2018 Energy Exchange | Better Buildings Summit

**Event Snap Shot**

- **208** EEx & BBS Sessions
- **120** Technical EEx Sessions
- **556** Subject Expert Speakers
- **97** Sessions offering CEU’s
- **44** GSA FPBTA aligned sessions
- **75** NDAA supported sessions

**3.5 Days**
*(Plus Pre & Post Workshops)*

- **6 Training Themes & 24 Tracks**
- **3,000 Attendees expected**

**High Quality Energy Exchange Training Development**

Energy Exchange’s high quality technical content is developed by an all volunteer multi sector technical planning team.

- **12** # of Department of Defense Key Personnel
- **15** # of Leadership Personnel from Federal Civilian Agencies
- **23** # of Private Sector Industry / ESCO SME’s
Event Agenda

Monday, August 20, 2018
Pre-Conference
8:00 AM – 11:00 AM  FEMP Workshops
11:00 AM – 2:00 PM  Federal Meetings
2:00 PM – 7:00 PM  Trade Show

Tuesday, August 21, 2018
Sessions & Trade Show
8:30 AM – 10:00 AM  ENERGY EXCHANGE OPENING PLENARY
10:00 AM – 12:00 PM  Energy Exchange Sessions 10:30 AM - 12:00 PM
12:00 PM – 2:00 PM  LUNCH: 12:00 PM – 2:00 PM
2:00 PM – 5:30 PM  Energy Exchange Sessions
Better Buildings Workshops 2:00 - 3:30 PM
Showcase Building Tours
Ask-An-Expert Lounge

Wednesday, August 22, 2018
Sessions & Trade Show
8:30 AM – 12:00 PM  Energy Exchange Sessions
Better Buildings Sessions
Ask-An-Expert Lounge
Showcase Building Tours
Buildings to Grid Roundtable 10:30 AM - 12:00 PM

Thursday, August 23, 2018
Sessions & Trade Show
8:30 AM – 12:00 PM  Energy Exchange Sessions
Better Buildings Sessions
Ask-An-Expert Lounge
Trade Show Begins at 9:00 AM
12:00 PM – 2:00 PM  LUNCH: 12:00 PM – 2:00 PM
2:00 PM – 5:30 PM  Better Buildings Sessions
Ask-An-Expert Lounge
Better Buildings Sector Networking Events

Friday, August 24, 2018
Post-Conference
8:00 AM – 6:00 PM  Federal Meetings
Better Buildings Workshops 8:30 AM - 1:00 PM

JOIN AND FOLLOW THE DISCUSSION
#EnergyExchange2018
#BBSummit2018
Event Agenda

**Opening Plenary**
**TUESDAY: 9:00 - 10:30 AM**
Room: Exhibit Hall A

- **Leslie Nicholls**
  Acting Director of Federal Energy Management Program, DOE

- **Hon. Lucian Niemeyer**
  Assistant Secretary of Defense for Energy, Installations, and Environment, DOD

- **Chip Fulghum**
  Deputy Undersecretary for Management, DHS

- **Dr. Martin Keller**
  Director, National Renewable Energy Laboratory

**Keynote**
**WEDNESDAY: 12:30 - 2:00 PM**
Room: Exhibit Hall A

- **Dr. Kathleen Hogan**
  Deputy Assistant Secretary for Energy Efficiency, DOE

- **Frank G. Jackson**
  Mayor, Cleveland, OH

- **Jason Hartke**
  President, Alliance to Save Energy

- **John Solldorf**
  Chief Executive Officer and President, Legrand

- **Bill Peacock**
  Chief Operating Officer, Cleveland Clinic Foundation

- **Asim Haque**
  Chairman, Ohio Public Utilities Commission
The Energy Exchange provide curated and customized based on Inter-Agency Energy Management Task Force feedback and input, ensuring the event meets the needs of Federal agencies missions, legislative drivers, and Administration priorities.

97 Technical Session and 14 Pre-Conference Workshops are Accredited

44 Technical Session & 14 Pre-Conference Workshops aligned with FPBTA competencies

75 Sessions support the multiple training requirements from FY2017 & FY2018 NDAA
## Energy Exchange (EEx) | Better Buildings Summit (BBS)
### 2018 Training Themes & Tracks

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<td><strong>T10 (EEx)</strong> - Cybersecurity Technologies and Control Systems</td>
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https://www.2018energyexchange.com/training/
Continuing Education Units

International Association for Continuing Education and Training (IACET) continuing education units (CEUs) are available for the majority of the Energy Exchange training sessions. This year, CEU tests can be taken after sessions end. This year’s training will offer 0.2 CEUs for a 1.5-hour training session.

