



SUMMIT

WASHINGTON, D.C.
MAY 15-17, 2017

AGENDA & PROGRAM

U.S. DEPARTMENT OF
ENERGY

MAY 15, 2017



Welcome to Washington D.C. and the Better Buildings Summit!

As you know, our nation's buildings, plants, and homes offer incredible opportunity for saving energy and money.

That's why I am delighted we are working together to cut back energy waste and improve the energy efficiency of America's buildings, plants, and homes. Together, we can spur critical investments in aging infrastructure and bring great benefits to Americans by improving the places where we work and live.

As leaders in your communities, businesses, and organizations you are stepping up by being here and by sharing your world-class approaches to energy efficiency. Over the next three days, I hope you learn from one another and when you go back to work, have new ideas and approaches to help you meet your goals.

From the U.S. Department of Energy, we are proud to feature your leadership and recognize your innovation, energy savings progress, and commitment to America's energy independence.

Keep up the good work!

Sincerely,

Rick Perry
SECRETARY, U.S. DEPARTMENT OF ENERGY

7:30 AM	REGISTRATION OPENS		
8:30 AM–12:00 PM	SHOWCASE BUILDING TOURS*		
12:00–1:00 PM	OPENING REMARKS AND NETWORKING LUNCH IN INTERNATIONAL BALLROOM		
1:00–1:30 PM	NETWORKING BREAK		
	COMMERCIAL	INDUSTRIAL	LABS
1:30–3:00 PM	5 concurrent sessions; choose 1	1 session	1 session
	Commercial Real Estate Meet-Up Room: Columbia 9	Workshop - Part 1 of 2: Better Plants: What's Up and What's New in Industrial Efficiency Room: Columbia 7	Better Buildings Smart Labs Accelerator Partners Meet-Up: Part 1 of 2 Room: Holmead West
	Healthcare Meet-Up Room: Morgan		
	Higher Education Meet-Up Room: Columbia 11		
	Hospitality Meet-Up Room: Northwest		
	Retail, Food Service & Grocery Meet-Up Room: Columbia 3		
3:00–3:30 PM	NETWORKING BREAK		
	COMMERCIAL	INDUSTRIAL	LABS
3:30–5:00 PM	4 concurrent sessions; choose 1	1 session	1 session
	Believe in Green: Investor-Oriented Sustainability Insights for Commercial Real Estate Room: Columbia 9	Workshop - Part 2 of 2: Better Plants: What's Up and What's New in Industrial Efficiency Room: Columbia 7	Better Buildings Smart Labs Accelerator Partners Meet-Up: Part 2 of 2 Room: Holmead West
	Buildings That Never Sleep, Even When You Do: Energy Efficiency Solutions for Hotels and Hospitals Room: Morgan		
	Proven Strategies for Tackling Long-Term Campus Energy Goals Room: Northwest		
	Retail, Food Service & Grocery Partners and Vendors Solving Energy Challenges Together Room: Columbia 3		

*Showcase Building Tours – see pages 12 and 13 for details

REGISTRATION OPENS		
SHOWCASE BUILDING TOURS*		
OPENING REMARKS AND NETWORKING LUNCH IN INTERNATIONAL BALLROOM		
NETWORKING BREAK		
MULTIFAMILY	PUBLIC	SINGLE-FAMILY
1 session	3 concurrent sessions; choose 1	1 session
Multifamily Meet-Up - Part 1 of 2: The Year Behind and The Year Ahead Room: Columbia 2	K-12 School Districts Meet-Up - Part 1 of 2: Energy Smart Schools Room: Columbia 10	Workshop - Part 1 of 2: Roadmapping Health and Residential Energy Efficiency: Unlocking New Customers & Funding Room: Columbia 5
	Local Government Meet-Up: Part 1 of 2 Room: Columbia 8	
	State Government Meet-Up: Part 1 of 2 Room: Columbia 1	
NETWORKING BREAK		
MULTIFAMILY	PUBLIC	SINGLE-FAMILY
1 session	3 concurrent sessions; choose 1	1 session
Multifamily Meet-Up - Part 2 of 2: The Year Behind and The Year Ahead Room: Columbia 2	K-12 School Districts Meet-Up - Part 2 of 2: Energy Smart Schools Room: Columbia 10	Workshop - Part 2 of 2: Roadmapping Health and Residential Energy Efficiency: Unlocking New Customers & Funding Room: Columbia 5
	Local Government Meet-Up: Part 2 of 2 Room: Columbia 8	
	State Government Meet-Up: Part 2 of 2 Room: Columbia 1	



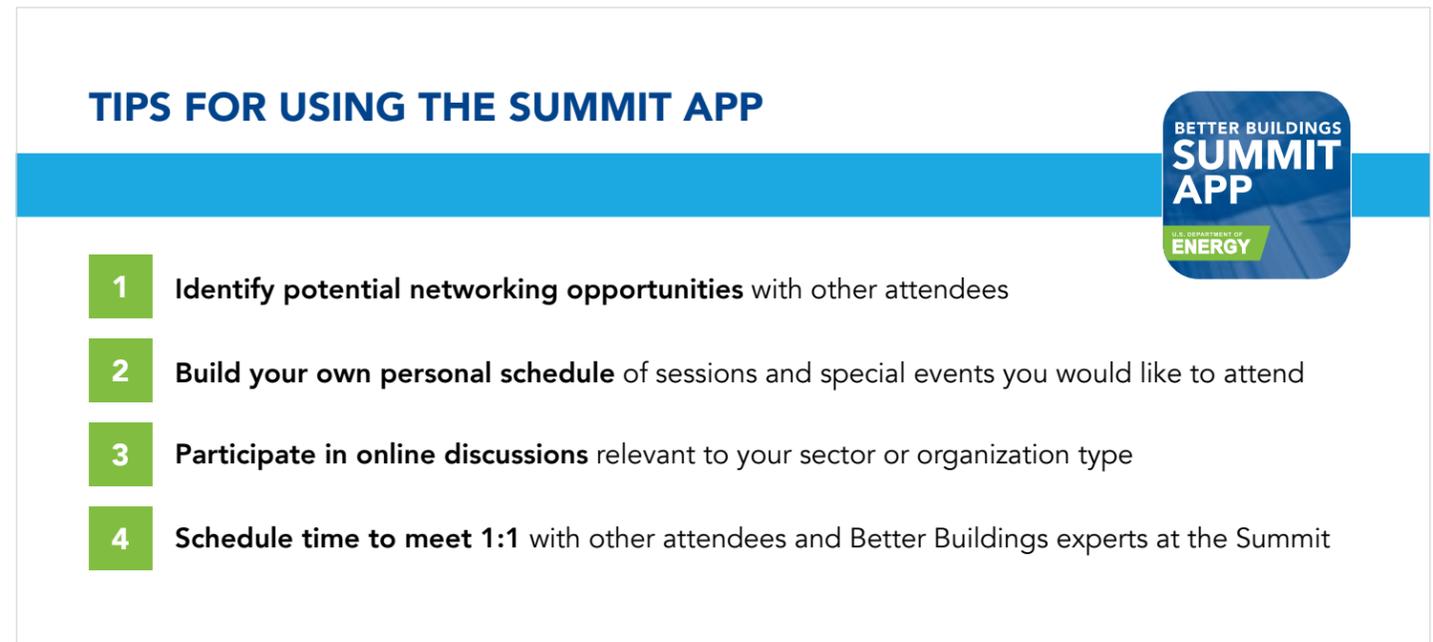
Better Buildings
U.S. DEPARTMENT OF ENERGY

SUMMIT APP

GET STARTED AT BBSUMMIT.PATHABLE.COM

Download on the **App Store** | GET IT ON **Google Play** | SEE IT ON THE **Web App**

U.S. DEPARTMENT OF **ENERGY**



TIPS FOR USING THE SUMMIT APP



- 1 Identify potential networking opportunities with other attendees
- 2 Build your own personal schedule of sessions and special events you would like to attend
- 3 Participate in online discussions relevant to your sector or organization type
- 4 Schedule time to meet 1:1 with other attendees and Better Buildings experts at the Summit

7:00–8:00 AM REGISTRATION, CONTINENTAL BREAKFAST IN INTERNATIONAL BALLROOM, AND AFFILIATE BREAKFAST*

8:00–9:00 AM KEYNOTE ADDRESS IN INTERNATIONAL BALLROOM

9:00–9:30 AM NETWORKING BREAK AND ASK-AN-EXPERT***

HIGH IMPACT SOLUTIONS: TECHNOLOGIES AND UPGRADES		ORGANIZATIONAL STRATEGIES: PEOPLE, PLANNING, POLICY	
4 concurrent sessions; choose 1		4 concurrent sessions; choose 1	
Beyond Widgets: Racking Up Savings from Systems Approaches to Building Performance Room: Columbia 9	Eureka!: Industrial Energy Technology Innovation Room: Columbia 7	Workshop: Roadmap to 20% and Beyond: Sustainability Planning for Multifamily Partners Room: Columbia 4	Scaling Up Clean Energy Programs to the Next Level for Low and Moderate Income Households Room: Columbia 11
High Performance Parking Lighting: Lots of Bright Ideas Room: Columbia 5	Solar Power Your Community Room: Columbia 10	Workshop - Part 1 of 2: An Electrifying Transition: Electrification Barriers and Opportunities Room: Columbia 12	Tips from the Trenches: State and Local Energy Planning Room: Columbia 6

10:45–11:15 AM NETWORKING BREAK AND ASK-AN-EXPERT***

4 concurrent sessions; choose 1		5 concurrent sessions; choose 1	
CHP is Everywhere! Success Stories and Best Practices Room: Columbia 4	Designed to Win: Tackling Energy Challenges Through Sport Room: Columbia 9	Workshop - Part 2 of 2: An Electrifying Transition: Electrification Barriers and Opportunities Room: Columbia 12	Building the Next Generation of Industrial Energy Managers Room: Columbia 7
Plug Into Savings: The Best Meter and Control Strategies for Office Plug Loads Room: Columbia 5	Improving the Infrastructure of Small Data Centers Room: Columbia 2	High Performing Buildings for High Performing People Room: Columbia 6	Shout it From the Mountaintops: Communicating Energy Efficiency Success Stories Room: Columbia 10
		The Year of the Lease: Working Together to Move the Needle in Tenant Energy Efficiency Room: Columbia 11	

12:30–1:30 PM PARTNER KEYNOTE, RECOGNITION, AND PANEL DISCUSSION IN INTERNATIONAL BALLROOM

1:30–2:00 PM NETWORKING BREAK, SPEED DATING WITH FINANCIAL ALLIES**, AND ASK-AN-EXPERT***

HIGH IMPACT SOLUTIONS: TECHNOLOGIES AND UPGRADES		ORGANIZATIONAL STRATEGIES: PEOPLE, PLANNING, POLICY	
5 concurrent sessions; choose 1		3 concurrent sessions; choose 1	
Bringing Efficiency to Research (BETR) Grants Room: Columbia 2	Getting Smart About Energy Analytics Room: Columbia 9	A Million Home Energy Upgrades Each Year by Empowering Consumers Room: Columbia 12	All-In: States, Localities, Utilities, and Nonprofits Creating Solutions for Underserved Communities Room: Columbia 10
HVAC Systems Leading the Way: Major Savings Now and in the Future Room: Columbia 5	Making Things Smarter: Smart Manufacturing Room: Columbia 7	Workshop - Part 1 of 2: Expect the Unexpected: Planning Energy-Resilient Communities Room: Columbia 8	
Shedding Light on LED Street Lights Room: Columbia 11			

3:15–3:45 PM NETWORKING BREAK AND ASK-AN-EXPERT***

5 concurrent sessions; choose 1		5 concurrent sessions; choose 1	
Achieving Data Center Cost Savings Through Renewable Energy Room: Columbia 2	Building Science Basics 101: Sun, Wind, and Site Room: Jay	Workshop - Part 2 of 2: Expect the Unexpected: Planning Energy-Resilient Communities Room: Columbia 8	
Hidden In Plain Sight: The Not-So-Secret Savings of the Building Envelope Room: Columbia 11	Maintaining Your RTUs in Optimal Health with Automated Fault Detection and Diagnostics (AFDD) Room: Columbia 10	Balancing Energy Efficiency and Renewable Energy Policies Room: Columbia 12	Building a Better Clean Energy Workforce Room: Columbia 9
The CHP Solution for Growth, Economics, and Business Continuity Room: Columbia 6		Fresh Eyes: Peer-Assessed Energy Efficiency Room: Columbia 7	Implementing Energy Management Systems Room: Columbia 4

5:00–7:30 PM NETWORKING EVENT IN HEIGHTS COURTYARD

*Wake Up with Better Buildings Affiliate Breakfast (Invite Only) from 7:30–8:00 AM in room Piscataway
**Additional Speed Dating with Financial Allies sessions are available in room Oak Lawn

REGISTRATION, CONTINENTAL BREAKFAST IN INTERNATIONAL BALLROOM, AND AFFILIATE BREAKFAST*

KEYNOTE ADDRESS IN INTERNATIONAL BALLROOM

NETWORKING BREAK AND ASK-AN-EXPERT***

DATA DRIVEN RESULTS AND GOAL GETTING		WATER	FINANCING	
2 concurrent sessions; choose 1		1 session	3 concurrent sessions; choose 1	
Energy Efficient Smart Labs: Lessons from the Leaders Room: Columbia 2	Get Your Residential Benchmarking Data off the Bench and into the Game Room: Holmead West	Addressing the Energy-Water Nexus: The Next Wave of Challenges and Solutions Room: Columbia 8	State of the Union for Energy Efficiency Finance Room: Columbia 1	The Future of Green Banks Room: Jay
			Workshop: Innovative Internal & External Financing Methods for Retail, Food Service & Grocery Energy Projects Room: Columbia 3	

NETWORKING BREAK AND ASK-AN-EXPERT***

2 concurrent sessions; choose 1		1 session	4 concurrent sessions; choose 1	
Data Nation! How DOE Data Tools Can Lay the Foundation for Your Program Room: Holmead East	Workshop - Part 1 of 2: Utility Benchmarking in Multifamily Housing: Kilowatt Count Your Way to a Trimmer Bottom-Line Room: Jay	Just Add Water! Quick Wins on Energy Efficiency in Wastewater Treatment Plants Room: Columbia 8	Commercial PACE: What Does It Mean for the Market? Room: Columbia 3	Finance Products for Low and Middle Income Customers: What Works? Room: Northwest
			Make Way for Savings: Unlocking Barriers to Energy Savings Performance Contracting Room: Columbia 1	The Midas Touch: Turning Unexpected Resources into Gold Room: Holmead West

PARTNER KEYNOTE, RECOGNITION, AND PANEL DISCUSSION IN INTERNATIONAL BALLROOM

NETWORKING BREAK, SPEED DATING WITH FINANCIAL ALLIES**, AND ASK-AN-EXPERT***

DATA DRIVEN RESULTS AND GOAL GETTING		WATER	FINANCING	
2 concurrent sessions; choose 1		1 session	2 concurrent sessions; choose 1	
Pioneering Strategies to Achieve Audacious Energy Goals - Part 1 of 2: Leading-Edge City Government Innovation for Energy Independence Room: Northwest	Workshop - Part 2 of 2: Utility Benchmarking in Multifamily Housing: Let Performance Data Drive Your Decisions Room: Jay	Renewable Energy Fuels Clean Water: What's Not to Like? Room: Columbia 6	Navigating to Deal Close: Key Questions to Ask When Securing Efficiency Financing Room: Columbia 1	
			Workshop - Part 1 of 2: Residential PACE Best Practices: Designing and Implementing Effective Programs Room: Columbia 3	

