JUNE 8-11

2020 SUMMIT
A Virtual Leadership Symposium

Learn more: betterbuildingssolutioncenter.energy.gov/summit
The Secrets of Better Buildings Goal Achievers

Thursday, June 11, 2020
1:00PM – 2:30PM ET
Cedar Blazek
Department of Energy
Agenda

1. Introduction/Housekeeping
2. Presentation from DOE
3. Guest Speakers
4. Q&A Session
Please go to www.slido.com using your mobile device or web browser

Enter Event Code

#BBSummit

Select “The Secrets of BB Goal Achievers” from the dropdown menu
Follow along with Better Buildings, Better Plants

#BBSummit2020

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- @BetterPlantsDOE

LinkedIn:
- www.linkedin.com/company/better-buildings/
- www.linkedin.com/showcase/better-plants/
Poll Question

Submit Poll Responses

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Select “The Secrets of BB Goal Achievers” from the dropdown menu
Better Buildings Challenge

**GOALS**
- Make buildings 20%+ more efficient in 10 years
- Across the commercial, multifamily, industrial, and public sectors
- Save $80B+ for US organizations
- Create American jobs; improve energy security; protect the environment

**APPROACH**
- Leadership
- Results
- Transparency
- Best Practice
- Recognition
- Catalyzing Action

**RESULTS**
- 350+ Partners & Allies
- Commercial, Industrial, Public, Private, Financial, Multifamily Sectors
- Large and Small
- Nationwide
Better Buildings Goal Achievers
Today’s Presenters

Shelby Busó
City of Atlanta

Jim Henry
Iron Mountain Data Centers

Megan Saunders
Lendlease
Poll Results!
Shelby Busó
City of Atlanta

Submit Questions
www.slido.com event code #BBSummit
DOE Better Buildings Summit 2020

Shelby Busó
Chief Sustainability Officer

Mayor’s Office of One Atlanta
City of Atlanta
One Atlanta
Leadership Team

Reese McCranie
Deputy Chief Equity Officer

Angelica Geter Fugerson, DrPH, MPH
Chief Health Officer

Ouleye Ndoye Warnock
Senior Human Trafficking Fellow

Shelby Busó
Chief Sustainability Officer

Michelle Maziar
Director of the Office of Immigrant Affairs
An Affordable, Resilient and Equitable Atlanta... One Atlanta

- A Safe, Welcoming and Inclusive City
- World-Class Workforce, Infrastructure and Services
- An Ethical, Transparent and Fiscally Responsible Government
- Residents that are Equipped for Success
- Thriving Neighborhoods, Communities and Businesses

Five strategic priorities encapsulate a related set of Progressive Agenda items, policy initiatives and operational programs to deliver on the Mayor’s vision. Equity is a common theme underpinning and linking each priority.
20% BY 2020 (or, 2019!)
Atlanta Better Buildings Challenge

Background

Atlanta’s Goal:

To engage the local community to reduce energy and water consumption by at least 20% in participating buildings across Atlanta’s central business districts by 2020 and become one of the country’s top sustainable cities.
Atlanta Better Buildings Challenge

Background

• National competition initiated by US Department of Energy
• Started in June 2011 with 3 pilot cities: Los Angeles, Seattle, and Atlanta
• Atlanta is the largest program in the country by square footage
• Atlanta was the first program to add water
Atlanta Better Buildings Challenge: Participant Recognition

ABBC participants were provided:

• free building assessments
• implementation technical assistance
• ENERGY STAR Portfolio Manager platform for sharing energy data
• education and training opportunities
• public recognition
Atlanta Better Buildings Challenge: Data Management

- Data tracking and performance measurement
  - ENERGY STAR Portfolio Manager to track and benchmark buildings’ adjusted energy use intensity (EUI) data
  - Created public-facing dashboard displaying aggregated program data
Atlanta’s Participants

Participation by Property Type

- Properties
- Floor Area (Sq–Ft)
- Baseline Source Energy (kBtu)

Legend:
- Office
- Residential/Hotel
- Entertainment
- Education–Other
- K–12 School
- Parking/Other
- Recreation Center
- Public Services
- Healthcare
- College/University
- Retail
Benchmarking

Benchmarking is the process of evaluating building energy performance by comparing similar facilities. Atlanta Better Buildings Challenge participants are benchmarked using the metrics of energy use intensity (EUI) and ENERGY STAR score.
Benchmarking

Benchmarking is the process of evaluating building energy performance by comparing similar facilities. Atlanta Better Buildings Challenge participants are benchmarked using the metrics of energy use intensity (EUI) and ENERGY STAR score.
Atlanta Better Buildings Challenge: Program Impact

Energy Performance - Total Energy Savings

Cumulative Energy Savings (Trillion Btu)

Year


www.AtlantaBBC.com
Atlanta Better Buildings Challenge: Program Impact

In 2017 alone, over 4.63T BTUs were saved - equivalent to 241 wind turbines running for a year.

