Welcome to the 2019 Better Buildings, Better Plants Summit!

We are glad you are here and are excited to be working with you to improve the efficiency and resiliency of our nation’s buildings, manufacturing plants, and homes.

This annual Summit is the place for leaders like yourselves to exchange innovative, replicable energy, and technology management solutions. Together, you bring unique and valuable insights on pursuing affordable energy and economic growth across the country and I thank you for your willingness to share your success with others.

Over the next two days, you will participate in lively discussions with peers and industry experts on adopting advanced technologies, developing a skilled workforce, and building more resilient communities. We hope you leave the conference with actionable insights to advance your organization’s energy initiatives.

At the U.S. Department of Energy, we applaud your innovation, your achievements, and your commitment to America’s energy independence. We appreciate your leadership and look forward to our continued work as we strive for a more resilient, energy-efficient future.

Keep up the good work!

Sincerely,

Rick Perry
SECRETARY, U.S. DEPARTMENT OF ENERGY
# AGENDA AT-A-GLANCE
## WEDNESDAY, JULY 10, 2019

### OPENING PLenary
8:00 AM – 9:00 AM
REGISTRATION OPENS
INDEPENDENCE FOYER

### MANUFACTURING SECTOR MEET-UPS
9:00 AM – 10:30 AM
Best of the BETTERS—2019 Better Project and Better Practice Presentations
REGENCY BALLROOM A
See page 12

### CONCURRENT TRACKS
10:30 AM – 12:30 PM
- Commercial Real Estate Meet-Up
  - CONFERENCE THEATER
  - See page 12
- Data Center Meet-Up
  - POTOMAC I
  - See page 12
- Education Meet-Up
  - WASHINGTON A
  - See page 12
- Financial Ally Roundtable
  - TIDES II
  - See page 13
- Healthcare Meet-Up
  - REGENCY BALLROOM B
  - See page 13

### NETWORKING LUNCH**
12:30 PM – 1:30 PM
Hospitality Meet-Up
POTOMAC II
See page 13
Local Government Meet-Up
POTOMAC IV
See page 13
Multifamily Meet-Up
POTOMAC III
See page 14
Retail, Food Service, and Grocery Meet-Up
POTOMAC VI
See page 14
Smart Labs Meet-Up
POTOMAC V
See page 14
State Government Meet-Up
POTOMAC III
See page 14

### MANUFACTURING SECTOR MEET-UPS
1:30 PM – 3:00 PM
- Better Plants Meet-Up
  - REGENCY BALLROOM A
  - See page 15
- Getting Your Money’s Worth: Making Sure Retrofits Reach Expected Savings
  - WASHINGTON B
  - See page 15
- Grid Modernization: The Role of Grid-Interactive Efficient Buildings
  - WASHINGTON A
  - See page 15
- Resilience Roundtable Part 1: Finding the Balance between Resiliency, Storage, Renewables, and Energy Efficiency
  - CONFERENCE THEATER
  - See page 16

### NETWORKING BREAK AND ASK-AN-EXPERT*
3:00 PM – 3:30 PM
- Grand Energy Challenges for Industry
  - REGENCY BALLROOM A
  - See page 18
- Healthy Housing: Quantifying the Non-Energy Benefits of Energy Efficiency Upgrades
  - WASHINGTON B
  - See page 18
- The IoT-Enabled Lighting Challenge: Help Catalyze Advanced Lighting/IoT-Compatible Systems
  - WASHINGTON A
  - See page 18
- Resilience Roundtable Part 2: Public Sector Meets Commercial Real Estate
  - CONFERENCE THEATER
  - See page 19

### MANAGEMENT FINANCING PLANNING, PROJECTS
3:30 PM – 5:00 PM
- ExecuTive Panel: Leadership in Efficiency and Sustainability
  - CONFERENCE THEATER
  - feat. Presentations on:
    - Renewable Integration/Demand Flexibility, and Resilience
      - Look for table signs in the Regency Ballroom.

** During the Networking Lunch, feel free to join discussions on specific topics including Zero Energy/Solar Decathlon, Building Envelope, Renewables Integration/Demand Flexibility, and Resilience. Look for table signs in the Regency Ballroom.

* Ask-an-Expert – See page 8 for details.

Learn more at betterbuildingsinitiative.energy.gov/summit
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<th>Time</th>
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<td>Registration Opens</td>
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<tr>
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*Ask-an-Expert – See page 8 for details.
KEYNOTES

WEDNESDAY, JULY 10 — REGENCY BALLROOM

KEYNOTE ADDRESS
SECRETARY OF ENERGY RICK PERRY
9:00 AM – 9:30 AM

PLENARY PANEL
EFFICIENCY AND SUSTAINABILITY LEADERSHIP
AT THE EXECUTIVE LEVEL
9:30 AM – 10:30 AM

Ready to be informed? Enlightened? The stage is set for the year’s most engaging conversation on energy and sustainability. The Summit’s opening plenary will feature three of the leading sustainability executives in the US from L’Oréal, Hilton and the City of Orlando, discussing a whole host of subjects including industry trends, the future of energy, resiliency, and how their organizations are able to maintain a strong commitment to energy efficiency.

Danielle Azoulay
L’Oréal USA
Head of CSR and Sustainability

Chris Castro
City of Orlando, FL
Director of Sustainability and Resilience

Randy Gaines
Hilton
Senior Vice President of Operations and New Project Development

THURSDAY, JULY 11 — REGENCY BALLROOM

LUNCH PLENARY – PANEL DISCUSSION
HEARING FROM THE EXPERTS: EMERGING TECHNOLOGIES & THINGS TO WATCH
12:30 PM – 2:00 PM

Join us for a conversation with leadership from three of DOE’s National Labs about trends, technologies, and ideas to watch for that will impact your organization.

Daniel Simmons
U.S. Department of Energy
Assistant Secretary, Office of Energy Efficiency and Renewable Energy

Dr. Craig Blue
Oak Ridge National Laboratory
Director of Energy Efficiency and Renewable Energy Programs and Energy and Environmental Sciences Directorate

Dr. Martin Keller
National Renewable Energy Laboratory
Director

Dr. Jud Virden
Pacific Northwest National Laboratory
Associate Laboratory Director, Energy and Environment Directorate
SPECIAL EVENTS

2019 SUMMIT

MOBILE APP

Use the mobile app to
- Build your personal schedule
- Network with attendees
- Provide feedback on the Summit

Search the App Store or Google Play for "Better Buildings Summit"

![App Store](Download on the App Store)

![Google Play](Get it on Google Play)

Or visit with your web browser
event.crowdcompass.com/bbsummit19

TUESDAY, JULY 9

SHOWCASE BUILDING TOURS
RESERVATION ONLY
See page 10 for details

SECTOR NETWORKING EVENTS
Commercial Real Estate; Education; Financial Allies; Healthcare;
Hospitality; Local Government, Retail Food Service & Grocery
Contact your sector lead for details

