Education Meet Up: Part I

Wednesday, August 22\textsuperscript{nd}
8:30am-10am
Agenda

- **Welcome and Introductions**
  - Crystal McDonald and Nate Allen, U.S. Department of Energy

- **ENERGY STAR Score Updates**
  - Katy Hatcher, U.S. Environmental Protection Agency

- **Sustainability Master Planning**
  - Kathia Benitez, Northwestern University

- **Successful Student Engagement Strategies**
  - Christos Chrysiliou, Los Angeles Unified School District

- **Advanced Energy Guides**
  - Paul Torcellini, National Renewable Energy Laboratory

- **Questions & Answers**
Welcome and Introductions

Crystal McDonald and Nate Allen
U.S. Department of Energy
ENERGY STAR Score Updates
Katy Hatcher, ENERGY STAR National Manager
U.S. Environmental Protection Agency
ENERGY STAR® Portfolio Manager Updates

Caterina Hatcher
US EPA ENERGY STAR

- Hundreds of thousands of buildings benchmarking
- Two dozen local benchmarking policies
- One foreign government partnership (Canada)
More than 10,000 ENERGY STAR Certified Schools Across the Nation!
Management Tool

- Assess whole building energy and water consumption, plus waste
- Track green power purchase
- Share/report data with others
- Track changes in energy, water, greenhouse gas emissions, and cost over time
- Create custom reports
- Apply for ENERGY STAR certification
Hundreds of metrics, including:

- **Energy use**
  - Source, site, weather normalized, demand

- **Water use**
  - Water use intensity, Water Score (for Multifamily)

- **Waste & Materials**
  - Waste intensity, diversion rate

- **1-100 ENERGY STAR score**

- **GHG emissions**
  - Indirect, direct, total, avoided
EPA’s 1 – 100 ENERGY STAR scores are based on market data

Nationally representative survey - CBECS gathers data on building characteristics and energy use from thousands of buildings across the U.S.

EPA creates a statistical model that correlates the energy data of the property use details to identify the key drivers of energy use, accounting for weather variations

Compares the actual energy data for a building to the modeled estimate to determine where the building ranks relative to its peers on a 1-100 scale
ENERGY STAR certification for commercial buildings

- Building must be in the United States, US territories, or Canada (Canadian certification launched March 2018!)
- Achieve an ENERGY STAR score of 75 or higher
- Apply for ENERGY STAR recognition via Portfolio Manager
- Application must be verified by a licensed professional
- Awarded based on the calendar year of application
Property types with 1-100 ENERGY STAR scores

- Bank Branch
- Barracks*
- Financial Offices
- K-12 Schools
- Supermarkets
- Wholesale club/ Supercenters
- Medical Offices*
- Hotels
- Residence Hall/Dormitory*
- Office Buildings
- Courthouses
- Worship Facilities
- Retail Stores
- Distribution Centers
- Warehouses
- Data Centers
- Hospitals
- Senior Care Communities
- Wastewater Treatment Plants*
- Multifamily Housing

*These building types are not eligible for ENERGY STAR certification.
What’s getting updated? Scheduled for August 26, 2018

• 1-100 ENERGY STAR score models for US buildings (based on CBECS 2012)
  • Offices
    • Financial offices
    • Bank branches
    • Courthouses
  • K-12 Schools
  • Retail
    • Retail store
    • Warehouse club/ supercenter
• Supermarkets
• Hotels
• Warehouses
  • Refrigerated
  • Non-refrigerated
  • Distribution centers
• Houses of Worship

• National source energy factor
• Data center benchmarking options
Overall trend in U.S. building energy use

- Long-term trend has been relatively stable over the last 30 years.
- 2012 survey shows lower aggregate intensity as compared with 2003.
- This is a good trend. It also means that ENERGY STAR scores will shift.
ENERGY STAR scores need to be recalibrated over time
Working estimated average ENERGY STAR score change by space type

*office, financial office, courthouse

These are average score changes for these building types. An individual building’s score change is likely to differ from the average change shown above.
Electric Source Factor: grid electricity from renewable energy

- **Past approach**
  - Grid electricity generated from renewable energy treated as requiring the same raw fuel inputs as fossil fuel energy.