The total energy savings is equivalent to 206K homes’ energy use for one year.
Atlanta Better Buildings Challenge: Program Impact

Energy efficiency makes the power sector less thirsty

2017 ABBC Impact

- Georgia’s Waterways Benefit from ABBC:
  - 229 million gallons of water withdraw reduced
  - 49 million gallons of water consumption avoided
Energy efficiency makes the power sector less thirsty

2017 ABBC Impact

- Georgia’s Waterways Benefit from ABBC:
  - 229 million gallons of water withdrawn reduced
  - 49 million gallons of water consumption avoided

Equivalent to 44% of the water used by Metro Atlanta in one year

Atlanta Better Buildings Challenge: Program Impact

www.AtlantaBBC.com
Atlanta Better Buildings Challenge: Program Impact

Water Performance – Total Water Savings

Cumulative Water Savings (Million Gallons)

Year


Cumulative Water Savings

www.AtlantaBBC.com
Atlanta Better Buildings Challenge: Program Impact

In 2017 alone, 172.5+M gallons saved - equivalent to over 261 Olympic size swimming pools.

The total water savings is equivalent to 1,973 Olympic pools (1.3B gallons).
Atlanta Better Buildings Challenge: Program Impact

Water Performance – Annual Water Savings

- Annual Water Savings
- Cumulative Percent Improvement
- Target Cumulative Percent Improvement
ABBC contributed significantly to Georgia's economic development

ABBC Programs and Activities in 2017

- Invited $19 million additional investment
- Created 221 jobs
- Add $16 million to regional economy
- Increased labor incomes by $8 million
# Atlanta Better Buildings Challenge: Program Impact

Reducing demand for energy and water reduces electricity generation which can help improve air quality and can thus support health.

<table>
<thead>
<tr>
<th>ABBC Emission Savings in 2017</th>
<th>CO2</th>
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<th>NOx</th>
<th>PM10</th>
<th>PM25</th>
<th>VOC</th>
<th>NH3</th>
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<tbody>
<tr>
<td>Tons</td>
<td>33,356</td>
<td>37.7</td>
<td>15.5</td>
<td>1.9</td>
<td>1.6</td>
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<td>0.3</td>
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<th>Avoided Illness</th>
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<th>Lower Respiratory Symptoms</th>
<th>Asthma Exacerbations</th>
</tr>
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<tbody>
<tr>
<td>Number of Avoided Instances</td>
<td>101</td>
<td>17</td>
<td>4</td>
<td>3</td>
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## Atlanta Better Buildings Challenge: Program Impact

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Societal benefits from avoided pollutant emissions (2017): $2.5 Million
Atlanta Better Buildings Challenge: Program Impact

2016

Top 10 Counties with Public Health Benefits

- County and State: Fulton County, GA
  - Total Health Benefits: 21,455
- Jefferson County, AL
  - Total Health Benefits: 18,051
- DeKalb County, GA
  - Total Health Benefits: 12,382
- Cobb County, GA
  - Total Health Benefits: 11,530
- Gwinnett County, GA
  - Total Health Benefits: 8,328
- Greenville County, SC
  - Total Health Benefits: 7,862
- Mecklenburg County, NC
  - Total Health Benefits: 7,461
- Coveta County, GA
  - Total Health Benefits: 7,372
- Charleston County, SC
  - Total Health Benefits: 7,363
- Madison County, AL
  - Total Health Benefits: 7,563

www.AtlantaBBC.com
Atlanta Better Buildings Challenge: Program Impact

Top 10 Counties with Public Health Benefits

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<thead>
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<th>County and State</th>
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<td>Fulton County, GA</td>
<td>21,465</td>
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<td>Jefferson County, AL</td>
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<tr>
<td>DeKalb County, GA</td>
<td>13,051</td>
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<tr>
<td>Cobb County, GA</td>
<td>12,982</td>
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<tr>
<td>Gwinnett County, GA</td>
<td>11,530</td>
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<tr>
<td>Greenville County, SC</td>
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</tr>
<tr>
<td>Madison County, AL</td>
<td>7,285</td>
</tr>
</tbody>
</table>
Atlanta Better Buildings Challenge Program