WEDNESDAY, JULY 10

ASK-AN-EXPERT
DURING BREAKS
Regency Ballroom Foyer
See page 8 for details

SPEED DATING WITH FINANCIAL ALLIES
SCHEDULED IN ADVANCE
Tidewater II

NETWORKING RECEPTION
5:00 PM – 7:00 PM
Regency Ballroom Foyer

SECTOR NETWORKING EVENTS
Industrial; Multifamily; State Government
Contact your sector lead for details

THURSDAY, JULY 11

GOAL ACHIEVER AND PARTNER RECOGNITION
12:30 PM – 2:00 PM
Regency Ballroom

ASK-AN-EXPERT
DURING BREAKS
Regency Ballroom Foyer
See page 8 for details

SPEED DATING WITH FINANCIAL ALLIES
SCHEDULED IN ADVANCE
Tidewater II
ASK-AN-EXPERT

REGENCY BALLROOM FOYER

A variety of technical experts from the Department of Energy and the National Laboratories are available at the Better Buildings Summit to answer your questions! Summit attendees are encouraged to stop by during breaks and discuss emerging technologies, new strategies from their respective fields, and ideas to approach projects within their own organizations.

Use the schedule below to see when experts on different topics will be available.

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<tr>
<th>WEDNESDAY, JULY 10 — REGENCY BALLROOM FOYER</th>
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<tr>
<td>• Building Data Analytics — Eliot Crowe, Lawrence Berkeley National Lab</td>
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<td>• Data Centers — Dale Sartor, Lawrence Berkeley National Lab</td>
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<td>• Energy Data — Hanaa Rohman, ICF</td>
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<td>• Residential Data Tools — Maddy Salzman, DOE</td>
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<td>• Smart Labs — Rachel Romero and Otto VanGeet, National Renewable Energy Lab</td>
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<td>• Zero Energy — Shanti Pless, National Renewable Energy Lab</td>
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<tr>
<td>• 50001 Ready/ISO 50001 — Peter Therkelsen, Lawrence Berkeley National Lab</td>
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<td>• Energy Assessment: Approaches, Equipment, and Software — Thomas Wenning, Oak Ridge National Lab</td>
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<td>• Smart Labs — Monica Witt, Los Alamos National Lab</td>
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<td>• Utility Incentive Programs — Miles Hayes, National Renewable Energy Lab</td>
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<td>• Water Efficiency — Prakash Rao, Lawrence Berkeley National Lab</td>
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<td>3:30–4:00 PM</td>
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<td>• City/Utility-Scale Modeling — Eric Wilson, National Renewable Energy Lab</td>
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<td>• Lighting — Michael Myer, Pacific Northwest National Lab</td>
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<tr>
<td>• Zero Energy — Paul Torcellini, National Renewable Energy Lab</td>
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Learn more at betterbuildingsinitiative.energy.gov/summit
BETTER BUILDINGS SOLUTION CENTER

FIND THE ANSWERS YOU NEED TODAY

We are always adding new, replicable solutions that can help solve your organization’s energy challenges. Search by topic, building type, size, sector, technology, location, and more. Learn how to finance projects, implement emerging technologies, build internal energy expertise, motivate staff, get management buy-in, and establish community-wide initiatives.

Visit the Better Buildings Solution Center today.

betterbuildingssolutioncenter.energy.gov
SHOWCASE BUILDING TOURS

Thank you to Better Buildings and Better Plants partners and local properties participating in the Showcase Building Tours for highlighting energy and water efficiency measures that have helped achieve energy reduction goals and save money.

**Arlington Central Library**
**Arlington County, VA**
**PUBLIC SECTOR**
Arlington Central Library recently completed energy efficiency projects ranging from lighting and BAS upgrades to new chillers and boilers; tour attendees will learn how a building that is occupied 80 hours a week can reduce energy use by nearly 30% and receive a demo of the Energy Lending Library.

**AstraZeneca Gaithersburg Campus**
**AstraZeneca**
**INDUSTRIAL SECTOR**
AstraZeneca hosts over 3,000 employees at its Gaithersburg, MD campus, which includes R&D laboratories, pilot-scale manufacturing, and office workspace; this tour will showcase the campus’ new 2.5MW CHP system and other recent energy efficiency accomplishments.

**DaVita Alexandria Dialysis Clinic**
**DaVita**
**COMMERCIAL SECTOR**
DaVita designed its new Alexandria facility with energy and water efficiency features and technologies to promote ongoing resource reduction best practices; attendees will learn how the company applied its energy and water efficiency goals to achieve a 30% reduction in gallons per treatment.

**Consolidated Forensic Laboratory**
**District of Columbia**
**PUBLIC SECTOR**
The Consolidated Forensics Lab is a cutting-edge, award-winning science facility designed to provide the District of Columbia with critical public safety and health science infrastructure while also incorporating energy efficiency and sustainability features into the HVAC systems, building envelope, and more.

**Channel Square Apartments**
**NHT Communities**
**MULTIFAMILY SECTOR**
NHT Communities achieved 20% energy savings at this apartment community in D.C.’s Southwest Waterfront; attendees will learn about the financial strategy used to fund energy efficiency improvements and tour units, the central plant, and a rooftop solar array.

**D.C. Solar for All**
**District of Columbia**
**PUBLIC SECTOR**
Tour D.C.’s first community solar project, a rooftop solar facility in the heart of the city, and learn about the Solar for All Program: a comprehensive, city-wide effort to provide benefits of solar to 100,000 low-income households and cut their energy bills in half.

Learn more at betterbuildingsinitiative.energy.gov/summit
Tour attendees will be among the first to get an up-close look at Amazon’s HQ2 site in Northern Virginia; take a walking tour of National Landing and learn about the various sustainability, health and wellness, and energy efficiency features that are planned and underway for this massive development.

The Pearl
The Tower Companies
MULTIFAMILY SECTOR
The Tower Companies built the Pearl – the first Fitwel-certified multifamily building in the world – with an emphasis on sustainability; the tour will highlight various energy- and water-saving features such as the solar array, the vegetated green roof, efficient lighting and appliances, and more.

Manassas and Ashburn Data Centers
Iron Mountain Data Centers & Digital Realty, Inc.
DATA CENTERS SECTOR
Attendees will spend a full day touring data centers belonging to two different Better Buildings partners, Iron Mountain Data Centers and Digital Realty, Inc., learning how each partner is implementing energy efficiency solutions.

U.S. Capitol
Architect of the Capitol
PUBLIC SECTOR
This tour will focus on the Architect of the Capitol’s Energy and Sustainability program and the U.S. Capitol Building, where attendees will learn how the agency addresses the integration of modern technologies in historic buildings to save energy.

