



EEPS TECHNICAL WORKING GROUP

October 16, 2024
1:00 p.m. to 2:30 p.m.

Hawai'i Energy office at 45 N. King Street, Suite 500, Honolulu (with virtual option via Teams)

FALL 2024 TWG MEETING

REMINDERS

- Remote participants, please mute your lines when you aren't speaking – we'd like to keep the lines open so you can easily join the conversation
 - You may also use the “raise hand” or chat functions
- Please identify yourself and your organization when speaking
- We encourage participants to ask questions and contribute their constructive comments
 - Your silence during a discussion implies that you agree

COMMISSION WELCOME

AGENDA & INTRODUCTIONS

JENNIFER BARNES

ENERGY EFFICIENCY MANAGER TEAM

AGENDA

- 1:00 – Agenda & Introductions
- 1:05 – EEPS Extension Legislation Plan
- 1:35 – Building Performance Standards
- 1:55 – Update on Honolulu’s Benchmarking Program
- 2:10 – IRA Funding Update
- 2:20 – PBFA RFP Update
- 2:25 – Wrap up
- 2:30 – Adjourn



INTRODUCTIONS BY ORGANIZATION

EEPS EXTENSION LEGISLATION PLAN

JENNIFER BARNES

ENERGY EFFICIENCY MANAGER TEAM

FALL 2024 TWG MEETING

OBJECTIVES

- Develop a plan to support EEPS extension bill passing in 2025 Legislation Session
- Ensure that the legislation is clear and workable for the HPUC, HSEO, and other stakeholders

OBJECTIONS/ISSUES IDENTIFIED

Concern	Remedy
In the 2023 & 2024 legislative sessions, the EEPS bills did pass the conference committees	Work with leadership to get bills referred to the appropriate committees
Legislator concerns about “more aggressive strategies needed in future” statement	<p>Provide information pre-emptively to explain that more aggressive strategies may not require increased funding</p> <p>Ratepayers receive the benefits from EE spending through lower bills & decreased energy burden (maybe highlight economic benefits too)</p> <p>Develop 1-page fact sheet as a leave behind</p>
Concerns that EEPS extension will increase rates/energy burden	Meetings/fact sheet including information about the benefits of EE to all rate payers
Concern/perception that we are setting 2045 target and abandoning the 2030 target	Maintain 2030 target in legislation as an interim target
Concern that targets aren’t achievable	Meetings/fact sheet explains that targets are developed based on market potential

EEPS STRATEGY FOR 2025 LEGISLATIVE SESSION



Bill Content

Simplify/streamline the bill language to remove references to cumulative persisting savings & position the 2030 target as an interim target



Positioning

Remove roadblocks to bill passage. Educate legislators on the benefits of EEPS to head off concerns about attainability, cost of compliance & bill impacts.



Support

Convey the TWG and broad industry strong support of an EEPS extension through testimony & letters of support. Add new supporters to the strong support shown in past

NEXT STEPS

FALL 2024 TWG MEETING

-
- HPUC/EEM to recruit 1-2 parties to form an outreach committee to plan & conduct meetings with legislators
 - EEM to develop 1-page leave behind document
 - TWG members to work within their own organizations to secure commitment to supporting 2025 EEPS extension legislation, specifically:
 - Submitting letter of support/testimony
 - Joining the TWG letter of support

BUILDING PERFORMANCE STANDARDS

RON CHATTERJEE

HAWAI'I STATE ENERGY OFFICE

FALL 2024 TWG MEETING



Building Performance Standards

EEPS Technical Working Group Meeting

10/16/2024



The State of Building Performance Standards (BPS) in the U.S.

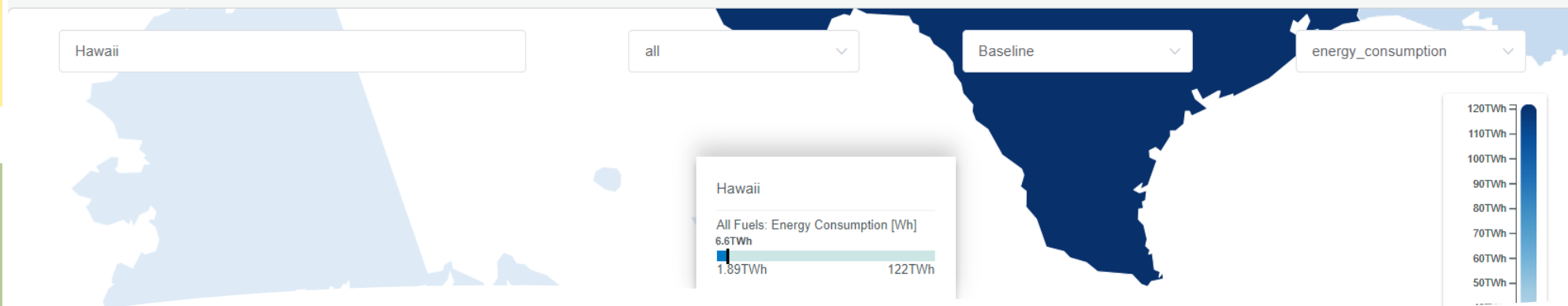
Members of the National BPS Coalition as of July 2024 (slightly outdated – several more locations now)



Why pursue a BPS in Hawai‘i?

