

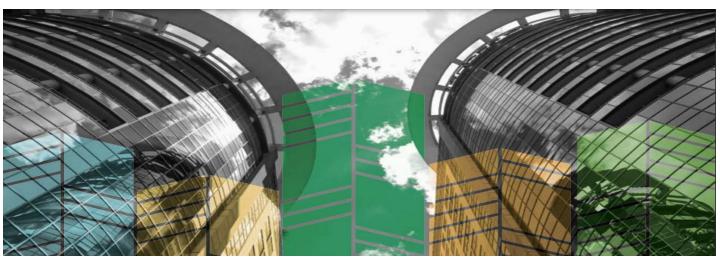
# Building Energy and Water Efficiency Strategy (BEWES) Compliance Guide

The Building Energy and Water Efficiency Strategy (BEWES) is intended to make the City of Orlando more environmentally friendly while improving the quality of life for city residents. This ordinance requires large buildings in the city to track and benchmark their energy consumption via the online tool, ENERGY STAR Portfolio Manager, and report this data to the City annually. The city has implemented a new platform, Building Energy Analysis Manager (BEAM), for managing building data and compliance, and to better communicate with building representatives. You will need to connect your property with BEAM via the Energy Star Portfolio Manager to submit your benchmarking report each year. The new process will make your submission automatic upon entering all required building data into Energy Star Portfolio Manager.

Building benchmarking, the act of measuring and tracking performance metrics, enables better decision-making through building performance data. Benchmarking programs create standardized metrics to measure the energy and water efficiency between similar buildings, just as miles-per-gallon (MPG) is used to compare efficiency between cars. This helps building owners gauge performance relative to others in the marketplace and allows the City to help local commercial and multifamily property owners to drive efficiency in building operations, save money for businesses and residents, and foster a cleaner and healthier environment.

#### Some benefits of benchmarking include:

- Building owners and managers can lower their operational costs.
- Buyers and tenants are able to make better-informed decisions about the buildings they live and work in.
- Policymakers can create more efficient fiscal policies and track progress of achieving sustainability goals.



#### **BEWES Compliance Checklist:**

- 1. Determine if you need to comply.
- 2. Add a property and input property details.
- 3. Enter your utility usage information.
- 4. Run the data quality checker.
- 5. Connect and share your property.
- 6. Share or update the benchmarking leader's contact information.

To learn more about the policy and review additional compliance resources, please visit our website <a href="mailto:orlando.gov/BuildingEfficiency">orlando.gov/BuildingEfficiency</a> .  This document is best used in PDF format to zoom into photos and access links and additional documents.				

# 1. Determine if you need to comply.

# Begin by determining whether your building(s) must comply.

Commercial or multifamily buildings above 50,000 square feet are required to have whole-building energy use tracked and reported annually. This information must be provided to the City each year to be made transparent to the real estate market via an annual report and transparency map.

Covered Buildings List with Orlando Building IDs

Exemption Request

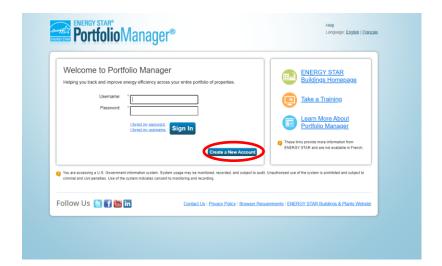
Once you have determined that your building is required to comply using the above links, identify a benchmarking leader within your organization.

# 2. Add a property and input property details.

EPA's ENERGY STAR Portfolio Manager (ESPM) tool helps measure and track the energy and water use, waste and materials, and greenhouse gas emissions of buildings, all in a secure, online environment. You can use the results to identify underperforming buildings, set investment priorities, verify efficiency improvements, and receive EPA recognition for superior energy performance.