Impact

Greenhouse Gas Emissions

• In 2017 over 198,867 metric tons of CO\textsuperscript{2} avoided --- equivalent to flying from Atlanta to Sydney Australia 139,068 times
• Since 2011, the emissions saved is equivalent to shaving one half of a coal-fired power plant from the grid for 1 year
Atlanta Better Buildings Challenge Grows Georgia’s Economy

Employment
- ABBC created or sustained 619 jobs to date, projected to grow to 884 jobs by 2020

Economy
- State: In 2020, ABBC participants would add $15.2 million to Georgia’s economy through their building energy efficiency work
- Regional: $49M has been added to the regional economy, and is projected to be $69M by 2020

Income
- To date, Georgians have $25M more income due to ABBC activities; could total $33M by 2020
“The Atlanta Better Buildings Challenge (ABBC) is a truly remarkable national success story of what can be accomplished when the public and private sectors join forces to work toward a common goal. What started out as a program to promote energy and water efficiency, has created jobs, improved public health and is paving the way for Atlanta to become a national leader in building efficiency. Since the inception of the ABBC, the City of Atlanta has continued to move the needle forward in sustainable building design, energy and water efficiency and clean energy transition. Our municipal buildings are required to earn LEED certification, we are collecting energy and water-use data to formulate more informed policies, and we have committed to a 100% clean energy transition. The progress we have made to date and the ambitious goals we continue to set, will serve as a legacy for future success in sustainable building design throughout Atlanta.”

KEISHA LANCE BOTTOMS
Mayor, City of Atlanta
Poll Question

Submit Poll Responses

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Select “The Secrets of BB Goal Achievers” from the dropdown menu
Jim Henry
Iron Mountain Data Centers

Submit Questions
www.slido.com event code #BBSummit
Current Footprint

- 15 Data Center Locations
- 1,300+ Colocation Customers
- 569,223 MWh used in 2019
- 15 current energy efficiency projects across all locations
- 100% Renewable Sourced Electricity
- Recently installed largest data center rooftop solar system in US (7.2 MW project in NJE)
2016: Iron Mountain Data Centers began in the Better Buildings Challenge with WPA-1 and KCM-1 in scope. An initial goal was set to improve energy efficiency, and ultimately reduce non-IT energy intensity by 25% over a 10-year period.

2017: Based on the goals that were set in the Better Buildings Challenge, and in order to align with greater goals and vision of the organization, IMDC prepared the portfolio (then, just 3 sites) for ISO 50001 Energy Management System certification. The entire portfolio was certified in late 2017.
Our Energy Management Story…

- **2018**: This year brought great expansion with the acquisition of FORTRUST Data Centers in Denver, CO. The acquisition of two former privately owned data centers in Singapore, and the UK, and lastly, the acquisition of 4 sites from IO Data Centers. Later in 2018, IMDC successfully brought all acquired sites into the scope of the ISO 50001 system, being the **first data center organization to certify an entire enterprise system in ISO 50001**.

- **2019**: Riding on the successes of programs and projects associated with ISO 50001, IMDC became a DOE Better Buildings Goal Achiever after submitting 2018 data, shattering the original goal **7 years ahead of target**. Additionally, IMDC rolled out **Green Power Pass, an industry first**, data center renewable energy solution that gives customers the ability to include the power they consume at any Iron Mountain data center as green power in their CDP, RE100, GRI, or other sustainability reporting.
Our underground data center, WPA-1, utilizes a unique geothermal cooling solution for part of the colocation space; an underground lake! This allows for recirculation of water naturally occurring in a secluded aquifer tucked in a part of the limestone mine where the data center is located. The 56 degree water is a part of the natural water table in Pennsylvania, and provides a great deal of efficiency when cooling data halls SC6-13.
In 2018 and early 2019, a large containment project was kicked off in our WPA-1 data center to install hot/cold aisle containment in data hall SC10. After an initial containment and airflow study, aggressive steps were taken in order to separate cold/hot aisles and improve efficiency. This project resulted in a 10.19% reduction in PUE.
<table>
<thead>
<tr>
<th>Date</th>
<th>Facility Load</th>
<th>IT Load</th>
<th>PUE</th>
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<td>130183</td>
<td>1.57</td>
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<tr>
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<td>197477</td>
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<tr>
<td>7/28/18</td>
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<tr>
<td>8/28/18</td>
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<tr>
<td>9/28/18</td>
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<td>10/28/18</td>
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</tr>
<tr>
<td>11/28/18</td>
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<td>132333</td>
<td>1.42</td>
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<tr>
<td>12/28/18</td>
<td>167427</td>
<td>119060</td>
<td>1.41</td>
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</tbody>
</table>
Over the course of the last 2 years, another one of our underground data centers, KCM-1, has been installing containment across the data center colocation space in order to drive PUE numbers down. This, along with tuning fan speeds on the BMS have resulted in a great increase in efficiency, ultimately leading to a reduction in PUE from 1.83 to 1.68.
Our Manassas, VA campus which will eventually expand to 4 buildings (2 are currently finished), is in the process of an iterative containment and BMS tuning project that will achieve a target PUE of 1.3 when complete.
Projects and Advancements
IMDC are invested and committed to our ISO 50001 program and its continual energy improvement elements. With that, our teams are always researching and exploring new ways to efficiently manage air, and ultimately, energy.