- **New approach**
  - Offsite renewables lower the national average electric source factor. Electricity generated from renewable energy sources have lower raw fuel inputs than electricity generated from fossil fuels.

- **New electric source factor releasing Aug 2018**
  - Dropping from 3.1 to 2.8 (more efficient grid)
  - Will impact ENERGY STAR score & all source energy metrics
  - ENERGY STAR score could increase or decrease depending on a building’s fuel-mix ratio
  - Changes based on this update alone will be small in magnitude comparatively
Preparing for the updates

• Communicate metric updates to colleagues, clients, stakeholders, etc. using EPA’s communications toolkit:
  ✓ Co-brandable fact sheet
  ✓ Shareable graphic
  ✓ Template social media content
  ✓ Template training slides
  ✓ Quick video tutorial about the 1-100 ENERGY STAR score

Download EPA’s score update materials at: www.energystar.gov/scoreupdates
New in this Fall! Monthly Usage Totals by Fuel Type

- New monthly metrics will be available in the Reporting tab to pull aggregated monthly consumption for:
  - Electricity
  - Natural Gas
- Will be calculated similarly to the values in the monthly chart exports on the Energy tab
Host Your Own Competition!

- Makes energy efficiency more exciting
- Provides a flexible, fun, and engaging platform to save energy and money
- Generates camaraderie, strengthens relationships, and creates networking opportunities
- Provides an opportunity for positive publicity and media exposure

Visit: energystar.gov/battleofthebuildings

Host your own battle
Check out the resources at www.energystar.gov/BattleoftheBuildings

Ready to host your own competition?
We have the tools you need!

Everything you need to get started:
• Template rules, timeline, communications
• Competition Guide
• Data Management Guide and Template Data Tracker
• Activity kits
• …and more!
## ENERGY STAR® Energy Efficiency Student Toolkit

### Activity 4: Conducting an Energy Efficiency Treasure Hunt at Your School

For more information, view the ENERGY STAR Building Upgrade Manual, Chapter 10: K-12 Schools.

#### Energy Management Program

<table>
<thead>
<tr>
<th>Feature</th>
<th>Y</th>
<th>N</th>
<th>Room for improvement?</th>
<th>Location (ex. Classroom 101)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy management program in place</td>
<td></td>
<td></td>
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<tr>
<td>School has an energy efficiency goal or target</td>
<td></td>
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<tr>
<td>School is consistently benchmarked in EPA’s Portfolio Manager</td>
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<tr>
<td>School has a designated staff person responsible for energy management</td>
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<tr>
<td>Communication plan in place to promote energy management program</td>
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<tr>
<td>Summer shutdown program in place (if school unoccupied during summer)</td>
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<tr>
<td>School has an active energy or energy efficiency club or committee</td>
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<tr>
<td>Energy efficiency included in science curriculum</td>
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</tbody>
</table>

#### Lighting

<table>
<thead>
<tr>
<th>Starting Question(s)</th>
<th>Y</th>
<th>N</th>
<th>Describe</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Has your school implemented a lighting upgrade in the past 5 years?</strong></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Feature</th>
<th>Y</th>
<th>N</th>
<th>Room for improvement?</th>
<th>Location (ex. Classroom 101)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENERGY STAR qualified lighting in place</td>
<td></td>
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<tr>
<td>Lights are on in unoccupied rooms, gymnasiums, and at athletic fields</td>
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<tr>
<td>Natural light used where possible instead of artificial lighting</td>
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<tr>
<td>Window shades in place to regulate light and block excess heat</td>
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</table>
K-12 ENERGY STAR National Building Competition Winners

- 2016: Strasburg-Franklin Local Schools K-12 Building
  - 20% energy savings, $50,800 est. savings

- 2015: School at St. George Place (Houston ISD)
  - 36.5% energy savings, $118,500 est. savings

- 2014: Findley Elementary (Des Moines)
  - 29% energy savings, $33,700 est. savings
QUESTIONS?

