CITY OF ORLANDO

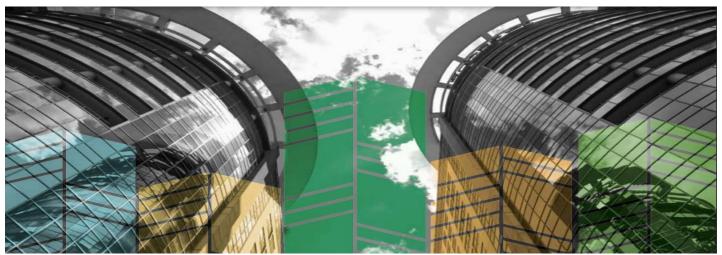
Building Energy and Water Efficiency Strategy (BEWES) Compliance Guide

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 intoEnergy 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 elative to others in the market place 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.
- Policy makers 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 orlando.gov/BuildingEfficiency.

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.

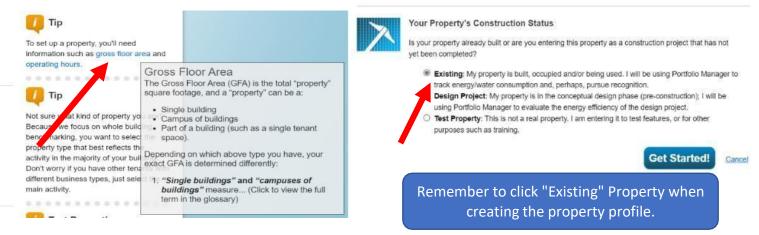
EPA's ENERGY STAR Portfolio Manager (ESPM) tool helps measure and track the energy and water use, waste and materials, and greenhouse gas emissions of buildings, all in a secure, online environment. You can use the results to identify underperforming buildings, set investment priorities, verify efficiency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

Welcome to Portfolio Manager Helping you track and improve energy efficiency across your entire portfolio of properties.	ENERGY STAR Buildings Homepage
Username: "[Take a Training
Password:	Earn More About Portfolio Manager
Lforool.mv.usemame. Sign In	These links provide more information from
Create a New Acco	ENERGY STAR and are not available in French.
You are accessing a U.S. Government information system. System usage may be monitored, recorded, and subje criminal and civil penalties. Use of the system indicates consent to monitoring and recording.	ct to audit. Unauthorized use of the system is prohibited and subject to
Follow Us 📴 🔐 🛅 in Contact Us Privacy Policy Brow	ser Requirements ENERGY STAR Buildings & Plants Website

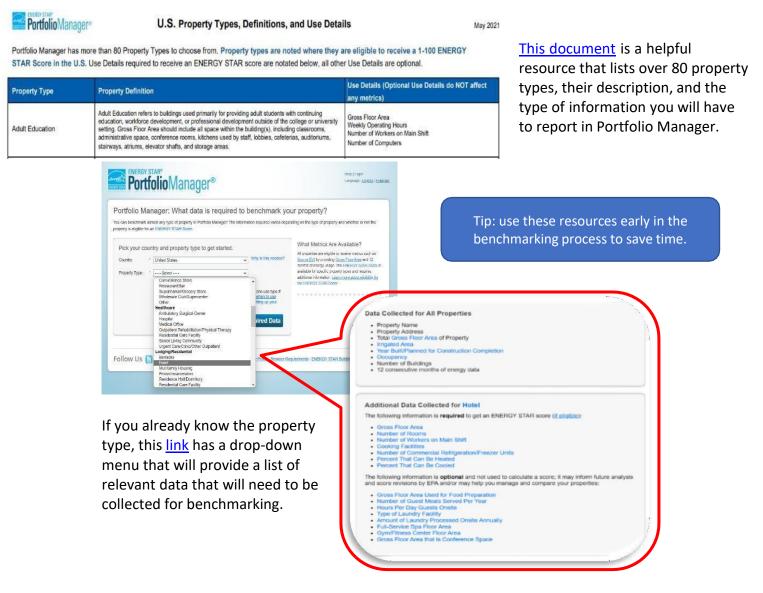
Portfolio Manager's Quick Start Guide How do I determine my occupancy?



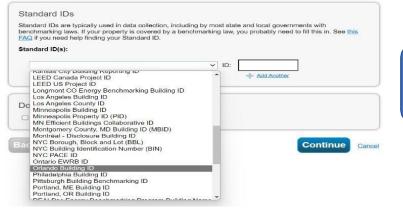
If you are confused on any words highlighted in blue, hover over to see the definition.