NETWORKING BREAK AND ASK-AN-EXPERT***

1 session		1 session	3 concurrent sessions; choose 1	
Pioneering Strategies to Achieve Audacious Energy Goals - Part 2 of 2: How Commercial and Residential Building Owners Contribute to Local Success Room: Northwest		Making the Business Case for Water Savings Room: Columbia 5	Workshop - Part 2 of 2: Residential PACE Best Practices: Designing and Implementing Effective Programs Room: Columbia 3	
			Energy in Commercial Appraisals and Mortgages: Risk or Reward? Room: Columbia 1	Free Money and Where to Find It: Today's Hottest Sources for Multifamily Retrofits Room: Holmead East

NETWORKING EVENT IN HEIGHTS COURTYARD

*** Ask-an-Expert in the Partner Pavilion — see pages 10 and 11 for details

7:00–8:00 AM	REGISTRATION AND CONTINENTAL BREAKFAST IN INTERNATIONAL BALLROOM			
8:00–9:00 AM	KEYNOTE ADDRESS IN INTERNATIONAL BALLROOM			
9:00–9:30 AM	NETWORKING BREAK AND ASK-AN-EXPERT**			
9:30 – 10:45 AM	HIGH IMPACT SOLUTIONS: TECHNOLOGIES AND UPGRADES		ORGANIZATIONAL STRATEGIES: PEOPLE, PLANNING, POLICY	
	4 concurrent sessions; choose 1		3 concurrent sessions; choose 1	
	All Systems Go: Innovative Projects in Traditional Industrial Systems Room: Columbia 9	Alternative Cooling Solutions in High Tech Buildings Room: Morgan	A Common Purpose: Aligning Community Stakeholders to Address Gaps in Underserved Markets Room: Holmead West	Energy Efficient-SHE: Women's Perspectives on Sustainability Room: Columbia 4
Saving the Sun for Later: Opportunities and Barriers for Solar PV + Energy Storage Room: Columbia 10	The Next Frontier of Plug Loads: Wireless Meter & Control Technologies Room: Columbia 11	Green Building Certifications 101: ENERGY STAR, LEED, and Living Buildings Room: Holmead East		
10:45–11:15 AM	NETWORKING BREAK AND ASK-AN-EXPERT**			
11:15 AM–12:30 PM	HIGH IMPACT SOLUTIONS: TECHNOLOGIES AND UPGRADES		ORGANIZATIONAL STRATEGIES: PEOPLE, PLANNING, POLICY	
	4 concurrent sessions; choose 1		3 concurrent sessions; choose 1	
	How Hot Can You Go? Raising Operating Temperatures in Data Centers Room: Holmead West	Reimagining Cities! Achieving Efficient, Resilient, and Sustainable Communities Through Zero Energy Buildings Room: Columbia 9	In Concert: Orchestrating the Energy Efficiency Message Room: Morgan	From the Manufacturing Floor to the Corner Office: How to Communicate with Management and Plant Personnel Room: Columbia 11
SNAPchat: On the Effects of Refrigerant Phaseouts Room: Columbia 4	The Interior Lighting Campaign: Successful Strategies + New Opportunities Room: Columbia 10	Keeping the Lights On: Stories from Housing Providers on Disaster Preparedness and Recovery Room: Holmead East		
12:30–1:30 PM	NETWORKING LUNCH IN COLUMBIA LOBBY, SPEED DATING WITH FINANCIAL ALLIES*, HOME ENERGY SCORE LUNCH***, AND RE 100 LUNCH****			
1:30–2:00 PM	NETWORKING BREAK AND ASK-AN-EXPERT**			
2:00–3:15 PM	HIGH IMPACT SOLUTIONS: TECHNOLOGIES AND UPGRADES		ORGANIZATIONAL STRATEGIES: PEOPLE, PLANNING, POLICY	
	4 concurrent sessions; choose 1		2 concurrent sessions; choose 1	
	Connected Homes of Today & Beyond Room: Northwest	If You Develop It... Will We Buy It? Better Buildings Technology Shark Tank Room: Columbia 9	EE + RE = ZE: Zero Energy Buildings for Schools Room: Holmead West	The Power of Partnerships to Accelerate Clean Energy Impacts Room: Morgan
Stranger Things: Building Materials of the Future Room: Columbia 10	Sun-Sourced, Crowd-Sourced: Community Solar Solutions for Multifamily Housing Room: Holmead East			
3:15–3:45 PM	NETWORKING BREAK AND ASK-AN-EXPERT**			
3:45–5:00 PM	HIGH IMPACT SOLUTIONS: TECHNOLOGIES AND UPGRADES		ORGANIZATIONAL STRATEGIES: PEOPLE, PLANNING, POLICY	
	3 concurrent sessions; choose 1		2 concurrent sessions; choose 1	
	Data Center Partner Roundtable Room: Piscataway	Retrofit Roulette: Case Studies in Residential Rehab Room: Columbia 11	Labels, Certifications, and Scores, Oh My! Following the Road to Green Real Estate Room: Holmead West	Public Sector Building Energy Efficiency: Maybe There is a Silver Bullet Room: Holmead East
Technology Watchlist: Building Efficiency Strategies for Now and the Next Generations Room: Columbia 9				

REGISTRATION AND CONTINENTAL BREAKFAST IN INTERNATIONAL BALLROOM			
KEYNOTE ADDRESS IN INTERNATIONAL BALLROOM			
NETWORKING BREAK AND ASK-AN-EXPERT**			
DATA DRIVEN RESULTS AND GOAL GETTING	WATER	FINANCING	
1 session	1 session	2 concurrent sessions; choose 1	
This is Your Program, This is Your Program on Data Room: Northwest	Workshop - Part 1 of 2: Leveraging Partnerships to Accelerate Energy Efficiency Improvement: Wastewater Treatment Room: Columbia 12	Let's Make a Deal! Efficiency from the Investor's Perspective Room: Piscataway	Workshop - Part 1 of 2: Energy Efficiency Finance: Understanding the Building Blocks to Success Room: Columbia 3
NETWORKING BREAK AND ASK-AN-EXPERT**			
2 concurrent sessions; choose 1	1 session	2 concurrent sessions; choose 1	
Viral Energy Efficiency: Setting Energy Efficiency Goals with Franchisees, Suppliers, and Tenants Room: Piscataway	Who's Keeping Score? Using Home Performance with ENERGY STAR and Home Energy Score Together Room: Northwest	Workshop - Part 2 of 2: Leveraging Partnerships to Accelerate Energy Efficiency Improvement: Wastewater Treatment Room: Columbia 12	Financial Ally Roundtable Room: Oak Lawn
			Workshop - Part 2 of 2: Energy Efficiency Finance: Understanding the Building Blocks to Success Room: Columbia 3
NETWORKING LUNCH IN COLUMBIA LOBBY, SPEED DATING WITH FINANCIAL ALLIES*, HOME ENERGY SCORE LUNCH***, AND RE 100 LUNCH****			
NETWORKING BREAK AND ASK-AN-EXPERT**			
DATA DRIVEN RESULTS AND GOAL GETTING	WATER	FINANCING	
1 session	1 session	2 concurrent sessions; choose 1	
Put a Meter On It! Submetering Energy and Water Use Room: Columbia 11	Multifamily Housing Water Woes: Wacky Tales of Waste and What to Do Room: Columbia 12	Getting to "Yes" with ESAs and Efficiency-as-a-Service Room: Columbia 4	You Can Do That? Pioneers in Using State Clean Water Revolving Funds for Energy Efficiency Room: Columbia 3
NETWORKING BREAK AND ASK-AN-EXPERT**			
1 session	1 session	1 session	
Building Energy Efficiency Policy Evolution: What's Next Room: Columbia 12	A Slippery Issue: Getting Your Arms Around Water Data Room: Columbia 3	Deep Impact: Non-traditional Approaches to Financing Efficiency Room: Columbia 4	

*Additional Speed Dating with Financial Allies sessions are available in room Oak Lawn

**Ask-an-Expert in the Partner Pavilion — see pages 10 and 11 for details

***Home Energy Score Lunch for state and local governments in room Morgan

****RE 100 Networking Lunch and Better Buildings Alliance Renewables Team Overview in room Piscataway — see page 45 for details

Keynotes & Plenaries

Opening Remarks

MONDAY: 12:00 - 1:00 PM
Room: International Ballroom

-  **Dr. Kathleen Hogan**
Deputy Assistant Secretary for Energy Efficiency, DOE
-  **Maria T. Vargas**
Director of Better Buildings Challenge, DOE

Partner Keynote Address

TUESDAY: 8:00 - 9:00 AM
Room: International Ballroom

-  **Daniel Simmons**
Principal Deputy Assistant Secretary for Energy Efficiency and Renewable Energy, DOE
-  **Betsy Price**
Mayor of Fort Worth, TX

Plenary: Partner Insider Talks

TUESDAY: 8:00 - 9:00 AM
Room: International Ballroom

-  **John D'Angelo**
Northwestern University
-  **Roger Webb**
Wendco
-  **Greg Farley**
Chesapeake College
-  **David Reid**
Celanese
-  **Stacey Lawson**
Ygrene

Perspectives, Emerging Trends, Topics, and Technologies Keynote Address

WEDNESDAY: 8:00 - 9:00 AM
Room: International Ballroom

-  **Kateri Callahan**
Alliance to Save Energy
-  **Tim Unruh**
Department of Energy
-  **Mark Johnson**
Department of Energy
-  **Duane Desiderio**
Real Estate Roundtable
-  **Elizabeth Mendenhall**
National Association of Realtors
-  **Roderick Jackson**
Oak Ridge National Laboratory

Panels

Better Buildings Challenge SWAP Panel Discussion

TUESDAY: 12:30 - 1:30 PM
Room: International Ballroom

-  **Austin Blackmon**
Boston, MA
-  **Karen Flack**
U.S. Naval Academy
-  **Randy Gaines**
Hilton Worldwide
-  **Russell Hume**
U.S. Air Force Academy

Special Events

Showcase Building Tours

RESERVATION ONLY
MONDAY: 8:30 AM - 12:00 PM
See pages 12 and 13 for details

Technology Campaign Recognition

MONDAY: 12:00 - 1:00 PM
Room: International Ballroom

Wake Up with Better Buildings Affiliate Breakfast

INVITE ONLY
TUESDAY: 7:30 - 8:00 AM
Room: Piscataway

Partner Recognition

TUESDAY: 12:30 - 1:30 PM
Room: International Ballroom

Networking Event

TUESDAY: 5:00 - 7:30 PM
Room: Heights Courtyard

RE 100 Networking Lunch and Better Buildings Alliance Renewables Team Overview

WEDNESDAY: 12:30 - 1:30 PM
Room: Piscataway
See page 45 for details

Ask-An-Expert

TUESDAY AND WEDNESDAY DURING ALL BREAKS
Room: Columbia Lobby
See pages 10 and 11 for details

Speed Dating with Financial Allies

SCHEDULED IN ADVANCE
TUESDAY: 1:30 - 2:00 PM
WEDNESDAY: 12:30 - 1:30 PM
Room: Oak Lawn

Partner Pavilion DURING ALL BREAKS

Room: Columbia Lobby
See page 14 for details

Industrial

Better Plants: What's Up and What's New in Industrial Efficiency

MONDAY: 1:30 - 5:00 PM
Room: Columbia 7
See pages 17 and 20 for details

Single-Family

Roadmapping Health and Residential Energy Efficiency: Unlocking New Customers & Funding

MONDAY: 1:30 - 5:00 PM
Room: Columbia 5
See pages 18 and 21 for details

Organizational Strategies: People, Planning, Policy

Roadmap to 20% and Beyond: Sustainability Planning for Multifamily Partners

TUESDAY: 9:30 - 10:45 AM
Room: Columbia 4
See pages 23 for details

An Electrifying Transition: Electrification Barriers and Opportunities

TUESDAY: 9:30 AM - 12:30 PM
Room: Columbia 12
See pages 23 and 27 for details

Expect the Unexpected: Planning Energy-Resilient Communities

TUESDAY: 2:00 - 5:00 PM
Room: Columbia 8
See pages 31 and 35 for details

Data Driven Results and Goal Getting

Utility Benchmarking in Multifamily Housing

TUESDAY: 11:15 AM - 3:15 PM
Room: Jay
See pages 28 and 32 for details

Water

Leveraging Partnerships to Accelerate Energy Efficiency Improvement: Wastewater Treatment

WEDNESDAY: 9:30 AM - 12:30 PM
Room: Columbia 12
See pages 40 and 44 for details

Financing

Innovative Internal & External Financing Methods for Retail, Food Service & Grocery Energy Projects

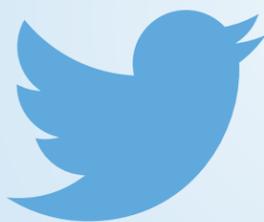
TUESDAY: 9:30 - 10:45 AM
Room: Columbia 3
See page 25 for details

Residential PACE Best Practices: Designing and Implementing Effective Programs

TUESDAY: 2:00 - 5:00 PM
Room: Columbia 3
See pages 33 and 37 for details

Energy Efficiency Finance: Understanding the Building Blocks to Success

WEDNESDAY: 9:30 AM - 12:30 PM
Room: Columbia 3
See pages 41 and 45 for details



JOIN AND FOLLOW THE DISCUSSION
@BetterBldgsDOE
#BBSummit17

ASK-AN-EXPERT

IN THE PARTNER PAVILION

Technical experts are available to answer questions and discuss energy performance trends in technology, process, data, and tools. Ask about emerging technologies, discuss strategies from the field, and learn how to better approach projects within your organization.

COMMERCIAL TECHNOLOGIES

BUILDING ENVELOPE

WED, MAY 17: 9:00-9:30 AM

WED, MAY 17: 10:45-11:15 AM



Melissa Voss Lapsa
Oak Ridge National Laboratory

COMBINED HEAT & POWER PACKAGED SYSTEMS <10MW

TUE, MAY 16: 9:00-9:30 AM

WED, MAY 17: 1:30-2:00 PM



Richard Sweetser
Exergy Partners Corp.

ENERGY MANAGEMENT & INFORMATION SYSTEMS

TUE, MAY 16: 9:00-9:30 AM

TUE, MAY 16: 10:45-11:15 AM



Jessica Granderson
Lawrence Berkeley National Laboratory

LIGHTING & ELECTRICAL

TUE, MAY 16: 1:30-2:00 PM

TUE, MAY 16: 3:15-3:45 PM



Linda Sandahl
Pacific Northwest National Laboratory



Michael Myer
Pacific Northwest National Laboratory

PLUG & PROCESS LOADS

TUE, MAY 16: 3:15-3:45 PM

WED, MAY 17: 3:15-3:45 PM



Rois Langner
National Renewable Energy Laboratory



Marta Schantz
Waypoint Building Group



Sormeh Konjkav
Waypoint Building Group

REFRIGERATION

TUE, MAY 16: 10:45-11:15 AM

WED, MAY 17: 1:30-2:00 PM



Justin Elszasz
Navigant Consulting, Inc.

RENEWABLES

WED, MAY 17: 1:30-2:00 PM

WED, MAY 17: 3:15-3:45 PM



Jay Paidipati
Navigant Consulting, Inc.

