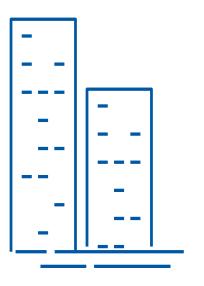


Abby Finis Great Plains Institute <u>afinis@gpisd.net</u> Katie Jones CEE kjones@mncee.org

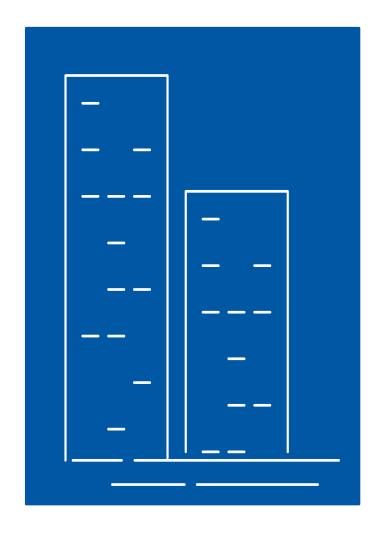


#### **Presentation Overview**

- 1. Efficient Buildings Collaborative
- 2. Building Benchmarking
- 3. City programs



# **Efficient Buildings Collaborative**



- Standardized process
- Shared resources
- Tools for implementation
- Economically feasible
- Basic uniformity across cities benefits building owners

### Who is Involved?

Vetted / organized data made public

Help center, quality control & data management







Oversee program and engage cities









**Pass** ordinance & benchmark buildings









### What's the Process?

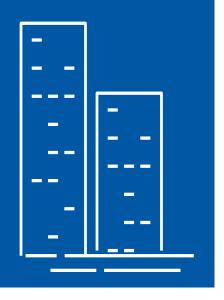


### Policy and Implementation Development

# Three workshops to create high-level plans for promoting a benchmarking policy in cities focusing on:

- 1. Policy framework development
- 2. Building stakeholder engagement
- 3. City operations needs

Facilitated by the Center for Energy and Environment and the Great Plains Institute.

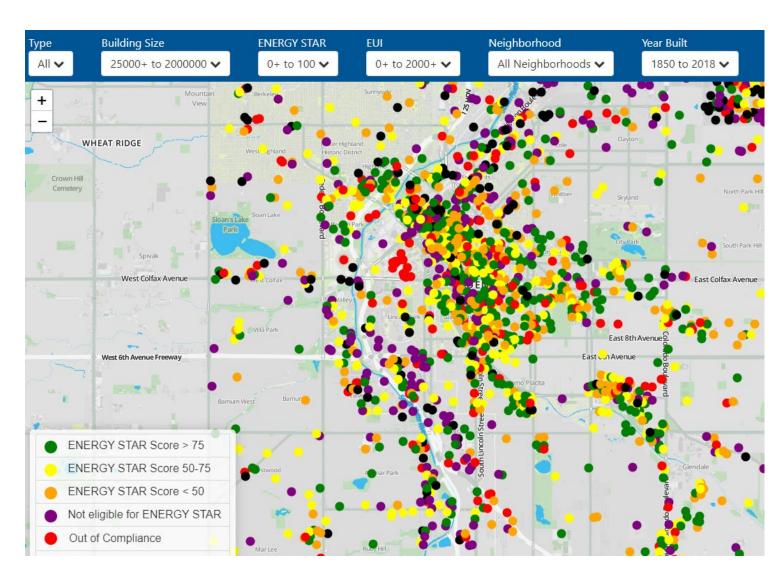


# **Program Implementation**

### Overlay Consulting to provide:

- Building list development
- Training
- Submission processing including quality control
- Enforcement processing
- Reporting

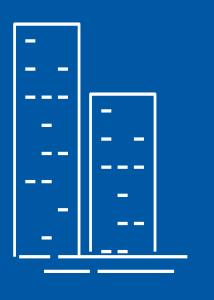
City to oversee general program management





# **Program Benefits**

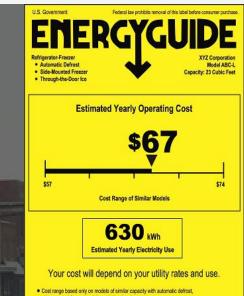
- Advice and guidance on policy development and implementation
- Technical assistance for building owners
- Quality assurance for building energy benchmarking data
- Shared, countywide GIS mapping tool to display benchmarking data



### What is Benchmarking?

- You can't manage what you don't measure
- We measure many aspects of our daily lives
- There's great opportunity to save energy, but we can only know through better management





### What is Benchmarking?



- Electricity
- Gas
- Steam
- Water





- Area
- Туре
- Schedules
- Occupancy



Energy Use Intensity (EUI)

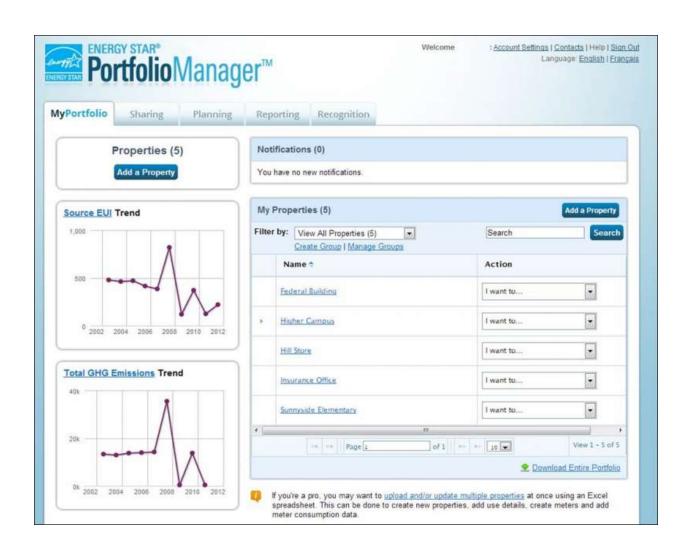
kBtu/sqft/yr

ENERGY STAR Score (1-100)