- Hawai‘i Clean Energy goal - 100% Renewable by 2045
 - EEPS efficiency goal of 4,300 GWh demand reduction by 2030 (soon to be 6,000 GWh by 2045?)
- Hawai‘i Decarbonization goal - Net negative carbon emissions by 2045
- Robust new construction Energy Codes in place statewide
- BPS policies previously highlighted in **HSEO’s Decarbonization Pathways Report (2024)**
- BPS policies previously highlighted in **Honolulu Climate Change Commission Report**





Hawai'i BPS Energy Savings Potential

- Preliminary analysis via NREL's COMStock tool
- Expected upwards of 1,800 GWh energy savings via upgrades to Hawai'i's existing commercial building stock
- Equivalent to ~1.25 billion kg CO₂e (by 2022 EIA conv. factor)
 - Or ~300,000 gas powered vehicles annually

IRA Award for Hawai'i BPS Design & Implementation



SCEP
STATE & COMMUNITY ENERGY PROGRAMS



Hawai'i's proposal
selected for a \$18.1 mil
award

- Currently in negotiation
- 9-year long program
- Funding for design and implementation of policy – cannot fund projects



17/19 awards were for BPS related policies
(\$240 mil total)

U.S. Department of Energy (DOE)
Office of State and Community Energy Programs (SCEP)

Inflation Reduction Act of 2022 (IRA)
**Assistance for the Adoption of the Latest and Zero Building
Energy Codes**

Funding Opportunity Announcement (FOA) Number: DE-FOA-0003056

FOA Type: Initial

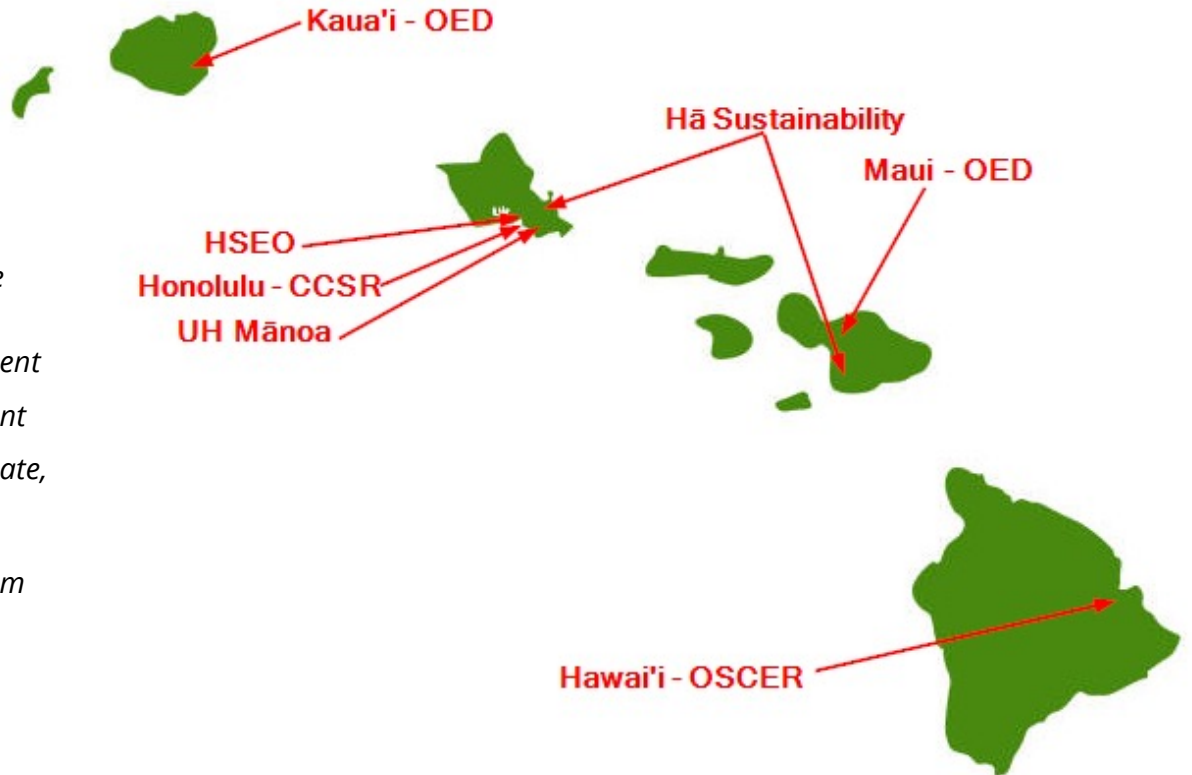
US DOE award selection statement: [Biden-Harris Administration Announces Over \\$240 Million for New and Innovative Building Codes](https://www.energy.gov/articles/biden-harris-administration-announces-over-240-million-new-and-innovative-building-codes)
<<https://www.energy.gov/articles/biden-harris-administration-announces-over-240-million-new-and-innovative-building-codes>>



**HAWAI'I
STATE
ENERGY
OFFICE**

Hawai'i BPS Project Team

- *Hawai'i State Energy Office*
- *City & County of Honolulu - Office of Climate Change, Sustainability and Resiliency*
- *Kaua'i County - Office of Economic Development*
- *Maui County - Office of Economic Development*
- *Hawai'i County - Office of Sustainability, Climate, Equity, and Resilience*
- *University of Hawai'i at Mānoa - School of Architecture and the Sea Grant College Program*
- *Hā Sustainability*
- *Touchstone IQ (mainland partner)*
- *Shums Coda Associates (mainland partner)*



Proposed BPS Implementation Staging



Phase 1 – Legislative Action & BPS Adoption (2025/2026)

- Create Technical & Community Engagement taskforces that will engage with stakeholders and develop the policy
 - ~ Taskforces include 1x Technical Personnel (funded by this grant) from each county sustainability office
- Create “Early Adopter Incentive Program” in consultation with the PUC
- Introduce bills/proposal in 2026 legislative session
- SBCC adopts statewide BPS policy



Phase 2 – Voluntary Compliance Period (2027-2030)

- Lasts till year-end 2030
- Launch Early Adopter Incentive Program lasting duration of voluntary period
- Require energy benchmarking during this period - expanding on Honolulu’s benchmarking program statewide
- Identify and execute model ‘Pilot Projects’ with Technical Assistance provided