SPACE CONDITIONING

TUE, MAY 16: 9:00-9:30 AM

WED, MAY 17: 10:45-11:15 AM



Michael Deru
National Renewable Energy Laboratory

INDUSTRIAL TECHNOLOGIES

COMBINED HEAT & POWER INDUSTRIAL

TUE, MAY 16: 10:45-11:15 AM

WED, MAY 17: 10:45-11:15 AM



Bruce Hedman
Entropy Research

PROCESS HEATING & WASTE HEAT RECOVERY

TUE, MAY 16: 9:00-9:30 AM

WED, MAY 17: 1:30-2:00 PM



Sachin Nimbalkar, PhD
Oak Ridge National Laboratory

PUMPING SYSTEMS & DATA MEASUREMENT

TUE, MAY 16: 1:30-2:00 PM

WED, MAY 17: 9:00-9:30 PM



Daryl Cox
Oak Ridge National Laboratory

STEAM & ENERGY ASSESSMENTS

TUE, MAY 16: 3:15-3:45 PM

WED, MAY 17: 10:45-11:15 AM



Thomas Wenning
Oak Ridge National Laboratory

WATER EFFICIENCY & 50001 READY

TUE, MAY 16: 10:45-11:15 AM

WED, MAY 17: 3:15-3:45 PM



Prakash Rao
Lawrence Berkeley National Laboratory

DATA

DATA TOOLS

TUE, MAY 16: 1:30-2:00 PM

WED, MAY 17: 9:00-9:30 AM



Harry Bergmann
U.S. Department of Energy



Madeline Salzman
U.S. Department of Energy



Dale Hoffmeyer
U.S. Department of Energy

ENERGY STAR® PORTFOLIO MANAGER®

ONE-ON-ONE MEETINGS: SCHEDULED IN ADVANCE



Sara Lisauskas
ICF

Don't miss the live demo of the
Building Energy Asset Scoring Tool

TUESDAY: 10:45 - 11:15 AM

Room: Holmead East

WEDNESDAY: 3:15 - 3:45 PM

Room: Morgan

Take complete advantage of your
networking breaks!



Learn more about each expert
and their team's focus in the
Better Buildings Summit App
bbsummit.pathable.com

SHOWCASE BUILDING TOURS

Thank you to Better Buildings Challenge 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

Through its partnership with the Better Buildings Challenge, Arlington County's Central Library has reduced energy use by 28% since 2008, saving \$56,000 annually, and has cut electricity consumption in half since 2000. Projects completed in the 137,000 square foot building include lighting retrofits, energy efficient chiller replacement, installation of a photovoltaic system, and new condensing boilers.



Clarksburg Correctional Facility and Holiday Park Senior Center
MONTGOMERY COUNTY, MD
PUBLIC

Montgomery County has implemented over 15 solar and advanced energy systems projects. The Holiday Park Senior Center includes a car canopy system that provides shade and weather protection, while also generating clean, low-cost energy. The Montgomery County Correctional Facility is installing three separate solar PV systems, including a new ground mount system designed to complement the existing landscape, allowing habitat to exist around it to support broader green space and water quality goals.



CEB Tower at Central Place
THE JBG COMPANIES
COMMERCIAL REAL ESTATE

CEB Tower at Central Place is a new development in the Rosslyn neighborhood of Arlington, Virginia, that will be home to the highest public point in the Washington D.C. metro area – an observation deck that offers 360 degree views of the surrounding skyline. Developed by The JBG Companies, the 570,000 square foot trophy office space is precertified LEED Platinum and highlights innovative energy efficiency and sustainability features such as Low-E glass, express elevators, heat tracing slabs, economizer recovery and more.



The Latitude Apartments
PENROSE GROUP
MULTIFAMILY

The Latitude Apartments by the Penrose Group is a new 12-story, 265-unit multifamily building in Arlington, Virginia, which offers residents green living in the areas of energy, water, waste, and transportation. The building features a variable refrigerant flow mechanical system spanning from resident apartments all the way to the rooftop condensing units.



George C. Marshall High School
FAIRFAX COUNTY PUBLIC SCHOOLS
PUBLIC

George C. Marshall High School is one of Fairfax County Public School's largest and most recently renovated K-12 buildings. Beginning in 2011, the school implemented several energy upgrades including automated temperature controls, energy recovery units, LED lighting fixtures, and variable frequency drives. To ensure proper use of the new equipment and provide for energy savings, the school expanded its comprehensive education and sustainability programs. These initiatives drove project-based learning activities that conserve energy and promote environmental stewardship.



The Smithsonian Museum of Natural History
THE SMITHSONIAN INSTITUTION
PUBLIC

Get a behind the scenes look at the energy efficiency measures in place at The Smithsonian Museum of Natural History. The world's most popular natural history museum is dedicated to understanding the natural world and our place in it. Opened in 1910, this museum on the National Mall was one of the first Smithsonian buildings constructed exclusively to hold the national collections and research facilities. Highlights of the tour will include a review of the historical building and a look at the modern HVAC upgrades put in place to save energy while maintaining comfort for 8 million annual visitors and preserving 126 million specimens.



Urban Land Institute Headquarters
URBAN LAND INSTITUTE
COMMERCIAL REAL ESTATE

Urban Land Institute's headquarters is a symbolic reflection of the Institute's values, including its focus on sustainability and building healthy places. ULI's workplace is designed to affect productivity, organizational culture, and collaboration. The space is an example of energy efficiency best practices that can be achieved in a tenant space build-out.



Washington Hilton Hotel
HILTON WORLDWIDE
HOSPITALITY

The host hotel of the Better Buildings Summit features energy efficiency measures including lighting, HVAC, advanced building controls, and optimized hotel operations put in place by Hilton Worldwide, a Better Buildings Challenge partner. This historic hotel regularly hosts the annual White House Correspondents Dinner, National Prayer Breakfast, and various other important events. It is one of 12 sites in D.C. considered a Historic Hotel by the National Trust for Historic Preservation.



Washington D.C. Flagship Store
REI CO-OP
RETAIL

The Uline Arena, aka Washington Coliseum, was built in 1941 and played host to the first Beatles concert on American soil. The facility was reincarnated last summer as a new REI flagship store, targeting LEED Gold certification under the USGBC's Commercial Interiors rating system.

WHAT'S HAPPENING
IN THE

PARTNER PAVILION

ROOM: COLUMBIA LOBBY

ASK-AN-EXPERT

Ask about emerging technologies, discuss strategies from the field, and learn how to better approach projects within your organization

NETWORK WITH PEERS

Meet partners and learn and share successes

VIEW SHOWCASE PROJECTS

Explore innovative efficiency actions that have resulted in significant bottom line savings for Better Buildings partners

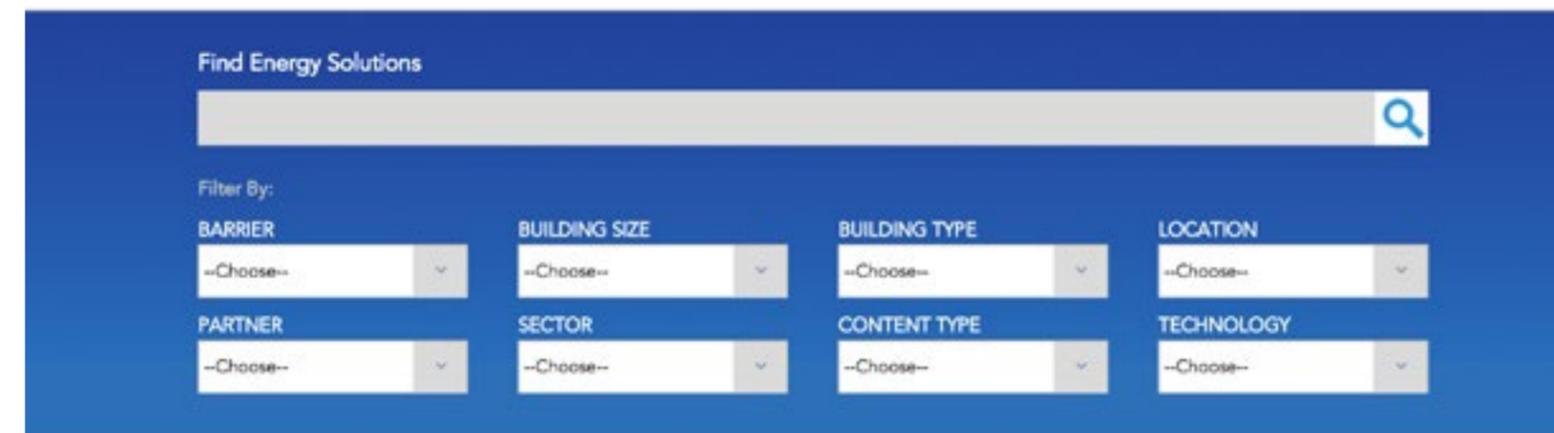
LIVE SOCIAL REPORTING

View the latest social media feeds and participate in our live coverage

GET STARTED ON YOUR ENERGY
EFFICIENCY SOLUTION TODAY

BETTER BUILDINGS SOLUTION CENTER

The Solution Center is designed to help your organization find a solution by topic, building type, solution type, building size, sector, technology, location, and more. Learn how a variety of organizations finance their building solutions, implement emerging technologies, build their team's energy expertise, motivate staff, get buy-in from management, or establish community-wide initiatives. **Explore the hundreds of solutions tested and proven by partners.**



betterbuildingsolutioncenter.energy.gov

COMMERCIAL

Commercial Real Estate Meet-Up

Healthcare Meet-Up

Higher Education Meet-Up

Hospitality Meet-Up

Retail, Food Service & Grocery Meet-Up

ROOM Columbia 9
LEVEL Terrace

This meet-up will feature case studies and new ideas about how to continue to make progress and evolve the market. Better Buildings Challenge partners USAA and Tower Companies will share updates about the progress they have made in meeting their ambitious energy reduction goals, and will discuss driving the industry towards more sustainable, energy efficient working environments. Everyone in the commercial real estate community is encouraged to join.

ROOM Morgan
LEVEL Lobby

Meet with Better Buildings Challenge and Alliance leaders from across the healthcare sector. This interactive session will be an opportunity for partners to connect and converse with peers, sharing accomplishments and challenges in a candid format. Attendees will participate in open discussions on topics such as working with their utility, integrating renewable energy, and addressing water efficiency.

ROOM Columbia 11
LEVEL Terrace

Meet with Better Buildings Challenge and Alliance leaders from across the higher education sector. This interactive session will be an opportunity for partners to connect and converse with peers while sharing accomplishments and challenges in a candid format. Discussion topics include building benchmarking, engaging occupants through EMIS, and energy efficiency in climate goals.

ROOM Northwest
LEVEL Lobby

Meet with Better Buildings Challenge and Alliance partners from the hospitality sector. This interactive session will be an opportunity to connect and converse with peers, share accomplishments and challenges, and address topics such as water efficiency, franchisee engagement, and new technologies. We will be joined by our newest affiliate partner, the Asian American Hotel Owners Association, and discuss opportunities for engagement.

ROOM Columbia 3
LEVEL Terrace

Meet with Better Buildings Challenge and Alliance partners from the retail, food service and grocery sector. This interactive session will be an opportunity to connect and converse with peers, share accomplishments and challenges, and address topics such as refrigeration, distribution centers and franchisee engagement. This meet-up is for Better Buildings partners and affiliates only.

COMMERCIAL

COMMERCIAL HEALTHCARE

COMMERCIAL HIGHER EDUCATION

COMMERCIAL HOSPITALITY

COMMERCIAL RETAIL, FOOD SERVICE & GROCERY

PANELISTS

Giuliana Kunkel, The Tower Companies
Jason McIntyre, USAA Real Estate Company

Moderator
Cindy Zhu, DOE

MODERATOR

Sultan Latif, DOE

PANELISTS

John D'Angelo, Northwestern University
William Lakos, Michigan State University

Moderator
Sultan Latif, DOE

PANELISTS

Chris Magee, MGM Resorts
Bhavesh Patel, AAHOA

Moderator
Andrew Mitchell, DOE

MODERATOR

Holly Carr, DOE

INDUSTRIAL

Workshop - Part 1 of 2: Better Plants: What's Up and What's New in Industrial Efficiency

ROOM Columbia 7
LEVEL Terrace

Find out what's been happening with Better Plants! In this three-hour workshop, part 1 will include an interactive discussion of the state of industrial energy efficiency, providing partners the opportunity to give feedback on existing and new programmatic initiatives. Part 2 will include demonstrations and discussions on existing and new industrial technologies, along with emerging trends in improving the energy efficiency of such systems.

INDUSTRIAL MANUFACTURING BETTER PLANTS

PANELIST

Mark Johnson, DOE

Moderator
Jay Wrobel, DOE

LABS

Better Buildings Smart Labs Accelerator Partners Meet-Up: Part 1 of 2

ROOM Holmead West
LEVEL Lobby

Better Buildings Smart Labs Accelerator partners will convene to share their experiences and provide input to the Energy Department as it prioritizes actions to drive energy savings in laboratories. This is a closed session for Accelerator partners.

LABS

MODERATOR

Daniel Robinson, DOE

MULTIFAMILY

Multifamily Meet-Up - Part 1 of 2: The Year Behind and The Year Ahead

ROOM Columbia 2
LEVEL Terrace

Kick off the Better Buildings Summit with your fellow Better Buildings Challenge multifamily partners. We will highlight some of the most exciting case studies from the previous year, review progress on the Year of Data, honor special achievements, and discuss the year ahead.

MULTIFAMILY

PANELISTS

Chris Jedd, The Housing Authority of the City and County of Denver
Bomee Jung, New York City Housing Authority
Trisha Miller, Wishrock Investment Group

Moderator
Julia Hustwit, DOE

PUBLIC

K-12 School Districts Meet-Up - Part 1 of 2: Energy Smart Schools

Local Government Meet-Up: Part 1 of 2

State Government Meet-Up: Part 1 of 2

ROOM Columbia 10
LEVEL Terrace

K-12 Better Buildings Challenge partners have indicated several focus areas of opportunity to help their districts reach their energy goals better, smarter, and faster. This workshop-style session will enable partners and other interested stakeholders to sharpen their tools in the areas of building energy efficiency, renewable technologies, fleet conversions, and financial mechanisms.

ROOM Columbia 8
LEVEL Terrace

Engage with leaders from the Better Buildings 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.

ROOM Columbia 1
LEVEL Terrace

At this meeting, state government partners will present successful Leading By Example (LBE) initiatives developed in various states across the country. Discussions will include the successful elements and potential pitfalls of program implementation, as well as brainstorm ideas for sharing the program models with their local government partners. Several states will give an update on the recently launched LBE Interstate Network.

K-12 SCHOOLS PUBLIC

LOCAL GOVERNMENT PUBLIC

STATE GOVERNMENT PUBLIC

PANELISTS

Jensen Adams, Kansas City Public Schools, MO

Carolyn Sarno Goldthwaite, NEEP

Jordan Hibbs, DOE

Joe Indvik, JDM Associates

Jeff Jeter, Chesterfield County Schools

Craig Wright, Aurora Public Schools

Moderator
Crystal McDonald, DOE

MODERATORS

Andrew Burr, DOE

AnnaMaria Garcia, DOE

Adam Guzzo, DOE

Una Song, DOE

Jonah Steinbuck, DOE

Jenah Zweig, DOE

SINGLE-FAMILY

Workshop - Part 1 of 2: Roadmapping Health and Residential Energy Efficiency: Unlocking New Customers & Funding

ROOM Columbia 5
LEVEL Terrace

The market is moving to incorporate health into home performance (HHP), which offers unprecedented potential to unlock new customers and funding. DOE recently released a review of existing HHP literature, and clean energy thought leader E4TheFuture recently released a paper that featured the value of HHP. In this three-hour workshop, hear jaw-dropping statistics and roll up your sleeves to further develop a roadmap for programs.

