

BEPSDC Task Force

October 13, 2020

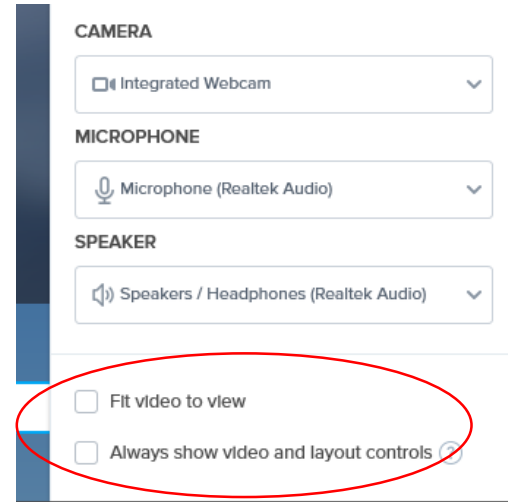
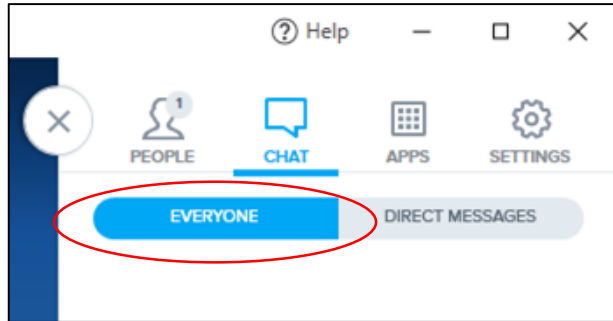
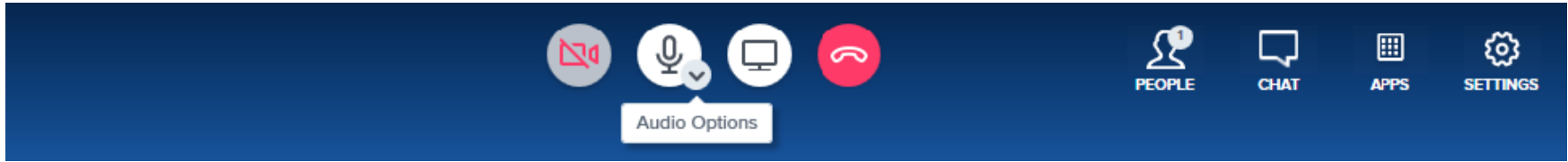


@DOEE_DC
#BEPSDC

*** DEPARTMENT
OF ENERGY &
ENVIRONMENT
GOVERNMENT OF THE DISTRICT OF COLUMBIA

WE ARE
WASHINGTON
DC GOVERNMENT OF THE
DISTRICT OF COLUMBIA
MURIEL BOWSER, MAYOR

BLUEJEANS TOUR



ONLINE MEETING ETIQUETTE

- The meeting is being recorded and will be posted to our website
- Questions and Comments throughout the meeting:
 - All attendees will control their own mute function but could be muted by the facilitator due to background noise
 - Task Force Members – can comment at any time
 - Non-Task Force Members - please use the chat box to request to talk
- Attendance
 - Non-Task Force Member – please use the chat box at this time to register your name, organization and email to “sign in”
 - Task Force Members - roll call (will also use this for voting)

ROLE OF TASK FORCE



- Advise DOE on creation of an implementation plan for the Building Energy Performance Program;
 - Recommend amendments to proposed regulations issued by DOE;
 - Recommend complementary programs or policies.
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- If topic needs in-depth discussion, anyone can suggest moving to a committee
 - This is an open meeting - everyone is allowed to participate

10/25/2017

AGENDA



- Administrative Items
- Deep Retrofit Pathways – “extended”
- Prescriptive Pathway - EEMs
- Announcements

DEEP ENERGY RETROFITS – GUIDING PRINCIPLES

- Pre-approved Alternative Compliance Pathway
- Designed to provide similar savings as multiple cycles of compliance
- Applications due at the same time as other pathways
- Each DER/ACP will have its own reporting, evaluation and enforcement requirements