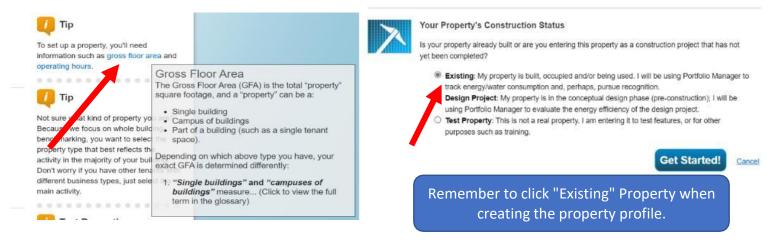
#### Create an Energy Star Portfolio Manager account and property profile(s).

To create your ESPM account, you will need to create a username and password, input basic information about your property, and provide your contact information. Once you have verified your account, select the "Add a property" button on your dashboard.



Portfolio Manager's Quick Start Guide

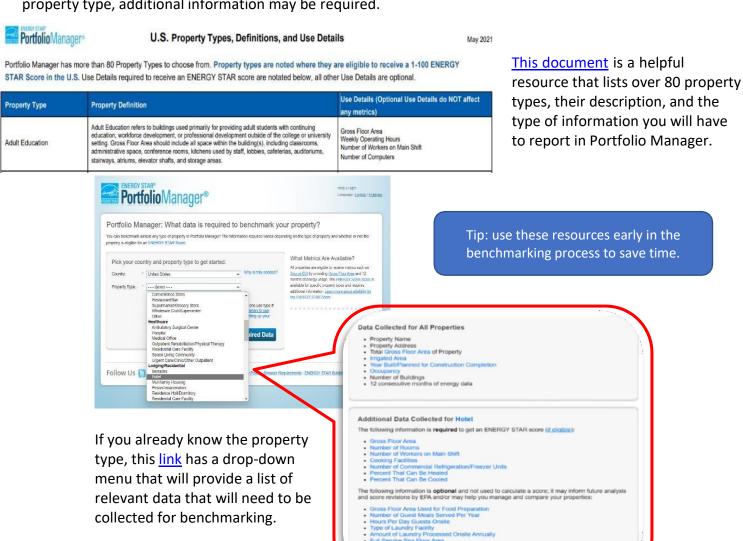
How do I determine my occupancy?



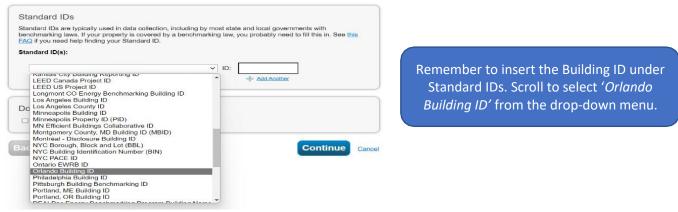
If you are confused on any words highlighted in blue, hover over to see the definition.

#### Enter property uses and details into profile(s).

When creating a property profile, you will be asked to report certain information. All properties are required to have property type, property name, property address, year built, gross floor area, occupancy level, number of buildings on property, and 12 consecutive months of energy consumption data entered. Depending on the property type, additional information may be required.

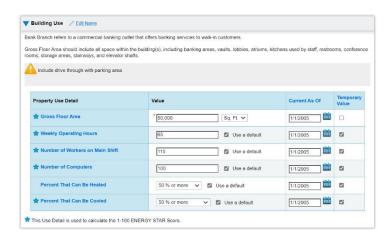


#### **Enter your Orlando Building ID**



Note: The Orlando Building ID and Energy Star Property ID are not the same. If you do not know your Orlando Building ID, please refer to the Covered Buildings List or contact us.

#### Ensure that the property use details entered are accurate; correct default or temporary values.



If you have selected the "Use a Default" and/or "Temporary Value" checkboxes, do not forget to input the correct values before submitting to ensure accuracy. Refer to page 7 in this guide for information on where to fix this before submitting.

# 3. Enter your utility usage information.

# Gather monthly whole-building energy and water\* data for the past year, from January 1st to December 31st and include all fuel types.

\*Note: It is strongly recommended that building water use is also benchmarked, in addition to electricity and natural gas use; however, water benchmarking is not required for compliance.