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



Remember to insert the Building ID under Standard IDs. Scroll to select 'Orlando Building ID' from the drop-down menu.

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 <u>Covered Buildings List</u> or contact us.

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

	that offers banking services to walk-in customers. e building(s), including banking areas, vaults, lobbies, atriums, kit	chens used by staff, restro	oms, confere
Include drive through with parking area			
Property Use Detail	Value	Current As Of	Temporar Value
Tross Floor Area	* 50,000 Sq. Ft. 🗸	1/1/2005	
* Weekly Operating Hours	65 Use a default	1/1/2005	
* Number of Workers on Main Shift	115 🛛 Use a default	1/1/2005	
* Number of Computers	100 Use a default	1/1/2005	
Percent That Can Be Heated	50 % or more 🗸 🖾 Use a default	1/1/2005	
Percent That Can Be Cooled	50 % or more V 🛛 Use a default	1/1/2005	5

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.

<u>Gather monthly whole-building energy and water* data for the past year, from January 1st to</u> 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.

TElectric Grid Meter

3. Select all relevant (active) meters. Insert needed information. Click "Create Meter".

4.	Insert data from bills. Select "Click To Add An Entry".
	1 Energy Meter for EPA Sample Library (click table to edit)

-	Meter Name	Туре	Other	Units	Date Meter	In	Date Meter	Enter as	Custom Met		Start Date	End Date	Usage kWh (thousand Watt- hours)	Total Cost (\$)	Estimation	Green Power	Demand (kW)	Demand Cost (
			Туре		became Active	Use?	became Inactive	Delivery?	ID 1 Name	0	1/1/2021	2/1/2021	1,320		0	0		
	Electric Grid Meter	Electric - Grid		kWh (thousand	12/31/2022		1/1/2023		Electric Mete	0	2/1/2021	3/1/2021	1,310		0	•		
				Watt- hours)					1		3/1/2021	4/1/2021	1,330			•		
l										0	4/1/2021	5/1/2021	1,330		0			
	ete Selected Entries									0	5/1/2021	6/1/2021	1,350		0			
ld	Another Entry									0	6/1/2021	7/1/2021	1,370		0	0		
											7/1/2021	8/1/2021	1,360		•			
											8/1/2021	9/1/2021	1,380		0	•		
	ĸ							Create M	eters <u>Cancel</u>		9/1/2021	10/1/2021	1,350			0		
									_	0	10/1/2021	11/1/2021	1,330		0	0		
										•	11/1/2021	12/1/2021	1,340		0			
				Cus	tom Met	er ID	# Name i	s the n	ame	0	12/01/2021	01/01/2022	1,310		0	0		
				oftl	he meter	(s) fo	or the buil	ding.		+ 4	ciete Selected Ent dd Another Entry sam how to copy/p							
							ou enter t MM/DD/\		t		Use this <u>single m</u> Use this single m	bulk for this met ter spreadsheet to: impleted file below to the data into the table						
											Choose File	vo file chosen	Upload					

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

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 1st to December 31st) 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 can resolve alerts pertaining to data gaps.

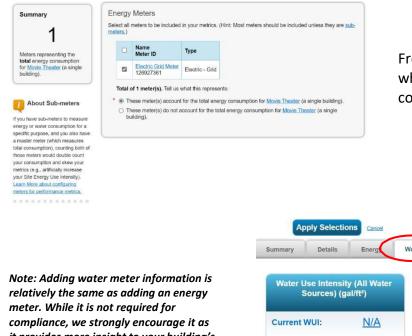
Basic Meter Information (***click on the arrow to the left to expand this section)

Mont	thly Entries								
				Displa	ay Year(s):	2020		-	
_					1	Show All	Years		
	Start Date	End Date	Usage kWh (thousand Watt-hours)	Total Cost (\$)	Fumation				Upda
	12/6/2019	1/6/2020	16,160			2019 2020			1/2021 ticerun
	1/6/2020	2/6/2020	14,440						1/2021 ticerun

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.

Name:	* Electric Grid Meter	X Delete Meter
Meter ID:	126927361	
Type:	Electric - Grid Need to change?	
Units:	* kWh (thousand Watt-hours)	
Date Meter became Active:	* 01/01/2021	
Date Meter became Inactive:		
Is this an Aggregate Meter?:	No ○ Yes	
Custom Meter IDs	None 🔶 Add Acothor Custom Mater ID	

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".