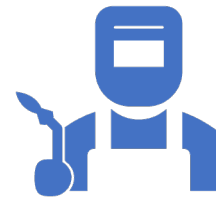
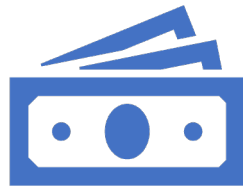


Phase 3 – Mandatory Compliance Period (2031 onwards)

- Staged compliance requirements per building size with largest buildings required to comply first
- MF buildings to be given additional time to comply
- EUI targets in ASHRAE Std. 100-2024 maybe amended based on analysis of benchmarking data from stage 2
- Include several alternate compliance pathways



High-level Funding Allocations



40% of total funding allocated to disadvantaged communities

- Education & outreach
- Technical Assistance for Equity Priority Buildings
- Alternate Compliance Pathways

Investments into workforce development

- Apprenticeship programs
- Tie-ins with HSEO's contractor training grants (TREC)
- County-level capacity building



Initial Building Types Targeted

Sector	Building Type Group	Building Type
Commercial	Food Service	Full Service Restaurant Quick Service Restaurant
	Mercantile	Retail Strip Mall Retail Standalone
	Office	Small Office Medium Office Large Office
	Education	Primary School Secondary School
	Healthcare	Outpatient Hospital
	Lodging	Small Hotel Large Hotel
	Warehouse and Storage	Warehouse
Residential	Multifamily	Multifamily

Targeted Commercial Buildings

**BPS TARGETS
ROUGHLY 25%
OF COMMERCIAL
STOCK**

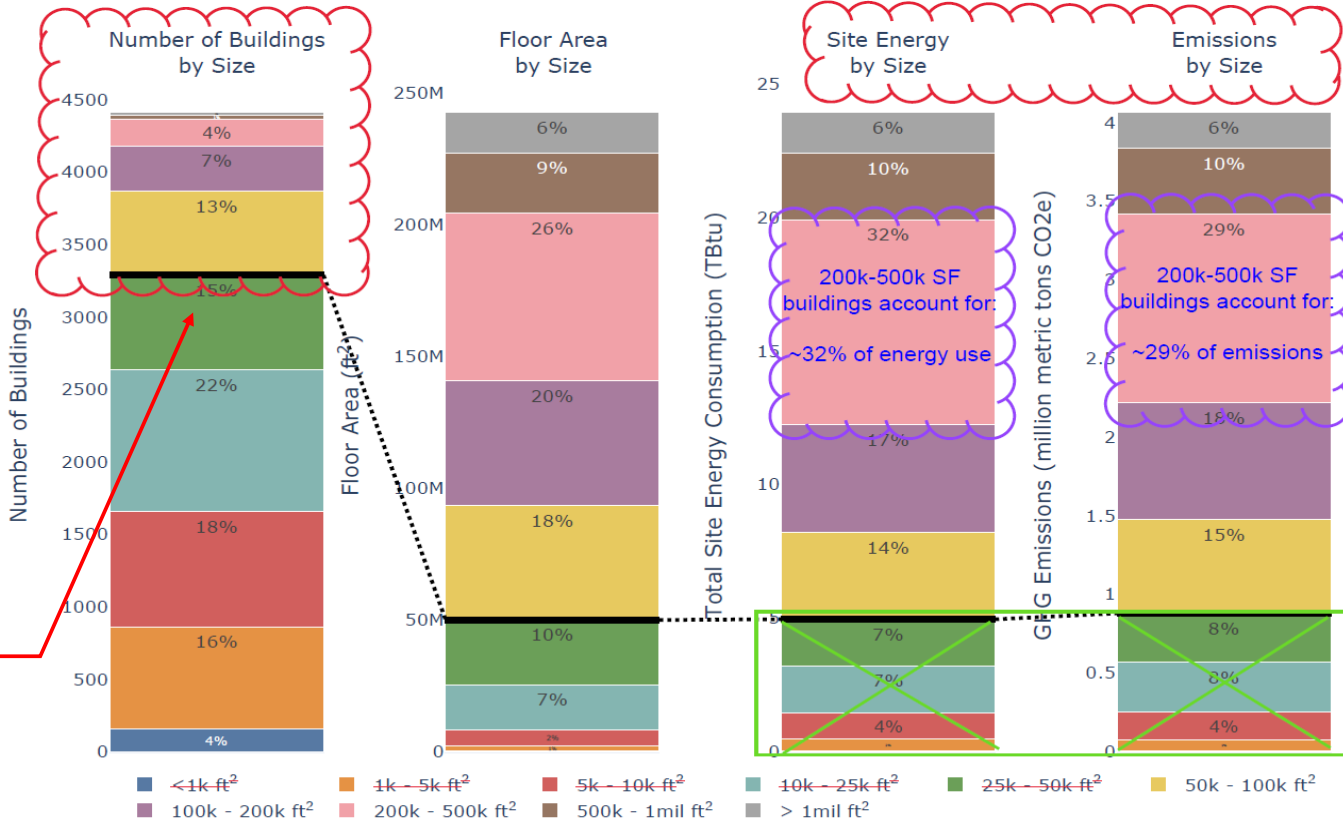


Figure 2. Building stock segmentation by building size. The black line indicates buildings above 50,000 square feet