CONTACTS

Katy Hatcher, U.S. EPA
Hatcher.Caterina@epa.gov

Kudret Utebay, The Cadmus Group LLC
Kudret.Utebay@cadmusgroup.com
Sustainability Master Planning
Kathia Benitez, Director of Sustainability
Northwestern University
Northwestern Strategic Sustainability Plan
Program Development & Governance

- 2013: President Shapiro appoints Sustainability Council; 1st meeting of the council.

- 2013-2015: Establishment of Working Groups; Development of initial plan under former Director of Sustainability.

- 2015-2017: New VP, New Director of Sustainability; Expand staffing/expand working groups with subject matter experts / support for sustainNU and revision/refinement of strategic plan.
Strategic Sustainability Plan: Purpose

- Northwestern's Strategic Sustainability Plan supports an important objective of the University's strategic plan, NorthWESTern Will: “We will contribute to the solutions for renewable energy and a sustainable environment.”

- The Strategic Sustainability Plan:
  - Identifies targets for reducing University greenhouse gas emissions and waste
  - Outlines strategies for increasing efficiency in energy, water, and resource use
  - Offers measures for incorporating sustainability into University purchasing and operation practices
  - Plan has been drafted and reviewed using a collaborative process over the last five years with very broad support from students, faculty and staff
  - Measures are designed to produce net cost savings that will be reviewed with Board on an annual basis
Strategic Sustainability Plan: Context

- Northwestern currently spends $35M per year on electricity and natural gas procurement ($1.11 per second)
  - This energy use is about 80% of the University’s carbon footprint
  - Northwestern has reduced its energy usage per square foot by 13% since 2010
  - Energy savings fund this initiative and return operating funds to the University’s bottom line

- Northwestern currently spends $1.1M per year on waste removal
  - Waste removal is the second largest contributor to the University’s carbon footprint
  - Recycling and reuse have reduced Northwestern’s waste hauling costs by 8% over the past year and saved $100,000
  - Waste savings fund this initiative and return operating funds to the University’s bottom line
Strategic Sustainability Plan: Overview

- Northwestern’s Strategic Sustainability Plan provides a comprehensive, “umbrella” program to guide all faculty, student, and staff initiatives by creating a framework targeting five key program areas:
  - Built Environment
  - Transportation
  - Resource Conservation
  - Experiential Learning
  - Communication and Engagement
Strategic Sustainability Plan: Implementation Roadmap

- Each key program area is accompanied by goals with measurable objectives

1. **BUILT ENVIRONMENT**

<table>
<thead>
<tr>
<th>NO.</th>
<th>OBJECTIVES</th>
<th>STRATEGIES / ACTIONS</th>
<th>TARGET</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1</td>
<td>Establish an energy conservation policy.</td>
<td>Draft energy conservation policy.</td>
<td>2017</td>
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<td></td>
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<td>Submit draft to the Policy Review Committee for review and approval.</td>
<td>2017</td>
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<td>Finalize draft, send to University Policies and Publication Review Committee for approval.</td>
<td>2017</td>
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<td></td>
<td></td>
<td>Review, update, and assess policy effectiveness.</td>
<td>Annually</td>
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<tr>
<td>1.2</td>
<td>Implement an ongoing energy management program based on ENERGY STAR® Guidelines for Energy Management.</td>
<td>Establish a dedicated Energy Efficiency Committee (EEC), set program objectives, and commit to continuous improvement.</td>
<td>2016</td>
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<td>Complete the Energy Management Assessment Matrix.</td>
<td>2016</td>
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<td>Audit Portfolio Manager data to identify improvement opportunities and ensure all utilities are benchmarked appropriately.</td>
<td>2017</td>
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<td>Assess kBtu/SF per building type to identify level of performance.</td>
<td>Monthly</td>
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<td>Establish action plan to improve energy efficiency throughout building portfolio.</td>
<td>2017</td>
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<td></td>
<td>Evaluate energy management program progress.</td>
<td>Annually</td>
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<td>Submit ENERGY STAR® Partner of the Year Award application for program recognition.</td>
<td>Annually</td>
</tr>
<tr>
<td>1.3</td>
<td>Implement an energy management information system.</td>
<td>Develop and issue request for proposal for energy management information system.</td>
<td>2017</td>
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<td></td>
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<td>Execute software contract and begin implementation.</td>
<td>2018</td>
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<td></td>
<td></td>
<td>Develop a utility production and distribution submetering master plan.</td>
<td>2019</td>
</tr>
</tbody>
</table>
Strategic Sustainability Plan: Built Environment Goals

