of Geography
Millersville University of Pennsylvania**

Kathleen V. Schreiber is Professor of Geography, Millersville University of Pennsylvania near Lancaster, PA. She teaches the department's environment-based courses, from Biogeography to Environmental Impact Assessment to Climate and Society. Her research endeavors focus on climatic interrelationships with human and environmental health, including the impact of interannual climate variations on Chesapeake Bay water quality, and application of downscaled climate projections to vector-borne disease. She has she has served as past editor for the International Journal of Biometeorology, and is a member of the American Meteorological Society's Committee on Environmental Responsibility, aiming to green AMS operations and reduce the organization's greenhouse gas footprint. Dedicated to local community environmental protection, she engages her students in community-based research and environmental service. She is a member of the Millersville University Sustainability Committee, and has served on the boards of the Lancaster County Clean Water Consortium and Lancaster County Conservation District.



Kathy Straub
Associate Professor of Earth & Environmental Sciences
Susquehanna University

Straub is an atmospheric scientist and teaches Weather and Climate, Introduction to Meteorology, Tropical Climate, and Climate and Global Change. In addition, she is involved in many sustainability initiatives on campus, including an environmental audit, greenhouse gas inventory, and a sustainability film series. Straub's research focuses on the intraseasonal variability of the tropical atmosphere, particularly the initiation of the Madden-Julian Oscillation (MJO). The MJO's large-scale cloudiness and rainfall signature impacts tropical and extratropical weather prediction as well as tropical cyclones and monsoon circulations.

Straub also recently published a study on the variability in tropical cloudiness in global climate model data collected by the Intergovernmental Panel on Climate Change (IPCC). She is currently collaborating on a National Science Foundation-sponsored research project on MJO simulations in a Lagrangian atmospheric model. Straub has published in the Journal of the Atmospheric Sciences, Journal of Climate, Monthly Weather Review, Reviews of Geophysics, Quarterly Journal of the Royal Meteorological Society, and Dynamics of Atmospheres and Oceans.

Tom Tuffey
Vice President, Project Services
Community Energy, Inc.

Dr. Tuffey leads energy development services including regulatory policy, company strategy, and capital formation.

He has 40 years of experience in energy and environment, and served as Executive Vice President of a 3000 person global environmental engineering company. Dr. Tuffey has his PhD in Environmental Sciences, is a graduate of the Wharton School of Business Advanced Management Program, and served on the faculty of Rutgers University in the Water Resources Research Institute and the Bureau of Engineering Research. He has also worked in venture capital, publishing, and management consulting. Most recently, he was the Founder and Executive Director of the Sustainable Energy Fund and Director of the Center for Energy, Enterprise and the Environment at PennFuture. He has served on a dozen company Boards and received honors throughout his career including the award by the US Department of Energy as the Wind Advocate of the Year 2009-East Coast. He is a founding member of the Middle Atlantic Renewable Energy Coalition and served on the Executive Committee of the Clean Energy States Alliance.



Bill Valentine

Program Manager

Mid Atlantic Clean Energy Applications Center

Bill is in the Architectural Engineering Department at Penn State University and is responsible for managing the Mid Atlantic Clean Energy Applications Center, located at the Philadelphia Navy Yard in Bldg 100. The MACEAC is a Department of Energy program tasked with promoting the use of Combined Heat and Power, District Energy and Waste Heat Recovery throughout the Mid-Atlantic region. He previously worked for the Naval Surface Warfare Center, with experience in Research, Test and Evaluation, and Systems Engineering of US Navy ship machinery systems, particularly main propulsion and power generation systems. He is a graduate of Drexel University.

Dan Webster

Sustainability Projects Coordinator

Dickinson College

Dan Webster is the Sustainability Projects Coordinator at the Dickinson College Center for Sustainability Education. He earned a B.A. in English from Messiah College and an MFA in Creative Writing from Bennington College. Dan has been primarily responsible for the campus Greenhouse Gas Inventory, supervising a cadre of CSE interns and the Biodiesel Shop, and overseeing the STARS report. In December, Dan will leave the college to work full-time as the Editor-in-Chief of Local: A Quarterly of People and Places.

Cliff Willis

Director of Physical Plant

Allegheny College

Cliff Willis is the Director of Physical Plant at Allegheny College. His primary responsibility is the management of the 33-member Physical Plant staff in providing maintenance, construction and operation support to the 77-acre main campus and 203-acre outdoor recreational complex that host 46 major buildings (approximately 1.4 million square feet) and 32 houses used as student residences. The College was founded in 1815 and, although there has been a significant amount of recent construction, the average age of the College buildings is over 50-years. Cliff has a Bachelor's Degree from West Point and a Master's Degree from University of Illinois. He is a Registered Professional Engineer in Pennsylvania and Virginia with over 26 years of experience in facilities maintenance.



Sponsor Information

Gold Annual Sponsor



PECO is proud to sponsor PERC and congratulates the Green PA team on the Leveraging Strengths symposium. PECO is an energy delivery subsidiary of Exelon Corporation. Headquartered in Philadelphia, PECO is the largest electric and natural gas utility in Pennsylvania.

As part of its Act 129 commitment to reduce electricity consumption in its territory, PECO created a program called Smart IdeasSM to work with individuals, businesses and institutional organizations including colleges and universities to reduce energy demand. In addition to existing programs, PECO's Smart IdeasSM plan opens the door to custom programs, developed with the institutional customer.