Volvo Group Engine/Transmission Plant
Volvo Group North America
INDUSTRIAL SECTOR
This tour will explore the production areas of Volvo’s Truck Engine and Transmission Plant in Hagerstown with an emphasis on the crankshaft grinders in the machining and finishing operation; the plant produces heavy-duty diesel engines, transmissions, and axles.

MGM National Harbor
MGM Resorts International
COMMERCIAL SECTOR
MGM National Harbor is a LEED Gold-certified waterfront resort destination that incorporates a variety of environmentally-minded practices and sustainability elements like energy-efficient systems, occupancy comfort and wellness-minded material selection, and emphasis on water management.

National Landing
JBG Smith
COMMERCIAL SECTOR
Tour attendees will be among the first to get an up-close look at Amazon’s HQ2 site in Northern Virginia; take a walking tour of National Landing and learn about the various sustainability, health and wellness, and energy efficiency features that are planned and underway for this massive development.
WEDNESDAY: 10:30 AM – 12:30 PM

**MANUFACTURING**

**SECTOR MEET-UPS**

**Best of the Betters—2019 Better Project and Better Practice Presentations**

**Regency Ballroom A**

The Better Practice and Better Project Awards were created to recognize outstanding accomplishments in implementing and promoting industrial energy efficiency projects and programs. Come learn more from several exceptional 2019 applicants and award winners.

**Conference Theater**

Better Buildings Commercial Real Estate partners, Affiliates, and other stakeholders will share updates on exciting new energy efficiency and renewable energy projects, discuss industry trends and priorities, and learn new ways for organizations to work with DOE to achieve their goals. Discussion topics include health and wellness, social impact, resilience, and new research around the financial value of high-performing buildings.

**Potomac I**

Join Better Buildings Data Center Challenge and Accelerator partners and subject matter experts from DOE and Lawrence Berkeley National Laboratory for a facilitated discussion and peer exchange. Partners will share updates on their work as well as the barriers and successes they are experiencing with their data centers. Discussion topics will include industry trends, liquid cooling, IT consolidation, and more!

**Washington A**

This session is open to all higher education and K-12 facilities professionals as well as supporting administrators, architects, engineers, and other building professionals. This forum is designed to help participants address the challenges of operating aging education facilities and leveraging best practices to transform them into modern, resilient campuses. A panel presentation will highlight the latest lighting resources, energy master planning tools, zero energy school models, and workforce development efforts. It will be followed by targeted roundtable discussions on key barriers and lessons learned from new resources and emerging technologies.

**MODERATOR**

Tim Kolp, RJI Associates

**MODERATOR**

Deb Cloutier, RE Tech Advisors

Holt Mountcastle, RE Tech Advisors

Cindy Zhu, DOE

**MODERATOR**

Dale Sartor, Lawrence Berkeley National Laboratory

**MODERATOR**

Brooke Holleman, DOE
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<th>Sector Meet-Ups</th>
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<th>SPEAKERS</th>
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Dan Ruben, Boston Green Tourism |
| Healthcare Meet-Up      | Nathaniel Allen, DOE        |                                                                         |
| Hospitality Meet-Up     | Cindy Zhu, DOE              |                                                                         |
| Local Government Meet-Up| Adam Guzzo, DOE             |                                                                         |

**WEDNESDAY: 10:30 AM – 12:30 PM**

**Tidewater II – Second Floor**
This session is reserved for financing companies that are either current or prospective Financial Allies.

**Regency Ballroom B**
Healthcare sector partners at this meet-up will discuss sector priorities, review progress so far, and workshop new ideas for the 2019-2020 year.

**Potomac II**
Meet with fellow Better Buildings Hospitality partners, Affiliates, and other stakeholders and take advantage of the opportunity to connect with peers facing similar industry barriers, share innovative solutions, and learn about new ways for organizations to work with DOE to achieve their goals. This session will include a discussion around the latest energy efficiency trends in the hospitality sector.

**Potomac IV**
Engage with leaders from the Local Government sector! This interactive meet-up will be an opportunity for Local Government attendees to connect and exchange best practices with peers, share accomplishments and challenges in a candid format, and learn about innovations happening at the local level.
### SECTOR MEET-UPS

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| Multifamily Meet-Up | Robert Iber, HUD  
Tina Miller, Cambridge, MA, Housing Authority  
Neeharika Naik-Dhungel, EPA  
Delma Palma, New York City Housing Authority  
Laurie Schoeman, Enterprise Community Partners  
Magdalena Szymanska, Tenderloin Neighborhood Development Corporation | Alice Dasek, DOE  
Cedar Blazek, DOE  
Cecilia Govrik, ICF | Otto VanGeet, National Renewable Energy Laboratory |
| Retail, Food Service, and Grocery Meet-Up | | |
| Smart Labs Meet-Up | | |
| State Government Meet-Up | | |

**Washington B**
Join fellow Better Buildings Challenge Multifamily partners, affiliates, and other stakeholders to celebrate the past year’s accomplishments and share strategies for multifamily housing providers to save more energy and water and preserve affordable housing. Discussion topics include resiliency tools for affordable housing, stormwater management using green infrastructure, leadership case studies, and HUD’s vision for the year ahead in sector.

**Potomac III**
This session is an opportunity for Better Buildings Retail, Food Service, and Grocery (RFSG) partners and Affiliates to connect with their peers, share accomplishments and challenges, and hear success stories from throughout the RFSG sector. This session is for Better Buildings partners and Affiliates only.

**Potomac VI**
Engage with fellow Smart Labs Accelerator partners and subject matter experts from DOE and National Renewable Energy Laboratory for a facilitated discussion and peer exchange. During this time, partners will share how the Accelerator is progressing, as well as the successes and barriers they have experienced. There will also be a review of DOE’s draft Smart Labs toolkit.

**Potomac V**
Join this great opportunity to network with state colleagues from across the nation! State representatives are invited to an annual peer forum that can provide new ideas to take back to the office. This year fellow states and experts will be discussing effective frameworks for making energy efficiency “business as usual.” Attendees will break into small groups to discuss specific suggestions on how to support those frameworks via policy and action. 

*This session is for state participants only.*
WEDNESDAY: 1:30 PM – 3:00 PM

MANUFACTURING

Better Plants Meet-Up

Washington B
Measurement and Verification (M&V) in multifamily properties is highly complicated, giving energy services companies (ESCOs) and other providers an informational advantage over property owners. Even so, studies have shown that consumption models used by ESCOs often substantially over-estimate post-retrofit savings more than half the time, representing a baseline level of risk for every project and the industry as a whole. Join this discussion to learn how property owners can be informed energy services consumers and ensure that M&V for their retrofit projects is as accurate as possible.