### Transparency

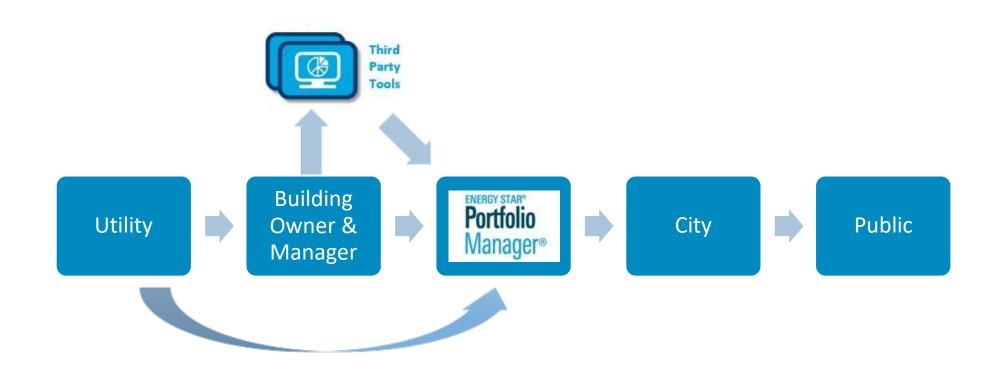
- Buildings benchmark and disclose to the City via Portfolio Manager
  - A few hours for initial set-up (depends on data organization status)
  - Couple hours/year on-going
- City discloses the data publicly = market transparency
- Large commercial buildings and multi-family, does not include industrial





U.S. City, County, and State Policies for Existing Buildings: Benchmarking, Transparency, and Beyond Seattle -WA **Portland Portland** South **Portland Minneapolis** St. Paul Cambridge St. Louis Park **Boston Edina Evanston Des Moines** Pittsburgh New York City Philadelphia **Berkeley** Reno, NV **Fort Collins** Chicago Montgomery Co, MD Salt Lake City Columbus Washington, DC San Boulder Francisco Denver Who has San Jose CA Kansas St. Louis City, MO policies? Los Angeles San Diego **Atlanta Austin** Orlando

# Benchmarking Data Flow



### How to benchmark

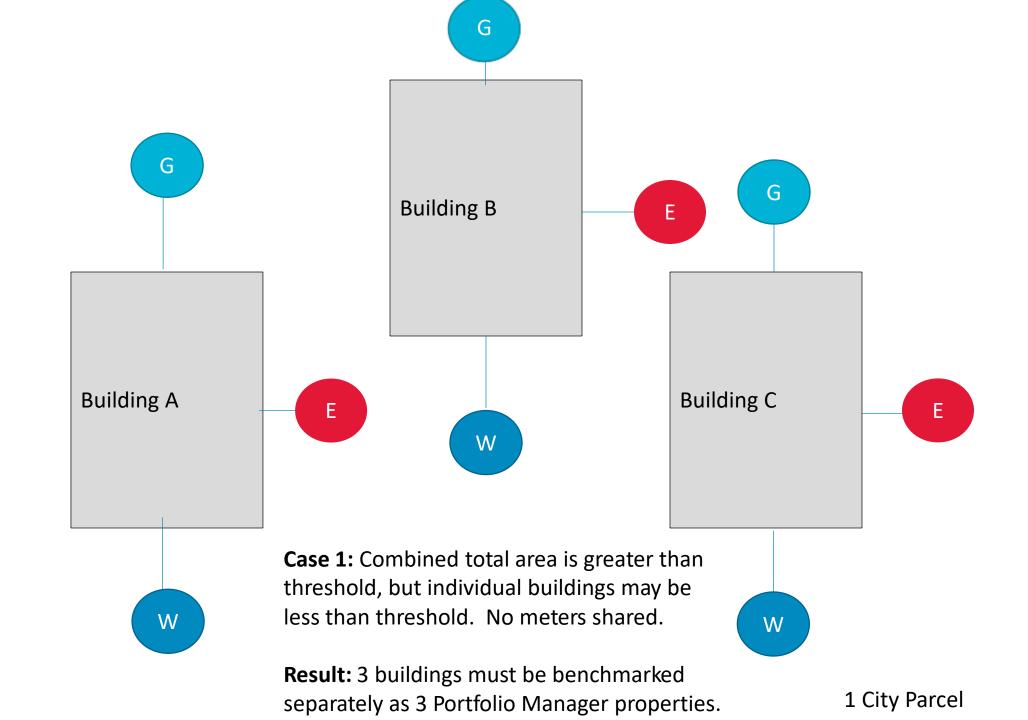
- Setting up a Property in Portfolio Manager
- Setting up Automatic Electric Data Upload (Xcel Energy)
- Entering Water Meter Data
- Data Submission

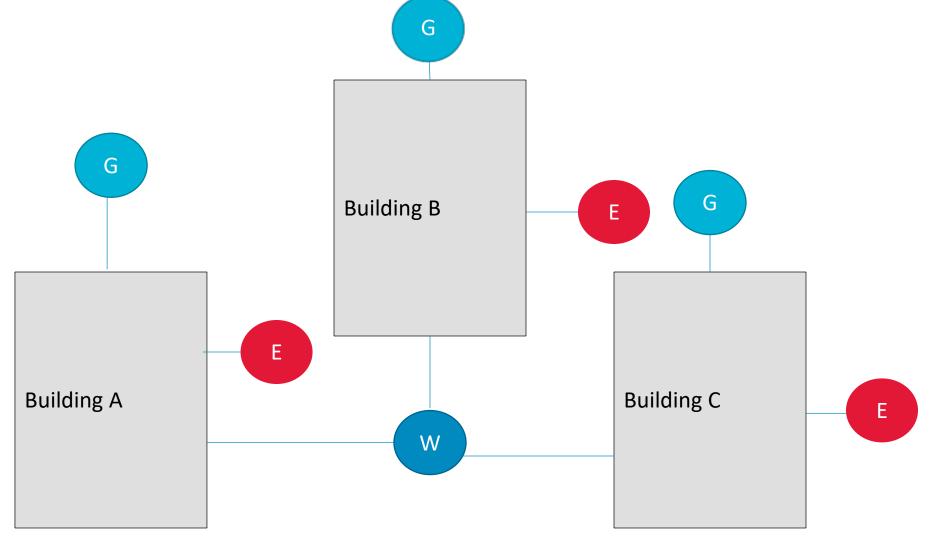
# Identify Your PM Properties

• Goal: establish greatest granularity among buildings to yield the most useful benchmarking result.