1. Attend a CEU-designated session. The majority of sessions are eligible

2. Pass a session-specific quiz. For attendees who preregistered for Energy Exchange, quizzes will be available at the end of each business day. For those who registered on-site, quizzes will be available shortly after the end of the 2018 Energy Exchange and Better Buildings Summit. The minimum passing score is 80%.

   **Attendees should use the following link to access their quizzes on the Whole Building Design Guide course portal:**
   wbdg.org/energy-exchange-2018

   Session quizzes will be available through October 31, 2018.

3. Complete the session evaluation administered through the Whole Building Design Guide course portal. Session moderators will discuss CEU requirements at the beginning of each training session.

FBPTA Credits

The Federal Buildings Personnel Training Act (FBPTA) of 2010 requires all federal personnel providing building operations and maintenance services to demonstrate competencies necessary to effectively operate government facilities. In general, this will apply to personnel performing facility management, building operations, and energy management roles. The U.S. General Services Administration (GSA) and the Facilities Management Institute (FMI) have developed an online tool for assessment and monitoring of professional development called Accelerate FM.

Where you see the GSA FBPTA symbol or notation in the Agenda At-a-Glance or the session descriptions on pages, you’ll know that:

- This session has been aligned with at least one FBPTA performance.

- This session will be automatically uploaded in to AccelerateFM, the FBPTA compliance reporting tool, for all attendees with an account in AccelerateFM.

- If you don’t have an account in AccelerateFM, if you create one within 30 days, this session will be uploaded for you.

- **If you want to learn more about FBPTA, visit fmi.gov or acceleratefm.us**

- Sessions that have been archived will be available for future viewing and can be added to your profile in Accelerate FM for FBPTA credit.
2018 Energy Exchange | Better Buildings Summit

2018 Technical Training Schedule

Tuesday
08/21

10:30am - 12:00pm
T01-S1: Energy Manager Workforce Development Requirements and Credentialing

10:30am - 12:00pm
T02-S1: Legislative Developments Affecting Energy Policy and Funding

10:30am - 12:00pm
T03-S1: Building Critical Teams for Critical Buildings

10:30am - 12:00pm
T04-S1: What Keeps You Up at Night? Today's Threats to Critical Infrastructure

10:30am - 12:00pm
T05-S1: Continuity and Contingency: What's Needed When?

10:30am - 12:00pm
T06-S1: Transforming Business Models for Alternative Energy

10:30am - 12:00pm
T07-S1: Energy 101: Lighting

10:30am - 12:00pm
T08-S1: Data Analytics 101

10:30am - 12:00pm
T09-S1: Advanced HVAC Systems

10:30am - 12:00pm
T10-S1: Cyber Security Basics for Energy Managers

10:30am - 12:00pm
T11-S1: Selecting a Contracting Vehicle

https://www.2018energyexchange.com/training/
2018 Energy Exchange | Better Buildings Summit

2018 Technical Training Schedule

Tuesday
09/21
10:00am - 12:00pm  T07-S1: Energy 101: Lighting
2:00pm - 3:30pm  T07-S2: Energy 101: HVAC
4:00pm - 5:30pm  T07-S3: Energy 101: Controls Data

Wednesday
09/22
9:30am - 10:30am  T07-S4: Resource Energy Managers
10:30am - 12:00pm  T07-S5: Operations & Maintenance Part I
2:00pm - 3:30pm  T07-S6: Operations & Maintenance Part II
4:00pm - 5:30pm  T07-S7: Audits Part I

Thursday
09/23
8:30am - 10:00am  T07-S8: Audits Part II
10:00am - 12:00pm  T07-S9: Commissioning Your Building

T07-S1: Energy 101: Lighting

Lighting and lighting controls are currently evolving as fast as any time in the history of electricity. This lightning-paced lighting evolution is creating confusion. This session will be presented without slides in a “coffee-talk” style with audience participation. The discussion topics may start with fact and fiction about LEDs and what to look for, the efficiency battle, and the race to the bottom for marketing. Controls capabilities and lighting horror stories may also show up. This is the audience’s track, so come prepared for provocative discussions and how a real LED ROI shows up.