SPEAKERS
Ethan Goldman, OpenEE
Steve Morgan, Clean Energy Solutions

ALL SECTORS

Washington A
This session will cover how grid-interactive efficient buildings can provide financial and other benefits to both building owners and the grid. With appropriate controls and communications equipment, buildings can change the electrical load under their control to align with grid needs and provide a new value stream to owners. This session explores how different building sectors are considering how to optimize and integrate traditional demand assets, like lighting and HVAC, with new on-site demand energy response assets, like PV and batteries, to meet varying objectives including comfort, increased resiliency, sustainability, and energy savings goals.

SPEAKERS
Seth Coan, Rocky Mountain Institute
Eric Friedman, Commonwealth of Massachusetts
Eric Harting, Siemens
Sara Neff, Kilroy Realty

MFR MFR EMR
EMERGING TECHNOLOGIES

Grid Modernization: The Role of Grid-Interactive Efficient Buildings

MODERATOR
Eli Levine, DOE

Regency Ballroom A
Better Plants partners and interested stakeholders can take this opportunity to network, hear updates from program manager Eli Levine, participate in small-group breakout sessions, and celebrate partner achievements. Advanced Manufacturing Office Director Valri Lightner will also participate in a fireside chat with the National Association of Manufacturers about the state of industrial sustainability.

MANUFACTURING

ALL SECTORS

SPEAKERS
Josh Geyer, HUD

Moderator
Monica Neukomm, DOE
States, cities, utilities, and portfolio building owners are identifying ways to incorporate energy storage technology into their systems and couple energy storage with renewables and efficiency technologies like CHP. Hear from public and private sector partners who are becoming more energy-resilient to outages through these technologies. Explore the interconnection between energy efficiency, energy storage with renewables, and resiliency to extreme weather events. In addition, learn about various strategies that public and private building owners have developed to identify which energy efficiency practices might be most effective to build energy resiliency. This session is part 1 of 2 in a series around public and private sectors working together to meet resilience needs.

**SPEAKERS**

Eric Coffman, Montgomery County, MD  
Dennis Gonzalez, Puerto Rico Public Housing Administration  
Anne Hampson, ICF

**COMMUNICATIONS & ENGAGEMENT**

How Low Can You Go: Using Challenge Programs to Engage the Private Sector and Drive Energy Efficiency and Renewable Energy in Your Community

**DATA MANAGEMENT**

Making the Business Case for Data-Driven Energy Management

**Potomac V**

Leading cities share how they have successfully established challenge programs to engage local building owners to reduce their energy and water consumption and accelerate the installation of renewable energy. A representative from each local government will be joined by a building owner from their jurisdiction to share lessons learned and best practices so you can replicate something similar in your city or county in order to meet your energy and environmental goals.

**COMMERCIAL REAL ESTATE**  
**HEALTHCARE**  
**HOSPITALITY**  
**LOCAL GOVERNMENT**  
**MULTIFAMILY**  
**RETAIL, FOOD SERVICE, & GROCERY**

**SPEAKERS**

Amy Jewel, Chicago, IL  
Erick Shambarger, Milwaukee, WI  
Stephanie Stuckey, Southface Institute

**Potomac IV**

Lord Kelvin is often quoted having said "if you can’t measure it, you can’t improve it." The same principles apply to energy management—without measuring and tracking energy consumption and performance, reducing that consumption and improving that performance is exceedingly difficult. Leaders across multiple market segments will share and discuss the business case for data-driven energy management. From establishing a data collection protocol, to managing data and change over time, to engaging the C-Suite, we are going to dig into the value proposition that data brings to your energy management programs.

**COMMERCIAL REAL ESTATE**  
**HIGHER EDUCATION**  
**HOSPITALITY**  
**K-12 SCHOOLS**  
**LOCAL GOVERNMENT**  
**RETAIL, FOOD SERVICE, & GROCERY**

**SPEAKERS**

Daniel Hill, Environmental Defense Fund  
Ryan Freed, Institute for Market Transformation

**Moderator**

Krystal Laymon, DOE  
Adam Guzzo, DOE  
Harry Bergmann, DOE
From affordable student housing to high-infill offices, a rapidly accelerating building trend is the proliferation of zero energy buildings. Embracing “deep” energy efficiency, these projects prioritize efficiency and add on-site renewable generation to achieve net zero energy use over the year. Come hear about the financial, technological, and design process innovations that make these projects a reality today.

Does your community have small buildings that need upgrades or small retrofit projects that need to get done? Chances are you do, as the Commercial Buildings Energy Consumption Survey (CBECS) reports that 84% of all state and local government-owned buildings qualify as “small.” We often hear small projects are not good candidates for using Energy Savings Performance Contracting (ESPC), but the good news is they can be. Come learn about a suite of strategies small communities and small projects can use to develop projects eligible for ESPC.

School districts are often tasked with teaching 21st-Century students from within 19th-Century buildings. Through the experiences of K-12 partners in the Better Buildings Challenge, this session will explore how energy efficiency fits into the modernization of public school facilities and improves the learning environment for students. Speakers include representatives from leading school districts that have implemented district-wide energy efficiency strategies to reduce energy consumption and free up critical funds that can be reinvested into other district priorities.

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**SPEAKERS**

**Ira Birnbaum**, DOE  
**Reid Conway**, State of North Carolina  
**Philip Quebe**, The Cadmus Group

**Moderator**  
Alice Dasek, DOE

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**SPEAKERS**

**Nikolai Kaestner**, San Francisco Unified School District  
**Zach Lammers**, Anne Arundel County Public Schools, MD  
**Cathy Lin**, Arlington Public Schools, VA

**Moderator**  
Brooke Holleman, DOE

---

**SPEAKERS**

**Rachel Bannon-Godfrey**, Stantec  
**Greg Farley**, Washington College  
**Thomas Kaufman**, United Therapeutics

**Moderator**  
Sarah Zaleski, DOE
WEDNESDAY: 3:30 PM – 5:00 PM

Regency Ballroom A

This session is designed to help you think BIG. What are your biggest challenges? What are your big ideas for what a manufacturing plant looks like in 2050? Hear the perspectives on grand energy challenges and opportunities for industry and share your own for an audience of DOE, industry, and national lab leaders.

SPEAKERS

Joe Crezko, DOE
Valri Lightner, DOE
Clay Nesler, Johnson Controls

Moderator
Sachin Nimbalkar, Oak Ridge National Laboratory

Washington B

What are the health benefits of energy efficiency upgrades? How can these be quantified? How can additional healthy housing measures supplement already-healthy energy efficiency measures? This session will provide hard evidence as well as real-world examples of the non-energy benefits that can be realized when taking a comprehensive approach to energy efficient, healthy housing.

SPEAKERS

Marian Goebes, TRC
Nicole Rosenberg, NMR Group
Rebecca Schaaf, Stewards of Affordable Housing for the Future
Bruce Tonn, Three3
William Weber, Healthy Building Network

Moderator
Michael Freedberg, HUD

Washington A

Join this discussion about the quest to encourage development of new, innovative lighting products that are highly energy-efficient, controllable, easily upgradeable for more advanced controls/IoT, and are "plug-and-play" at a competitive price. Researchers from Pacific Northwest National Laboratory, commercial building industry partners, and industry representatives are invited to share their thoughts on performance criteria for “future-proofing” new lighting troffers that manufacturers will be "challenged" to produce.