You can collect the energy consumption independently via your utility bills, or request whole-building energy consumption data from Duke Energy or OUC through their data aggregation services. This service is especially helpful if your building has multiple energy meters.

#### **Utility Service Providers**

OUC: commercialsvcs@ouc.com or 407.423.9018

Duke Energy: billhistory@duke-energy.com or 800.700.8744

TECO: mybusinessaccount@tecoenergy.com or 866.832.6249

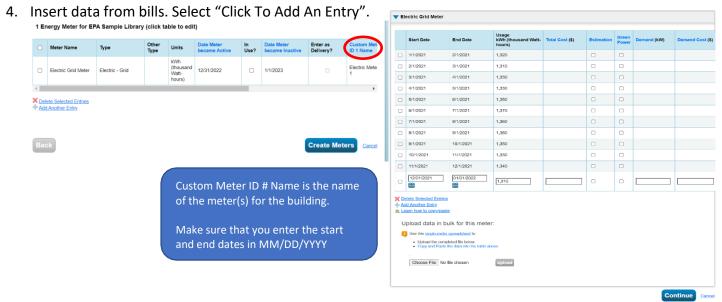
## Enter energy use data for all fuel types.

To add energy consumption to ESPM, go to the energy tab.

1. Click the blue link that says "Add a Meter"



- 2. Select the type of meter you have and then input the relevant information. Select "Get Started".
  - a. The most common type is Electric, but you can also benchmark Natural Gas, Propane, & more.
- 3. Select all relevant (active) meters. Insert needed information. Click "Create Meter".



You cannot insert billing information from before the meter was active. (ex., the meter became active on the 1<sup>st</sup> of January, but the first billing cycle begins December 31<sup>st</sup>).

When inputting meter values, the date it became "active" is when the meter was read for usage. It does not necessarily mean that you must put the date that the meter was installed, or the building was built. The date it became "inactive" is the day that the energy usage for the last month was last recorded, if applicable.

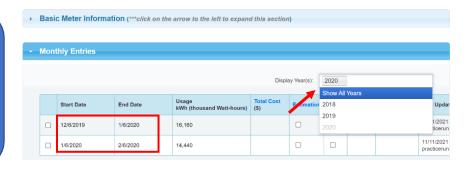
The start and end dates correspond to the billing cycle. You need to have at least 12 months (from January 1<sup>st</sup> to December 31<sup>st</sup>) of data to submit for each year. Most billing cycles do not align with the start and end of every month, so you may need to fill in gaps by including data from the prior December or following January. This is essential to compute energy efficiency metrics. Refer to the following image for an example.

Note: if you are using whole-building aggregated data from your utility provider, your start and end dates can be the 1st through the end date of each month.

To view all monthly entries, click the box next to "Display Year(s)" and select "Show All Years".

If the consumption from December 2019 was not entered, there would be data missing from 01/01/2020 to 01/05/2020. This is how you canresolve alerts pertaining to data gaps.

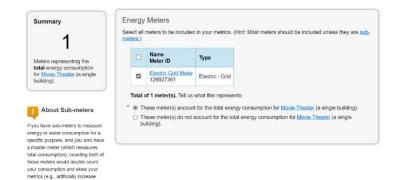
If you need to correct a mistake and/or update the meter information, go to the energy tab, scroll down to find the meter in question, then select the meter's name. Click the "Basic Meter Information" drop- down menu to edit.





After adding the monthly entries to your meter, you must select the meter(s) that will be used to configure the building's metrics. Under the Energy tab, scroll to the "Meters - Used to Compute Metrics" and click "Change Meter Selections".

Apply Selections Cancel

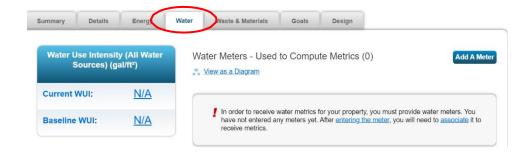


How to select meters to be included in metrics

From there, select the relevant meter(s) and whether they account for the total energy consumption for the building.