Building that share meters need to benchmark on the same property.

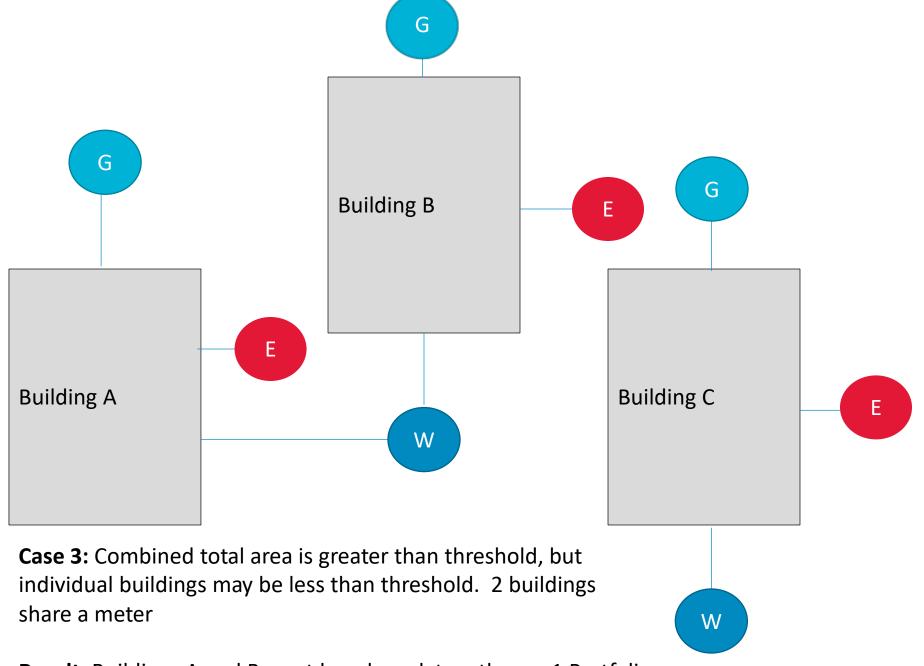
 Buildings that do not share meters should be benchmarked on separate properties.





**Case 2:** Combined total area is greater than threshold, but individual buildings may be less than threshold. 3 buildings share a meter.

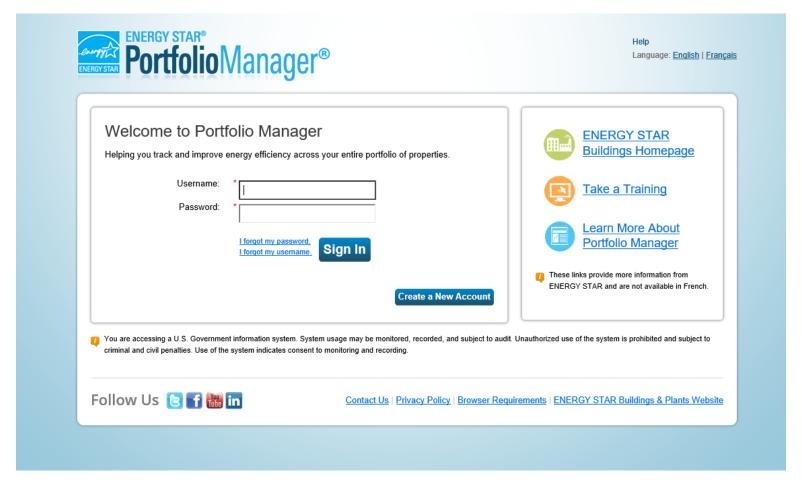
**Result:** Buildings A, B, and C must benchmark together as 1 Portfolio Manager <u>property</u>



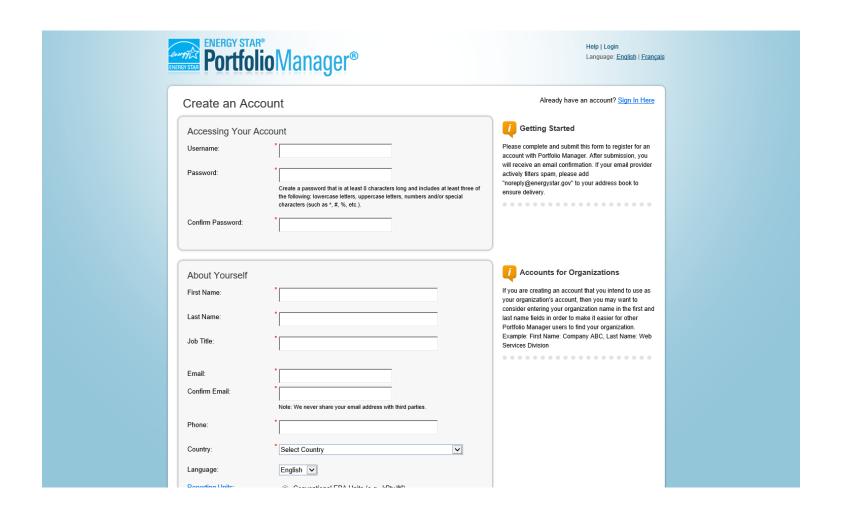
**Result:** Buildings A and B must benchmark together as 1 Portfolio Manager property. Building C benchmarks separately.