Data Source: DOE/NREL <<https://www.nrel.gov/docs/fy23osti/86787.pdf>>

Commercial Stock – Energy

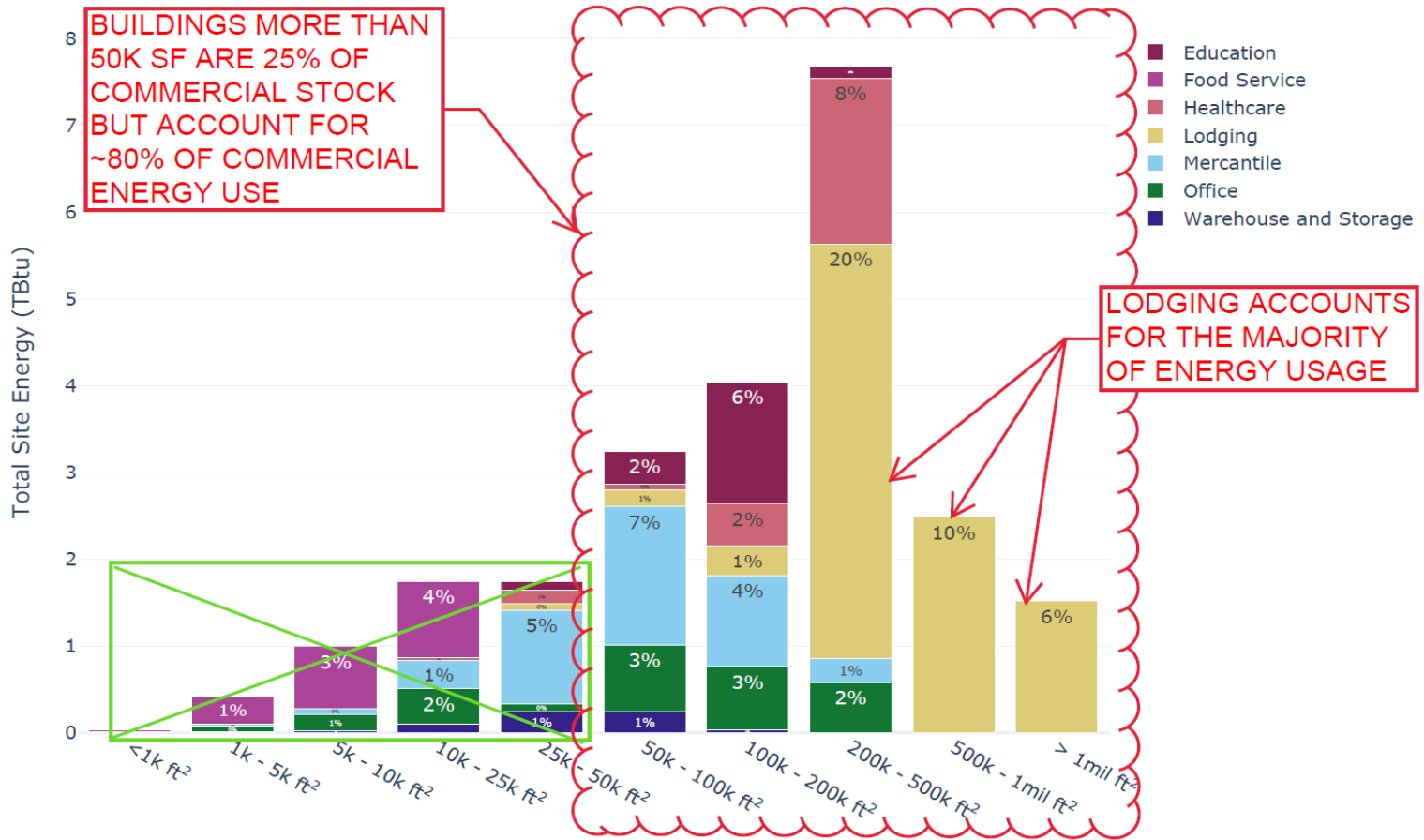


Figure 3. Site energy broken down by building type and size

Data Source: DOE/NREL <<https://www.nrel.gov/docs/fy23osti/86787.pdf>>

Commercial Stock - Emissions

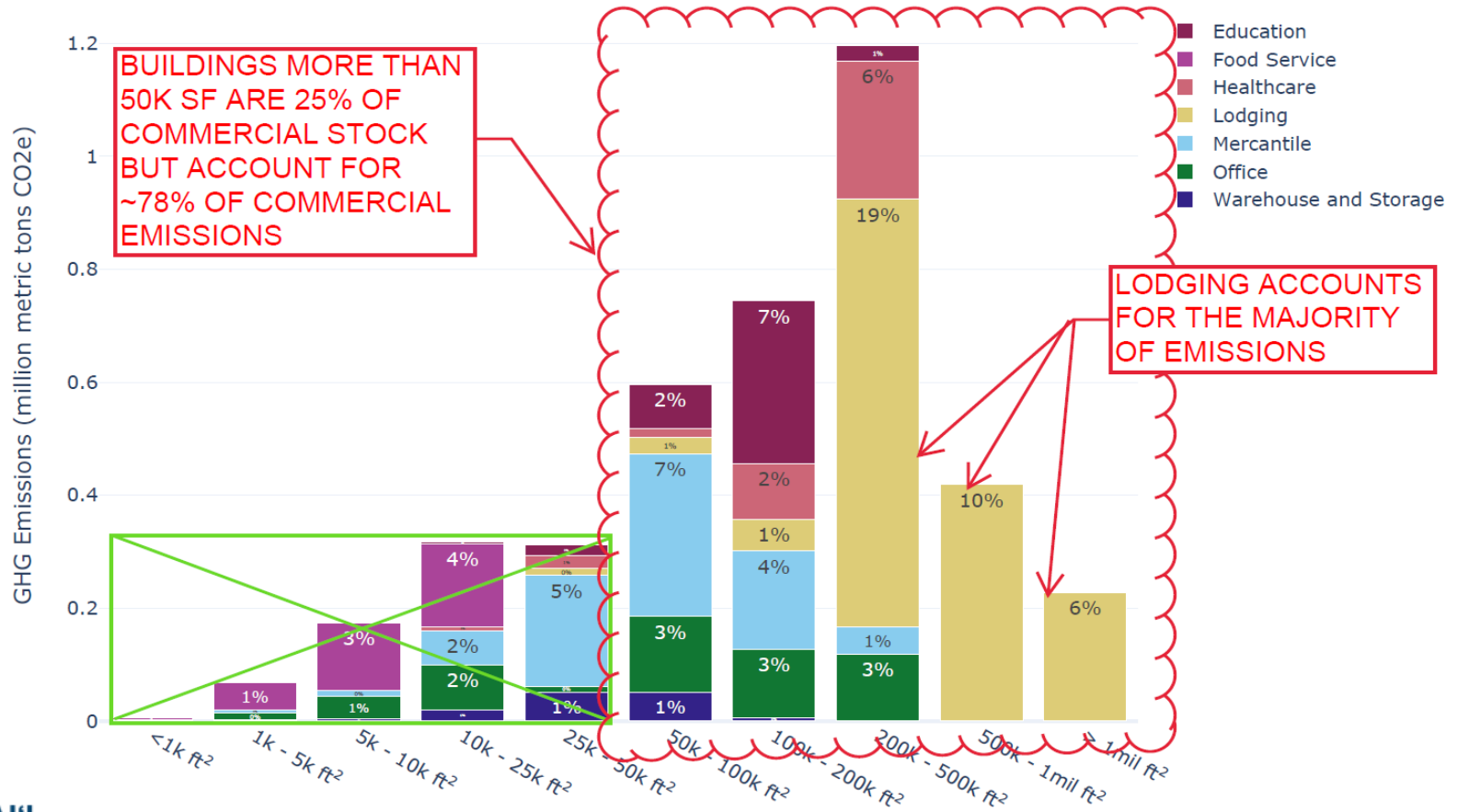


Figure 4. Greenhouse gas (GHG) emissions by building type and size

Data Source: DOE/NREL <<https://www.nrel.gov/docs/fy23osti/86787.pdf>>

Questions?

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Hawai'i State Energy Office

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UPDATE ON HONOLULU'S BENCHMARKING PROGRAM

MARISSA KUNSCH
