



## Benchmarking instructions for buildings **with** an ENERGY STAR Portfolio Manager account

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Please note that due to unforeseen complications integration with ENERGY STAR is not yet complete. You will not be able to link your accounts. Please obtain your performance metrics directly from your [ENERGY STAR Portfolio Manager](#) account and transcribe your ENERGY STAR Score (if applicable), Energy Use Intensity (Weather-normalized for Site) and Water Use Intensity into the BOMA BEST Survey. Once this integration has been completed we will post a notification on the homepage of the BOMA BEST online portal. These instructions will then be updated. We apologize for this inconvenience.

### To get started

If you have never used the ENERGY STAR program before, a how-to guide is available [here](#). Many hints and tips provided in live time.

An FAQ on troubleshooting the ENERGY STAR system is available [here](#).

Note: In order to obtain a weather-normalized Site Energy Use Intensity value, meters must be created for each month (as opposed to a single meter representing consumption over 24 months). For water use intensity, only 12 months are required.

### How to find the values needed in the BOMA BEST questionnaire

These values will be (mostly) automatically generated in the BOMA BEST Online Portal once the integration is complete. For now, please follow these steps to find the performance values you need to complete your BOMA BEST questionnaire.

#### 1. ENERGY STAR Score (Office and eligible-Universal buildings only)

Once you have entered your energy consumption for 24 consecutive months and have specified that all meters created should be included in the energy metrics, you will see the ENERGY STAR Score on your building's Summary page. Enter this number in your BOMA BEST questionnaire when requested. If the building is not eligible, N/A will appear instead (this is expected).



MyPortfolio | Sharing | Reporting | Recognition

**BOMA Test Building**  
1 Dundas Street West Suite 1801, Toronto, ON M5G1Z3 | [Map It](#)  
Portfolio Manager Property ID: 5098492  
Year Built: 1994  
[Edit](#)

Not eligible to apply for ENERGY STAR Certification

**ENERGY STAR Score (1-100)**  
**Current Score: 67**  
Baseline Score: 100

Summary | Details | Energy | Water | Waste & Materials | Goals | Design

## 2. Weather-normalized Site Energy Use Intensity (EUI)

BOMA BEST uses Weather-Normalized Site Energy Use Intensity to assess energy consumption because this value allows a better comparison of buildings across the country since it normalizes for differences in weather. This value does not appear in the Metric Summary page of the building (as do Site EUI and Source EUI). It only appears in a specialized report. To generate the report:

- a. Click on the “Reporting” tab

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Charts & Graphs

Weather Normalized Site EUI  
How much energy would be reported on my bills, under average weather conditions?

- b. Click on “Create New Template”
- c. Complete the “Create a Report Template”.
- i. Name the report (e.g. “Weather-Normalized Site EUI”)
  - ii. For the timeframe, select “Compare Two Years”. Enter the last day of the readings you have entered and the date 12 months before that.

**2** Select Timeframe

Timeframe: \*

with

Each property must have 12 full months of data for metrics to be calculated. If metrics cannot be calculated, "N/A" will be displayed in your report. Pick the last day of the 12 month period that you want.

- iii. Select the property(ies) in question.



- iv. Click on “Select Information & Metrics”, select “Energy Performance Metrics” on the left and then “Weather-normalized Site EUI” from the list (**not** Weather-normalized **Source** EUI). Click “Apply Selections”.
- v. Save Template
- d. Returning to the Report page, find the template report you have just created. Under Action select “I want to generate new report”.