Note: Adding water meter information is relatively the same as adding an energy meter. While it is not required for compliance, we strongly encourage it as it provides more insight to your building's resource consumption and efficiency.

your Site Energy Use Intensity). Learn More about configuring meters for performance metrics.

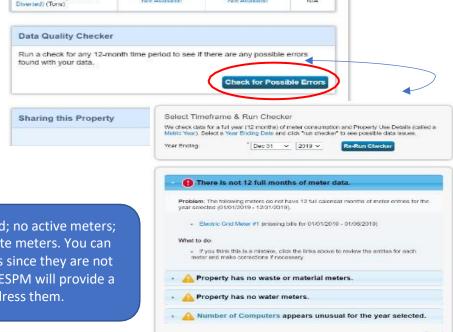


# 4. Run the data quality checker.

## Check for errors and resolve any data quality issues before reporting.

Run the data quality checker by clicking the "Check for Possible Errors" button towards the bottom of the Summary tab. Be sure to run the checker through December 31<sup>st</sup> of the year that you entered data for.

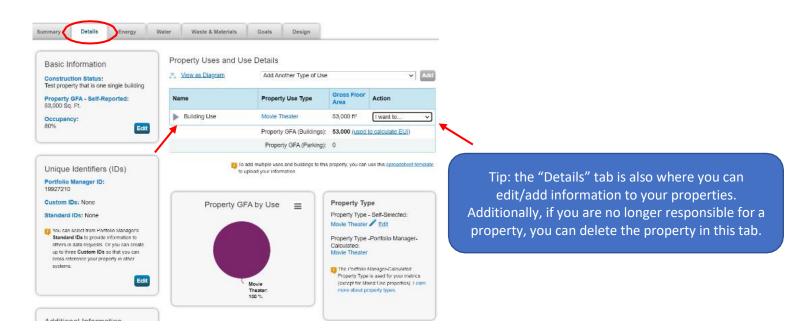
If there are any errors that need to be fixed, ESPM will guide you on how to resolve them.



Some common errors include: no meters selected; no active meters; temporary values used; and missing Water/Waste meters. You can disregard alerts for missing Water/Waste meters since they are not required for compliance. If there are any issues, ESPM will provide a direct link to the proper locations to address them.

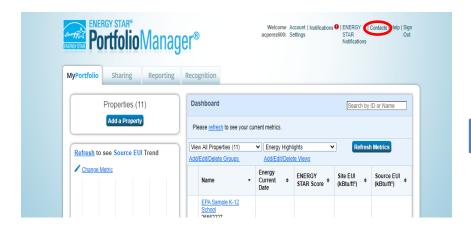
If you run the data checker and there is an error because there are no energy meters selected and/or no meter data, go to the Energy tab, then click "Change Meter Selection" under the additional meters section.

Note: The data quality checker will not be as accurate as possible without a complete 12 months of data.



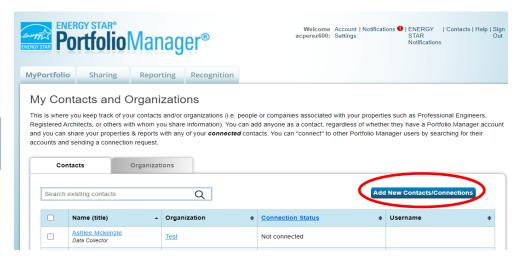
# 5. Connect and share your property.

If you have not added the City of Orlando as a contact on Energy Star Portfolio Manager you will need to do so before you can share your property. You can view your contacts by selecting "Contacts" on the upper right-hand corner of the main menu. If you have already added the City of Orlando as a contact, please skip to step 1 to share your property. If you do not have the City of Orlando as a contact, please see sections A-E.