CITY & COUNTY OF HONOLULU

FALL 2024 TWG MEETING

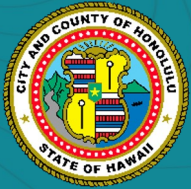


City and County of Honolulu

O'ahu Better Buildings Benchmarking Program

C&C / EEPS - 10.16.24





Benchmarking Implementation Timeline

The City implemented a benchmarking program requiring buildings of a certain size to benchmark and report their energy and water use annually.

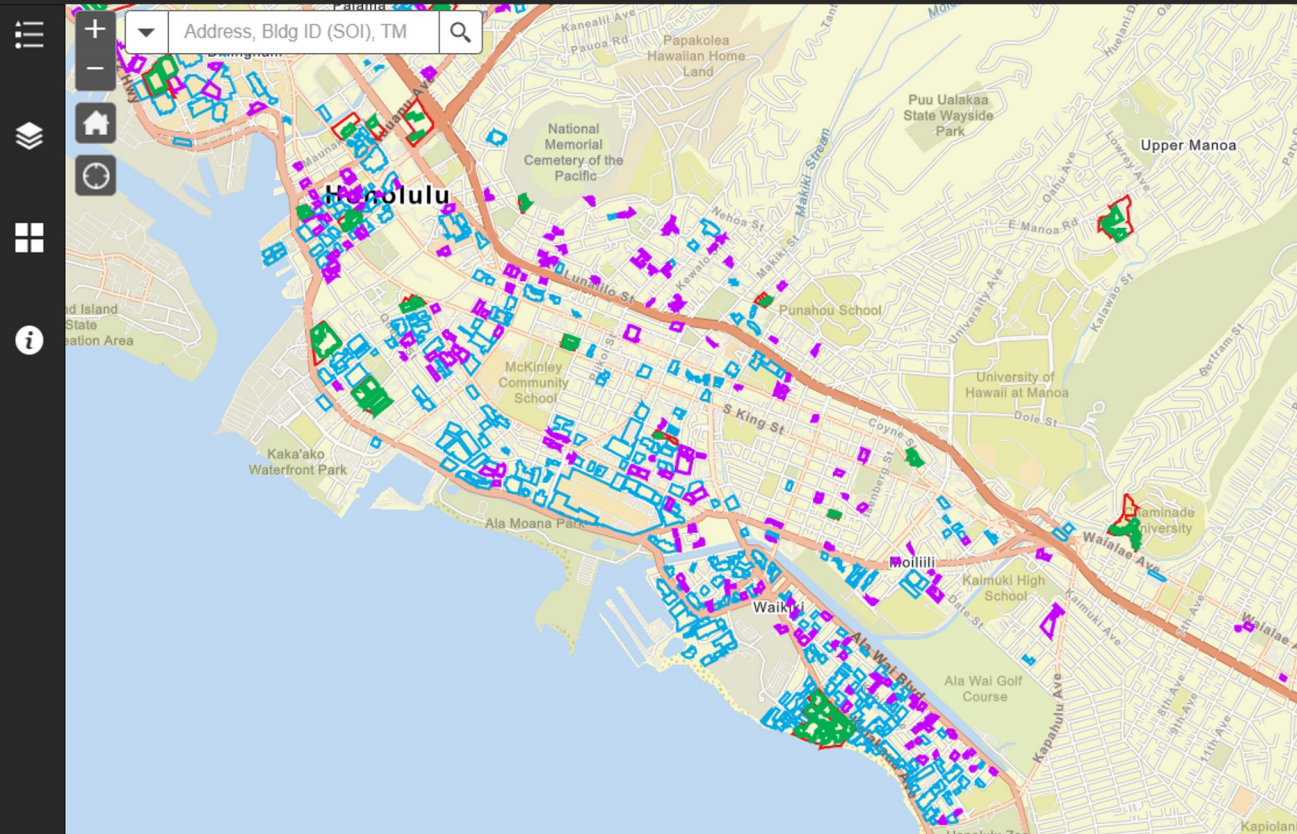
Building Sector	Building Size (sq ft.)	Benchmarking Timeline			
		Spring 2022	June 30, 2023	Sept. 30, 2024	June 30, 2025
City Buildings	≥10,000	Benchmark & Report			
Commercial & Multifamily Buildings	≥100,000		Benchmark & Report		
	≥50,000			Benchmark & Report	
	≥25,000				Benchmark & Report