# Setting Up A Portfolio Manager Account

portfoliomanager.energystar.gov/pm/login.html

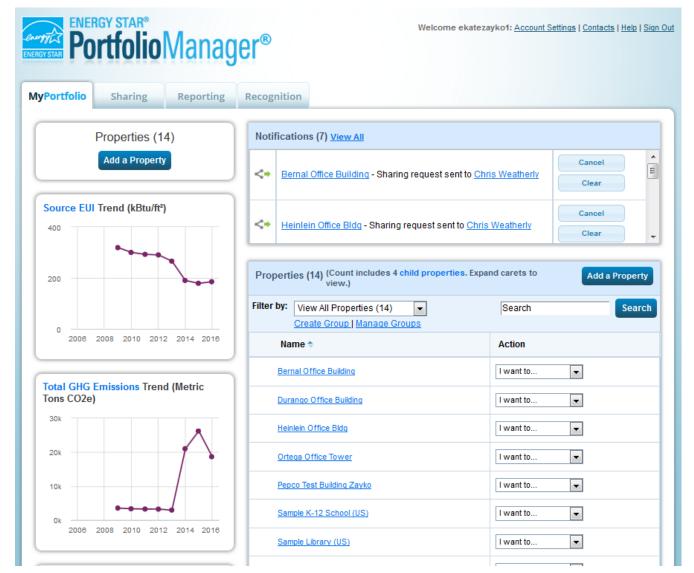


### Create Account



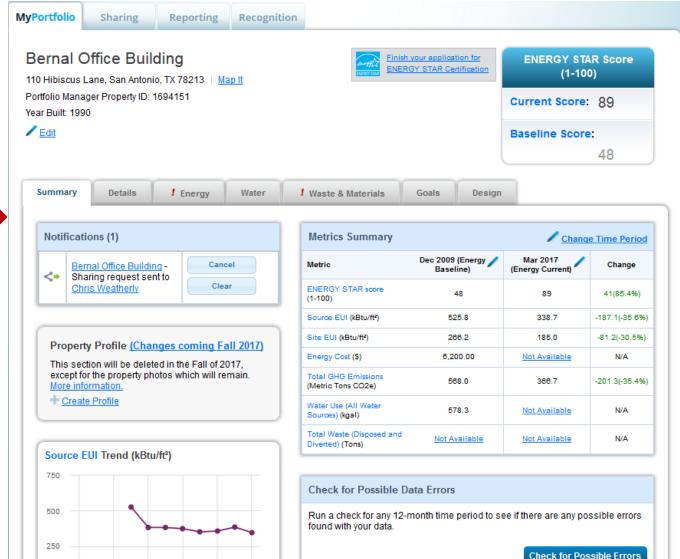
# Navigating Portfolio Manager

Portfolio level view



Navigating Portfolio Manager

Property level view



# Navigating Portfolio Manager

#### 4 portfolio level tabs

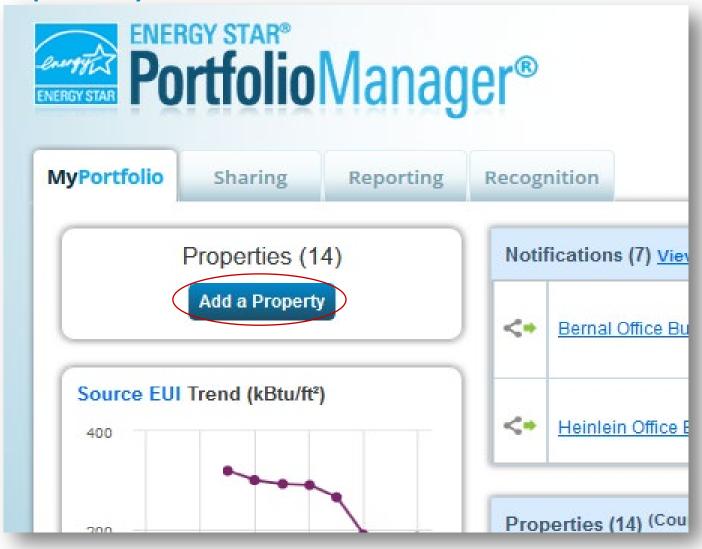


#### 7 property level tabs

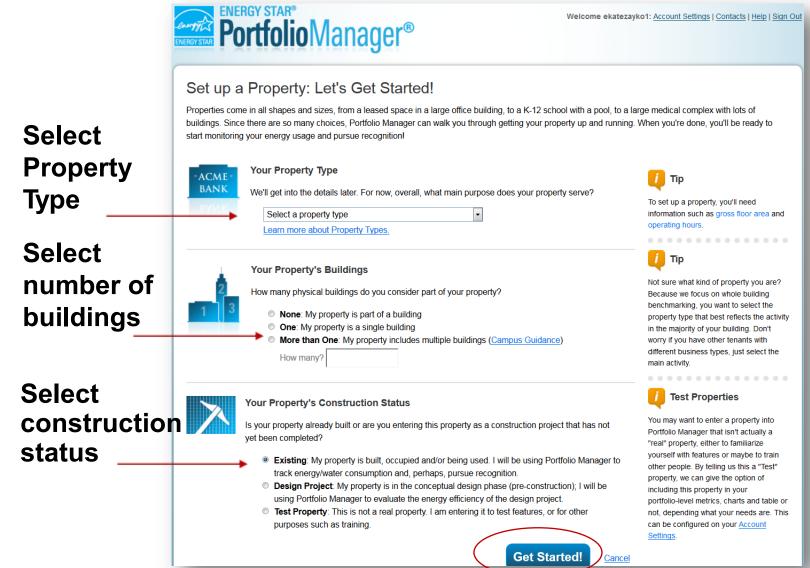


Intuitive navigation – multiple ways to get to the same place

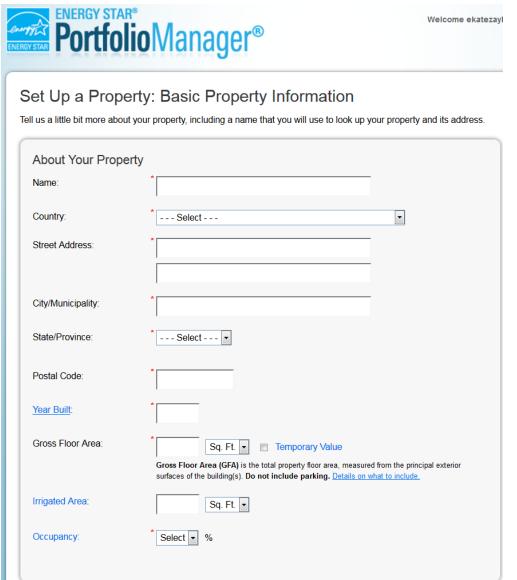