One of the most recent cases of testing new innovation is our evaluation of the new Schneider Electric ExoStruxure Pod at the AZP-2 site.
As our business continues to scale, evaluation and investment in energy efficient equipment is a large driver in how we operate greenfield builds post-construction.
Green Power and Innovation
GPP customers receive an annual certificate of attestation

GPP certifies 100% of power consumed as usable in reporting

GPP includes full documentation on the amount, source, and chain-of-custody of the green power sourced by IMDC

Available to any IMDC customer, regardless of size, at any Iron Mountain data center across the globe

Start claiming green power immediately upon executing the GPP agreement
Poll Results!
Poll Question

Submit Poll Responses
www.slido.com event code #BBSummit

Select “The Secrets of BB Goal Achievers” from the dropdown menu
Megan Saunders
Lendlease

Submit Questions
www.slido.com event code #BBSummit
Challenge Achievers Share their Secrets

Better Buildings, Better Plants Summit 2020
Megan Saunders
Our Business

Lendlease is an international property and infrastructure group with core expertise in shaping cities and creating strong and connected communities.
One of Five Focus Areas of Value Creation

Health and Safety
Health and Safety is our number one priority. We remain committed to the health and safety of our people, our subcontractors, and all of those who interact with a Lendlease place.

Financial
A strong balance sheet and access to third party capital enables Lendlease to fund the execution of its pipeline and deliver quality earnings for our securityholders.

Our People
Our people are the greatest contributors to our success and enable us to fulfil our vision to create the best places.

Our Customers
Designing and delivering innovative, customer driven solutions allows us to win the projects we want to win and ultimately deliver the best places.

Sustainability
We pride ourselves on reaching industry firsts – not because they’re milestones, it’s a signal we’re pushing ourselves for better outcomes for people and the planet.
Military Housing Portfolio

We provide outstanding communities where Military Families live, work and thrive

- 1996: Congress Established Military Housing Privatization Initiative (MHPI)
- 2001: Lendlease awarded first MHPI contract
- Joint Venture with Winn Companies on property management
Our Better Buildings Challenge Journey

Early goal achievement and further reductions as Lendlease continues to adopt new Sustainability targets
Our Sustainability Framework

- **OUR IMPERATIVES**
  - Supporting sustainable economic growth
  - Creating vibrant and resilient communities and cities
  - Fostering a healthy planet and healthy people

- **ENVIRONMENTAL FOCUS AREA**
  - Conserving natural resources and selecting sustainably sourced materials
  - Adapting to and doing our part to mitigate climate change
  - Protecting and restoring the natural environment

- **SOCIAL FOCUS AREA**
  - Generating prosperity for the communities we impact
  - Creating thriving communities resilient to climate change, rich with culture and context with a place for all
  - Supporting and enhancing people’s physical and mental wellbeing
Our approach to Energy Conservation

- Data Driven Approach
- Utility Manager Engagement
- Utility Conservation Programs (RECP/UA)
- Ownership and Operations
What’s happening across the portfolio?
Energy Use Intensity Reduction

20%
Renewable Energy Production

MHPI Portfolio kBTU vs. Solar

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<tr>
<th>Year</th>
<th>kBTU</th>
<th>kWh</th>
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<td>2012</td>
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<td>2013</td>
<td>2,000,000,000</td>
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<td>20,000,000</td>
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<tr>
<td>2016</td>
<td>3,500,000,000</td>
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<tr>
<td>2017</td>
<td>4,000,000,000</td>
<td>30,000,000</td>
</tr>
<tr>
<td>2018</td>
<td>4,500,000,000</td>
<td>35,000,000</td>
</tr>
<tr>
<td>2019</td>
<td>5,000,000,000</td>
<td>40,000,000</td>
</tr>
</tbody>
</table>
Increased Efficiency through Growth
Case studies across our military installations
Cumulative Energy Improvement by Installation
Soaring Heights / Davis Monthan Air Force Base