Initial reporting deadlines shown above are phased in by building size, recurring annually on June 30th of each year.



Who needs to comply?

Better Buildings Benchmarking Search Tool City and County of Honolulu, CCSR



O'ahu Building ID

Check the **Covered Buildings List** for your building and unique O'ahu Building ID, and view your building in the **Interactive Building ID Map** below:

resilientoahu.org/benchmarking



How to Obtain Data:



Electricity:

- “Whole Building” electricity data via auto-utility upload: bbb.utility.touchstoneiq.com

Gas:

- Review your latest bills, or find your data in your online [Hawai'i Gas account](#)
- Aggregated “whole building” gas data: *if you have more than 3 commercial gas accounts*

Water:

- Monthly water data is available online via BWS’s WaterSmart Program at:
boardofwatersupply.com/watersmart
 - Review water bill with previous 12 month data
-



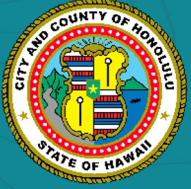
Send your Data to the City

Better Buildings Benchmarking

What do I need to do to comply?

1. Identify a lead contact to create and setup a free [EPA ENERGY STAR Portfolio Manager \(ESPM\) account](#) with building details and your assigned O'ahu Building ID.
2. Add your building's detailed property information and a year's worth of the previous year's calendar data for electric, gas, and water usage.

Go to the [Data Request Link for 2024 Benchmarking Compliance](#) to submit your response through your ESPM account (for January 1 - December 31, 2023). If your building is 100,000 sq ft or larger and you are late submitting your 2023 data request (for January 1 - December 31, 2022), [click here to submit your data](#) through your ESPM account.



Transparency Map



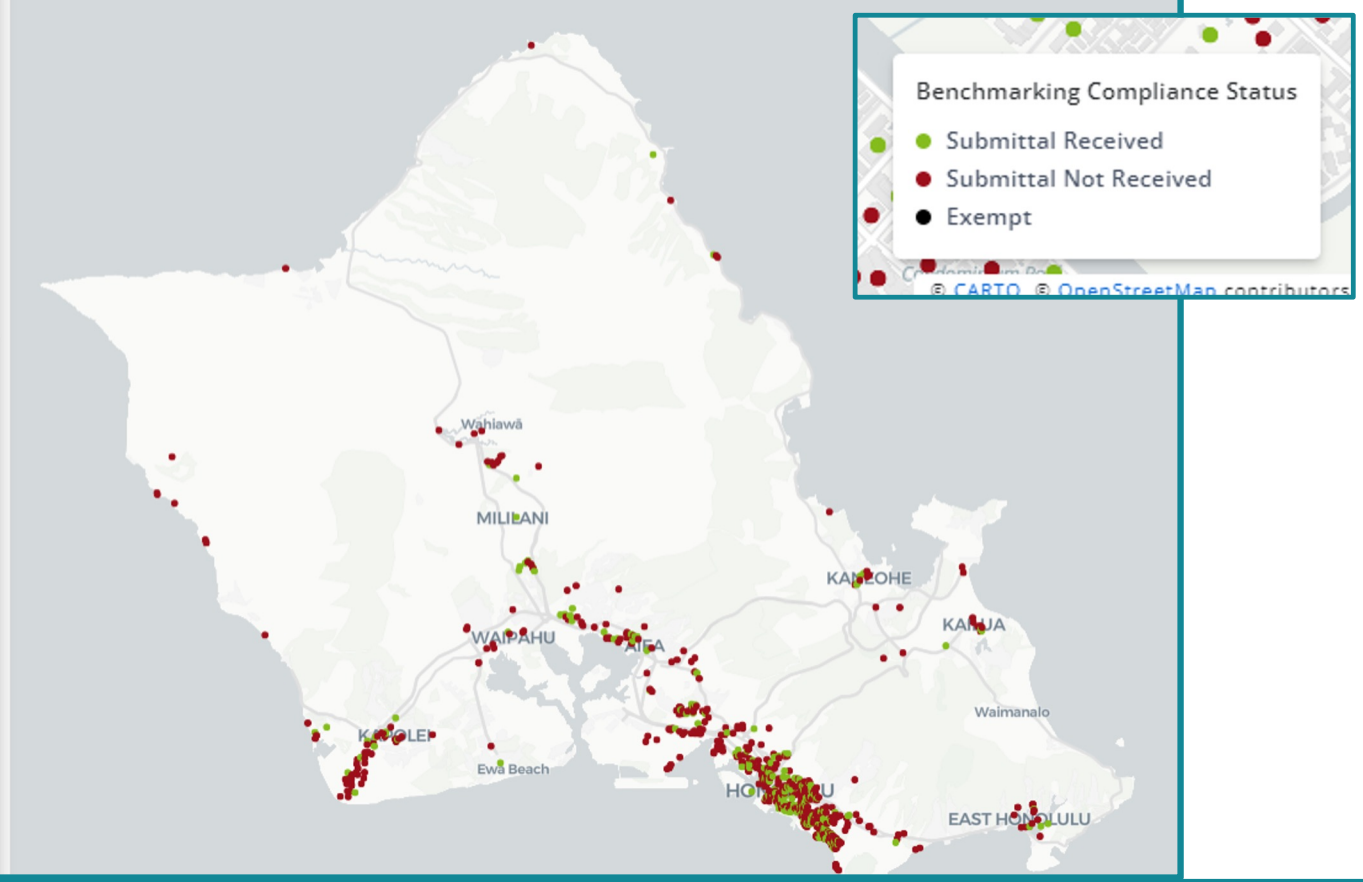
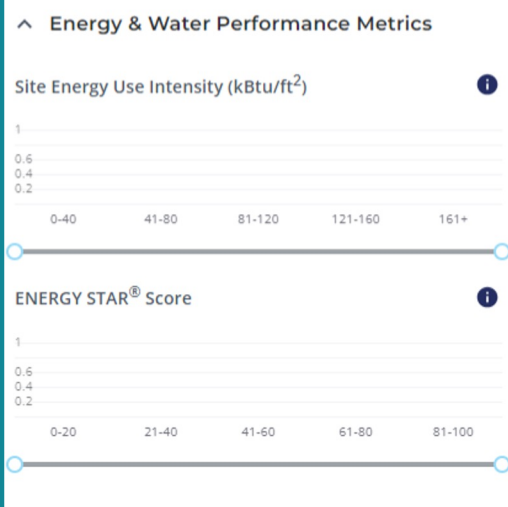
Search Address