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

it provides more insight to your building's resource consumption and efficiency.

Summary	Details	Energ	Water	Waste & Materials	Goals	Design	
	se Intensity ources) (ga	/ (All Water Il/ft²)		ater Meters - Used View as a Diagram	to Compu	te Metrics (0)	Add A Meter
Current V	vu:	<u>N/A</u>					
Baseline	WUI:	<u>N/A</u>					provide water meters. You bu will need to <u>associate</u> it to

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 31st 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 temporary values used; and missing Water/Wast disregard alerts for missing Water/Waste meters required for compliance. If there are any issues, E

data quality checker by clicking the for Possible Errors" button towards	Total Waste (Disposed and Diverted) (Tons)	Not Available	Not Available	N/A	
com of the Summary tab. Be sure to	Data Quality Checker				
checker through December 31 st of [•] that you entered data for.	Run a check for any 12-mor found with your data.	ith time period to see if	there are any possible Check for Poss		
are any errors that need to be		Colect Tie	reframe & Run Check		
SPM will guide you on how to them.	Sharing this Property	We check dat	a for a full year (12 months) o Select a Year Ending Date an	f meter consumption and Pr d click "run checker" to see (
		- O T	here is not 12 full mor	ths of meter data.	
			1: The following meters do not ected (01/01/2019 - 12/31/201		is of motor entries for the
ommon errors include: no meters selecte ary values used; and missing Water/Was rd alerts for missing Water/Waste meter	ste meters. You can	What to	Becolic Grid Meter #1 (missing do: / you think this is a mistake, c ar and make corrections if ne	ick the links above to review	
for compliance. If there are any issues,	ESPM will provide a	P	roperty has no waste	or material meters.	
direct link to the proper locations to add	dress them.	P 📥 P	roperty has no water i	meters.	

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.

Basic Information	Property Uses and U	Use Details			
Construction Status: Test property that is one single building	. Mew as Diagram	Add Another Type of Use	•	✓ Add	
roperty GFA - Self-Reported: 3,000 Sq. Ft.	Name	Property Use Type	Gross Floor Area	Action	
ccupancy:	Building Use	Movie Theater	53,000 ft?	l want to ~	
D% Edit	1	Property GFA (Buildings)	53,000 <u>(used</u>	i to calculate EUI)	
		Property GFA (Parking)	: 0		
Inique Identifiers (IDs) ortfolio Manager ID: 9927210		to upload your information			Tip: the "Details" tab is also where you ca edit/add information to your properties
ustom IDs: None) (Property Ty		edit/add information to your properties
tandard IDs: None	Property C	GFA by Use 🔳		- Self-Selected:	Additionally, if you are no longer responsible
You can select from Portfolio Manager's			Movie Theater	r 🖊 Edit	property, you can delete the property in this
Standard IDs to provide information to			Property Type Calculated: Movie Theater	-Portfolio Manager-	property, you can delete the property in the
others in data requests. Or you can create up to three Custom IDs so that you can					
				Managor-Calculated e is used for your metrics	

Cancel

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.