Recommended Follow-on Sessions:

- T07-S2: Energy 101: HVAC
  (Tuesday, 2:00 PM – 3:30 PM, Room 15)
- T07-S3: Energy 101: Controls Data
  (Tuesday, 4:00 PM – 5:30 PM, Room 15)
- T07-S4: Resource Efficiency Managers
  (Tuesday, 9:30 AM – 10:00 AM, Room 15)

https://www.2018energyexchange.com/training/
Event Enhancement: DOE Expert Lounge

Lounge Features:

- Meet and talk with FEMP, DOE Staff, and DOE Lab Experts
- Attend product and tool demonstrations
- Get updates on the latest tools, products and services from FEMP and DOE
- Complete your CEUs quizzes on computer stations set up in lounge
- Have space to connect with your teams and other in the lounge area
**Event Enhancement: DOE Expert Lounge**

**TUESDAY**

**10:00-10:30 AM**
- Space Conditioning – *Expert: NREL*
- Federal Facility Design and Operations - *Expert: FEMP*
- Specialty Facilities (Federal Labs and Data Centers) - *Expert: FEMP*
- Federal Agency Reporting & Accountability - *Expert: FEMP*

**3:30-4:00 PM**
- ISO 50001 Ready and Facility Operations - *Expert: FEMP*
- Federal Agency Reporting & Accountability - *Expert: FEMP*
- Federal Workforce Development & Engagement - *Expert: FEMP*

**WEDNESDAY**

**10:00-10:30 AM**
- Space Conditioning – *Expert: NREL*
- Home Energy Score – *Expert: DOE*
- Energy Data Management – *Expert: DOE*
- ESPC, UESC, ENABLE and Appropriations Project Development - *Expert: FEMP*
- Distributed Energy and Energy Procurement - *Expert: FEMP*
- Portfolio Resilience Planning and Implementation - *Expert: FEMP*

**3:30-4:00 PM**
- Building Envelope – *Expert: ORNL*
- Water Efficiency & 50001 Ready – *Expert: LBNL*
- Steam & Energy Assessments – *Expert: ORNL*
- Portfolio Resilience Planning and Implementation - *Expert: FEMP*
- Specialty Facilities (Federal Labs and Data Centers) - *Expert: FEMP*
- Facility Related Control Systems Security - *Expert: FEMP*

**THURSDAY**

**10:00-10:30 AM**
- Plug & Process Loads – *Expert: Waypoint Building Group*
- Building Envelope – *Expert: ORNL*
- DOE Tools – *Expert: DOE*
- Federal Agency Reporting & Accountability - *Expert: FEMP*
- Federal Workforce Development & Engagement - *Expert: FEMP*
- ESPC, UESC, ENABLE and Appropriations Project Development - *Expert: FEMP*

**3:30-4:00 PM**
- Plug & Process Loads – *Expert: NREL*
- Process Heating & Waste Recovery - *Expert: DOE*
Starting on Monday, August 20, 2018 between 8am-5:30pm FEMP will be hosting 15 Pre-Conference workshops for those attendees looking for some more in-depth and detailed training before the Energy Exchange | Better Buildings Summit.

Check out the details of the FEMP pre-conference workshops below, covering a range of specialty topics from resilience planning to financing to fleets. A number of workshops are also designed to be taken as a series, if desired or they can be taken independently. Most workshops are accredited and align with FIBPTA competencies.

All FEMP pre-conference workshops are offered at NO COST and open to all conference attendees but do require separate registration for each workshop session.

**FEMP Pre-Conference Workshop A**

**FEMP Pre-Conference Workshop B**

**FEMP Pre-Conference Workshop C**

**FEMP Pre-Conference Workshop F**

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**FEMP Pre-Conference Workshop A**

**Operation and Maintenance of Solar Photovoltaic Systems: Reducing Cost and Improving Effectiveness**

8:00 am – 10:00 am
Exhibit Level Room S, Huntington Convention Center, Cleveland, OH

This workshop introduces procedures to safety and cost-effectively perform effective operations and maintenance (O&M) for photovoltaic (PV) systems and covers PV system inspection, operations, preventative and corrective maintenance, O&M plans, safety and budgeting.

0.2 CEUs are offered upon completion of this course

FEMP Pre-Conference Workshop B & C are recommended following FEMP EEx Workshop A.

**REGISTER TO ATTEND**

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<td>10:15 AM-12:15 AM</td>
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2018 Energy Exchange AND Better Buildings Summit

U.S. DEPARTMENT OF ENERGY invites you

Energy Exchange
Better Buildings SUMMIT
Resilient • Efficient • Secure

SAVE THE DATE
AUGUST 21-23, 2018
CLEVELAND, OHIO

@BetterBldgsDOE #EnergyExchange2018 #BBSummit2018