Reporting Year
2024

Property Type
All Property Types

Map View
Benchmarking Compliance Status

[View Comparison](#) [Clear Filters](#)



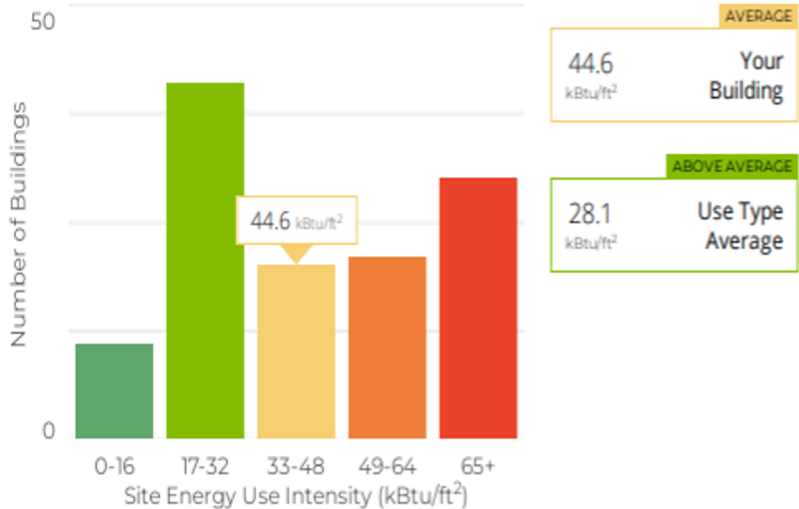


Building Performance Scorecards

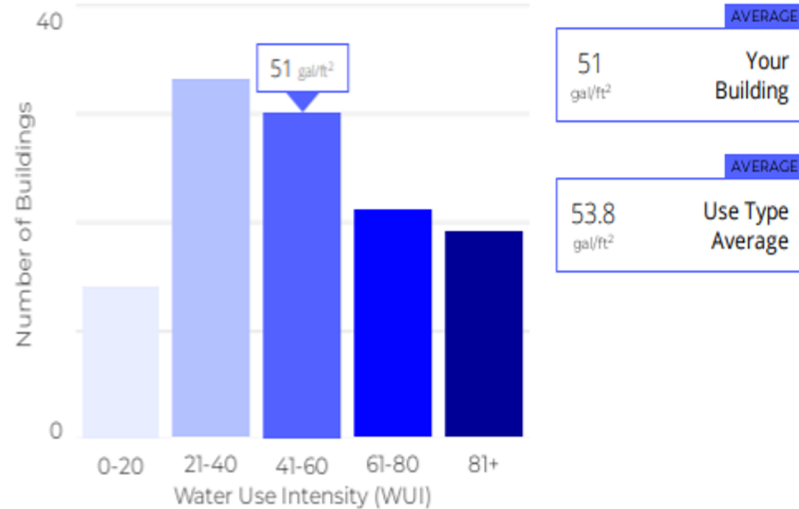
Timeframe: Jan. - Dec. 2022
 Building ID: [REDACTED]
 Gross Floor Area: 100,000
 Year Built: 2016

Local Comparisons - See how your building performs versus local buildings of the same type

Site Energy Use Intensity



Water Use Intensity



💰 18%

This building spends 18% more per sq. ft. than the average building of the same type.

💰 15%

If you were to improve energy performance by 15% you would save an estimated \$26,215!



Timeline



January - February

March - June

July - October

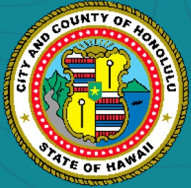
November - January

- Direct mailers go out to covered buildings list

- Reporting season officially opens!
- Trainings and outreach
- Reminder mailer (only first year)
- June 30 deadline

- (2) 60 Day Time Extensions available
- Non-Compliance Mailers
- Pending Revisions

- Transparency Map updated with reported building data
- Covered Buildings List updated and published



How can you get help with benchmarking?