DER/ACP TYPES

- **“Early Compliance”**
 - Incentivizing early completion of projects = savings realized sooner
 - Proposing compounded savings percentages
 - Performance and prescriptive options?
 - Open to any property type
- **“Extended Compliance”**
 - Designed to allow for projects not done within first cycle; to align with financing cycle or campus master plans.
 - To achieve deeper savings over the course of more than 1 cycle rather than 20% in consecutive cycles.
 - Proposed opening to Affordable Housing and College/University and Hospital “campuses”

“EXTENDED COMPLIANCE” - AFFORDABLE HOUSING

- Will allow buildings in this sector to **target deeper energy savings** beyond the base pathways with additional time to achieve savings target.
- Intended to be an **extension past** the three base compliance pathways so will be required to achieve more savings to have the extension
- Each building will be required to submit a **milestone plan** at the beginning of the compliance cycle and **milestone progress reports** at the end of each compliance cycle (with minimum requirements)
- Buildings **not on track** to meet their goal will be removed from the pathway and subject to aggregated penalties at that time. Any progress made will be counted towards reducing the penalty.

“EXTENDED COMPLIANCE” DER SAVINGS AND TIMELINE



Expected Savings	Timeline
Site EUI savings of 40%	2 cycles
Site EUI savings of 60%	3 cycles

PRESCRIPTIVE PATHWAY GUIDING PRINCIPLES

- Utilize industry-proven methods and tools as a framework to provide specific guidance to keep the owner on track and reach success.
- Ensure that requirements are obtainable, realistic, and cost effective.
- Drive innovation by incentivizing *deep* savings per measure while discouraging business-as-usual code-standard methods or technologies.
- Require robust reporting and verification to ensure accountability and transparency.
- Ensure that the program aligns with other District plans and initiatives.
- Address equity components across the BEPS program.

QUESTIONS FOR TODAY



- Retro-commissioning in the prescriptive path?
- Methodology for determining expected vs realized goal of prescriptive pathway and determining EEM values



RETRO-COMMISSIONING



- Savings range from 5 to 30%
- Difficult to verify, create reporting, and enforce
- DOE thoughts on retro-commissioning at “whole-building level” for the prescriptive pathway:
 - Mandatory measure - develop and implement a robust O&M plan (like retro-commissioning lite)
 - No percentage savings value

Not commissioning for a recently installed project

INDIVIDUAL EEM WEIGHTING EXAMPLES

Description and Savings	Office Lighting Retrofit	Switching from T-5's on timeclock in tenant spaces and 24/7 in common areas to LED; with occupancy and daylight sensors	2-6% expected savings
Reasons for differences	If occupants stay late on a regular basis	How well the daylight sensors are installed and calibrated	When cleaning staff are working and for how long
	If BMS properly accounts for off-times	If security makes regular rounds on each floor during off hours	If tenants/occupants overrode any of the sensors

Description and Savings	Retrofit Rooftop Unit	Convert constant volume system into variable flow system with demand control and economizer	22-90% normalized annual RTU energy consumption savings – 57% average
Reasons for differences	Volume settings on old unit	Existing controls vs. new	Size of existing RTU capacity vs. new

INDIVIDUAL EEM WEIGHTING

- If expected savings range is more than 5 points, should we offer the measure on the prescriptive path?
- Should there be outer limits to EEMs that have broad bandwidth with expected savings?
- What's the methodology for assigning a percentage value within the bandwidth that we find acceptable? Would we use the median as the value?



WEBINAR UPDATE

DOEE hosting a live [monthly webinar](#) to update the public on the progress of BEPS implementation.

<https://beps-monthly-webinar.eventbrite.com>

July 30
~~August 27~~
~~Sept 24~~
Oct 29
Dec 10

DOEE & DCRA: 2020 Green Building Professional Series @ 1:00 pm

- Getting Ready for BEPS – November 12, 2020
- New Building Codes – December 9, 2020
- Transportation Electrification – January 13, 2021
- Road to 100% Renewable Electricity – February 10, 2021
- Funding Clean Energy Projects – March 10, 2021

<https://www.eventbrite.com/e/2020-green-building-professional-seminar-series-tickets-121531625363>

OVERALL SCHEDULE



Future Agenda Items for Discussion/Feedback

- Prescriptive pathway EEMs
- Deeper Equity and Workforce Development discussion
- Non-DOEE policy gaps?

NEXT MEETING



October 27

- Canceling meeting and take a break

November 10, 2:30 – 4:30pm





ANNOUNCEMENTS