- Improve campus energy efficiency 20% by the year 2020 from the 2010 baseline
- Improve water efficiency in existing buildings and grounds and establish a water conservation plan by 2018
- Reduce greenhouse gas emissions 30% by 2030 from the 2010 baseline and net zero emissions by 2050
- Establish a retro-commissioning program for existing buildings by 2018
Strategic Sustainability Plan: Transportation Goals

- Increase campus commuter use of public transportation 5% by 2021 from the 2016 baseline
- Reduce Northwestern fleet greenhouse gas emissions 100% by 2030 from the 2017 baseline
- Increase bicycle commuting 10% by 2021 from the 2016 baseline
Strategic Sustainability Plan: Experiential Learning Goals

- Establish a living laboratory program by 2018

- Faculty identify existing and new courses and programs that foster student entrepreneurship and hands-on learning by 2018

House By Northwestern – Department of Energy Solar Decathlon
Strategic Sustainability Plan: Communication and Engagement Goals

• Establish a green labs program by 2020

• Increase the visibility of campus sustainability activities among faculty, students, and staff as measured in the number of subscriptions to and open rate of Northwestern’s sustainNU newsletter

• Promote Northwestern’s initiatives to outside audiences via publications and peer networks

Tree Planting - Earth Month 2017

City of Evanston – Streets Alive Community Event
Strategic Sustainability Plan: Successes to Date

- Northwestern received a silver rating through the Sustainability Tracking, Assessment, and Rating System (STARS), which is administered by the Association for the Advancement of Sustainability in Higher Education (AASHE)

- Northwestern ranked 31st among schools for sustainability in Sierra Club’s Cool Schools rankings in 2017

- Northwestern received a silver “Bike Friendly University” designation from the League of American Bicyclists in 2016

- 2018 ENERGY STAR Partner of the Year

- LEED Platinum certification for Kresge Renovation and Expansion project and LEED Platinum for Kellogg's Global Hub
Strategic Sustainability Plan: Year in Review

**Built Environment**
- EUI has been reduced 11% as of FY 2017 from the 2010 baseline (EUI (kBtu/ft²)).
- 68 new trees planted on the Evanston campus.
- 50% ORGANIC based fertilizers are used on campus.
- Northwestern purchased 100,000 MWh of Green-e certified Midwest wind renewable energy certificates.
- 13% reduction in greenhouse gas emissions in 2016 from the 2012 baseline.
- Installed new inverters to the 17 kW Ford solar array, improving the performance of 75 solar panels.
- Kresge Centennial Hall achieved LEED Platinum status, and has a 254 PANEL rooftop solar array that provides 5% of the building's electricity.

**Resource Conservation**
- UNDERSTANDING OUR WASTE: The first ever campus waste audit included sorting more than 5,000 lbs of waste from 18 buildings across both campuses.
- Recycling and composting efforts diverted 38% of our waste from the landfill, which amounts to 2,428 tons recycled or composted.
- MOVING OUT: Nearly 10,000 pounds of food, clothing, and household goods were donated.

**Transportation**
- Northwestern Purple Divvy took 821 trips with 640 unique riders traveling a total of 1,619 miles.
- Supporting 9 ZERO-WASTE EVENTS.
- Northwestern student Divvy memberships have reached a total of 667 since the program inception in July 2016.
- 16 Electric vehicles added to the University fleet.