1. Webpage: resilientoahu.org/benchmarking
1. Get started now with EPA Portfolio Manager [online trainings and resources](#)
1. Reach out to us to schedule a Help Desk session at: BBB@energy.honolulu.gov

The screenshot shows the Resilience Office website. At the top, there are logos for the City and County of Honolulu and the Resilience Office, with the text "Office of Climate Change, Sustainability and Resiliency". Below the logos is a navigation menu icon. The main content area features a large image of a building with the text "Better Buildings Benchmarking". Overlaid on this image are two blue informational cards. The top card is titled "FREQUENTLY ASKED QUESTIONS: BETTER BUILDINGS BENCHMARKING" and contains sections for "WHAT IS BUILDING BENCHMARKING?" and "WHO NEEDS TO COMPLY WITH ORDINANCE 22-17?". The bottom card is titled "BETTER BUILDINGS BENCHMARKING GUIDE" and is described as "A step by step guide to comply with the City and County of Honolulu's benchmarking ordinance".

Resilience Office
Office of Climate Change, Sustainability and Resiliency

Better Buildings Benchmarking

FREQUENTLY ASKED QUESTIONS: BETTER BUILDINGS BENCHMARKING

WHAT IS BUILDING BENCHMARKING?
Benchmarking means tracking a building's energy and water use over time. This allows owners and tenants to understand their building's energy and water use and identify opportunities to cut waste and save money.

WHO NEEDS TO COMPLY WITH ORDINANCE 22-17?
Covered buildings over 25,000 sq. ft., including commercial and multi-family buildings. To comply, buildings must collect and enter Electric, Gas, and Water data for the entire building for the previous calendar year into Energy Star portfolio Manager.

BETTER BUILDINGS BENCHMARKING GUIDE
A step by step guide to comply with the City and County of Honolulu's benchmarking ordinance

Get Started On Saving



Benchmarking Services



ENERGY STAR Service and Provider Partners

Find a Contractor 

Look them up:

----- OR -----

I am located on:

I have a:

I am looking for:

I am Interested in:

Search

Company Name:

State:

City:

Services Offered

- ENERGY STAR Services
 - ENERGY STAR benchmarking
 - ENERGY STAR commercial building certification
 - ENERGY STAR commercial new construction certification (Designed for ENERGY STAR)
 - ENERGY STAR industrial plant certification



hawaiienergy.my.site.com/VendorDirectory/s/

energystar.gov/buildings/save_energy_commercial_buildings/expert_help/find_spp/spp_partner_list



Mahalo!



Contact us!

Benchmarking Help Desk: BBB@energy.honolulu.gov

Office of Climate Change, Sustainability and Resiliency

resilientoahu.org/benchmarking

IRA FUNDING UPDATE

MICHAEL SCHWING

HAWAI'I STATE ENERGY OFFICE

FALL 2024 TWG MEETING

Hawai'i State Energy Office

Inflation Reduction Act Home Energy Rebates Program

10/16/2024

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Home Energy Rebates

IRA Section 50121 - Home Efficiency Rebate Program (HOMES)

- Existing single-family and multifamily buildings are eligible
- Retrofits to achieve significant energy savings
- Rebates available to individuals/aggregators that perform upgrades

IRA Section 50122 - Home Electrification and Appliance Rebate Program (HEAR)

- Entirely income qualified
- May cover up to 100% of total qualified project cost for households with a total annual income less than 80% Average Median Income (AMI)
- HI program will primarily support Energy Star certified heat pump water heater and heat pump split A/C installations.



Current Status

- ✓ HEAR Application (Approved June 2024)
- HEAR Blueprints (In progress)
- HOMES Application (In Progress)
- HOMES Blueprints (In Progress)
- Onboard Program Implementor (Est. Q4 2024)
- HEAR Program Launch (Est. Q1 2025)
- HOMES Program Launch (Est. Q2 2025)

Want to learn more?

- USDOE Home Energy Rebates Program
 - <https://www.energy.gov/scep/home-energy-rebates-programs>
- Hawai'i State Energy Office website:
 - <https://energy.hawaii.gov>
- My e-mail:
 - michael.d.schwing@hawaii.gov

PBFA RFP UPDATE

ASHLEY NORMAN
HAWAII PUBLIC UTILITIES
COMMISSION

FALL 2024 TWG MEETING

OVERVIEW

The Hawaii Public Utilities Commission released a request for proposals (RFP) to select a Public Benefits Fee Administrator (PBFA, aka "Hawai'i Energy"), which will implement the State's programs in service of the energy efficiency portfolio standard and related clean energy policies and objectives

- **SCOPE:** Administration of both the PBFA as well as the State's Electric Vehicle Charging Station (EVCS) rebate program (established in statute as HRS § 269-72 and § 269-73)
- **BUDGET:** Overall budget is \$130,000,000 and includes PBFA and EVCS administration, transition costs, and performance award
- **TERM:** begin on or about February 14, 2025 through March 31, 2029
 - Option to extend for one additional three-year period (or portion thereof)

PBFA RFP SCHEDULE

Activity	Scheduled Dates
RFP Released	Friday, September 20, 2024
Pre-proposal Conference (virtual)	Thursday, October 17, 2024
Written Questions Due	Monday, October 21, 2024
Responses Issued	Monday, October 28, 2024
Proposals Due	Friday, November 22, 2024
Discussions with Priority-listed Offerors	Tues. – Thurs. December 17-19, 2024
Best and Final Offers Due	Monday, January 13, 2025
Provider Selection and Award	On or around January 27, 2025
Contract Start Date	On or around February 14, 2025



NEXT STEPS & WRAP UP

JENNIFER BARNES

ENERGY EFFICIENCY MANAGER TEAM

QUESTIONS?

FALL 2024 TWG MEETING

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- Please contact Jennifer Barnes at 510-756-1501 or jenniferbarnes@2050partners.com.
 - Meeting materials will be posted on www.HawaiiEEPS.org