SPEAKERS

Hakon Mattson, Anthem, Inc.
Michael Myer, Pacific Northwest National Laboratory

Moderator
Cedar Blazek, DOE
WEDNESDAY: 3:30 PM – 5:00 PM

BUILDING RESILIENCE

Resilience Roundtable Part 2:
Public Sector Meets Commercial Real Estate

Conference Theater

Learn how local governments can work with private building owners to ensure the resilience of their building stock. Commercial real estate fund and asset managers will share how investment decision-making around resilience is informing investments in commercial developments. Local government representatives will share their organizational strategies to enhance community resilience. Enjoy a lively facilitated discussion between private and public Better Buildings Challenge partners! This session is part 2 of 2 in a series around public and private sectors working together to meet resilience needs.

SPEAKERS

Chris Castro, Orlando, FL
Eric Friedman, Commonwealth of Massachusetts
Marta Schantz, Urban Land Institute
Brenna Walraven, Corporate Sustainability Strategies

Moderator
Cindy Zhu, DOE

STRATEGIES FOR SUCCESS

DATA MANAGEMENT

Calculate Your Potential: Data Tools to Identify Opportunities for Your Energy Objectives

FINANCING

Emerging Financing Trends in Energy Efficiency and Renewable Energy

Potomac IV

DOE’s State Energy Program Competitive Awards have produced an array of innovative planning tools to help state and local governments achieve their energy goals. This session showcases 3 of them: the Home Energy Labeling Information Exchange (HELIX); the Hawaii Advanced Environment Visualization Nexus (HAVEN); and the Local Government Project for Energy Planning (LoGoPEP). The session will also feature DOE’s Low-income Energy Affordability Data Tool (LEAD), which provides interactive state, county, and city-level data to support energy planning in the low- and moderate-income sector. All these tools are easily accessible and adaptable for use by Public Sector partners!

SPEAKERS

Lindsay Anderson, State of Minnesota
Liz Doris, National Renewable Energy Laboratory
Julia Dumaine, Connecticut (DEEP)

Moderator
Greg Dierkers, DOE

Potomac VI

While the U.S. is experiencing an era of exciting growth in energy finance, many building owners still struggle to find the capital they need and financial products that work for their specific situation and location. This session will provide a deep dive into the state of the energy financing market, emerging energy financing solutions, and resources to help building owners demystify and access financing.

SPEAKERS

Tammy Agard, EEtility
Ian Fischer, Urban Ingenuity
Bob Hinkle, Metrus Energy

Moderator
Holt Mountcastle, RE Tech Advisors

COMMERCIAL REAL ESTATE  FINANCIAL SERVICES
HOSPITALITY  K-12 SCHOOLS
LOCAL GOVERNMENT
LOW AND MODERATE INCOME  MULTIFAMILY
MULTIFAMILY  STATE GOVERNMENT

ALL SECTORS

U.S. DEPARTMENT OF ENERGY

19
There is compelling evidence that the building sector is marching to zero. The number of zero energy and zero energy ready certified homes doubled from 2015 to 2017, and the number of DOE’s Zero Energy Ready Home certifications has doubled each year for the past three! More states are enacting or plan to enact zero energy building codes. There are huge opportunities for states, local governments, utilities, and NGOs to ensure their housing infrastructure is ready for the future. This session will explore ways to leverage these benefits with both new and existing homes, including the Zero Energy Ready Home program and new research exploring how to scale zero energy retrofits through advanced offsite production and aggregated demand.

**WEDNESDAY: 3:30 PM – 5:00 PM**

**RENEWABLES & ZERO ENERGY**

**What’s Next in Zero Energy: Multifamily, Residential, and Other Trends**

**Potomac III**

I need a plan! An energy emergency plan! Threats to the grid can be mitigated through energy emergency and resiliency planning. State and local representatives will discuss lessons learned, best practices, and new ideas in energy emergency planning, energy assurance, and cybersecurity including everything from first steps to tabletop exercises and plan enactment.

**Potomac V**

This session will explore common challenges, innovative approaches, and best practices in schools, health facilities, and manufactured housing in rural areas. Speakers from the American Society for Healthcare Engineering will describe energy projects in rural hospitals and healthcare clinics nationally and attendees will learn from a successful rural school district in Kentucky.

**Potomac II**

There is compelling evidence that the building sector is marching to zero. The number of zero energy and zero energy ready certified homes doubled from 2015 to 2017, and the number of DOE’s Zero Energy Ready Home certifications has doubled each year for the past three! More states are enacting or plan to enact zero energy building codes. There are huge opportunities for states, local governments, utilities, and NGOs to ensure their housing infrastructure is ready for the future. This session will explore ways to leverage these benefits with both new and existing homes, including the Zero Energy Ready Home program and new research exploring how to scale zero energy retrofits through advanced offsite production and aggregated demand.

**SPEAKERS**

**Potomac III**

- Ben Bolton, State of Tennessee
- Megan Levy, State of Wisconsin
- Alex Morese, Michigan Agency for Energy

**Potomac V**

- Kara Brooks, American Society for Healthcare Engineering
- Alison Donovan, Vermont Energy Investment Corporation
- Kimberly Joseph, Bullitt County Public Schools, KY

**Potomac II**

- Martha Campbell, Rocky Mountain Institute
- Jamie Lyons, Newport Partners

**Moderator**

- Shannon Young, DOE
- Pam Mendelson, DOE
- Eric Werling, DOE
THURSDAY: 9:00 AM – 10:30 AM

MANUFACTURING

Challenge the Champions: Experienced Energy Managers Tackle Your Biggest Energy Problems

REGENCY BALLROOM A

Energy managers from several Better Plants partners will draw on decades of collective experience to address audience members’ toughest energy efficiency obstacles via questions submitted in advance and in real-time.

SPEAKERS

Walt Brockway, Oak Ridge National Laboratory
Lawrence Fabina, ArcelorMittal
Bert Hill, Volvo Group North America
Sharon Nolen, Eastman Chemical Company

Moderator
Thomas Wenning, Oak Ridge National Laboratory

MULTIFAMILY

Resilience Applications for Low-income Communities

WASHINGTON B

Low-income communities are often the hardest hit by extreme weather events. While some property owners can afford to modify their homes to withstand projected flooding, hotter and cooler days, or other risks, some cannot. Hear from states and cities how, despite limited resources, they created programs to build resilience for low-income communities.