# Add a Property



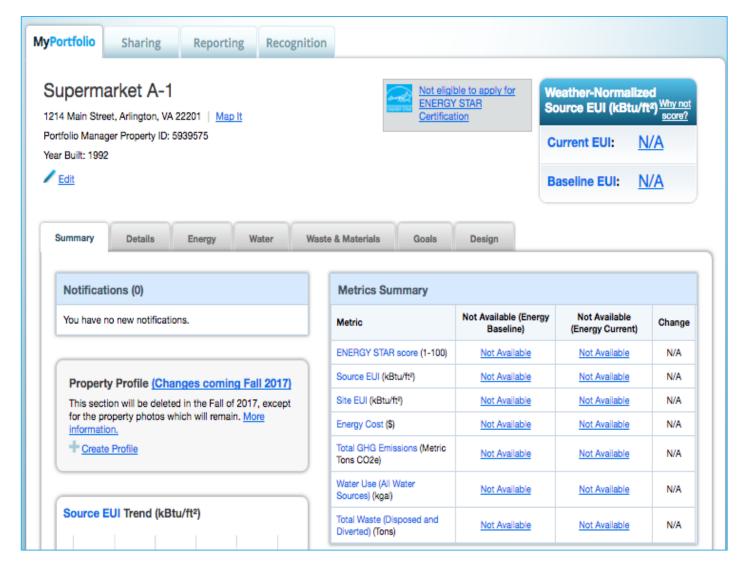
# Add a Property: Existing Property



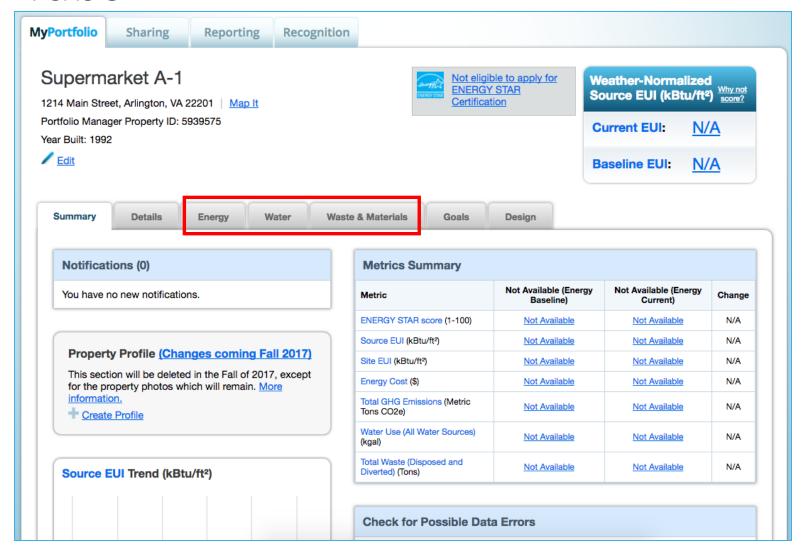
# Enter Basic Property Information



# Property Summary Tab

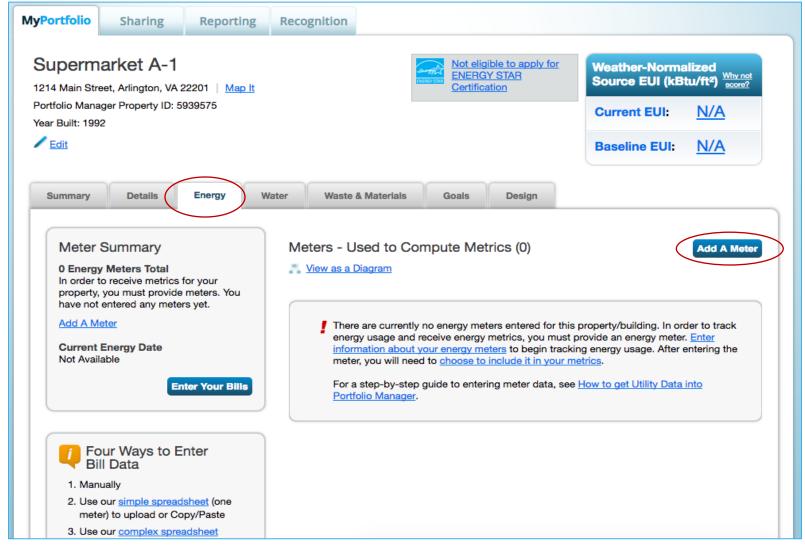


### Meter Tabs



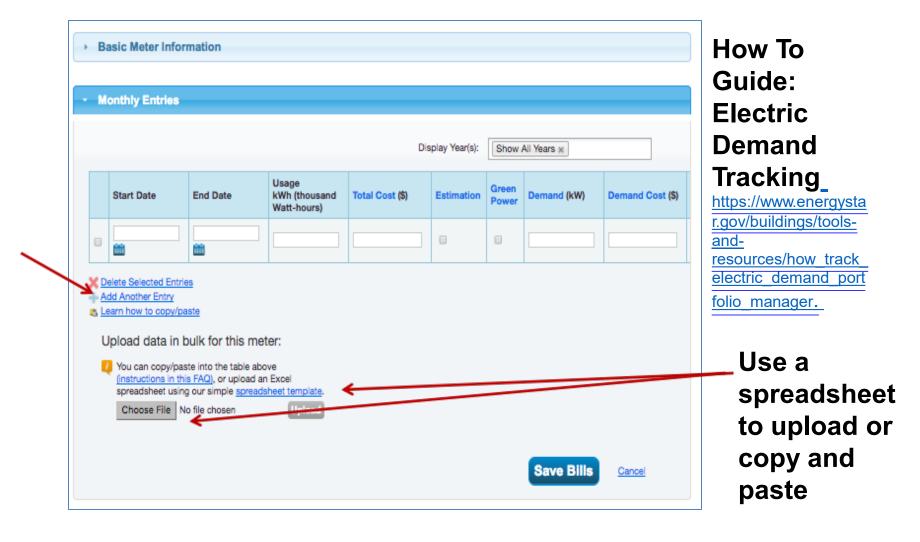


# Energy Meter Tab





### Add Meter Entries and Fill in Data



### How to benchmark

- Setting up a Property in Portfolio Manager
- Setting up Automatic Electric Data Upload (Xcel Energy)
- Entering Water Meter Data
- Data Submission





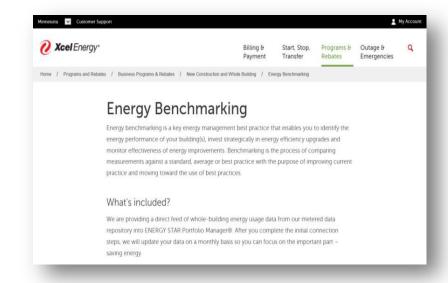
Xcel Energy's