RESIDENTIAL

PANELISTS

Steve Cowell, E4TheFuture

Kevin Kennedy, Children's Mercy Hospital & Clinics

Jonathan Wilson, National Center for Healthy Housing

Larry Zarker, Building Performance Institute

Moderators
Jonathan Cohen, DOE
Ely Jacobsohn, DOE

COMMERCIAL

Believe in Green: Investor-Oriented Sustainability Insights for Commercial Real Estate

Buildings That Never Sleep, Even When You Do: Energy Efficiency Solutions for Hotels and Hospitals

Proven Strategies for Tackling Long-Term Campus Energy Goals

Retail, Food Service & Grocery Partners and Vendors Solving Energy Challenges Together

ROOM Columbia 9
LEVEL Terrace

Investment in sustainability certifications can provide insights that reduce operating costs and enhance net operating income, but other questions remain. What about driving tenant renewals, increasing occupancy, or yielding higher rental rates and lower concessions? These key metrics are being explored by the commercial real estate industry. This session will feature insights from GRESB and showcase the efforts of several Better Buildings partners.

COMMERCIAL

PANELISTS

Abigail Dean, TH Real Estate

Jennifer McConkey, Principal Real Estate Investors

John K. Scott, Colliers International

Dan Winters, GRESB

Moderator
Cindy Zhu, DOE

ROOM Morgan
LEVEL Lobby

Hotels and hospitals aren't usually grouped together, but they have many similarities when it comes to building operations. Both types of buildings host guests around the clock and need to provide them with comfortable amenities. They also utilize diverse building systems that use a lot of energy including laundry, food service, and office type technologies. In this session, healthcare and hospitality partners will share cross-applicable solutions, including ways to engage employees and exciting technologies to keep guests or patients warm, cool, and well-lit.

COMMERCIAL HEALTHCARE HOSPITALITY

PANELISTS

Michael Barnes, HEI Hotels & Resorts

John D'Angelo, Northwestern University

Michael Dean, Hilton Worldwide

Moderator
Andrew Mitchell, DOE

ROOM Northwest
LEVEL Lobby

Over 500 universities have committed to carbon neutrality - now what? Explore the benefits of deep energy efficiency as the lowest-cost measure for reducing energy use and emissions, as well as innovative ways to secure offsets by sponsoring campus community energy efficiency.

COMMERCIAL HIGHER EDUCATION

PANELISTS

Charles Adair, Duke University

Greg Farley, Chesapeake College

Moderator
Sultan Latif, DOE

ROOM Columbia 3
LEVEL Terrace

At this "reverse-pitch" session, retail, food service, and grocery partners will share challenges to energy efficiency in the field and associated tech wishlists with product development representatives from tech firms in HVAC, lighting, EMIS and more.

COMMERCIAL RETAIL, FOOD SERVICE & GROCERY

MODERATORS

Zach Abrams, ICF

Holly Carr, DOE

INDUSTRIAL

Workshop - Part 2 of 2:
Better Plants: What's Up and
What's New in Industrial Efficiency

ROOM Columbia 7
LEVEL Terrace

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BETTER PLANTS INDUSTRIAL
MANUFACTURING

PANELIST

Mark Johnson, DOE

Moderator
Jay Wrobel, DOE

LABS

Better Buildings Smart Labs
Accelerator Partners Meet-Up:
Part 2 of 2

ROOM Holmead West
LEVEL Lobby

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LABS

MODERATOR

Daniel Robinson, DOE

MULTIFAMILY

Multifamily Meet-Up - Part 2 of 2:
The Year Behind and
The Year Ahead

ROOM Columbia 2
LEVEL Terrace

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MULTIFAMILY

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Bomee Jung, New York City Housing
Authority

Trisha Miller, Wishrock Investment Group

Moderator
Julia Hustwit, HUD

PUBLIC

K-12 School Districts
Meet-Up - Part 2 of 2:
Energy Smart Schools

ROOM Columbia 10
LEVEL Terrace

K-12 Better Buildings Challenge partners have indicated several focus areas of opportunity to help their districts reach their energy goals, better, smarter, and faster. This workshop-style session will enable partners and other interested stakeholders to sharpen their tools in the areas of building energy efficiency, renewable technologies, fleet conversions, and financial mechanisms.

K-12 SCHOOLS PUBLIC

PANELISTS

Jensen Adams, Kansas City
Public Schools, MO

Carolyn Sarno Goldthwaite,
NEEP

Jordan Hibbs, DOE

Joe Indvik, JDM Associates

Jeff Jeter, Chesterfield County
Schools

Craig Wright, Aurora Public
Schools

Moderator
Crystal McDonald, DOE

Local Government
Meet-Up:
Part 2 of 2

ROOM Columbia 8
LEVEL Terrace

Engage with leaders from the Better Buildings 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.

LOCAL GOVERNMENT PUBLIC

MODERATORS

Andrew Burr, DOE

AnnaMaria Garcia, DOE

Adam Guzzo, DOE

Una Song, DOE

Jonah Steinbuck, DOE

Jenah Zweig, DOE

State Government
Meet-Up:
Part 2 of 2

ROOM Columbia 1
LEVEL Terrace

At this meeting, state government partners will present successful Leading By Example (LBE) initiatives developed in various states across the country. Discussions will include the successful elements and potential pitfalls of program implementation, as well as brainstorm ideas for sharing the program models with their local government partners. Several states will give an update on the recently launched LBE Interstate Network.

STATE GOVERNMENT PUBLIC

MODERATOR

Alice Dasek, DOE

SINGLE-FAMILY

Workshop - Part 2 of 2:
Roadmapping Health
and Residential Energy
Efficiency: Unlocking
New Customers &
Funding

ROOM Columbia 5
LEVEL Terrace

The market is moving to incorporate health into home performance (HHP), which offers unprecedented potential to unlock new customers and funding. DOE recently released a review of existing HHP literature, and clean energy thought leader E4TheFuture recently released a paper that featured the value of HHP. In this three-hour workshop, hear jaw-dropping statistics and roll up your sleeves to further develop a roadmap for programs.

RESIDENTIAL

PANELISTS

Steve Cowell, E4TheFuture

Kevin Kennedy, Children's
Mercy Hospital & Clinics

Jonathan Wilson, National
Center for Healthy Housing

Larry Zarker, Building
Performance Institute

Moderators
Jonathan Cohen, DOE
Ely Jacobsohn, DOE

HIGH IMPACT SOLUTIONS: TECHNOLOGIES AND UPGRADES

Beyond Widgets: Racking Up Savings from Systems Approaches to Building Performance

Eureka!: Industrial Energy Technology Innovation

High Performance Parking Lighting: Lots of Bright Ideas

Solar Power Your Community

ROOM Columbia 9
LEVEL Terrace

How can we use the most impactful packages of energy savings measures, big data from buildings and strategic investment planning to capture more than just the "low hanging fruit?" This panel will discuss taking a strategic, building systems approach including phased retrofits across portfolios as well as lessons learned and best practices from actual projects..

ROOM Columbia 7
LEVEL Terrace

Emerging technologies offer significant potential to improve industrial energy efficiency. This session will showcase a set of technologies and examples of their application in manufacturing plants.

ROOM Columbia 5
LEVEL Terrace

This session will highlight projects from two Lighting Energy Efficiency in Parking (LEEP) Campaign participants that resulted in energy and cost savings of over 80 percent, while maintaining or improving lighting quality. Panelists will share how they made the business case for the improvements, performance versus expectations, and lessons learned for others who want to achieve savings through high efficiency parking lighting.

ROOM Columbia 10
LEVEL Terrace

This session will familiarize participants with DOE's community-focused solar programs, including SolSmart and the Solar in Your Community Challenge. During this session attendees will be introduced to a range of solar tools and resources, have a chance to explore stakeholder needs and learn about opportunities for advancing solar power.

COMMERCIAL PUBLIC

BETTER PLANTS INDUSTRIAL MANUFACTURING

COMMERCIAL HIGHER EDUCATION RETAIL, FOOD SERVICE & GROCERY

LOCAL GOVERNMENT STATE GOVERNMENT PUBLIC

PANELISTS

Matthew Jungclaus, Rocky Mountain Institute
Rick Tonielli, ComEd
Scott Williams, Williams Building Systems Engineering PC

Moderator
Laura Van Wie McGrory, Alliance to Save Energy

PANELISTS

George Andraos, Ford Motor Company
Brian Myers, Toyota Motor Engineering & Manufacturing North America, Inc
Michael Schratz, Dialight
Steve Schultz, 3M

Moderator
Eli Levine, DOE

PANELISTS

Sandra Cullen, University of Minnesota
Scott Moline, The Wendy's Company

Moderator
Paul Wessel, USGBC

PANELISTS

Joel Conkling, Google
Liz Doris, National Renewable Energy Laboratory
Kevin Limehouse, Charleston County

Moderators
Josh Huneycutt, DOE
Jonah Steinbuck, DOE

ORGANIZATIONAL STRATEGIES: PEOPLE, PLANNING, POLICY

Scaling Up Clean Energy Programs to the Next Level for Low and Moderate Income Households

Tips from the Trenches: State and Local Energy Planning

Workshop - Part 1 of 2: An Electrifying Transition: Electrification Barriers and Opportunities

Workshop: Roadmap to 20% and Beyond: Sustainability Planning for Multifamily Partners

ROOM Columbia 11
LEVEL Terrace

Only a small fraction of low and moderate income households can access comprehensive home energy upgrades, and even fewer have access to renewable energy. Yet, these households pay on average three times as much of a percentage of their income on energy bills. Innovative use of public subsidy and program models can attract and leverage private sector investment to create solutions to reach a greater number of households and for those that need it the most. State and nonprofit leaders in Colorado and Connecticut will discuss their policy and program efforts to achieve scale in this underserved market.

MULTIFAMILY RESIDENTIAL

PANELISTS

Diane Duva, State of Connecticut
Jennifer Gremmert, Energy Outreach Colorado
Ben Healey, Connecticut Green Bank
Joseph Pereira, State of Colorado

Moderator
Michael DiRamio, DOE

ROOM Columbia 6
LEVEL Terrace

This session will walk state and local policymakers through a state-local planning process. It will highlight planning practices around analysis, stakeholder engagement, policy design, and implementation. Speakers will provide "take-home tips" for audience members that focus on best practices for key steps in the energy planning process. A take-home tip sheet will be provided to participants.

LOCAL GOVERNMENT STATE GOVERNMENT PUBLIC

PANELISTS

Danielle Byrnett, DOE
Michelle Gransee, State of Minnesota
Brian Selinger, State of Iowa

Moderator
Greg Dierkers, DOE

ROOM Columbia 12
LEVEL Terrace

A shift toward greater electrification is needed to effectively reduce energy waste and costs, increase energy independence, strengthen industry, and create jobs. This three-hour workshop explores the opportunities and barriers for state and local governments to electrify their transportation sectors, building technologies, and ports. Join us to discuss the latest trends, success stories, and innovative strategies in electrification.

LOCAL GOVERNMENT STATE GOVERNMENT PUBLIC

PANELISTS

Richard Cameron, Port of Long Beach, CA
Cedric Daniels, Alabama Power Company
Andrea Pratt, Seattle, WA
Jennifer Wallace-Brodeur, Vermont Energy Investment Corporation

Moderator
Mark Smith, DOE

ROOM Columbia 4
LEVEL Terrace

Come to this workshop with pen in hand, as Enterprise Community Partners instructs building owners on the importance of developing organizational sustainability and resilience plans. Take the first steps to outline a strategy for reaching your 20 percent energy and/or water reduction pledge as a Better Buildings Challenge partner and identify other critical objectives using our free take-home planning workbook. Executives and thought leaders are encouraged to attend.

MULTIFAMILY

PANELISTS

Krista Egger, Enterprise Community Partners
Caitlin Rood, Mercy Housing, Inc.

Moderator
Julia Hustwit, HUD

DATA DRIVEN RESULTS: AND GOAL GETTING

Energy Efficient Smart Labs: Lessons from the Leaders

ROOM Columbia 2
LEVEL Terrace

Laboratories in the public and private sectors can be three to four times more energy intensive than typical office buildings, making them key targets for energy efficiency efforts. In this panel, organizations participating in the Better Buildings Smart Labs Accelerator will share their success stories and describe the strategies they employed to cut energy consumption in their laboratories.

LABS

PANELISTS

Shannon Horn, University of Colorado Boulder

Timothy Lockhart, University of Colorado Boulder

Phil Wirdzek, I2SL International Institute for Sustainable Laboratories

Monica Witt, Los Alamos National Laboratory

Moderator
Otto VanGeet, National Renewable Energy Laboratory

Get Your Residential Benchmarking Data off the Bench and into the Game

ROOM Holmead West
LEVEL Lobby

Come learn about successes and lessons learned in residential building energy benchmarking, and how DOE tools and resources can assist. Representatives from city, state, and regional government organizations will speak about their experiences utilizing DOE's Home Energy Score, the Home Energy Information Accelerator, and the State Energy Efficiency Database to move residential energy benchmarking programs forward.

LOCAL GOVERNMENT PUBLIC
RESIDENTIAL STATE GOVERNMENT

PANELISTS

Carolyn Sarno Goldthwaite, NEEP

David Heslam, Earth Advantage

Bruce Mast, Build It Green

Moderator
Joan Glickman, DOE

WATER

Addressing the Energy-Water Nexus: The Next Wave of Challenges and Solutions

ROOM Columbia 8
LEVEL Terrace

Our nation's energy and water systems are inextricably linked. Solutions that address the interdependencies of these systems are growing in importance as concerns over water scarcity continue to rise. In this session, experts from the public and private sectors will share their perspectives on key technology, business, and policy solutions that address the energy-water nexus.

CEU COMMERCIAL INDUSTRIAL
LOCAL GOVERNMENT PUBLIC
STATE GOVERNMENT

PANELISTS

George Barclay, Dow Water and Process Solutions

Mark Johnson, DOE

Nancy Sutley, Los Angeles Department of Water and Power

Moderator
Andre de Fontaine, DOE

FINANCING

State of the Union for Energy Efficiency Finance

ROOM Columbia 1
LEVEL Terrace

This session will cover the state of the efficiency financing industry in broad strokes, targeted at a general audience. Leading experts will guide us through topics including trends in both new and old financing products, key policy changes affecting the industry, and the market outlook for 2018 and beyond. Panelists will discuss financing mechanisms including leases, loans, ESPCs, ESAs, PACE, on-bill, and more. This session will serve as an introduction to the more detailed financing sessions later in the Summit.

