

BACKGROUND

Responsible Agency:

Washington State Department of Commerce

www.commerce.wa.gov/growingthe-economy/energy/buildings/

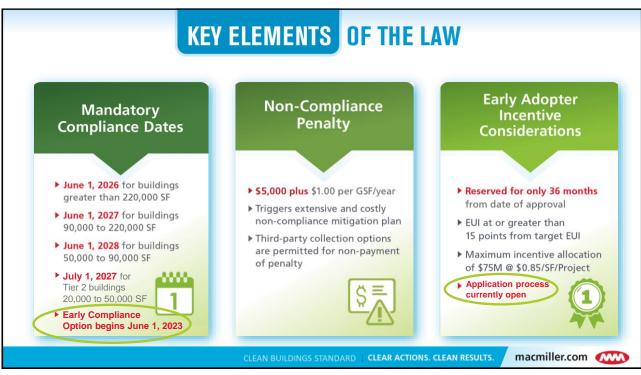
Energy Use Intensity (EUI) Defined:

Amount of a building's total energy consumed in one year per gross floor area (kBTU/SF/YR).

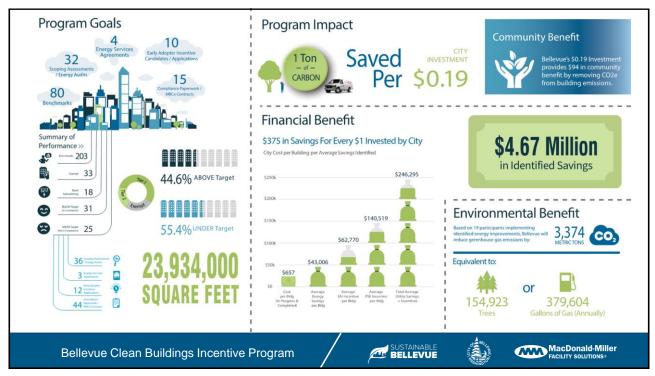
Lower EUI numbers use less energy than higher EUI numbers.

The Clean Buildings Standard rule-making order establishes a maximum acceptable EUI by building type.