Properties (11)	Dashboard		Search by ID or N	lame			
Add a Property	Please refresh to see your curre	ent metrics.			A. Click on '	"Contacts"	,
Refresh to see Source EUI Trend	View All Properties (11) Add/Edit/Delete Groups	Energy Highlin Add/Edit/Delet		cs	A. click off	contacts	
Change Metric	Name 🔻 🕯	Energy Current ¢ Date	ENERGY STAR Score Site EUI (kBtu/ft ⁻) • Source (kBtu/ft ⁻)	rce EVI 🔶			
		RENT STAR	energy star [®] PortfolioMa	anager®	Welcome Acce acperez600: Setti	ings S	ENERGY Contacts Help S TAR Notifications
		MyPortfo	olio Sharing Rej	porting Recognition			
		My Co	ontacts and Orga	inizations			
	ons"	This is where the Registered and you car	ere you keep track of your conta d Architects, or others with who	acts and/or organizations (i.e m you share information). You orts with any of your connect e	people or companies associated with u can add anyone as a contact, regardi add contacts. You can "connect" to other	ess of whether they have	ave a Portfolio Manager acco
	ons"	This is where the Registered and you categoria accounts a	ere you keep track of your cont d Architects, or others with whor an share your properties & repo and sending a connection reque	acts and/or organizations (i.e m you share information). You orts with any of your connect e	I can add anyone as a contact, regardl	ess of whether they have	ave a Portfolio Manager acco
	ons"	This is where the registered and you can accounts a	ere you keep track of your cont d Architects, or others with whor an share your properties & repo and sending a connection reque	acts and/or organizations (i.e m you share information). You orts with any of your connect est.	I can add anyone as a contact, regardl	ess of whether they hi r Portfolio Manager us	ave a Portfolio Manager acco
	ons"	This is where the registered and you can accounts a	ere you keep track of your cont. d Architects, or others with whor an share your properties & repo and sending a connection reque Contacts Organ ch existing contacts Name (title)	acts and/or organizations (i.e m you share information). You rts with any of your connect sst.	I can add anyone as a contact, regardl	ess of whether they hi r Portfolio Manager us	ave a Portfolio Manager acco ers by searching for their
3. Select "Add New Contacts/Connectio	ons"	This is which Registered and you car accounts a	ere you keep track of your cont. d Architects, or others with whor an share your properties & repo and sending a connection reque Contacts Organ ch existing contacts	acts and/or organizations (i.e m you share information). You rts with any of your <i>connect</i> sst. izations	u can add anyone as a contact, regardl of contacts. You can "connect" to other	ess of whether they have a construction of the second seco	ave a Portfolio Manager acco ers by searching for their phacets/Connections
Contacts/Connection	Recognition to see if the contact you would like they will be cotted to your contacts.	This is wh Registered and you ci accounts a Sear Sear C C Sear C C Sear C C Sear C C Sear C C Sear C C Sear C C Sear C C Sear Sear Sear Sear Sear Sear Sear Sear	ere you keep track of your cont. d Architects, or others with whor an share your properties & repo and sending a connection reque Contacts Organ ch existing contacts Name (title) Ashiee Mckenzie Data Collector Contact S Collector Contact S Collector	acts and/or organizations (I e m you share information). You rts with any of your connects isst. izations Q Organization Test tacts Help Sign Out person, send a nave a Portfolio	C. Under Userna C. Under Userna C. Under Large Contact	Add New Co Add New Co Userna Ume, pleas DO" in all c	e type
Contacts/Connectio	Recognition to see if the contact you would like they will be cotted to your contacts.	This is wh Registered and you ci accounts a Sear Sear C C Sear C C Sear C C Sear C C Sear C C Sear C C Sear C C Sear C C Sear Sear Sear Sear Sear Sear Sear Sear	ere you keep track of your cont d Architects, or others with whor an share your properties & repo and sending a connection reque Contacts Organi ch existing contacts Name (title) Ashiee Mckenzie Data Collector	acts and/or organizations (i.e m you share information). You with with any of your connector st. izations C Organization Test acts Help Sign Out out of the state of the state of the state of the state of the state of th	Connection Status Connected Connected Connected	Add New Co Add New Co Userna Ume, pleas DO" in all c	e type

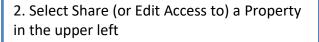
City of Orlando · Mayor's Office of Sustainability and Resilience · 400 South Orange Avenue · Orlando, FL 32801 orlando.gov/BuildingEfficiency · buildingefficiency@orlando.gov

Bee City of Orlando (CITYOFORLANDO) Image: State of the second of th
Confact Us Privacy Policy Browser Requirements ENERGY STAR Buildings & Plants Website
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)

AyPortfolio Sharing Reporting	Recognition				
Properties (11)	Dashboard				
Add a Property	Please refresh to see your curre	nt m			
Refresh to see Source EUI Trend	View All Properties (11)] [E			
	Add/Edit/Delete Groups				
Change Metric	Name 🔫 🕻	Ener Curr Date			
	EPA Sample K-12 School 25562227				
	EPA Sample K-12 School 25562222				
2012 2014 2016 2018 2020 2022	EPA Sample K-12 School 25096469				

1. Please open Portfolio Manager and go to the Sharing tab





Sometimes it's really important to be able to share your property with someone else. Maybe they need to help (perhaps automatically) or process applications for recognition. If this sounds like what you need, start out by who you'd like to share with them. If you have already shared properties, you can also use this form to edit pe

Select Properties

We'll get into the details of the level of access later. For now, which properties do you want to share and/or edit access to?