Templates & Reports (10) <span style="float: right;">Create a New Template</span>			
Name	Status	Action	
Weather Normalized Site EUI	Generated: 2/09/2017 2:06 PM	I want to... I want to... View Current Report Download Current Report in Excel Download Current Report in XML <b>Generate New Report</b> Edit this Template Share this Template Request Data using this Template Delete this Template I want to...	
Performance Highlights	No Report Generated		
Energy Performance	No Report Generated		
Emissions Performance	No Report Generated		
Water Performance	No Report Generated		

- e. The system will generate the report, now on the same report, select “I want to View current report”.
- f. You can now see your building’s Weather-Normalized Site EUI in kBtu/ft<sup>2</sup> (If you see N/A instead, consult [this page](#) for troubleshooting. Among other reasons, you must have entered your consumption in 24 separate entries, not in a single entry).
- g. The final step is to convert your Weather-Normalized Site EUI from kBtu/ft<sup>2</sup> into kWh/ft<sup>2</sup>. Simply enter your kBtu/ft<sup>2</sup> (“kiloBTU”) value in the calculator provided in the link to obtain the “kilowatt hour” value:  
<http://rapidtables.com/convert/energy/index.htm>
- h. The value obtained in kilowatt hour is your kWh/ft<sup>2</sup> value to be entered in the requested fields of the BOMA BEST questionnaire. This value will be automatically pulled to the BOMA BEST Online Portal once integration is complete.

### Energy Conversion

Energy conversion calculator - convert energy units.

kWh, Wh, MWh, BTU, kBTU, J, kJ, MJ, GJ conversion calculator

Enter the energy in one of the text boxes and press the *Convert* button:

Enter watt-hour:	<input type="text" value="23797.370897984!"/>	Wh	Convert
Enter kilowatt-hour:	<input type="text" value="23.797370898"/>	kWh	Convert
Enter megawatt-hour:	<input type="text" value="0.0237973709"/>	MWh	Convert
Enter BTU:	<input type="text" value="81200"/>	BTU <sub>IT</sub>	Convert
Enter kiloBTU:	<input type="text" value="81.2"/>	kBTU <sub>IT</sub>	Convert



### 3. Water Use Intensity (WUI)

Return to the Summary page for your building.

- a. In the Metric Summary table, find the entry for “Water Use (all water sources)”. This is the total consumption for your building over 12 months.

Metrics Summary		<a href="#">Change Time Period</a>	
Metric	Dec 2014 (Energy Baseline)	Dec 2015 (Energy Current)	Change
ENERGY STAR score (1-100)	100	67	-33(-33.0%)
Source EUI (kBtu/ft <sup>2</sup> )	30.9	146.5	115.6(374.1%)
Site EUI (kBtu/ft <sup>2</sup> )	36.7	174.2	137.5(374.7%)
Energy Cost (\$)	699,277.40	699,277.40	0.00(0.0%)
Total GHG Emissions (Metric Tons CO <sub>2</sub> e)	966.8	966.8	0.0(0.0%)
Water Use (All Water Sources) (kgal)	<a href="#">Not Available</a>	9,036,274.4	N/A
Total Waste (Disposed and Diverted) (Tons)	<a href="#">Not Available</a>	<a href="#">Not Available</a>	N/A

- b. This value is given in kgal. It must be converted into m<sup>3</sup>. Simply enter the value in the calculator on the following website to obtain the value in m<sup>3</sup>:  
<http://www.kylesconverter.com/volume/kilogallons-to-cubic-meters>
- c. This value must now be divided by your building’s gross floor area (GFA):  
Total water consumption (m<sup>3</sup>) / Gross Floor Area (m<sup>2</sup>) = WUI
  - i. If you entered your GFA in m<sup>2</sup>, divide your total consumption (in m<sup>3</sup>) by your GFA (in m<sup>2</sup>). This is your WUI in m<sup>3</sup>/ m<sup>2</sup>.
  - ii. If you entered your GFA in ft<sup>2</sup>, divide the value by 10.76 to obtain your GFA in m<sup>2</sup> (GFA in ft<sup>2</sup> / 10.76 = GFA in m<sup>2</sup>).
  - iii. Next divide your total consumption (in m<sup>3</sup>) by your GFA (in m<sup>2</sup>). This is your WUI in m<sup>3</sup>/ m<sup>2</sup>.
- d. Identify your WUI in the requested fields of the BOMA BEST questionnaire.