Benchmarking Program



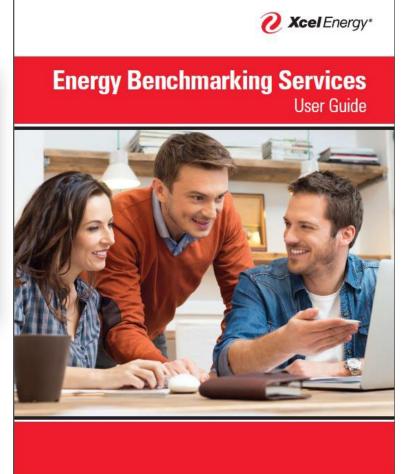
# **Xcel Energy Benchmarking**



#### www.xcelenergy.com/energybenchmarking



Questions? Email us at <a href="mailto:benchmarking@xcelenergy.com">benchmarking@xcelenergy.com</a>



# **Xcel Energy Benchmarking**



- Sign up for Xcel's portal
- Connect with Xcel in Portfolio Manager
- Share your Property in Xcel

• Details here: www.xcelenergy.com/energybenchmarking



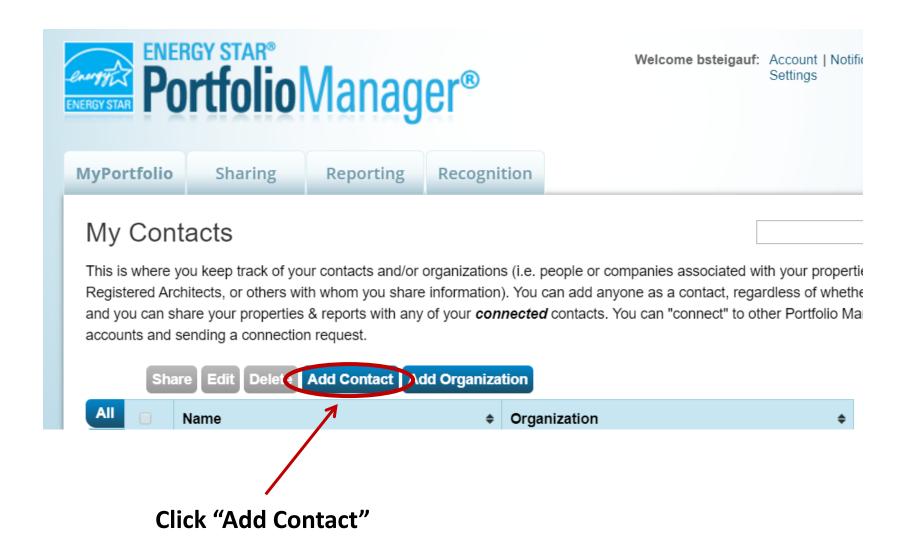
# Sharing Your Portfolio Manager Account



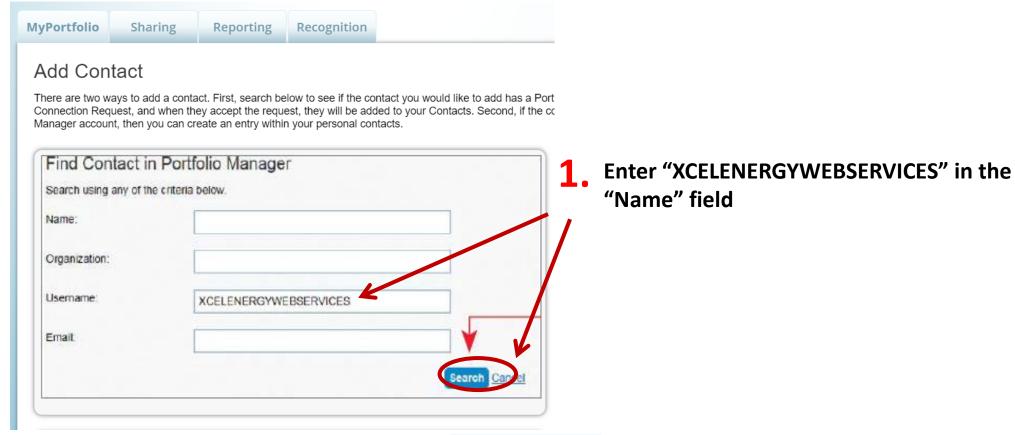
#### **Sharing your account can allow:**