Selected Properties: 0



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



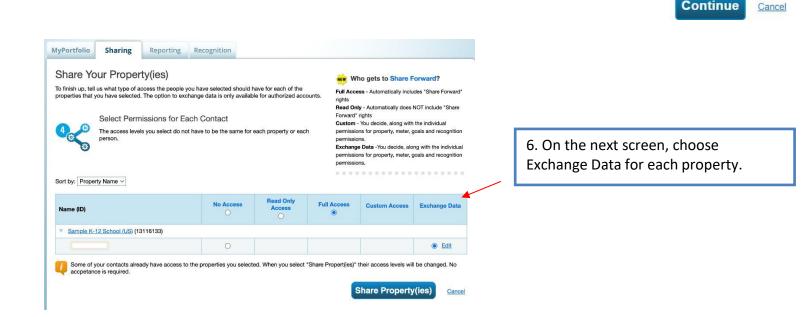
Choose Permissions

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.

O 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.

Continue



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 EPA Sample K-12 School for City of Orlando. The following information is required by City of Orlando in order to provide service to your property(les). 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 City of Orlando for each category.

Item	None	Read Only Access	Full Access
Property Information	0	۲	0
All Meter Information			
T Energy Meters			
Electric Grid Meter	0	۲	0
Electric Solar Meter	0	۲	0
Natural Gas	0	۲	0
Vater Meters			
Potable: Mixed Indoor/Outdoor Meter	0	۲	0

em	Yes	No
 Share Forward Allow Ian LaHiff to share this property with others and give them any permissions that he/she has, including the right to share with more people. 	she has, including the right to share with	۲

8. For Share Forward select "No"

9. Click Apply Selection & Authorize Exchange

10. Select Share Properties to finalize

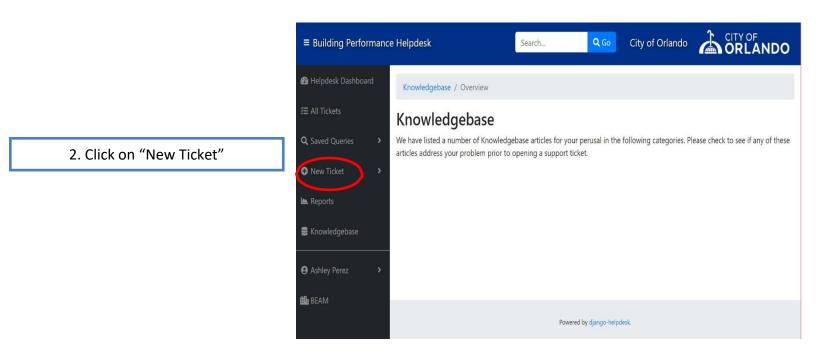
You will receive a confirmation email within an hour once the property share request has been accepted (note if you do not get an email, please check your "spam" or "junk" folder for it. If missing, contact the Help Desk).

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

■ Building Performance	e Helpdesk	Search	Q Go	City of Orlando	
🖚 Helpdesk Dashboard	Knowledgebase / Overview				
₩ All Tickets	Knowledgebase				
Q Saved Queries	We have listed a number of Knowledg articles address your problem prior to			following categories. Pl	ease check to see if any of these
 New Ticket 					
🖿 Reports					
🛢 Knowledgebase					
Ashley Perez					
ша веам		Powered b	y django-helpdi	esk.	

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.

City of Orlando · Mayor's Office of Sustainability and Resilience · 400 South Orange Avenue · Orlando, FL 32801 <u>orlando.gov/BuildingEfficiency</u> · <u>buildingefficiency@orlando.gov</u>



≡ Building Performanc	e Helpdesk	Search	Q Go City of Orla	ndo 🜈	
🔁 Helpdesk Dashboard	Knowledgebase / Overview				
Æ All Tickets	Knowledgebase				
Q Saved Queries	We have listed a number of Knowled these articles address your problem			ories. Pleas	e check to see if any of
🕀 New Ticket 🛛 🗸					
General Inquiry Update Information					
Benchmarking Exemption Request					
Formulario De Contacto					
陆 Reports					
Knowledgebase					

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</u> <u>STAR Training page</u> that has how-to videos, or contact our office at <u>buildingefficiency@orlando.gov</u>.