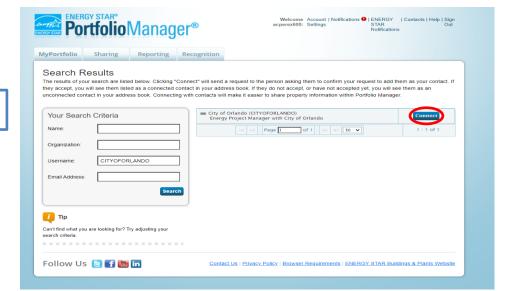
A. Click on "Contacts"

B. Select "Add New Contacts/Connections"





C. Under Username, please type "CITYOFORLANDO" in all caps and no space then click search

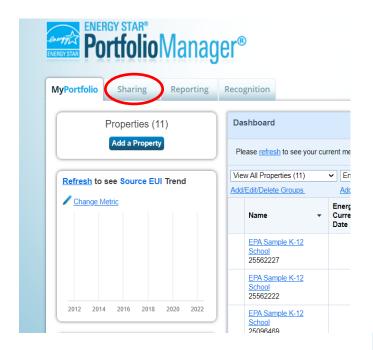


D. Click "Connect"



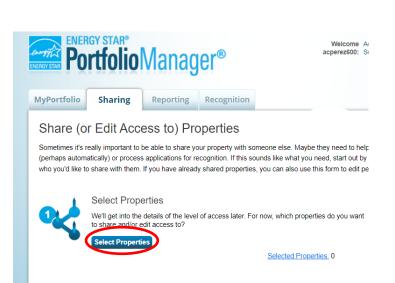
E. Select "I agree to my provider's (City of Orlando) Terms of Use. Then click "Send Connection Request"

Once you have connected, and are accepted as a contact by the City of Orlando you will then be able to see "City of Orlando" listed on the Share tab under Share (or Edit Access to a Property)



 Please open Portfolio Manager and go to the Sharing tab

2. Select Share (or Edit Access to) a Property in the upper left





3. Select the properties you want to share. Under select people (Accounts) select "City of Orlando"

- 4. Under Choose Permissions select Personalized Sharing & Exchange Data
- 5. Click Continue

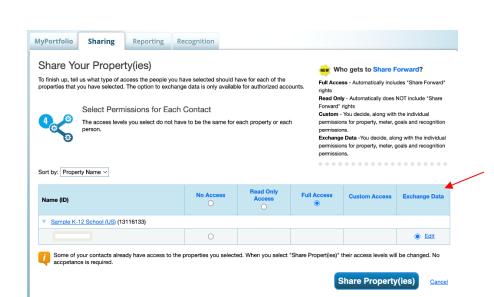


#### **Choose Permissions**

If you only need to choose one permission (because you are doing a single share or you want to give the same permissions for all of your shares), select "Bulk Sharing." If you need to assign different permissions, select the 2nd option.

- Bulk Sharing ("One-Size-Fits-All") I only need to choose one permission (either because I am doing a single share OR I want to choose the same permission for all of my share requests).
- Personalized Sharing & Exchange Data ("Custom Orders") I need to give different permissions for different share requests, and/or I need to give Exchange Data permission.





6. On the next screen, choose Exchange Data for each property.

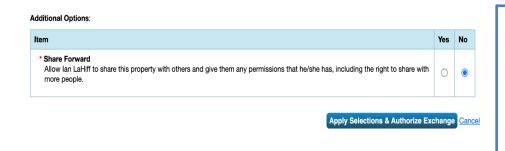
- 7. Select the Access Permissions as follows:
- a) Property Information: "Read Only Access"
- b) All Meter Information: "Read Only Access"
- c) Goals, Improvements: "Read Only Access"
  - d) Recognition: "None"

Select Access Permissions to <u>EPA Sample K-12 School</u> for <u>City of Orlando</u>. The following information is required by <u>City of Orlando</u> in order to provide service to your property(ies). If you have any questions about how to complete this information, please contact them directly.

Select the permission level below that you would like to grant <u>City of Orlando</u> for each category.