In addition, the company has been widely recognized for its community, economic development, operational and environmental efforts including:

- PECO's first 'green' building in West Chester, PA—expected to use about 20 percent less energy and 40 percent less water than other buildings
- A 50 percent increase in wind energy to power our headquarters in Philadelphia— 15 percent of the energy we use is now provided by wind power

For more information, visit: www.pecosmartideas.com



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PERC Gold Sponsor Community Energy, Inc. (CEI) was founded in 1999 to ignite the market and develop the supply of fuel-free energy. Under the leadership of its founders, and with cooperation from PERC's Member Schools, CEI built the voluntary market for renewable energy, spurring the demand for hundreds of Megawatts of new wind generation ahead of state mandates. CEI currently delivers renewable energy to over 120,000 customers through direct sales and 21 partnerships with electric utilities and suppliers. The company was awarded the American Wind Energy Association's "Market-Maker" Award in 2002.

While leading the voluntary market for renewable energy, CEI also began developing wind farms. Also in 2005, Community Energy earned the Department of Energy's "Green Power Supplier" Award.

In the winter of 2009-2010, CEI completed its first rooftop, behind-the-meter solar projects and began developing utility-scale solar projects. Community Energy is under construction on Keystone Solar, a 5 MW (dc) solar project in Lancaster County, Pennsylvania. Once completed, Keystone Solar will be the largest solar project in Pennsylvania and will eliminate 5,516 tons of carbon dioxide.

As part of a special PERC/ Community Energy program, several PERC schools, including F&M, Eastern and Millersville have taken leadership roles and signed agreements to purchase solar power from the project.

More information about Community Energy is available on the web at www.communityenergyinc.com



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 Sponsor



PERC Silver Sponsor Summit Energy provides energy management and sustainability services to organizations in a wide range of industries, including higher ed. Founded in 1991, Summit has experience with companies worldwide procuring cost-effective and sustainable energy. Summit Energy's team manages more than \$20 billion in annual energy spend for more than 650 companies and thousands of facilities.



Summit Energy challenges organizations to view energy and sustainability issues strategically, ensuring that all decisions support the financial and operational integrity of your business.

Summit Energy has partnered with PERC on a Renewable Energy Promotion program. Like with many an affinity program, PERC Member Schools are offered a discount on Summit Energy's procurement services; unlike other programs, the amount of the discount increases as the percent of renewable energy increases. The greater the portion of your energy that comes from renewable sources, the greater the discount on Summit Energy services.

Find out about the specifics of the PERC/ Summit Energy Program from Bill Oppenheim: william.oppenheim@summitenergy.com

Bronze Annual Sponsor



Energy Solutions and Sustainability Services

High Construction's Energy Solutions Group is proud to be an active PERC sponsor with our Director, Mike Mumper, participating in the Campus Sustainability Team and leading a PERC group researching the feasibility of a PERC inter-campus benchmarking project.

The Energy Solutions Group provides a wide array of services to analyze, design, and implement facility improvements that reduce carbon footprint while reducing operating costs for higher education and other organizations.

Energy Solutions and Sustainability Services include:

- Energy benchmarking and analysis
- Quantification of utility-related carbon footprint
- Investment-grade energy audits
- Turnkey energy-saving retrofits and renovations
- Expansion projects which include a performance metric or carbon budget
- Retro-commissioning of existing systems and facilities
- Energy Star & LEED certifications
- Public relations information regarding sustainability efforts



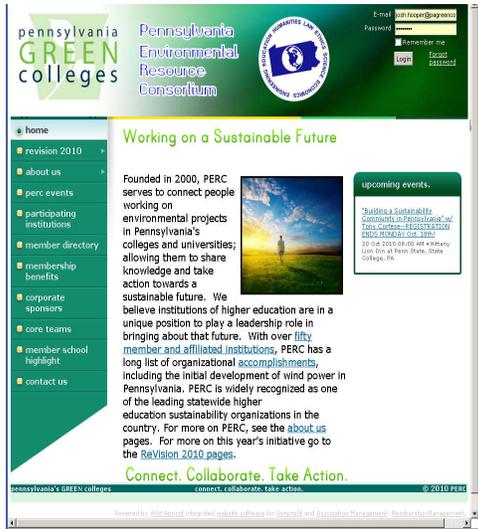
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High Construction's Energy Solutions Group has discovered that sustainability projects are easier to initiate when looked at from the perspective of multiple, demonstrable benefits.

- Improved energy efficiency
- Improved occupancy comfort
- Replacement of aging equipment
- Solving building operational issues

www.highconstruction.com/hcc/AboutUs/Services/EnergySolutions/EnergySolutions.html



Stay in touch with what's happening at the PERC web site, pagreencolleges.org.

Once logged in, you can register for events at reduced prices, access material from past conferences and connect with other PERC members through our online directory—and more!



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We put our energy into the environment.

At PECO, we're committed to reducing our carbon footprint and preserving the environment. That's why we contribute more than \$500,000 in support of local environmental programs. We're also doing our part with a new green roof at our Main Office Building, by driving a fleet of hybrid trucks, and installing a new, energy efficient LED Crown Lights system.

Find out more at www.peco.com/green
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Summit Energy is proud to partner with PERC in our Renewable Energy Promotion Program, offering discounts on our services to PERC Member Schools that increase based on the amount of renewable energy employed. Found out more: william.oppenheim@summitenergy.com



**COMMUNITY
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**The Keystone Solar Project:
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For more information, contact Byron Woodman at Byron.Woodman@CommunityEnergyInc.com.

www.CommunityEnergyInc.com