SPEAKERS

Jeni Hall, Energy Trust of Oregon
Laurie Schoeman, Enterprise Community Partners
Michael Walton, Green Spaces

Moderator
Krystal Laymon, DOE

EMERGING TECHNOLOGIES

Pushing the Building Envelope: The Impact of Cutting-Edge Technologies

WASHINGTON A

Advanced building envelope materials can reduce building energy use and costs by lowering heating and cooling loads, which account for roughly 40% in commercial buildings and 50% of energy consumed by a typical U.S. home. Learn how building owners are implementing cutting-edge envelope improvements, from pilots to portfolio rollouts, and get a view into what's coming next.

SPEAKERS

Jessica Abralind, Arlington County, VA
Mahabir Bhandari, Oak Ridge National Laboratory
Wendell Brase, University of California, Irvine

Moderator
Cedar Blazek, DOE
**CONFERENCE THEATER**

**Building Resilience**

Energy security is becoming an issue in all sectors. Water and wastewater facilities are integral to State and City functions and can leverage efficiency and renewable energy technologies to enhance energy security on a continuous basis. This session will address how states, cities, and facilities have tackled the energy security issue and discuss lessons learned for best practices in the field.

**Workforce Development**

Learn about professional training resources and programs for success in careers in energy efficiency. The session will cover new education modules for understanding zero energy building design and operation, the DOE Building Technologies Office's JUMP into STEM university student competition, Better Buildings Workforce Guidelines, public sector partnerships between municipalities and universities to train interns, and career training programs for students to become champions in energy efficiency.

**Renewables & Zero Energy**

Expanded renewable energy policy goals are on the rise across the country. This session will provide an overview of challenges and opportunities associated with the integration of energy efficiency and renewables into the residential and commercial building sectors. It will also explore how individual jurisdictions, states, and utilities are addressing the effects. Finally, speakers will address future expectations on utility pricing and ways buildings can coordinate and respond to grid demands.

**Speakers**

**Building Resilience**

- Ben Bolton, State of Tennessee
- Megan Levy, State of Wisconsin
- Doug Oscarson, Des Moines Water Works

**Workforce Development**

- Chris Castro, Orlando, FL
- Christos Chrysiliou, Los Angeles Unified School District, CA

**Renewables & Zero Energy**

- Michael Turner, State of Colorado

**Moderators**

- Bruce Lung, DOE
- Ben Nathan, DOE
- Sarah Zaleski, DOE
- Paul Torcellini, National Renewable Energy Laboratory
Through the Smart Energy Analytics Campaign, which serves almost 0.5 billion square feet of commercial and public buildings, much has been learned about how Energy Management and Information Systems (EMIS) tools and technology are used in real-world commercial buildings. Participants from the healthcare, public, and commercial real estate sectors will sit down for a wide-ranging discussion on how to navigate the path from getting analytics up and running to achieving deeper savings. The session will recognize Spring awardees and highlight new data on costs, energy savings, and other benefits associated with EMIS.

**Potomac IV**
Through the Smart Energy Analytics Campaign, which serves almost 0.5 billion square feet of commercial and public buildings, much has been learned about how Energy Management and Information Systems (EMIS) tools and technology are used in real-world commercial buildings. Participants from the healthcare, public, and commercial real estate sectors will sit down for a wide-ranging discussion on how to navigate the path from getting analytics up and running to achieving deeper savings. The session will recognize Spring awardees and highlight new data on costs, energy savings, and other benefits associated with EMIS.

**Potomac VI**
Do high-performing buildings perform better financially than their less-efficient counterparts? Are energy-efficient buildings priced adequately in the market? Research has shown connections between green building certifications and rent premiums, what about other factors such as tenant vacancy, mortgage default risk, or building value? Real estate academics will share findings from recent research that focuses on the connection between energy, buildings, and financial performance, with takeaways that are useful for building operators and energy policymakers.

**Potomac III**
This session will explore the planning approaches and strategies that jurisdictions, utilities, businesses, and other organizations are pursuing to meet high renewable energy goals. The discussion will cover topics such as the utilization of localized data for energy planning and the important role of energy efficiency in cost-effective strategies.

**COMMERCIAL REAL ESTATE**  **DATA CENTERS**  **FINANCIAL SERVICES**  **HEALTHCARE**  **HIGHER EDUCATION**  **HOSPITALITY**  **MANUFACTURING**  **K-12 SCHOOLS**  **LABORATORIES**  **LOCAL GOVERNMENT**  **LOW AND MODERATE INCOME**  **MULTIFAMILY**  **RETAIL, FOOD SERVICE, & GROCERY**  **STATE GOVERNMENT**

**SPEAKERS**
- **Robert Armstrong**, University of Utah Health Care
- **Andrew Carter**, Commonwealth of Kentucky
- **Ryan Tinus**, Hudson Pacific Properties
- **Sofia Dermisi**, University of Washington
- **Avis Devine**, York University
- **Rogier Holtermans**, University of Guelph

**Moderator**
- **Eliot Crowe**, Lawrence Berkeley National Laboratory
- **Cindy Zhu**, DOE
- **Jenah Zweig**, DOE

**DATA MANAGEMENT**

**FINANCING**

**PLANNING, PROJECTS & PROGRAMS**

**Show Me the Value: Understanding the Financial Impacts of High-Performing Buildings**

**How to Achieve High Renewable Energy Goals**

**U.S. DEPARTMENT OF ENERGY**
Regency Ballroom A

In this round-robin workshop, attendees will join small breakouts based on sustainability topics of interest -- including energy, water, waste, and science-based targets -- and report their discussion outcomes to the group as a whole.

Washington B

In many multifamily buildings, planning energy retrofits and forecasting savings can be daunting due to the sheer number of units, meters, the complexity of each property, and the unique interaction between major systems. In this session, we will introduce several promising new tools to help multifamily owners and managers conceptualize and plan potential retrofits, including: BIT Building, a building performance improvement and recognition program that facilitates incremental upgrades portfolio-wide; and CPC VeriFi, a new online app that allows property owners to calculate estimated cost savings for energy and water efficiency upgrades.

Washington A

To improve whole building performance and optimize system controls, efficiencies can be found in coordinating controls for different building end uses. This session highlights innovative approaches to controlling plug loads with other systems such as lighting and HVAC, including highlights from a field evaluation of LED systems equipped with advanced lighting controls that interface with the HVAC systems and plug loads.
Conference Theater

Building owners and operators across the country are preparing for a range of natural disasters and extreme weather events. Buildings designed to be energy-efficient and resilient can offer greater protection to the people and operations they house. Energy efficiency and renewable energy technologies play an integral role in increasing building passive survivability. In this session, Better Buildings partners across the commercial sector share proven technologies and strategies being used for building resilience.

Potomac I

Explore the different ways organizations have been able to catalyze and propel careers in energy efficiency among underrepresented groups. Learn about activities and programs developed and implemented by the American Association of Blacks in Energy and National Grid to improve underrepresented group engagement with and employment in the energy efficiency industry.