Item None Read Only Access <u>Full Access</u>

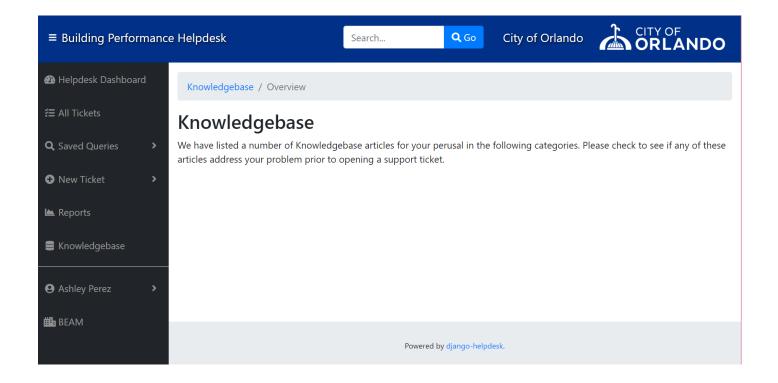
Item	None	Read Only Access	Full Access	
Property Information	0	•	0	
▼ All Meter Information				
▼ Energy Meters				
Electric Grid Meter	0	•	0	
Electric Solar Meter	0	•	0	
Natural Gas	0	•	0	
▼ Water Meters				
Potable: Mixed Indoor/Outdoor Meter	0	•	0	



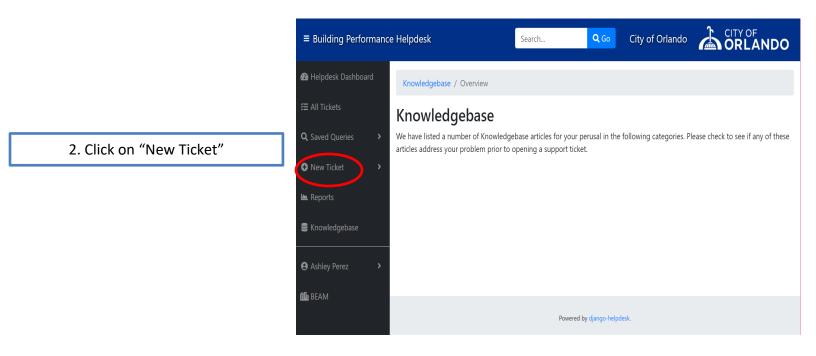
- 8. For Share Forward select "No"
- 9. Click Apply Selection & Authorize Exchange
- 10. Select Share Properties to finalize

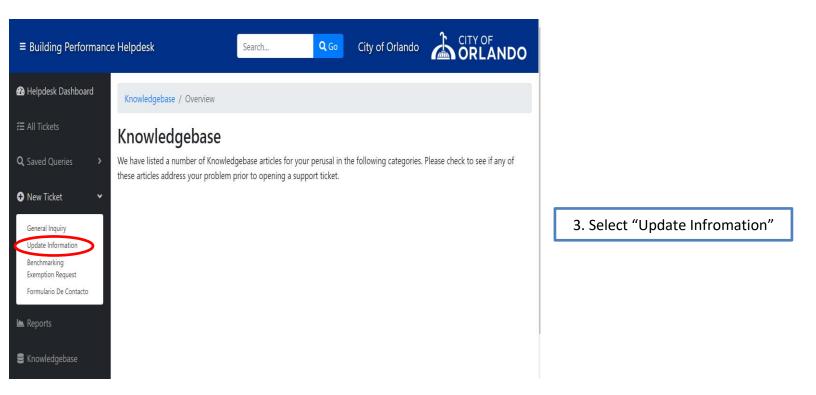
You will receive a confirmation email within an hour once the property share request has been accepted (note if you do not get an email, please check your "spam" or "junk" folder for it. If missing, contact the Help Desk).

# 6. Share or Update the Benchmarking Leader's Contact Information.



1. Share or update the benchmarking leader's contact information with us by completing the online contact form found on the <u>Knowledgebase</u> section of the Building Energy Analysis Manager (BEAM) platform.





# Still Have Questions? We Can Help!

If you have any additional questions that were not answered in this document, please refer to the <u>ENERGY STAR Training page</u> that has how-to videos, or contact our office at <u>buildingefficiency@orlando.gov</u>.