COMMERCIAL DATA CENTER HEALTHCARE
HIGHER EDUCATION HOSPITALITY INDUSTRIAL
K-12 SCHOOLS LABS LOCAL GOVERNMENT
MULTIFAMILY RETAIL, FOOD SERVICE & GROCERY
STATE GOVERNMENT RESIDENTIAL PUBLIC

PANELISTS

Brian Stickles, ACEEE

Anmol Vanamali, Vermont Energy Investment Corporation

Moderator
Joe Indvik, JDM Associates

The Future of Green Banks

ROOM Jay
LEVEL Lobby

Green banks continue to gain popularity as a way for state and local governments to catalyze the development of the clean energy economy. This session will explore recent trends in green banks, key challenges, and what this means for building owners and the market more broadly. Panelists will focus in particular on the future outlook for green banks, including a case study on lessons learned from the nation's first local green bank.

COMMERCIAL DATA CENTER HEALTHCARE
HIGHER EDUCATION HOSPITALITY INDUSTRIAL
K-12 SCHOOLS LABS LOCAL GOVERNMENT
MULTIFAMILY RETAIL, FOOD SERVICE & GROCERY
STATE GOVERNMENT RESIDENTIAL PUBLIC

PANELISTS

Bonnie Norman, Montgomery County Green Bank

Jeffrey Schub, Coalition for Green Capital

Moderator
Sean Williamson, DOE

Workshop: Innovative Internal & External Financing Methods for Retail, Food Service & Grocery Energy Projects

ROOM Columbia 3
LEVEL Terrace

Do you know your C-PACE from your ESA from your TIF? Retail, food service and grocery organizations that frequently self-fund energy projects may not be hip to the external financing opportunities available to them - or even innovative models for internal financing of projects. Broaden your horizons with this workshop developed by the Retail Industry Leaders Association (RILA) in collaboration with Deloitte and funded by DOE.

COMMERCIAL
RETAIL, FOOD SERVICE & GROCERY

PANELISTS

Audi Banny, Institute for Market Transformation

Erin Hiatt, RILA

Adam Sledd, Institute for Market Transformation

Moderator
Holly Carr, DOE

HIGH IMPACT SOLUTIONS: TECHNOLOGIES AND UPGRADES

CHP is Everywhere! Success Stories and Best Practices

Designed to Win: Tackling Energy Challenges Through Sport

Plug Into Savings: The Best Meter and Control Strategies for Office Plug Loads

To Consolidate or Embed: Improving the Infrastructure of Small Data Centers

ROOM Columbia 4
LEVEL Terrace

Implementing Combined Heat and Power (CHP) solutions can be daunting. During this session learn how to get started and hear first-hand how others have been able to incorporate these systems into their buildings. This session will explore real-world examples from the Better Buildings Combined Heat and Power Accelerator and will include case studies from partner organizations that have had successful experiences.

BETTER PLANTS COMMERCIAL
INDUSTRIAL MANUFACTURING

PANELISTS

Devon Rock, Aberdeen Proving Ground

Jeremy Scharfenberg, Columbia Association

Ollie Veasey, LA Sanitation

Moderator
Patricia Garland, DOE

ROOM Columbia 9
LEVEL Terrace

New sports venues are pushing the boundaries on sustainable design and incorporating energy-saving technologies. This session looks at innovative energy solutions like LEDs, Ethylene Tetrafluoroethylene (ETFE), and displacement ventilation while also exploring the use of renewable energy to produce power onsite. Come learn from leaders in the field that are changing the way these iconic venues are designed and operated.

COMMERCIAL PUBLIC

PANELISTS

Joe Abernathy, St. Louis Cardinals

Rhiannon Jacobsen, USGBC

Alastair MacGregor, AECOM

Moderator
Jason Hartke, DOE

ROOM Columbia 5
LEVEL Terrace

Join representatives from Seventhwave and University of Washington's Integrated Design Lab as they discuss outcomes from two plug load energy reduction field studies. Hear about the measured energy savings, key insights, and lessons learned from deploying plug reduction strategies in different types of office buildings including the zero-energy Bullitt Center in Seattle, Washington. Attendees will gain actionable energy-saving tips that can be applied to reduce your building plug loads.

COMMERCIAL

PANELISTS

Scott Hackel, Seventhwave

Christopher Meek, University of Washington

Moderator
Rois Langner, National Renewable Energy Laboratory

ROOM Columbia 2
LEVEL Terrace

This session will highlight Better Buildings partner successes in improving the infrastructure of small data centers embedded within larger multi-use buildings, or, when that is not possible, the process of decommissioning them and consolidating the IT resources to larger facilities.

DATA CENTER

PANELISTS

William Lakos, University of Michigan

Jay Taylor, Schneider Electric

Monica Witt, Los Alamos National Laboratory

Moderator
John Clinger, ICF

ORGANIZATIONAL STRATEGIES: PEOPLE, PLANNING, POLICY

Building the Next Generation of Industrial Energy Managers

High Performing Buildings for High Performing People

Shout it From the Mountaintops: Communicating Energy Efficiency Success Stories

The Year of the Lease: Working Together to Move the Needle in Tenant Energy Efficiency

Workshop - Part 2 of 2: An Electrifying Transition: Electrification Barriers and Opportunities

ROOM Columbia 7
LEVEL Terrace

As the current generation of industrial energy managers approaches retirement age, strategies need to be developed to ensure that the institutional and technical knowledge is transferred to new energy managers. This session will explore strategies to impart hard-won knowledge to the next generation of employees ensuring that lessons learned by existing energy managers are known by those coming up the ranks.

BETTER PLANTS INDUSTRIAL
MANUFACTURING

PANELISTS

Walt Brockway, Oak Ridge National Laboratory

Uli Schildt, Darigold

Sean West, United Technologies Corporation

Moderator
Eli Levine, DOE

ROOM Columbia 6
LEVEL Terrace

New studies link high performing buildings with high performing people. Join this session to unwrap findings related to human-centered building design and operation, how those findings translate to dollars and cents, and discuss what information is needed to improve building health, comfort, and productivity in your building.

COMMERCIAL HEALTHCARE
HIGHER EDUCATION
HOSPITALITY K-12 SCHOOLS
RETAIL, FOOD SERVICE & GROCERY
PUBLIC

PANELISTS

Joseph Allen, Harvard University

Hakon Mattson, Anthem, Inc.

Moderator
Jordan Hibbs, DOE

ROOM Columbia 10
LEVEL Terrace

Communications is a tool of the future and the present day. Take advantage of best practice techniques and tips for getting the word out on your energy achievements. Learn the difference between messaging what matters and messaging for impact; and engage in this creative session full of discussion and Q+A with leading communications professionals.

COMMERCIAL

PANELISTS

Anne Cosgrove, Facility Executive

Amy Poszywak, Smart Energy Decisions

Moderator
Bryan Cohen, C+C

ROOM Columbia 11
LEVEL Terrace

The Energy Efficiency Improvement Act of 2015 created new momentum for addressing energy efficiency in tenant spaces. Join this conversation to get an overview of efforts underway through EPA's new Tenant Star design and construction recognition, new enhancements to the Green Lease Leaders program, developments in low-cost metering for tenant spaces, and how you can get involved.

COMMERCIAL HEALTHCARE
LOCAL GOVERNMENT
RETAIL, FOOD SERVICE & GROCERY
STATE GOVERNMENT PUBLIC

PANELISTS

Stelios Koutroubinas, Meazon

Michael Zatz, U.S. Environmental Protection Agency

Moderator
Holly Carr, DOE

ROOM Columbia 12
LEVEL Terrace

A shift toward greater electrification is needed to effectively reduce energy waste and costs, increase energy independence, strengthen industry, and create jobs. This three-hour workshop explores the opportunities and barriers for state and local governments to electrify their transportation sectors, building technologies, and ports. Join us to discuss the latest trends, success stories, and innovative strategies in electrification.

LOCAL GOVERNMENT
STATE GOVERNMENT PUBLIC

PANELISTS

Richard Cameron, Port of Long Beach, CA

Cedric Daniels, Alabama Power Company

Andrea Pratt, Seattle, WA

Jennifer Wallace-Brodeur, Vermont Energy Investment Corporation

Moderator
Mark Smith, DOE

DATA DRIVEN RESULTS: AND GOAL GETTING

Data Nation!
How DOE Data Tools Can Lay the Foundation for Your Program

ROOM Holmead East
LEVEL Lobby

Data Nation! will share the stories and testimonies from leading users of DOE Data Tools ranging from the Building Energy Asset Score to the SEED Platform. What roles can these tools play at scale to support state and local government building performance programs? What are the emerging needs in the market that these tools are helping users meet? Join the discussion at this session.

LOCAL GOVERNMENT STATE GOVERNMENT PUBLIC

PANELISTS

Marc Costa, The Energy Coalition
Ross MacWhinney, New York City Mayor's Office
Greg Thomas, Performance Systems Development

Moderator
Harry Bergmann, DOE

Workshop - Part 1 of 2:
Utility Benchmarking in Multifamily Housing: Kilowatt Count Your Way to a Trimmer Bottom-Line

ROOM Jay
LEVEL Lobby

This three-hour workshop will help multifamily building owners better understand the how and why of utility benchmarking. Part 1 will lead owners new to benchmarking through choosing an approach to utility data collection and analysis, developing a benchmarking plan, and institutionalizing the practice in an organization. Part 2 will help owners understand how to use performance data to direct capital investments and investigate operational improvements.

MULTIFAMILY

PANELISTS

Terrance Brady, Tampa Housing Authority
Dan Teague, WegoWise, Inc.

Moderator
David Ruggiero, ICF

WATER

Just Add Water!
Quick Wins on Energy Efficiency in Wastewater Treatment Plants

ROOM Columbia 8
LEVEL Terrace

Significant energy savings are achievable in wastewater treatment plants through operational changes and other no- and low-cost measures. Hear from experts and plant managers that have successfully cut their energy bills through measures that require little or no upfront capital.

BETTER PLANTS INDUSTRIAL
LOCAL GOVERNMENT STATE GOVERNMENT PUBLIC

PANELISTS

Glenn Cunningham, Tennessee Tech IAC
Jim Newton, Kent County Levy Court

Moderator
John Smegal, DOE

FINANCING

Commercial PACE:
What Does It Mean for the Market?

ROOM Columbia 3
LEVEL Terrace

Commercial property-assessed clean energy (CPACE) financing is a hot topic, but it is often poorly understood. This session will dive into the state of the growing CPACE industry, with perspectives from both small and large financing companies. We'll discuss key pros and cons of CPACE and what it means for building owners and operators.

COMMERCIAL DATA CENTER
HEALTHCARE HIGHER EDUCATION
HOSPITALITY INDUSTRIAL
K-12 SCHOOLS LABS
LOCAL GOVERNMENT MULTIFAMILY
RETAIL, FOOD SERVICE & GROCERY
STATE GOVERNMENT PUBLIC

PANELISTS

Bracken Hendricks, Urban Ingenuity
Stacey Lawson, Ygrene Energy Fund

Moderator
Sean Williamson, DOE

Finance Products for Low and Middle Income Customers: What Works?

ROOM Northwest
LEVEL Lobby

Get up-to-date on energy efficiency finance products for low and middle income customers in the single- and multi-family residential market sectors. The author of a new report from the State and Local Energy Efficiency Action Network will provide an overview of the products out there and the opportunities for consumer protections and program expansion. Attendees will also hear firsthand about a rural coop on-bill program, how efficiency fits into Fannie Mae's mortgage financing, and lessons on efficiency financing for the solar industry from one of the country's biggest banks.

RESIDENTIAL

PANELISTS

Greg Leventis, Lawrence Berkeley National Laboratory
Bruce Schlein, Citi
Karyn Sper, Fannie Mae
Curtis Wynn, Roanoke Electric Cooperative

Moderator
Philip Henderson, Natural Resources Defense Council (NRDC)

Make Way for Savings:
Unlocking Barriers to Energy Savings Performance Contracting

ROOM Columbia 1
LEVEL Terrace

This session will showcase the findings and achievements of Better Buildings Energy Savings Performance Contracting (ESPC) Accelerator partners. Attendees will get an overview of a robust toolkit designed to provide all the resources and guidance needed to start an ESPC program. Resources include tools to support public agencies considering ESPC, implementing projects, building support in their communities, expanding ESPC to new markets, and evaluating ESPC results to tell their community's energy efficiency story. The three speakers will examine several barriers to implementing ESPCs and how they overcame them by developing and using several of the toolkit resources.

K-12 SCHOOLS LOCAL GOVERNMENT PUBLIC STATE GOVERNMENT

PANELISTS

David LeMieux, State of Montana
Karen Rantamaki, State of New Hampshire
Robert Thomas, Newark, NJ

Moderator
Alice Dasek, DOE

The Midas Touch:
Turning Unexpected Resources into Gold

ROOM Holmead West
LEVEL Lobby

This session showcases residential energy programs that have tapped into new and unexpected funding streams through innovative models and creative outreach. Learn from contracting companies and local governments that have been able to access funding and resources for energy efficiency investments. Attend this session to learn how you too can acquire "the Midas touch" and utilize funding to grow your energy efficiency program.

RESIDENTIAL

PANELISTS

Andy Frank, Sealed
Tim Miller, Enhabit
Tony Raeker, Fort Collins, CO

Moderator
Jonathan Cohen, DOE

HIGH IMPACT SOLUTIONS: TECHNOLOGIES AND UPGRADES

Bringing Efficiency to Research (BETR) Grants

Getting Smart About Energy Analytics

HVAC Systems Leading the Way: Major Savings Now and In the Future

Making Things Smarter: Smart Manufacturing

Shedding Light on LED Street Lights

ROOM Columbia 2
LEVEL Terrace

The competition for federal research dollars is stiff. One solution for maximizing tight research budgets and keeping unnecessary resource consumption down would be a federal funding system that promotes sharing equipment, efficient use of lab space, and energy/water-efficient lab equipment and processes. This session will discuss suggested changes, challenges faced, and collaborative opportunities for stakeholders applying for federal funding (including universities).

LABS

ROOM Columbia 9
LEVEL Terrace

Through the Smart Energy Analytics Campaign, sector organizations are encouraged to adopt Energy Management and Information Systems (EMIS). Participants will cover perspectives on the benefits of joining and how they have received technical assistance, and are on-track to earn national recognition. Campaign resources for participants will be discussed, including a new guide on Top Opportunities for Building Energy Savings Using EMIS.

COMMERCIAL HEALTHCARE
HIGHER EDUCATION
HOSPITALITY K-12 SCHOOLS
LOCAL GOVERNMENT
PUBLIC
RETAIL, FOOD SERVICE & GROCERY
STATE GOVERNMENT

PANELISTS

Kathy Ann Ramirez-Aguilar, University of Colorado Boulder
Daniel Robinson, DOE

Moderator
Phil Wirdzek, I2SL International Institute for Sustainable Laboratories

ROOM Columbia 5
LEVEL Terrace

Incredible energy savings and improved performance can be achieved through comprehensive retrofits, and an optimized engineering approach to redesigning and downsizing HVAC systems for better performance and higher return on investment. New technologies will enable further savings down the road. This session will provide examples of retrofits with over 40 percent energy savings for HVAC systems and emerging technologies on personal conditioning.

COMMERCIAL
LOCAL GOVERNMENT
PUBLIC
RETAIL, FOOD SERVICE & GROCERY
STATE GOVERNMENT

PANELISTS

Eric Friedman, Commonwealth of Massachusetts
Jennifer Gerbi, ARPA-E
Robert King, Target

Moderator
Michael Deru, National Renewable Energy Laboratory

ROOM Columbia 7
LEVEL Terrace

Smart manufacturing and large data sets offer significant potential for energy savings and reliable production by improving the decision-making ability of operators and plant managers. This session will showcase examples of smart manufacturing technologies and practices and demonstrate the importance of tracking performance by using critical data.