Tucson, Arizona

- 2008-2014: New construction of 582 homes
  - Tucson Electric Power Guarantee Home Program
- 2010 6 MW of Solar
- 2014: Air Force Utility Allowance program launched
- 2016: Streetlight improvements - sodium bulbs to higher efficiency LEDs

![Graph showing Davis Monthan Sqft vs. EUI over a 9-year period from 2011 to 2019. The graph indicates a general decrease in EUI with a slight increase in 2015.]
Tierra Vista /Peterson Air Force Base

Colorado Springs, Colorado

• 2011: 2.3 MW Solar
• 2013: Water conservation Program – 39% water use reduction during irrigation months
• 2013 (242 homes) 2016 (564 homes): Air Force Utility Allowance program
• 2014 (Substantial Completion): 564 new homes
  – Built to LEED silver standards
Island Palm Communities

Honolulu, Hawaii

- 2013: Begin install of 11.2 MW of solar
- 2006 - Current: 1259 Solar Hot Water Systems installed on new homes
- 2011 - 2016: 1259 new homes
  - Built to Energy Star, LEED standards
- 2018: Energy Solutions and Security (ESS) $150M holistic energy project
  - Reduce energy consumption by estimated 32%
Other Strategies

Design / Net Zero Homes

Building Energy Management Systems (BEMS)

Water Conservation

Energy Solutions and Security (ESS)
What’s Next?
Thank you

Megan Saunders
Director of Sustainability, Lendlease Communities
Megan.Saunders@Lendlease.com
Poll Results!
4 Things all BBC Goal Achievers Did

1. Gained senior management commitment

2. Engaged the entire organization and communicated about results

3. Established strong metrics and a consistent data tracking system

4. Implemented cost effective measures, then look deeper; evaluated best practices & latest technologies; implement them strategically
You Have a Cool Job! What is Next?

• Buildings are a source of opportunity, sustainability, and profit

• Focus on efficiency first. Deep/building wide upgrades.

• People want to work for organizations that care and are doing the right thing

• New technologies, solutions and strategies are emerging all the time

• Learn from leaders. Be a leader!
Q & A

Submit Speaker Questions
www.slido.com event code #BBSummit

Select “The Secrets of BB Goal Achievers” from the dropdown menu
Additional Resources

- **City of Atlanta, GA** – Better Buildings Partner Profile: [Link](#)
  - [Atlanta Better Buildings Challenge Encourages Energy Reduction](#)

- **Iron Mountain Data Centers** – Better Buildings Partner Profile: [Link](#)
  - [ISO 50001: Energy Management Systems In The Real World](#)

- **Lendlease** – Better Buildings Partner Profile: [Link](#)
  - [Understanding Resident Energy Behavior Through Energy Management Systems](#)
<table>
<thead>
<tr>
<th>Date</th>
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<tr>
<td>July 8</td>
<td>BEHIND THE METER DISTRIBUTED ENERGY RESOURCES:</td>
<td>BEST PRACTICES FOR INTEGRATING DERS INTO COMMERCIAL BUILDINGS</td>
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<td>July 9</td>
<td>PROGRAM DESIGN WITH EVERYONE IN MIND:</td>
<td>LOW-INCOME SOLAR PROGRAM STRATEGIES</td>
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<td>THE DYNAMIC DUO: UNLEASH PUBLIC SECTOR ENERGY SAVINGS WITH FINANCING AND TECHNICAL ASSISTANCE</td>
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<td>NEXT-GENERATION BUILDING PERFORMANCE POLICIES:</td>
<td>MAXIMIZING ENERGY SAVINGS AND ENVIRONMENTAL IMPACTS</td>
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<td>STRATEGIES TO COMBINE ENERGY + HEALTH UPGRADES IN MULTIFAMILY HOUSING</td>
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<td>CASE IN POINT: OREGON’S RECENT EFFORTS TO REDUCE PLUG LOAD ENERGY CONSUMPTION</td>
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<td>EVERYONE HAS A DATA CENTER:</td>
<td>HOW TO BE AN ENERGY CHAMPION FOR YOURS</td>
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<td>August 4</td>
<td>SUCCEED WITH SUBMETERING:</td>
<td>HOW TO MAKE THE BUSINESS CASE</td>
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Additional Questions?

Please Contact Us

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Better Buildings Solution Center https://betterbuildingssolutioncenter.energy.gov/

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