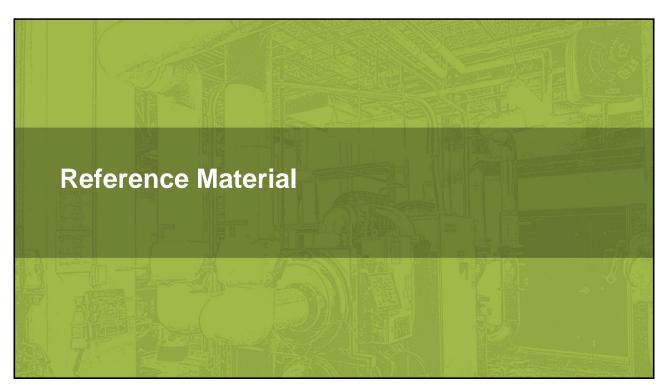








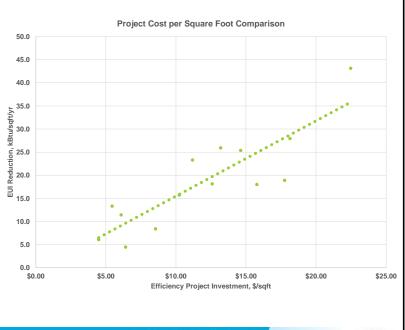






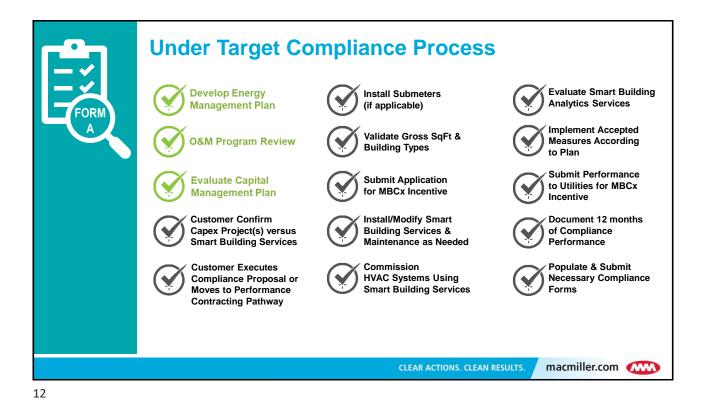
Cost to Reduce EUI

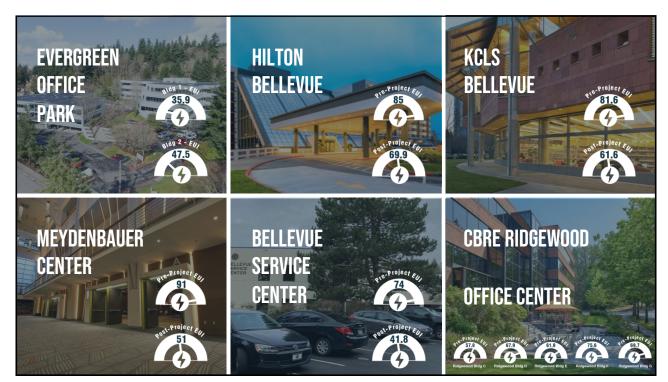
- Average of a sampling of commercial office, hospitality, and industrial office park buildings.
- Relationship between meeting the energy target and the project cost is linear across the building categories.
- Cost to achieve the emissions target is significantly dependent on the functional use of the space and primary heat source; electricity, natural gas, or district steam. A cost per square foot was not published due to these factors.
- Costs do not consider capital planning budgets, utility incentives, and other operational savings such as reduced R&M.



CLEAR ACTIONS. CLEAN RESULTS.

macmiller.com



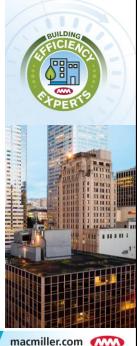


What is accounted for in the Gross Square Footage Calculation?

It is based on who the "Qualified person" is. It is up to them to calculate the GSF and state that is correct. My guess is that the arch is not counting GSF per the definition in Energy Star.

Measure the GFA between the <u>outside surface of the exterior walls</u> of the building(s). This includes all areas inside the building(s) including supporting areas. GFA is not the same as rentable space, but rather includes all area inside the building(s).

- Include in GFA: lobbies, tenant areas, common areas, meeting rooms, break rooms, atriums (count the base level only), restrooms, elevator shafts, stairwells, mechanical equipment areas, basements, storage rooms.
- Do not include in GFA: exterior spaces, balconies, patios, exterior loading docks, driveways, covered walkways, outdoor play courts (tennis, basketball, etc.), parking (How to enter parking?), the interstitial plenum space between floors (which house pipes and ventilation), crawl spaces



macmiller.com

CLEAN BUILDINGS STANDARD | CLEAR ACTIONS. CLEAN RESULTS.

14

Qualified Person Criteria

A person having training, expertise and three-years of professional experience in building energy-use analysis and any of the following:

- · Licensed professional architect or engineer
- · Building Operator Certification (BOC) Level II by Northwest Energy Efficiency Council
- Certified Commissioning Professional by an ANSI/ISO/IEC 17024 accredited organization
- Qualified Energy Auditor certified by ASHRAE or AEE
- · Certified Energy Manager (CEM) by Association of Energy Engineers
- Energy Management Professional (EMP) by Energy Management Association