BETTER PLANTS INDUSTRIAL
MANUFACTURING

PANELISTS

George Andraos, Ford Motor Company
Sharon Nolen, Eastman Chemical Company
Ethan Rogers, ACEEE

Moderator
Eli Levine, DOE

ROOM Columbia 11
LEVEL Terrace

The Better Buildings Outdoor Lighting Accelerator was an opportunity for deep dives into the barriers slowing the deployment of LED street lights, a performance technology with evidence-based energy savings and other benefits for many cities. Partners will share advice for overcoming the challenges for successful LED street lighting conversion projects. Attendees will leave with actionable information and resources to plan their own projects.

COMMERCIAL
LOCAL GOVERNMENT
PUBLIC
STATE GOVERNMENT

PANELISTS

Daryl Braithwaite, Takoma Park, MD
Leslie Darling, Chicago Infrastructure Trust
Marty Sorrentino, St Petersburg, FL

Moderator
Crystal McDonald, DOE

ORGANIZATIONAL STRATEGIES: PEOPLE, PLANNING, POLICY

A Million Home Energy Upgrades Each Year by Empowering Consumers

All-In: States, Localities, Utilities, and Nonprofits Creating Solutions for Underserved Communities

Workshop - Part 1 of 2: Expect the Unexpected: Planning Energy-Resilient Communities

ROOM Columbia 12
LEVEL Terrace

Each year Americans invest in approximately 15 million home improvements related to energy efficiency. However, as consumers we are still confused about how to hire contractors and ensure we get good results. The U.S. Department of Energy (DOE) has developed a new tool, Home Improvement Advisor, that provides simple checklists for homeowners to attach to any contract documents negotiated with their preferred trade professionals. This session will outline DOE's plan to grow the use of best practices to among at least 7% of the energy efficiency related home improvement market, or 1 million homes.

RESIDENTIAL

MODERATOR

Sam Rashkin, DOE

ROOM Columbia 10
LEVEL Terrace

DOE is partnering with states, localities, utilities, housing agencies, and nonprofit organizations to support planning and implementation of clean energy programs in disadvantaged communities as part of its Clean Energy for Low Income Communities Accelerator. Session attendees will gain a better understanding of the diverse opportunities to ensure equitable and affordable access to energy efficiency and solar energy in American communities.

LOCAL GOVERNMENT MULTIFAMILY PUBLIC
RESIDENTIAL STATE GOVERNMENT

PANELISTS

Bryan Early, California Energy Commission
Keith Kueny, Community Action Partnership of Oregon
Neil Matouka, Local Government Commission
Arah Schuur, Commonwealth of Massachusetts
Brittany Sellers, Orlando, FL
Daniel White, District of Columbia

Moderator
Monica Neukomm, DOE

ROOM Columbia 8
LEVEL Terrace

The nation's energy sector is subject to an increasing number of threats from natural and human events. Greater resilience is required to confront these risks including a comprehensive plan and infrastructure with the ability to avoid disruptions, minimize impacts, and recover from and adapt to a changing environment. Join us in this three-hour workshop to learn about the technologies, planning, and partnership approaches governments are pursuing to overcome these challenges.

CEU LOCAL GOVERNMENT PUBLIC
STATE GOVERNMENT

PANELISTS

Tracy Babbidge, State of Connecticut
Grant Ervin, Pittsburgh, PA
Mark Feasel, Schneider Electric
Eliza Hotchkiss, National Renewable Energy Laboratory
Travis Sheehan, Boston, MA

Moderator
Adam Guzzo, DOE

DATA DRIVEN RESULTS: AND GOAL GETTING

Pioneering Strategies to Achieve Audacious Energy Goals - Part 1 of 2: Leading-Edge City Government Innovation for Energy Independence

ROOM Northwest
LEVEL Lobby

Leading-edge cities are rethinking how they plan, invest, and operate to meet audacious energy transformation goals. Meeting these aggressive targets requires holistic solutions across sectors. Part 1 of this two-part session showcases cities using out-of-the-box thinking to move toward long-term energy independence. Part 2 focuses on innovative tools and strategies real estate owners and cities can leverage for energy transformation in the residential, commercial, and transportation sectors.

COMMERCIAL LOCAL GOVERNMENT
PUBLIC RESIDENTIAL STATE GOVERNMENT

PANELISTS

Jessie Denver, San Francisco, CA
Molly Simpson, District of Columbia
Jenna Tatum, New York, NY

Moderator
Johanna Partin, Carbon Neutral Cities Alliance

WATER

Renewable Energy Fuels Clean Water: What's Not to Like?

ROOM Columbia 6
LEVEL Terrace

Water and wastewater treatment plants are increasingly turning to renewable sources of energy to power their operations as they seek to cut their carbon footprint and improve resiliency. Panelists will discuss their experiences implementing innovative projects including biogas recovery, solar photovoltaics, and low-head hydropower.

CEU INDUSTRIAL LOCAL GOVERNMENT
PUBLIC STATE GOVERNMENT

PANELISTS

Bruce Bartel, NEW Water
Jim Newton, Kent County Levy Court
Andy Terrey, City of Phoenix Water Services Department

Moderator
Bruce Lung, DOE

FINANCING

Navigating to Deal Close: Key Questions to Ask When Securing Efficiency Financing

ROOM Columbia 1
LEVEL Terrace

This session will address key questions to ask when looking for project financing, especially if you are a building owner, executive, or other decision-maker. We will cover how to select the right financing option, find and vet providers, capture incentives, and avoid common pitfalls. We'll also demo the Better Buildings Financing Navigator, a new DOE tool that can help you find financing and connect with providers.

COMMERCIAL DATA CENTER HEALTHCARE HIGHER EDUCATION
HOSPITALITY INDUSTRIAL K-12 SCHOOLS LABS LOCAL GOVERNMENT
MULTIFAMILY PUBLIC RETAIL, FOOD SERVICE & GROCERY
STATE GOVERNMENT

PANELISTS

Stephen Gossett, Flywheel
Susan Leeds, New York City Energy Efficiency Corporation

Moderator
Joe Indvik, JDM Associates

Workshop - Part 1 of 2: Residential PACE Best Practices: Designing and Implementing Effective Programs

ROOM Columbia 3
LEVEL Terrace

In this three-hour workshop, learn how to develop and launch a successful residential PACE financing program that incorporates DOE best practice guidelines. Topics include: assessing the market, approaches to developing PACE legislation and local ordinances, strategies for local government adoption and implementation, third-party PACE administrators, data collection and reporting, consumer protections and contractor management, and stakeholder engagement.

LOCAL GOVERNMENT PUBLIC RESIDENTIAL STATE GOVERNMENT

PANELISTS

Jeff Deason, Lawrence Berkeley National Laboratory
Sandy Fazeli, NASEO
David Gabrielson, PACE Nation
Michael Yaki, Renovate America

Moderator
Steve Dunn, DOE

HIGH IMPACT SOLUTIONS: TECHNOLOGIES AND UPGRADES

Achieving Data Center Cost Savings Through Renewable Energy

Building Science Basics 101: Sun, Wind, and Site

Hidden In Plain Sight: The Not-So-Secret Savings of the Building Envelope

Maintaining Your RTUs in Optimal Health with Automated Fault Detection and Diagnostics (AFDD)

The CHP Solution for Growth, Economics, and Business Continuity

ROOM Columbia 2
LEVEL Terrace

A growing number of companies are turning to clean and cost-effective renewable energy sources, like wind and solar, to power their operations. This session will highlight success stories from Better Buildings partners that have reduced operating costs in their data centers by taking advantage of on-site and off-site renewable energy opportunities.

CEU DATA CENTER

PANELISTS

Isaac Negusse, Iron Mountain Data Centers
Otto VanGeet, National Renewable Energy Laboratory

Moderator
Brad Gustafson, DOE

ROOM Jay
LEVEL Lobby

This training session offers attendees a basic and conceptual look at how buildings are designed in response to their micro and macroclimates. During the session, learn about passive and active design decisions and the impact they have on building energy and water consumption. Armed with this introductory information, we'll then discuss the retrofit options available for existing buildings.

MULTIFAMILY

PANELIST

Sam Rashkin, DOE
Meghan Walsh, USDA

ROOM Columbia 11
LEVEL Terrace

Building envelopes (roofs, walls, and windows) account for 5.81 quads of energy use each year. However, knowing what envelope energy-saving technologies are available while planning a new building or a retrofit can be challenging. Get the information you need by joining Better Buildings' newest Technology Solutions Team for a showcase of readily-available resources and deployment experiences on advancing envelope technologies.

COMMERCIAL

PANELISTS

Laverne Dagleish, Air Barrier Association of America
Linda Jeng, Dow Building Solutions

Moderator
Melissa Lapsa, Oak Ridge National Laboratory

ROOM Columbia 10
LEVEL Terrace

Rooftop air conditioning units can run for years on their own with no indicators of performance and with limited interactions except for the technicians performing routine maintenance. Automated fault detection and diagnostics (AFDD) can continuously monitor and provide real-time feedback on performance with intelligent messages on faults. This session will explain AFDD and show how it improves performance and saves energy and money.

COMMERCIAL
RETAIL, FOOD SERVICE & GROCERY

PANELISTS

Chitranjan Singh Rathod, Walmart
Todd Rossi, Field Diagnostics

Moderator
Michael Deru, National Renewable Energy Laboratory

ROOM Columbia 6
LEVEL Terrace

Combined Heat and Power (CHP) not only improves energy efficiency, but it enhances resiliency across facilities and communities. This session will discuss solutions that are being uncovered as the resiliency accelerator moves forward. Partners will showcase how CHP helps achieve resiliency in their facilities.

BETTER PLANTS
COMMERCIAL INDUSTRIAL
MANUFACTURING

PANELISTS

Denise Brinley, Pennsylvania Dept. of Community & Economic Development
Kenneth Duvall, Sterling Energy Group, LLC
James Freihaut, Pennsylvania State University
Sharon Nolen, Eastman Chemical Company

Moderator
Bruce Hedman, Entropy Research

ORGANIZATIONAL STRATEGIES: PEOPLE, PLANNING, POLICY

Balancing Energy Efficiency and Renewable Energy Policies

Building a Better Clean Energy Workforce

Fresh Eyes: Peer-Assessed Energy Efficiency

Implementing Energy Management Systems

Workshop - Part 2 of 2: Expect the Unexpected: Planning Energy-Resilient Communities

ROOM Columbia 12
LEVEL Terrace

Energy efficiency and renewable energy can work in tandem to optimize building investments and achieve organizational goals. Speakers in this panel, representing a diverse array of organizations working in residential, commercial, and industrial sectors, will explore how each organization has approached investments and progress toward energy reduction and clean energy. Join this discussion to navigate a path forward for your organization.

BETTER PLANTS
COMMERCIAL INDUSTRIAL
MANUFACTURING
RESIDENTIAL

PANELISTS

Mark Dhennin, Cummins, Inc.
Bakari Chris Kennedy, Suncoast Credit Union
Bruce Mast, Build It Green

Moderator
David Cohan, DOE

ROOM Columbia 9
LEVEL Terrace

Certification bodies, energy efficiency professionals, building owners, and operators, learn about the benefits of seeking DOE recognized certifications and employing certified employees. Hear an overview, update, and current focus of the Better Building Workforce Guidelines program. To highlight the progress to date, representatives from an accredited and recognized credentialing program and a credentialing program seeking accreditation and recognition will share their views on the value of the program.

COMMERCIAL PUBLIC

PANELISTS

Liz Fischer, Building Commissioning Certification Board
Matt Nelson, ECO Commissions

Moderator
Roger Grant, National Institute of Building Sciences

ROOM Columbia 7
LEVEL Terrace

In the past year a new training from DOE's Better Plants program has enabled groups of employees from different organizations to work together in each other's plants to uncover energy savings opportunities. In addition, the Better Buildings Challenge SWAP allows employees of different organizations to go through each others' respective facilities to find energy efficiency opportunities. Learn more about these opportunities and how you can participate.

BETTER PLANTS INDUSTRIAL
MANUFACTURING

PANELISTS

Kevin Bell, Toyota Motor Engineering & Manufacturing North America, Inc
Karen Flack, US Naval Academy
Brett Rasmussen, Nissan North America
Uli Schildt, Darigold

Moderator
Eli Levine, DOE

ROOM Columbia 4
LEVEL Terrace

Energy Management Systems (EnMS), such as those defined in the ISO 50001 standard, are an increasingly popular strategy for organizations looking to improve energy performance and move beyond pursuing ad-hoc energy projects. DOE has launched the Guide for Energy Management, which assists interested parties in creating an EnMS. Panelists will discuss the benefits, challenges, and lessons learned when implementing an EnMS at their organizations.

BETTER PLANTS
COMMERCIAL INDUSTRIAL
MANUFACTURING

PANELISTS

Greg Baker, Vermont Energy Investment Corporation
Steve Schultz, 3M
Wade Willatt, Nissan North America

Moderator
Jay Wrobel, DOE

ROOM Columbia 8
LEVEL Terrace

The nation's energy sector is subject to an increasing number of threats from natural and human events. Greater resiliency is required to confront these risks including a comprehensive plan and infrastructure with the ability to avoid disruptions, minimize impacts, and recover from and adapt to a changing environment. Join us in this three-hour workshop to learn about the technologies, planning, and partnership approaches governments are pursuing to overcome these challenges.

CEU LOCAL GOVERNMENT
PUBLIC STATE GOVERNMENT

PANELISTS

Tracy Babbidge, State of Connecticut
Jessie Denver, San Francisco, CA
Grant Ervin, Pittsburgh, PA
Mark Feasel, Schneider Electric
Eliza Hotchkiss, National Renewable Energy Laboratory
Travis Sheehan, Boston, MA

Moderator
Adam Guzzo, DOE

DATA DRIVEN RESULTS: AND GOAL GETTING

Pioneering Strategies to Achieve Audacious Energy Goals - Part 2 of 2: How Commercial and Residential Building Owners Contribute to Local Success

ROOM Northwest
LEVEL Lobby

Leading-edge cities are rethinking how they plan, invest, and operate to meet audacious energy transformation goals. Meeting these aggressive targets requires holistic solutions across sectors. Part 1 of this two-part session showcases cities using out-of-the-box thinking to move toward long-term energy independence. Part 2 focuses on innovative tools and strategies real estate owners and cities can leverage for energy transformation in the residential, commercial, and transportation sectors.

COMMERCIAL HEALTHCARE HIGHER EDUCATION HOSPITALITY
K-12 SCHOOLS LOCAL GOVERNMENT MULTIFAMILY PUBLIC
RETAIL, FOOD SERVICE & GROCERY RESIDENTIAL STATE GOVERNMENT

PANELISTS

Ryan Moya, University of Michigan
Sarah Olexsak, DOE
Eric Wilson, National Renewable Energy Laboratory

Moderators
Holly Carr, DOE
Madeline Salzman, DOE

WATER

Making the Business Case for Water Savings

ROOM Columbia 5
LEVEL Terrace

Organizations sometimes struggle to make the business case for water saving projects due to low water rates, low usage, or some combination of the two. Hear from experts who have successfully made saving water a business imperative by taking an expanded view of the value of water saving actions.

CEU BETTER PLANTS COMMERCIAL INDUSTRIAL MANUFACTURING

PANELIST

Vance Merolla, Colgate-Palmolive Company
Bob Valair, Staples

Moderator
Andre de Fontaine, DOE

FINANCING

Energy in Commercial Appraisals and Mortgages: Risk or Reward?