- Others in your organization to view your account
- Others outside of your organization to view your account
- Utility tools to connect and upload your energy data for you

# Sharing Your Portfolio Manager Account



# Add the utility

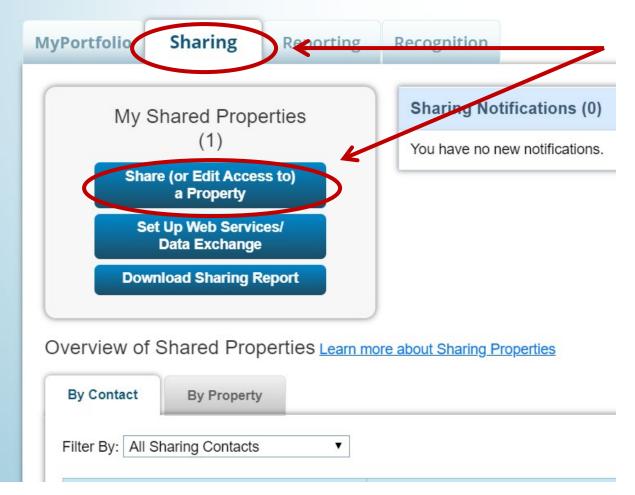


2. Connect
1 - 1 of 1

3. Accept Terms of Agreement and click "Send Connection Request"

**Send Connection Request** 

## Sharing Your Portfolio Manager Account

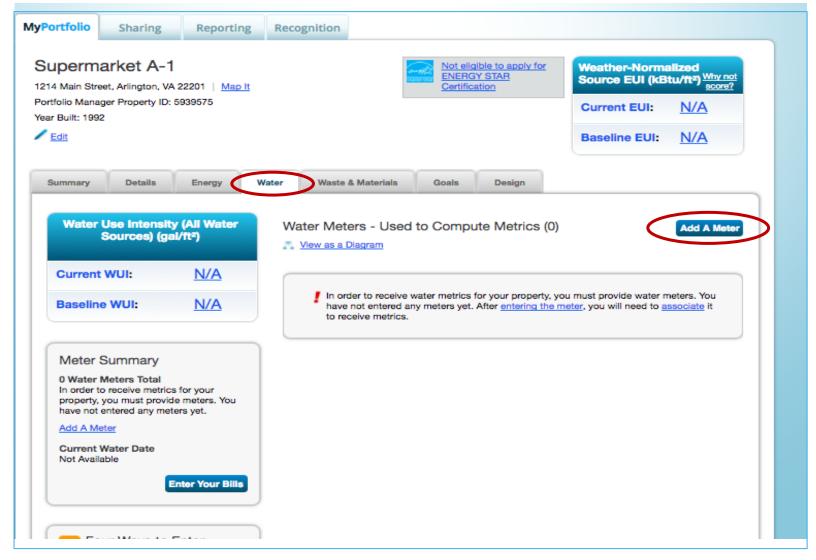


Click the "Sharing" tab at the top of the page and then click "Share (or Edit Access to) a Property."

### How to benchmark

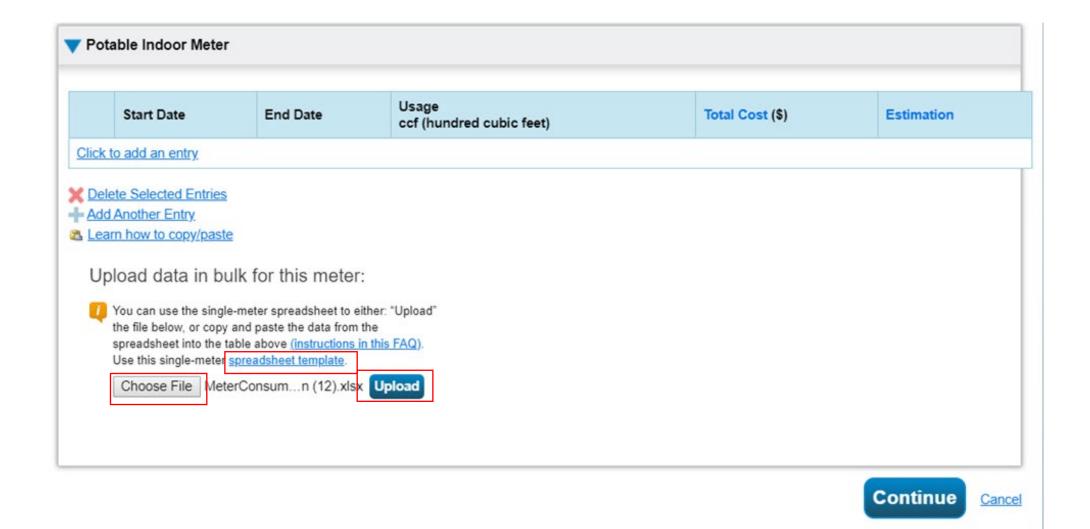
- Setting up a Property in Portfolio Manager
- Setting up Automatic Electric Data Upload (Xcel Energy)
- Entering Water Meter Data
- Data Submission