Building Exemptions

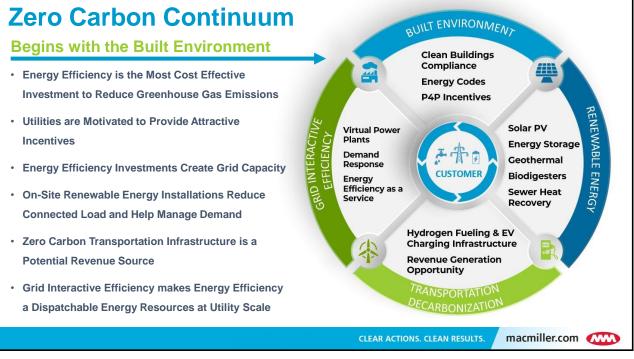
- · Federal buildings and buildings belonging exclusively to recognized Tribes
- Did not have a Certificate of Occupancy or Temporary Certificate Occupancy for all twelve months of the calendar year prior to the compliance date
- · Average physical occupancy less than 50% for the calendar year prior to the compliance date
- · Primary use of building is manufacturing or other industrial purposes
- An agricultural structure
- · Financial hardship:
 - $\circ~$ Listed on a city's or county's annual tax lien sale list
 - o Has a court appointed receiver
 - o Owned by a financial institution through default
 - o Acquired by foreclosure within the previous twenty-for months
 - o Senior mortgage subject to a notice of default
 - o Other conditions of financial hardship identified by a department ruling

Exemption requests accepted no sooner than 3-Years prior to Compliance Date.

CLEAN BUILDINGS STANDARD | CLEAR ACTIONS. CLEAN RESULTS.

macmiller.com





		Clean Buildings Performance Standards (CBPS)	Building Emissions Performance Standards (BEPS)	
Purpose		Energy Performance Standards	Greenhouse Gas Emissions Performance Standards	
Matrix		Energy Use Intensity (EUI)	Greenhouse Gas Intensity (GHGI)	
Units of Measure		KBTU/GSF/YEAR	KG CO2e/GSF/YEAR	
Reporting Tool		Seattle OSE Reporting Portal via ESPM	Seattle OSE Reporting Portal	
Compliance Intervals ¹				
>200,000		2026	2026 (2027 for 1 st interval) ^{3, 4}	
90,000-220,000		2027	2027 ^{3, 4}	
50,000-90,000		2028	2028 ^{3, 4}	
30,000-90,000		2027 ²	2029 ^{3, 4}	
20,000-30,000		2027 ²	2030 ^{3, 4}	
Footnote	es			
1	Repeats every 5-years.			
2	Tier 2 buildings required to report. Performance targets not established.			
3	Add 5-years	Add 5-years for multifamily compliance intervals.		
4	Achieve Net-Zero emissions by 4 th Interval (~20 years).			
			CLEAR ACTIONS, CLEAN RESULTS, macmiller.com	

	Clean Buildings Performance Standards (CBPS)	Building Emissions Performance Standards (BEPS)
Exemptions	1. Federal buildings and buildings belonging exclusively to recognized Tribes	1. All-electric buildings meeting CBPS requirements.
	2. Did not have a Certificate of Occupancy or Temporary Certificate Occupancy for all twelve months of the calendar year prior to the compliance date	2. Scheduled for demolishing within 3-years.
	 3. Financial hardship: Listed on a city's or county's annual tax lien sale list Has a court appointed receiver Owned by a financial institution through default Acquired by foreclosure within the previous twenty-for months Senior mortgage subject to a notice of default Other conditions of financial hardship identified by a department ruling 	 3. Until 3rd Compliance Interval, fossil fuel used for: Commercial cooking equipment High intensity process equipment in healthcare & laboratories High intensity laundry equipment in hospitality and healthcare
	4. Average physical occupancy less than 50% for the calendar year prior to the compliance date	4. Until 2 nd Compliance Interval, fossil fuel used for heating and permitted under the 2018 Seattle Energy Code.
	5. Primary use of building is manufacturing or other industrial purposes	
	6. An agricultural structure	
Alternative Compliance Options	Yes	Yes (Potential compliance path for district steam users.)
	CLEAN BUILDING STANDARDS	CLEAR ACTIONS, CLEAN RESULTS, macmiller.com