ROOM Columbia 1
LEVEL Terrace

The energy performance of buildings is not fully considered during commercial real estate transactions, a process that involves high stakes and numerous stakeholders. Energy is generally not a motivating factor for lenders or considered with nuance during valuation, with current mortgage and appraisal practices not fully accounting for the risks and opportunities associated with energy use of buildings. After a scoping study and stakeholder engagements with lenders and building owners, Lawrence Berkeley National Lab and UC Berkeley Haas School of Business identified several potential inventions to properly account for energy factors in the lending process. JDM Associates will share what's new with Energy Matters!, a training course for commercial appraisers, and efforts to engage the lending community on appraisals for high-performing buildings.

COMMERCIAL

PANELISTS

Nancy Wallace, University of California, Berkeley
Andrew White, JDM Associates

Moderator
Paul Mathew, Lawrence Berkeley National Laboratory

Free Money and Where to Find It: Today's Hottest Sources for Multifamily Retrofits

ROOM Holmead East
LEVEL Lobby

Get a rundown of ACEEE's nationwide study of utility provider incentives for the multifamily buildings sector, as well as a broad overview of other sources of funds for energy and water conservation. This session will cover the latest news regarding state energy programs, local green banks, weatherization funds, tax credits, and more.

MULTIFAMILY

PANELISTS

Stefen Samarripas, ACEEE
Dick Santangelo, Apollo Engineering
Rebecca Schaaf, Stewards of Affordable Housing for the Future

Moderator
Neil Paradise, HUD

Workshop - Part 2 of 2: Residential PACE Best Practices: Designing and Implementing Effective Programs

ROOM Columbia 3
LEVEL Terrace

In this three-hour workshop, learn how to develop and launch a successful residential PACE financing program that incorporates DOE best practice guidelines. Topics include: assessing the market, approaches to developing PACE legislation and local ordinances, strategies for local government adoption and implementation, third-party PACE administrators, data collection and reporting, consumer protections and contractor management, and stakeholder engagement.

LOCAL GOVERNMENT PUBLIC RESIDENTIAL
STATE GOVERNMENT

PANELISTS

Jeff Deason, Lawrence Berkeley National Laboratory
Sandy Fazeli, NASEO
David Gabrielson, PACE Nation
Michael Yaki, Renovate America

Moderator
Steve Dunn, DOE

HIGH IMPACT SOLUTIONS: TECHNOLOGIES AND UPGRADES

All Systems Go: Innovative Projects in Traditional Industrial Systems

Alternative Cooling Solutions in High Tech Buildings

Saving the Sun for Later: Opportunities and Barriers for Solar PV + Energy Storage

The Next Frontier of Plug Loads: Wireless Meter & Control Technologies

ROOM Columbia 9
LEVEL Terrace

Existing industrial systems (compressed air, pumping, steam, process heating and fans) offer significant opportunities for energy savings and improved production reliability. This session will showcase innovative approaches to energy efficiency in such systems.

ROOM Morgan
LEVEL Lobby

This session will focus on cutting edge HVAC solutions Better Buildings partners have implemented in data centers that may be applicable in other building types as well. Examples will include free air cooling, indirect water economizers and waste heat capture and reuse.

ROOM Columbia 10
LEVEL Terrace

Solar PV and energy storage costs have been falling and combining the two has become cost effective in more and more locations across the U.S. Participants will discuss use cases for solar PV plus energy storage, drivers, barriers, best practices and case studies. A leading system developer will present design consideration and best practices, and a Better Buildings Alliance member will present their experiences to date.

ROOM Columbia 11
LEVEL Terrace

Wireless meter and control technologies are on the rise, helping to improve building system performance and cut energy costs. There is a huge opportunity for wireless technologies to manage plug load energy consumption, with many new control companies on the horizon. This session will present two case studies showcasing the implementation, outcomes, and lessons learned of these technologies on plug loads in retail and higher education buildings.

BETTER PLANTS INDUSTRIAL MANUFACTURING

DATA CENTER

CEU COMMERCIAL

COMMERCIAL HIGHER EDUCATION RETAIL, FOOD SERVICE & GROCERY

PANELISTS

- Fred Everett, C. F. Martin & Co., Inc. (Martin Guitar)
- Philip Kauneckas, Intertape Polymer Group
- Greg Paul, C. F. Martin & Co., Inc. (Martin Guitar)
- Sean West, United Technologies Corporation

PANELISTS

- Dale Sartor, Lawrence Berkeley National Laboratory
- John Sasser, Sabey Data Center Properties

Moderator
Otto VanGeet, National Renewable Energy Laboratory

PANELISTS

- Karen Butterfield, Stem
- Jessie Denver, San Francisco, CA
- Ben Myers, Boston Properties

Moderator
Jay Paidipati, Navigant

PANELIST

- Moira Hafer, Stanford University
- Rois Langner, National Renewable Energy Laboratory

Moderator
Marta Schantz, Waypoint Building Group

ORGANIZATIONAL STRATEGIES: PEOPLE, PLANNING, POLICY

A Common Purpose: Aligning Community Stakeholders to Address Gaps in Underserved Markets

Energy Efficient-SHE: Women's Perspectives on Sustainability

Green Building Certifications 101: ENERGY STAR, LEED, and Living Buildings

ROOM Holmead West
LEVEL Lobby

There are many barriers to providing access to energy efficiency and renewable energy programs for homes and businesses in underserved markets. State and local agencies have demonstrated clean energy programs can be affordable and accessible to all Americans by engaging a variety of stakeholders in the public and private sectors. This session will provide a framework to align state, local, and utility stakeholders to better support underserved households and communities.

ROOM Columbia 4
LEVEL Terrace

All attendees welcome! Addressing gender diversity in the workplace is a priority for those in the technical and business aspects of energy efficiency and sustainability. This session will feature a mix of young and seasoned professionals from the Better Buildings network sharing their experiences and offering actionable strategies to ensure that the clean energy economy grows equitably and inclusively for all.

ROOM Holmead East
LEVEL Lobby

This core training session provides attendees an overview of the breadth of considerations that are part of green building, as well as an introduction to three of the most important green building certifications available: ENERGY STAR® as a stepping stone, Leadership in Energy and Environmental Design (LEED) as the most common certification, and Living Buildings as the highest available standard.

LOCAL GOVERNMENT MULTIFAMILY PUBLIC RESIDENTIAL STATE GOVERNMENT

COMMERCIAL

COMMERCIAL K-12 SCHOOLS LOCAL GOVERNMENT MULTIFAMILY PUBLIC STATE GOVERNMENT

PANELISTS

- Amy Jewel, Institute for Market Transformation
- Emily Schapira, Philadelphia Energy Authority
- Michael Walton, green|spaces

Moderator
Michael DiRamio, DOE

PANELISTS

- Lindsay Baker, Comfy
- Whitney Tome, Green 2.0
- Brenna Walraven, Corporate Sustainability Strategies

Moderator
Maria T. Vargas, DOE

PANELISTS

- Asa Foss, USGBC
- Rebecca Hudson, U.S. Environmental Protection Agency
- Robert Phinney, Page

Moderator
Neil Paradise, HUD

DATA DRIVEN RESULTS AND GOAL GETTING

This is Your Program,
This is Your Program on Data

ROOM Northwest
LEVEL Lobby

From smart phones to smart meters to smart devices, our lives are becoming more connected by streams of data. But what can this data do for you? Is it a treasure trove or a money pit? Come hear real-world examples of how data analytics are being used to inform better program designs, provide valuable insights into improving program operations, and measure energy savings.

COMMERCIAL RESIDENTIAL

PANELISTS

Tim Guiterman, Energy Savvy
Jeff Perkins, ERS

Moderator
Mike Li, DOE

WATER

Workshop - Part 1 of 2:
Leveraging Partnerships to Accelerate
Energy Efficiency Improvement:
Wastewater Treatment

ROOM Columbia 12
LEVEL Terrace

Partnerships between utilities and state and local governments can yield more efficient planning and coordination on best practices for wastewater treatment, along with energy savings and environmental, economic, and social benefits. Additionally, data tracking and energy planning tools can be used to better inform both facilities and partnering governments of assets that require upgrades, anomalies in energy data, and cost-benefit analyses for projected retrofits. Join us for a three-hour wastewater workshop on how to leverage partnerships and technology to accelerate energy efficiency at your facilities.

INDUSTRIAL LOCAL GOVERNMENT PUBLIC STATE GOVERNMENT

PANELISTS

Jose Cueto, Miami-Dade County, FL
Megan Levy, State of Wisconsin
Grace Richardson, Alexandria Renew Enterprises
Adam Zoet, State of Minnesota

Moderator
Charles Satterfield, DOE

FINANCING

Let's Make a Deal!
Efficiency from the Investor's Perspective

ROOM Piscataway
LEVEL Lobby

Spoiler alert: there's no shortage of capital for the right deal. So what does a good deal look like to investors and lenders? This panel will cover key requirements for successful energy efficiency borrowing from the perspective of private banks and mission investors. It will also explore major efforts by banks and other industry stakeholders to standardize energy efficiency projects into an asset class and drive lower-cost capital to the space.

COMMERCIAL DATA CENTER HEALTHCARE HIGHER EDUCATION
HOSPITALITY INDUSTRIAL K-12 SCHOOLS LABS LOCAL GOVERNMENT
MULTIFAMILY PUBLIC RETAIL, FOOD SERVICE & GROCERY
STATE GOVERNMENT

PANELISTS

Matt Golden, Investor Confidence Project
Bruce Schlein, Citi

Moderator
Johanna Zetterberg, DOE

Workshop - Part 1 of 2:
Energy Efficiency Finance:
Understanding the Building Blocks to Success

ROOM Columbia 3
LEVEL Terrace

This workshop is an opportunity for state and local governments who are preparing to implement an energy efficiency finance program, are interested in learning more about how financing programs work, or have a financing program in their portfolio that is not meeting its potential. In this three-hour workshop, participants will walk through the decision-making process and steps to implementing a finance program with financing experts.

LOCAL GOVERNMENT PUBLIC STATE GOVERNMENT

PANELISTS

Matthew Brown, Harcourt Brown & Carey
Chris Kramer, Energy Futures Group

Moderator
Greg Leventis, Lawrence Berkeley National Laboratory

HIGH IMPACT SOLUTIONS: TECHNOLOGIES AND UPGRADES

How Hot Can You Go?
Raising Operating Temperatures in Data Centers

Reimagining Cities!
Achieving Efficient, Resilient, and Sustainable Communities Through Zero Energy Buildings

SNAPchat:
On the Effects of Refrigerant Phaseouts

The Interior Lighting Campaign: Successful Strategies + New Opportunities

ROOM Holmead West
LEVEL Lobby

This session will showcase Better Buildings partners who are pushing the boundaries of environmental conditioning in data centers. Examples will include raised ambient temperature and humidity set points, as well as increases to chilled water supply, all of which result in significant low- or no-cost energy savings.

ROOM Columbia 9
LEVEL Terrace

Exemplary Zero Energy Buildings (ZEBs) are setting the standard for more sustainable communities. Over the last year, ZEB projects grew by 74% and cover every climate zone in the U.S. This session will cover the planning, innovative technologies, and processes that make Zero Energy Buildings a reality while highlighting ZEB projects in Denver and Washington, D.C.

ROOM Columbia 4
LEVEL Terrace

Session attendees will hear from end users of commercial refrigeration equipment on how they've adapted to new refrigerant rules, which refrigerants and technologies have been most effective, and how energy use may have changed.

ROOM Columbia 10
LEVEL Terrace

By adopting more efficient troffer lighting systems, such as those used by the 2016 Better Buildings Alliance Interior Lighting Campaign (ILC) recognized partners, building owners can save 40% or more on energy use and up to 80% when using controls while maintaining or improving lighting quality. Session participants will learn about high efficiency troffer lighting and control options and strategies. ILC partners GSA and Target will share their stories and future plans. All participants are encouraged to join the discussion.

COMMERCIAL
LOCAL GOVERNMENT PUBLIC
RETAIL, FOOD SERVICE & GROCERY
STATE GOVERNMENT

DATA CENTER

CEU LOCAL GOVERNMENT PUBLIC
STATE GOVERNMENT

COMMERCIAL
RETAIL, FOOD SERVICE & GROCERY

PANELISTS

Dave Breland, Intuit
John Dumler, Digital Realty Trust, Inc.

PANELISTS

Barbara Frommell, Denver, CO
Holly Lennihan, Hickok Cole Architects
Kirk Myers, REI

PANELISTS

Paul Anderson, Target
Patrick Leonard, Starbucks Coffee Company

PANELISTS

Kevin M. Powell, General Services Administration
Doyle Trankel, Target

Moderator
Dale Sartor, Lawrence Berkeley National Laboratory

Moderator
Solome Girma, DOE

Moderator
Justin Elszasz, Navigant

Moderator
Michael Myer, Pacific Northwest National Laboratory

ORGANIZATIONAL STRATEGIES: PEOPLE, PLANNING, POLICY

In Concert:
Orchestrating the Energy Efficiency Message

From the Manufacturing Floor to the Corner Office:
How to Communicate with Management and Plant Personnel

Keeping the Lights On:
Stories from Housing Providers on Disaster Preparedness and Recovery

ROOM Morgan
LEVEL Lobby

Because home efficiency offers a range of benefits that could capture Americans' attention, there are opportunities for programs to forge coalitions to increase the efficacy and further the reach of campaigns. Consistent messaging, an outcome of successful partnerships across public, private, and non-profit players also goes a long way to amplify our call for action. Come learn about how programs have created power in numbers to send the public a strong message on home energy efficiency.

ROOM Columbia 11
LEVEL Terrace

There is often a tension in manufacturing between corporate personnel and plant-level employees. Understanding how to effectively present energy efficiency ideas from corporate to the plants and from plants to corporate is often critical for achieving authorization to proceed with large-scale energy efficiency projects.

ROOM Holmead East
LEVEL Lobby

New responsibilities are being placed on housing providers -- in particular, the need to proactively protect tenants and preserve assets in the face of unprecedented risks presented by extreme weather events. In the 21st Century, a "Better Building" is a building adapted and prepared for unexpected storms, droughts, and other meteorological anomalies. In this session, hear from housing providers experienced in disaster recovery and readiness planning.

MULTIFAMILY RESIDENTIAL

BETTER PLANTS INDUSTRIAL
MANUFACTURING

MULTIFAMILY

PANELISTS

Lauren Brois, Energize NY
Douglas Miller, Rocky Mountain Institute
Derek Mills, Entergy New Orleans

PANELISTS

Kevin Kohl, Legrand
David Reid, Celanese International Corporations
Ryan Spies, Saint-Gobain Corporation

PANELISTS

Judsen Bruzgul, ICF
Laurie Schoeman, Enterprise Community Partners
Joy Sinderbrand, New York City Housing Authority

Moderator
Madeline Salzman, DOE

Moderator
Bruce Lung, DOE

Moderator
Kevin Bush, HUD

DATA DRIVEN RESULTS AND GOAL GETTING

Viral Energy Efficiency: Setting Energy Efficiency Goals with Franchisees, Suppliers, and Tenants

ROOM Piscataway
LEVEL Lobby

You are walking the talk making progress toward your Better Buildings Challenge energy reduction goal. Now it's time to encourage your suppliers and franchisees to do the same. Learn how Better Buildings Challenge partners Wendy's and Walmart are increasing their energy reduction impacts exponentially by helping others to follow their lead.