### Water Tab





## Upload Water Data



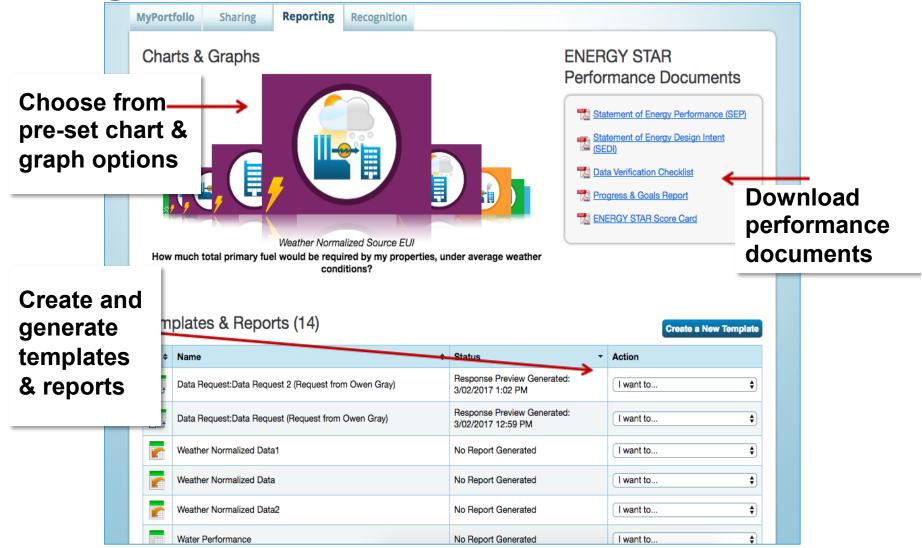
### How to benchmark

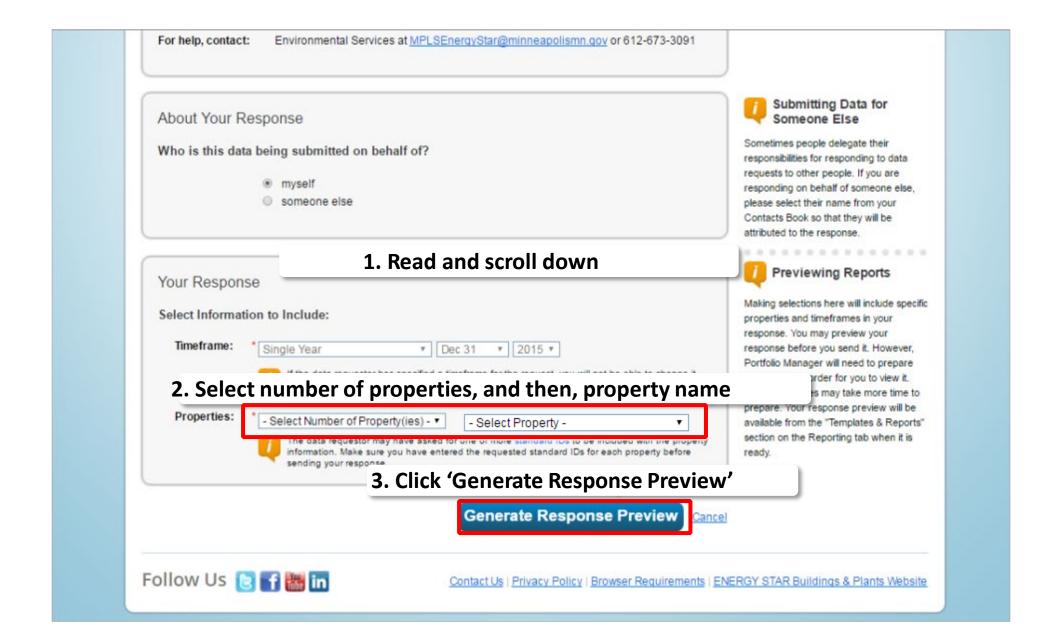
- Setting up a Property in Portfolio Manager
- Setting up Automatic Electric Data Upload (Xcel Energy)
- Entering Water Meter Data
- Data Submission

## Submit data

1. Find the submission link on the City's benchmarking webpage: www.cityofroseville.com/3554/Voluntary-Benchmarking

Reporting Tab







Notifications

A preview for your response to the data request "Data Request: Minneapolis Building Energy Benchmarking Report 2018" on behalf of Katie Jones (Center for Energy and Environment) is being generated.

You may view your response preview by selecting "Preview Response" or "Download Preview in Excel" from the action menu below. Large responses may take a long time to prepare. After you have viewed your response, you must select "Send Response" in order for your data to be released.

Please note that each property you included should have a full 12 months of information for each timeframe. Otherwise, the metrics may not be able to be calculated. When this happens, "N/A" will be displayed in your response.

#### Charts & Graphs



Weather Normalized Source EUI

Data Request: Minneapolis Building Energy Benchmarking Report

2014 Appual Eporary Bonobmark Summany San Francisco (Duo

2018 (Request from Environmental Services)

How much total primary fuel would be required by my properties, under average weather

#### **ENERGY STAR** Performance Documents



- Statement of Energy Design Intent (SEDI)
- Data Verification Checklist
- T Progress & Goals Report
- TALL ENERGY STAR Scorecard

I want to.

Water Scorecard

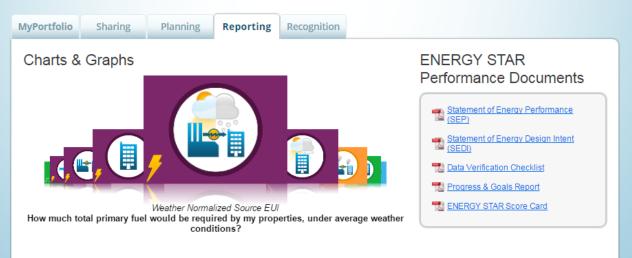
#### 4. Review alerts and correct errors.

#### Templates & Reports (24) Create a New Template Your new response preview(s) has been generated, however basic metrics could not be calculated for one or more properties in the request. Read more **\$ Status** ▼ Action

Response Preview Generated:

3/19/2019 8:13 AM





#### Templates & Reports (12)

### 5. Click 'send response' and follow prompts