SPEAKERS
Zachary Brown, CBRE
Aaron Daly, Whole Foods Market
Jim Freihaut, Mid-Atlantic CHP TAP
Rielle Green, CBRE

Moderator
Sarah Zaleski, DOE

Potomac V

Buildings that have efficient equipment, smart controllers, and robust building management systems are great. However, to achieve significant progress towards your energy and sustainability goals, you need your entire workforce on board. In this session, you will hear from organizations that have engaged with their entire staff to achieve success. Participants will learn about drivers and incentives for their workforce at all levels and how they worked as a team towards a common goal.

SPEAKERS
Sarah Edwards, Cook County, IL
Joe Thomas, Loews Hotels & Co.
Monica Witt, Los Alamos National Laboratory

Moderator
Otto VanGeet, National Renewable Energy Laboratory
Learn about important new initiatives that help building owners and managers better understand their water consumption. Speakers will provide updates on an industry-wide effort to support commercial real estate practitioners measuring water and waste consumption, and share their experiences benchmarking water consumption in multifamily buildings.

Potomac IV
Learn about important new initiatives that help building owners and managers better understand their water consumption. Speakers will provide updates on an industry-wide effort to support commercial real estate practitioners measuring water and waste consumption, and share their experiences benchmarking water consumption in multifamily buildings.

Potomac VI
Investing in energy projects in low-income communities can address multiple public policy goals such as reducing energy burden, addressing aging public-housing building stock, meeting energy efficiency goals, and providing clean energy benefits equitably among constituencies. This session will address best practices to overcome perceived risks from issues such as: consumer protections regarding the size of financing payments relative to overall household budget; the ability to fund the cost of necessary structural and health & safety improvements; and the split incentive for a landlord to pay for a retrofit that only benefits the tenant.

Potomac III
Come hear perspectives on the value of Measurement & Verification (M&V) in energy efficiency upgrades. Is M&V worth it? How can customers and Program Administrators make sure they see measurable results from energy efficiency projects? Learn how you can use M&V data to share your milestones throughout the life of a project and how keeping success stories top-of-mind can build support for future energy efficiency projects.

COMMERCIAL REAL ESTATE    HEALTHCARE
HIGHER EDUCATION    HOSPITALITY
MANUFACTURING    LABORATORIES
MULTIFAMILY
RETAIL, FOOD SERVICE, & GROCERY

SPEAKERS
Scott Percival, King County Housing Authority
Ken Rosenfeld, Building Owners and Managers Association International

SPEAKERS
Tammy Agard, EUtility
Ruth Ann Norton, Green and Healthy Homes Initiative
Kerry O’Neill, Inclusive Property Capital

SPEAKERS
Reid Conway, State of North Carolina
Nam Nguyen, Commonwealth of Virginia

Moderator
Andre de Fontaine, DOE

Moderator
Pam Mendelson, DOE

Moderator
John Agan, DOE
Embedding an energy management culture is the next step for organizations to take to ensure that the progress made from their energy improvement projects will be sustainable. DOE has a variety of free recognition and technical assistance programs to help guide that next step, centered around the use of the ISO 50001 global energy management system standard. Hear the experiences of leading organizations who have done this at multiple facilities and learn how DOE’s 50001 Ready and Superior Energy Performance 50001 programs can help you achieve your long-term energy management goals.

As multifamily housing providers work to rehabilitate properties, benchmarking their portfolio’s energy consumption is critical for making investment decisions and verifying promised savings. As the saying goes, you can’t manage what you don’t measure, yet unique barriers to benchmarking persist in the multifamily housing sector. In this session, multifamily partners will present innovative, outside-the-box strategies for collecting tenant energy consumption data, ranging from how to obtain tenant consent for sharing data to embarking on a portfolio-wide campaign to collect 100% whole property data.

How do you plan and make decisions about HVAC equipment upgrades and incorporation of new technologies? Come hear how one company is implementing a strategy to make the most valuable HVAC retrofit and replacement decisions, and how to include new technologies provided by our Space Conditioning Research Team and the National Renewable Energy Laboratory. Learn how to apply useful strategies for upgrading your HVAC systems, and be prepared to discuss with your peers some of the approaches you employ within your organization.

**Regency Ballroom A**

ISO 50001: Energy Management Systems in the Real World

**Washington B**

Getting to 100%: Overcoming Barriers to Tenant Data Collection

**Washington A**

Smart Decision-Making: Understanding Value Streams Beyond Efficiency for HVAC Systems

**SPEAKERS**

- **Paul Hartmeister**, General Motors
- **James Henry**, Iron Mountain Data Centers

**SPEAKERS**

- **Claire McLeish**, WegoWise, Inc.
- **Ilene Mason**, Rethinking Power Management
- **Caitlin Rood**, Mercy Housing, Inc.
- **Monica Watkins**, Housing Authority of Baltimore City

**SPEAKERS**

- **Sal Alhelo**, JCPenney
- **Miles Hayes**, National Renewable Energy Laboratory

**Moderator**

- **Pete Langlois**, DOE
- **Josh Geyer**, HUD
- **Cedar Blazek**, DOE
Building owners are placing a greater emphasis on implementing resilience improvements that make buildings more resistant to natural disasters and other threats. This session will focus on how to pay for these types of projects with case study examples from Better Buildings Financial Allies.

Potomac I
Examine in-house apprenticeship programs that hire, train, and place inexperienced workers in positions supporting energy efficiency goals, particularly as technicians and operating engineers. The discussion will focus on elements that lead to a successful apprenticeship program based on different real-world examples. Attendees will leave with the tools to develop an apprenticeship program at their institution.

Potomac V
Achieving energy efficiency across large building portfolios can be more challenging when multiple stakeholders and decision-makers are involved. This session will feature strategies for aligning goals and activities to enable action around energy efficiency among multiple actors, including property management teams with their real estate clients and landlords with their commercial and federal tenants.

SPEAKERS
Bob Johnson, Hannon Armstrong
Esther Toporovsky, Enterprise Community Partners
Andrew Zech, Greenworks Lending
Laura Duckworth, University of Virginia
Eleni Reed, Lendlease
Richie Stever, University of Maryland Medical Center

SPEAKERS
Douglas Rath, Marriott International
John Sasser, Sabey Data Centers
Peter Zadoretzky, Bozzuto Management Company

Moderator
Holt Mountcastle, RE Tech Advisors
Moderator
Nathaniel Allen, DOE
Moderator
Cindy Zhu, DOE
Explore the potential of “digital twins” - or the mirrored representation of real building systems in a computerized environment, - to enhance your energy program decision-making. Grid-interactive, efficient buildings (GEBs) optimize performance, efficiency, and provide flexibility to the grid through a complex balancing of priorities across building systems. Digital twins as real-time, high resolution models of a building, portfolio, or city can help guide the deployment of technologies which make GEBs possible. Hear partners discuss cutting-edge innovation in software and modeling and how it is already being applied to drive the future of understanding energy in our buildings.