**Additional Information**
- Saving 12,785 gallons of gas annually.
- 8,295 miles ridden this year by Northwestern’s Bike Commuter Challenge team, securing a win in our category.
- The University’s inaugural Transportation Survey was released in 2016 and captured data from 6,688 students, faculty, and staff.

Successful Student Engagement Strategies

Christos Chrysiliou, Director of Architectural & Engineering Services
Los Angeles Unified School District
LAUSD Student Engagement Programs

Shaping the educational landscape through Eco-literacy

Christos Chrysiliou, AIA, CCM, LEED AP BD+C
Director of Architecture and Engineering Services
LAUSD M&O Branch – Sustainability Initiatives Unit
August 22, 2018
About LAUSD

Our Commitment

Engagement Programs
About LAUSD

Sustainability Initiatives Unit

Focus Areas

- Water Conservation
- Energy Conservation
- Campus Ecology
- Emerging Technologies
- High Performance Schools
- Awareness & Outreach
### About LAUSD

- **713,000** students (K-12)
- **60,000** employees
- **710** square miles of site boundaries
- **6,657** acres of land
- **13,000** buildings
- **800+** campuses

**Source:** [achieve.lausd.net](http://achieve.lausd.net) (Fingertip Facts)

About LAUSD

Our Commitment

Engagement Programs
Mission
LAUSD's Sustainability Initiatives mission is to be the most sustainable school district in the nation by developing and implementing programs that support energy efficiency, water conservation, and educational and awareness programs.

Goals
• 20% Energy Intensity Reduction by 2024
• 20% Water Consumption Reduction by 2024
• Support High Performance Design
• Support Education and Awareness Programs
• Support Campus Ecology Programs
• Identify, Evaluate and Implement Emerging Technologies

www.learninggreen.laschools.org
About LAUSD

Our Commitment

Engagement Programs
Complementing the District's core educational mission by identifying opportunities for education, training, and community engagement as we implement each of our initiatives.

- Raise awareness of environmental stewardship
- Develop partnerships
- Link projects with learning & workforce development
- Encourage and celebrate school-based sustainability efforts

Heroes for Zero
LAUSD emPower
Prop 39 SEAT Training
Website/Social Media
Save the Drop DROPS
LAUSD Sustainability Initiatives

Engagement Programs

HEROES FOR ZERO

ZNE FORMULA:

EE + RE = ZE

OUR FOCUS:

- Applying EE measures and avoiding waste
- Reducing waste through energy education & awareness
- Using technology to understand the facility
- Collaboration for greater efficiency

EE – SCHOOL FACILITY SYSTEMS AND CONSERVATION AWARENESS

SCIENCE TECHNOLOGY ENGINEERING ART MATHEMATICS
**OBJECTIVE:**

- Encourage schools to engage in activities that help make them “ZNE Ready”

**ELIGIBILITY:**

- Open to all Student Teams at all grade levels (K–12)
- Schools can form more than one team, but will submit only one Team’s plan as their entry,
**Elements:**

**H** – Demonstrate how ZNE can also lead to a healthier space or community

**E** – Tie in Curriculum Module/Awareness Program

**R** – Work with Subject Matter Partner or Community-Based Organization

**O** – Conduct a school energy audit & develop an efficiency plan

**E** – Develop & implement a strategy to reduce consumption

**S** – Mentor another school, group, or neighborhood about ZNE
Engagement Programs

Overland Elementary School
Energy Eagles
Engagement Programs
“One planet. One ecosystem. Together, we can be ‘eco-stewards,’ as we continue to be inspired by our youth’s eagerness for a brighter, more sustainable future.”

Christos Chrysiliou,
LAUSD Director of Architecture & Engineering Services
2018 Best of Green Schools Ambassador
Thank you!

Questions?