COMMERCIAL MULTIFAMILY
RETAIL, FOOD SERVICE & GROCERY

PANELISTS

- James P. McClendon, Walmart
- Tabetha McCartney, Jewish Community Housing for the Elderly
- Scott Moline, The Wendy's Company

Moderator
Holly Carr, DOE

WATER

Workshop - Part 2 of 2: Leveraging Partnerships to Accelerate Energy Efficiency Improvement: Wastewater Treatment

ROOM Columbia 12
LEVEL Terrace

Partnerships between utilities and state and local governments can yield more efficient planning and coordination on best practices for wastewater treatment, along with energy savings and environmental, economic, and social benefits. Additionally, data tracking and energy planning tools can be used to better inform both facilities and partnering governments of assets that require upgrades, anomalies in energy data, and cost-benefit analyses for projected retrofits. Join us for a three-hour wastewater workshop on how to leverage partnerships and technology to accelerate energy efficiency at your facilities.

INDUSTRIAL LOCAL GOVERNMENT PUBLIC
STATE GOVERNMENT

PANELISTS

- Jose Cueto, Miami-Dade County, FL
- Megan Levy, State of Wisconsin
- Grace Richardson, Alexandria Renew Enterprises
- Adam Zoet, State of Minnesota

Moderator
Charles Satterfield, DOE

FINANCING

Financial Ally Roundtable

ROOM Oak Lawn
LEVEL Lobby

This roundtable is a chance for current and prospective Better Buildings Challenge Financial Allies to discuss key trends, challenges, and opportunities while identifying new ways we can work together to grow the energy efficiency financing market.

MODERATOR

Joe Indvik, JDM Associates

Workshop - Part 2 of 2: Energy Efficiency Finance: Understanding the Building Blocks to Success

ROOM Columbia 3
LEVEL Terrace

This workshop is an opportunity for state and local governments who are preparing to implement an energy efficiency finance program, are interested in learning more about how financing programs work, or have a financing program in their portfolio that is not meeting its potential. In this three-hour workshop, participants will walk through the decision-making process and steps to implementing a finance program with financing experts.

LOCAL GOVERNMENT PUBLIC
STATE GOVERNMENT

PANELISTS

- Matthew Brown, Harcourt Brown & Carey
- Chris Kramer, Energy Futures Group

Moderator
Greg Leventis, Lawrence Berkeley National Laboratory

SPECIAL EVENT

RE 100 Networking Lunch and Better Buildings Alliance Renewables Team Overview

ROOM Piscataway
LEVEL Lobby

RE 100 is a collaborative, global initiative of businesses committed to 100% renewable electricity. Join for a discussion of RE 100 member successes, best practices for integrating renewable energy and energy efficiency, and DOE resources available to support member goals. Current RE 100 member companies and interested organizations are welcome to attend.

MODERATOR

Jay Paidipati, Navigant

HIGH IMPACT SOLUTIONS: TECHNOLOGIES AND UPGRADES

Connected Homes of Today & Beyond

If You Develop It...Will We Buy It? Better Buildings Technology Shark Tank

Stranger Things: Building Materials of the Future

Sun-Sourced, Crowd-Sourced: Community Solar Solutions for Multifamily Housing

ROOM Northwest
LEVEL Lobby

The internet connected thermostat (CT) market has evolved rapidly in the last five years. This fast-growing market segment promises space conditioning energy savings of up to 15% for homeowners and renters. Connected home devices offer a potential opportunity to achieve savings through sensors and controls, help consumers better understand their home's energy performance, guide future home upgrades, and verify energy and cost savings. This session will explore all of these opportunities presented by connected home devices and more.

ROOM Columbia 9
LEVEL Terrace

Building technologies are advancing with increased sophistication and opportunities for energy savings. With all the options available, the market can be confusing for a customer. This roundtable will offer presentations from researchers on the latest building energy technologies, followed by a facilitated discussion exploring what R&D challenges should be addressed to develop products that are most needed by building owners and operators.

ROOM Columbia 10
LEVEL Terrace

Cutting-edge research in Building Envelope Systems continues to yield promising energy saving technologies for building owners and managers. Join this investigative panel as they uncover the truth about emerging technologies like dynamic windows, liquid flashing and primer-less air sealants, and Modified Atmospheric Insulation (MAI) panels. Join the Better Buildings Alliance Envelope Technology Solutions Team and explore the future of these technologies and learn about upcoming demonstration opportunities.

ROOM Holmead East
LEVEL Lobby

Community solar is all the rage! Get the latest on how to launch or participate in community-scale solar projects in your hometown. This session's speakers will provide you with the latest policy and implementation guidance related to installing community solar as well as real world examples of how to obtain financing for community solar projects, barriers to installing community solar, and lessons learned through project implementation.

RESIDENTIAL

COMMERCIAL

COMMERCIAL

MULTIFAMILY

PANELISTS

Emily Kemper, CLEAResult
Kurt Roth, Fraunhofer USA
Nora Wang, Pacific Northwest National Laboratory

PANELISTS

Scott Fackler, Xergy
Chris Gladden, Glint Photonics
Ralph Muehleisen, Argonne National Laboratory

PANELISTS

Thomas Culp, Birch Point Consulting LLC
Achilles Karagiozis, Owens Corning

PANELISTS

Paul Reeves, Upepo Energy Group
Melanie Santiago-Mosier, Vote Solar
Ellen Sargent, Chicago Housing Authority

Moderator
Dale Hoffmeyer, DOE

Moderator
Marina Sofos, DOE

Moderator
Melissa Lapsa, Oak Ridge National Laboratory

Moderator
Crystal Bergemann, HUD

ORGANIZATIONAL STRATEGIES: PEOPLE, PLANNING, POLICY

EE + RE = ZE: Zero Energy Buildings for Schools

The Power of Partnerships to Accelerate Clean Energy Impacts

ROOM Holmead West
LEVEL Lobby

Schools districts face challenges with maintenance backlogs, modernization efforts, and construction limitations, on top of growth in student population and changes in health and environment requirements. Zero energy buildings are a way to implement innovative and creative strategies to meet these challenges. This session will cover funding options, design and road mapping, and communication strategies implemented by Better Buildings partner school districts.

ROOM Morgan
LEVEL Lobby

Together we can do so much. Across the country, state energy offices are teaming up with other state agencies to reap clean energy benefits. In this interactive session, you'll hear from experts how you can position your organization for success through partnerships with air or pollution control agencies, and have a chance to dig into the newly published NASEO Energy Efficiency Pathway Templates for States. Experts will facilitate small group discussions around how to use these templates to successfully collaborate with other state agencies.

K-12 SCHOOLS PUBLIC

COMMERCIAL

PANELISTS

Christos Chrysiliou, Los Angeles Unified School District, CA
Joseph da Silva, State of Rhode Island
Erin Russo, Arlington Public Schools

PANELISTS

Danielle Byrnett, DOE
Paul Miller, State of Louisiana
Rodney Sobin, NASEO

Moderator
Crystal McDonald, DOE

Moderator
Amy Kidd, DOE

DATA DRIVEN RESULTS AND GOAL GETTING

Put a Meter On It!
Submetering Energy and Water Use

ROOM Columbia 11
LEVEL Terrace

This session will cover the why and how of submetering energy and water in buildings, data centers, and other facilities. This is a redux of the wildly popular November installment of the Better Buildings Webinar Series on the same topic. If you missed out then, make sure to join us now!

COMMERCIAL DATA CENTER INDUSTRIAL

PANELISTS

Sam Dib, Aquicore
Jon "JP" Flaherty, Tishman Speyer
Dale Sartor, Lawrence Berkeley National Laboratory

Moderator
Bruce Lung, DOE

WATER

Multifamily Housing Water Woes:
Wacky Tales of Waste and What to Do

ROOM Columbia 12
LEVEL Terrace

Got tenants? Got water waste problems? Hear from housing providers whose entrepreneurial tenants put "free" water to work in every way, from carwashes to white-noise generators. Learn how they identified the problem and how they're fixing it.

MULTIFAMILY

PANELISTS

Russ Horner, Water Management Inc.
Tabetha McCartney, Jewish Community Housing for the Elderly
Keith Rassin, eConserve LLC

Moderator
Michael Freedberg, HUD

FINANCING

Getting to "Yes" with
ESAs and Efficiency-as-a-Service

ROOM Columbia 4
LEVEL Terrace

The decision paralysis between self- vs. third-party financing for energy efficiency can leave potential energy and cost savings on the table. Recently, the concept of "efficiency-as-a-service" has emerged as a solution to this problem, allowing projects to move forward quickly. More customers are finding benefits in consuming energy efficiency not as a financed product, but as a service wherein a third party provides energy savings for a fee. This session will explore industry trends and discuss existing and emerging "as-a-service" models.

COMMERCIAL DATA CENTER HEALTHCARE HIGHER EDUCATION
HOSPITALITY INDUSTRIAL K-12 SCHOOLS LABS LOCAL GOVERNMENT
MULTIFAMILY PUBLIC RETAIL, FOOD SERVICE & GROCERY
STATE GOVERNMENT

PANELISTS

Bob Hinkle, Metrus Energy
Pier LaFarge, SparkFund
Bruce Schlein, Citi

Moderator
Joe Indvik, JDM Associates

You Can Do That?
Pioneers in Using State Clean Water
Revolving Funds for Energy Efficiency

ROOM Columbia 3
LEVEL Terrace

This session will explore how the New York and Pennsylvania investment and guarantee authorities use (EPA) State Clean Water Revolving Funds for energy efficiency retrofits and how organizations might make use of those funds and how other states may use water efficiency funds similarly.

CEU LOCAL GOVERNMENT PUBLIC STATE GOVERNMENT

PANELISTS

Jim Gebhardt, U.S. Environmental Protection Agency
Jim Levine, New York Power Authority
Paul Marchetti, Pennvest

Moderator
Johanna Zetterberg, DOE

HIGH IMPACT SOLUTIONS: TECHNOLOGIES AND UPGRADES

Data Center Partner Roundtable

ROOM Piscataway
LEVEL Lobby

This session will follow on last year's data center partner roundtable, highlighting successes of the partners and the program, as well as talking through remaining hurdles to successfully achieving energy savings goals.

DATA CENTER

MODERATOR

John Clinger, ICF

Retrofit Roulette: Case Studies in Residential Rehab

ROOM Columbia 11
LEVEL Terrace

Each year, as they rehabilitate their aging properties, the Better Buildings Challenge Multifamily partners take advantage of innovations in energy efficiency technology and green retrofits. Hear from Better Buildings Challenge Multifamily partners across the country about what's worked and what hasn't in residential rehab this year. Session speakers will share case studies about their properties that have undergone green retrofits during the past year and will discuss lessons learned.

MULTIFAMILY

PANELISTS

Beth Keel, San Antonio Housing Authority
Elizabeth Merzigian, Peabody Properties, Inc.
Rosemary Olsen, Village of Hempstead Housing Authority

Moderator
Toni Gallo, ICF

Technology Watchlist: Building Efficiency Strategies for Now and the Next Generations

ROOM Columbia 9
LEVEL Terrace

If energy is the name, then innovation is the game! Expert building technologists will discuss what they are excited about now and what fledgling ideas are exciting for generations to come. This session will highlight information that can help you decide for yourself which building strategies can help you meet your goals now and well into the future. DOE or Star Trek? You decide.

COMMERCIAL PUBLIC

PANELISTS

David Cohan, DOE
Bruce Rauhe, The Walt Disney Co.
Tim Tetreault, Department of Defense

Moderator
Mary Hubbard, DOE

ORGANIZATIONAL STRATEGIES: PEOPLE, PLANNING, POLICY

Labels, Certifications, and Scores, Oh My! Following the Road to Green Real Estate

ROOM Holmead West
LEVEL Lobby

The residential real estate marketplace is a confusing place filled with all types of home energy information. Energy professionals, appraisers, and members of the real estate community have given enormous effort to better ensure everyone is speaking the same language. Learn about how the Better Buildings Home Energy Information Accelerator has expanded access to verified energy information through standardized data procedures and educational materials to help you pave your own path to green real estate.

RESIDENTIAL

PANELISTS

Sandy Adomatis, Appraisal Institute
Jeremy Crawford, Real Estate Standards Organization
Deborah Philbrick, Elevate Energy

Moderator
Madeline Salzman, DOE

Public Sector Building Energy Efficiency: Maybe There is a Silver Bullet

ROOM Holmead East
LEVEL Lobby

This session will bring academic knowledge and field experience to the latest energy efficiency efforts for public and commercial buildings including topics like bringing whole building energy analysis over the horizon, using energy data to inform energy-saving retrofits or providing a low-to-no cost pathway to savings. Panelists will discuss how state and local governments can collect, evaluate and display data on energy use that informs cost savings for buildings. Following each presentation session participants will explore the potential of a data-driven analysis, its shortcomings and barriers to implementation at a greater scale.

LOCAL GOVERNMENT PUBLIC STATE GOVERNMENT

PANELISTS

Harry Bergmann, DOE
Kyle Bradbury, Duke University
Dan Seligman, CERES

Moderator
Greg Dierkers, DOE

DATA DRIVEN RESULTS AND GOAL GETTING

Building Energy Efficiency Policy Evolution: What's Next

ROOM Columbia 12
LEVEL Terrace

State and local government policies on building energy efficiency are rapidly evolving. More than 20 jurisdictions now have energy benchmarking and transparency programs, while others have expanded policies to include energy tune-ups, energy audits, and other elements. This session will explore the next evolution of building energy efficiency policies and programs, including how future approaches may build on the policies in place today.

LOCAL GOVERNMENT PUBLIC
STATE GOVERNMENT

PANELISTS

- Lane Burt, Ember Strategies
- Julie Hughes, Institute for Market Transformation
- Laurie Kerr, Urban Green Council

Moderator
Andrew Burr, DOE

WATER

A Slippery Issue: Getting Your Arms Around Water Data

ROOM Columbia 3
LEVEL Terrace

The ability to meter, track, and analyze water data continues to be a major barrier to advancing water efficiency in buildings and plants. Understanding your organization's water consumption is critical to making the necessary action plan to achieve water efficiency and resiliency. Hear from the Environmental Protection Agency (EPA) and industry experts who have insights on how organizations can master the strategy and planning aspects of water management.

COMMERCIAL INDUSTRIAL

PANELISTS

- Juliette Apicella, Gables Residential
- Daniel Hartsig, Transwestern
- Jonah Schein, U.S. Environmental Protection Agency

Moderator
Cindy Zhu, DOE

FINANCING

Deep Impact: Non-traditional Approaches to Financing Efficiency

ROOM Columbia 4
LEVEL Terrace

Energy efficiency projects in small, rural, and low-income communities have often struggled to access to low-cost capital, despite representing a significant economic opportunity. This session will cover new financing approaches designed to serve these communities. We'll discuss Community Reinvestment Act lending as well as mission-driven private sector programs that use a variety of financing mechanisms to unlock access to capital.

COMMERCIAL HEALTHCARE K-12 SCHOOLS
LOCAL GOVERNMENT MULTIFAMILY PUBLIC
STATE GOVERNMENT

PANELISTS

- Ravi Malhotra, Triple Bottom Line Foundation
- Travis Yelverton, Southeast Energy Efficiency Alliance

Moderator
Joe Indvik, JDM Associates