**Potomac IV**

Explore the potential of “digital twins” - or the mirrored representation of real building systems in a computerized environment, - to enhance your energy program decision-making. Grid-interactive, efficient buildings (GEBs) optimize performance, efficiency, and provide flexibility to the grid through a complex balancing of priorities across building systems. Digital twins as real-time, high resolution models of a building, portfolio, or city can help guide the deployment of technologies which make GEBs possible. Hear partners discuss cutting-edge innovation in software and modeling and how it is already being applied to drive the future of understanding energy in our buildings.

**Potomac II**

The Sustainable Wastewater Infrastructure of the Future Accelerator (SWIFT) worked with more than 70 wastewater treatment facilities to plan and implement infrastructure improvements. Over three years, the facilities worked to integrate energy efficiency into their operations, including tracking energy performance, implementing energy conservation measures, and planning measures and financing for a comprehensive infrastructure improvement project. Hear from DOE and its partners about the tools they developed along the way to help others follow the same path to infrastructure improvement.

**Potomac III**

Residential buildings make up 21% of energy use throughout the U.S. and disproportionately impact electricity peak demand. Though many Americans face undue energy burdens in their homes and apartments, commercial buildings have outpaced the residential sector in implementing energy upgrades and retrofits. Public sector partners can help residents in their jurisdictions access energy information, efficiency upgrade financing, and the benefits of energy efficiency through DOE’s building energy modeling tools. Additionally, by engaging with these tools directly, public sector partners can benefit by aggregating data to gain better insights on how to maximize impact with incentives, financing, and other programs.

**COMMERCIAL REAL ESTATE**
**DATA CENTERS**
**HEALTHCARE**
**MANUFACTURING**
**LOCAL GOVERNMENT**
**RETAIL, FOOD SERVICE, & GROCERY**
**STATE GOVERNMENT**

**SPEAKERS**
- **William Copeland**, Electric Power Board of Chattanooga, Tennessee
- **Matthew Vogel**, Microsoft

**SPEAKERS**
- **Denis Cuevas**, Waterford, CT
- **Jason Grant**, Miami-Dade County, FL
- **Sharon Nall**, State of New Hampshire
- **Ben Nathan**, DOE

**SPEAKERS**
- **Deborah Philbrick**, Elevate Energy
- **Eric Wilson**, National Renewable Energy Laboratory

**Moderator**
- **Harry Bergmann**, DOE

**Moderator**
- **Andre de Fontaine**, DOE

**Moderator**
- **Madeline Salzman**, DOE
### THURSDAY: 4:00 PM – 5:30 PM

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<th>Workforce Development</th>
<th>Renewables &amp; Zero Energy</th>
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<tr>
<td><strong>Energy EfficienSHE: Women's Perspectives in Sustainability</strong></td>
<td><strong>Beyond Solar: Other Renewable Energy, Thermal, &amp; Energy Storage Strategies</strong></td>
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#### Potomac IV
Back by popular demand! Women leaders in the energy and sustainability industries share their perspectives on workplace diversity, mentorship, and the challenges and opportunities in being a woman in the buildings space. You won’t want to miss this top-rated session of the 2016 and 2017 Better Buildings Summits!

#### Potomac II
Renewable energy conversations often revolve around solar, wind, and on-site batteries; however, success has been found leveraging other renewable energy resources and energy storage techniques. These include small-scale hydroelectricity and various forms of thermal and electric energy storage. This session will showcase examples from higher education institutions that highlight cost-competitive and carbon-free strategies beyond the typical renewables dialogue.

#### Speakers

**ALL SECTORS**

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<th><strong>SPEAKERS</strong></th>
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<td>Rose Buckley, US Inspect</td>
<td>Rick Burgess, Cornell University</td>
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<td>Altramese Roberts-Tompkins, Toyota Motor Engineering &amp; Manufacturing North America, Inc</td>
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<td>Dan Smith, Bard College</td>
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**Moderator**
Maria Vargas, DOE

**Moderator**
Paul Torcellini, National Renewable Energy Laboratory

Learn more at betterbuildingsinitiative.energy.gov/summit
THURSDAY: 4:00 PM – 5:30 PM

STRATEGIES FOR SUCCESS

COMMUNICATIONS & ENGAGEMENT

How (and Where) to Tell Your Energy Efficiency Story

COMMERCIAL REAL ESTATE    DATA CENTERS
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HOSPITALITY    MANUFACTURING
LOCAL GOVERNMENT    MULTIFAMILY
RETAIL, FOOD SERVICE, & GROCERY
STATE GOVERNMENT

FINANCING

Building From the Ground Up: Lessons in Commercial PACE Leadership

COMMERCIAL REAL ESTATE    DATA CENTERS
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MANUFACTURING    K-12 SCHOOLS
LABORATORIES    LOCAL GOVERNMENT
RETAIL, FOOD SERVICE, & GROCERY
STATE GOVERNMENT

PLANNING, PROJECTS & PROGRAMS

Soaking Up Energy Savings from Water Projects

COMMERCIAL REAL ESTATE    DATA CENTERS
FINANCIAL SERVICES    HEALTHCARE
HIGHER EDUCATION    HOSPITALITY
MANUFACTURING    K-12 SCHOOLS
LABORATORIES    LOCAL GOVERNMENT
RETAIL, FOOD SERVICE, & GROCERY
STATE GOVERNMENT

ALL SECTORS

Potomac V
You’ve finished a great energy efficiency project with big outcomes, now what? Communications experts will lead you through how to best promote your work and which channels to use. This panel will ask for audience participation and may be turned into a webinar for future sharing. Experts will also cover how to market the non-energy benefits of energy efficiency.

SPEAKERS
Katie Breene, Starbucks Coffee Company
Bruce Condit, Connex
Lauren Paige, L’Oréal

Moderator
Bryan Cohen, C+C

Potomac VI
Learn how commercial PACE (C-PACE) programs have gone from conception to launch to actively financing energy efficiency and renewable energy projects. The session will highlight the public value proposition for C-PACE programs, the role of third-party partners and program design, and a case study showcasing how a property benefited from C-PACE financing.

SPEAKERS
Jessa Coleman, PACE Financial Servicing
Keith Derrington, Recurrent, LLC
Rich Dooley, Arlington County, VA

Moderator
Sean Williamson, DOE

Potomac III
Energy and water systems are interconnected. These interconnections can be complex and have many challenges and opportunities. This session highlights projects that have been able to achieve significant energy and water savings through technologies and innovative strategies.

SPEAKERS
Mark Campbell, MGM Resorts International
Jodenne Scott, Shari’s Cafe & Pies
Otto VanGeet, National Renewable Energy Laboratory

Moderator
Ryan Livingston, Allegheny Science & Technology