Website: learninggreen.laschools.org
Contact us by email: learninggreen@lausd.net
Telephone: (213) 241-1000

Learn more about Heroes for Zero:
http://learninggreen.laschools.org/heroes-for-zero-contest.html
Advanced Energy Design Guides
Paul Torcellini, Principal Engineer
National Renewable Energy Laboratory
Advanced Energy Design Guides
Paul A. Torcellini, Ph.D., P.E.
National Renewable Energy Laboratory
Principal Engineer
### Advanced Energy Design Guides Background

**Six 30% Guides published**  
(2004-2008)  
Highway Lodging, K-12 Schools, Small Hospitals and Healthcare Facilities, Small Office Buildings, Small Retail Buildings, Small Warehouses and Self Storage

**Five 50% Guides published**  
(2009-2013)  
Grocery Stores, K-12 Schools, Large Hospitals, Small to Medium Office Buildings, Medium to Big Box Retail Buildings

**One Zero Energy Guide Published**  
(2018-current)  
K-12 Schools  
Offices (in development)

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**As of June 24, 2018**

**All versions (12 total)**  
606,241 downloaded  
26,384 distributed in print  
632,625 total  
157,831 registrants account for free AEDG downloads

**ZE K-12**  
2,775 copies  
(Jan 20, 2018 release)

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- Industry partnership with top professional organizations and DOE, with oversight and constant validation process with industry experts
- Specialized volunteer experts on the Project Committee for each guide, representing the different professional organizations
- Supported by and leveraging DOE’s national laboratory research, energy simulation, and technical analysis
Energy Use Intensity Targets

Did exhaustive simulations to determine energy use intensity targets

- Can show that zero is possible and the types of strategies that can be used to get there

Set of design decisions that can achieve the targets

- Zero Energy Ready Buildings—buildings so efficient that on-site renewables can offset the energy needs
Background

Educational guidance—not a code; not a standard; not a guideline
  • Intended audience are owners, architects, and engineers looking for beyond code guidance for implementing energy efficiency strategies

Available for free as a PDF download from www.ashrae.org/aedg

Developed by professional experts appointed by sponsoring organizations
School ZER Simulations

![EUI Graph]

Climate Zone

Primary School Site EUI  Secondary School Site EUI
What is in the Guide?

Chapter 1 – Introduction

Chapter 2 – Rationale for Zero Energy

Chapter 3 – Keys to Success

Chapter 4 – Building Simulation

Chapter 5 – How to Strategies

Dearing Elem. School EUI=23.5

Discovery Elem. School EUI=15.8

Friends School EUI=11.7
Chapter 5: How-to Strategies

Table showing how the strategies can be applied

Collection of small pieces of text with strategies to help move towards zero.

• Building and Site Planning
• Envelope
• Lighting (daylighting and electric lighting)
• Plug Loads and Power Distribution
• Kitchen Equipment
• Service Water Heating
• HVAC Systems
• Renewable Energy
The AEDG helps subdue anxiety over additional cost and schedule impacts associated with zero energy design, which are main drivers in school facility planning.
Zero Energy Office Guide

Targets Small and Medium Office Buildings

Timeline

- Project committee met in June
- Initial simulation input received
- Now - Committee working on 60% draft
- Aug 31-17, 2018
  - First peer review (60% draft)
  - Conceptual review/content
- Nov 2-19, 2018
  - Second peer review (90% draft)
  - Fact checking/concept details
- June 2019- Final publication
Want to Get Involved?

Feedback?

Peer Reviewers Needed: Lpratt@ashrae.org

Office Case Studies Needed: Lpratt@ashrae.org

Questions: Paul.Torcellini@nrel.gov
Other DOE Education Resources

- **STEM Rising**, a project of the U.S. Department of Energy bringing STEM skills to the market through online learning and hands-on science (internships, contests, competitions, events)

- Career Maps for **Wind**, **Bioenergy**, and **Solar**, exploring expanding universe of energy occupations, describing diverse jobs across the industry and charting possible progression between them, and identifying the high-quality training necessary to do them well.
Education Meet Up: Part II

Wednesday, August 22\textsuperscript{nd}
10:30am-12pm
Agenda: Part II

- Round Table Discussions
- Tool Presentations
  - DER CAM
  - PV Watts
  - Better Buildings Financing Navigator 2.0
  - HVAC Resource Map
  - Building Energy Asset Score
  - RE-OPT Tool
- Questions & Answers