# Standard Energy Efficiency Data Platform™

SEED STANDARD ENERGY EFFICIENCY DATA PLATFORM™
U.S. DEPARTMENT OF ENERGY

U.S. DEPARTMENT OF ENERGY | Energy Efficiency & Renewable Energy

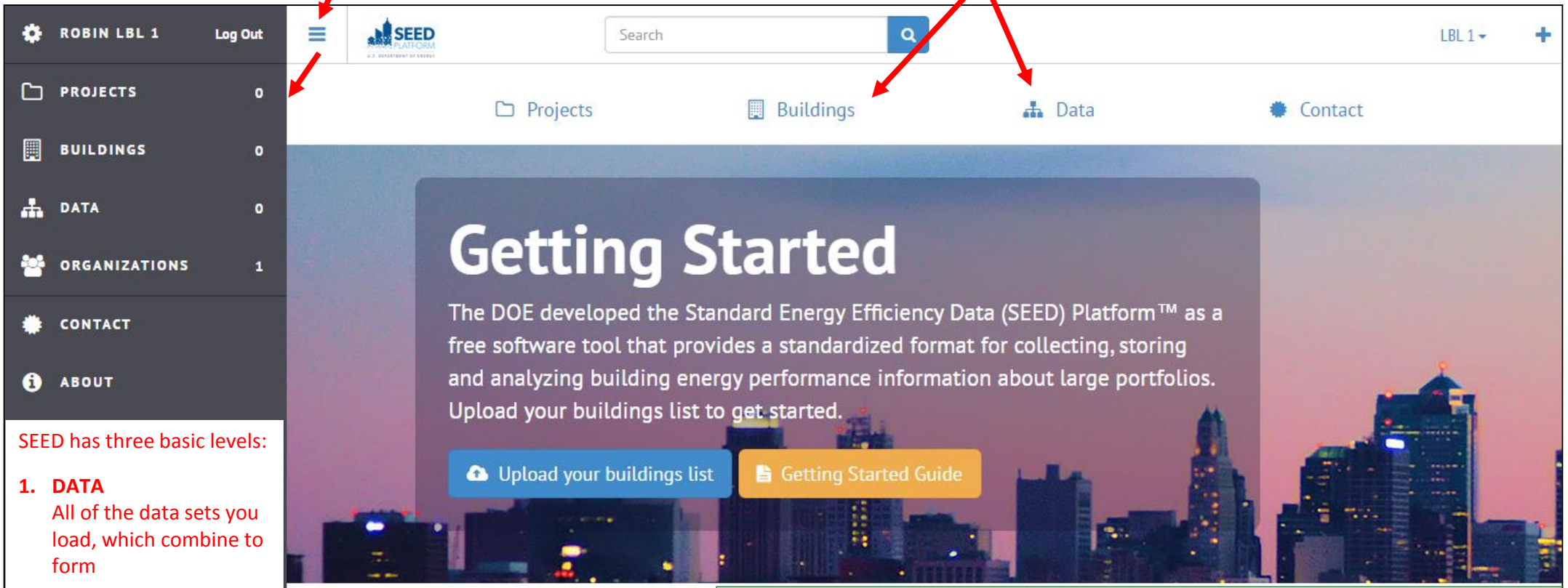
## SEED 1.3

January 2016

# SEED-Platform Home Page

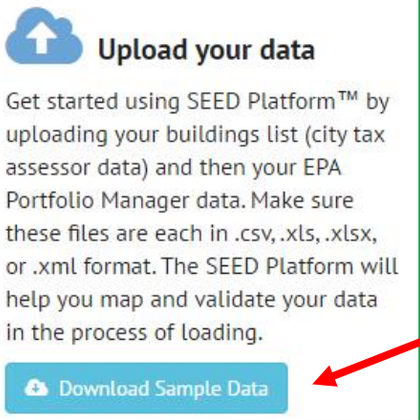
You can open the Navigation Drawer to see your Data, Buildings and Projects count.

You can also navigate using the tabs at the top.



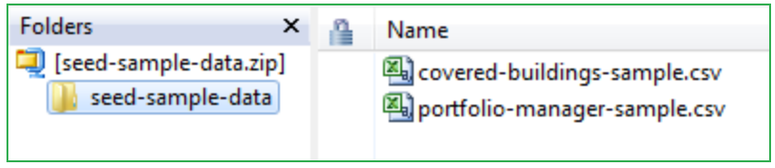

SEED has three basic levels:

1. **DATA**
   All of the data sets you load, which combine to form
2. **BUILDINGS**
   The authoritative list of your buildings as defined by one or more datasets, which can be grouped into
3. **PROJECTS**
   Groups of buildings used to manage compliance or for other user-defined purposes

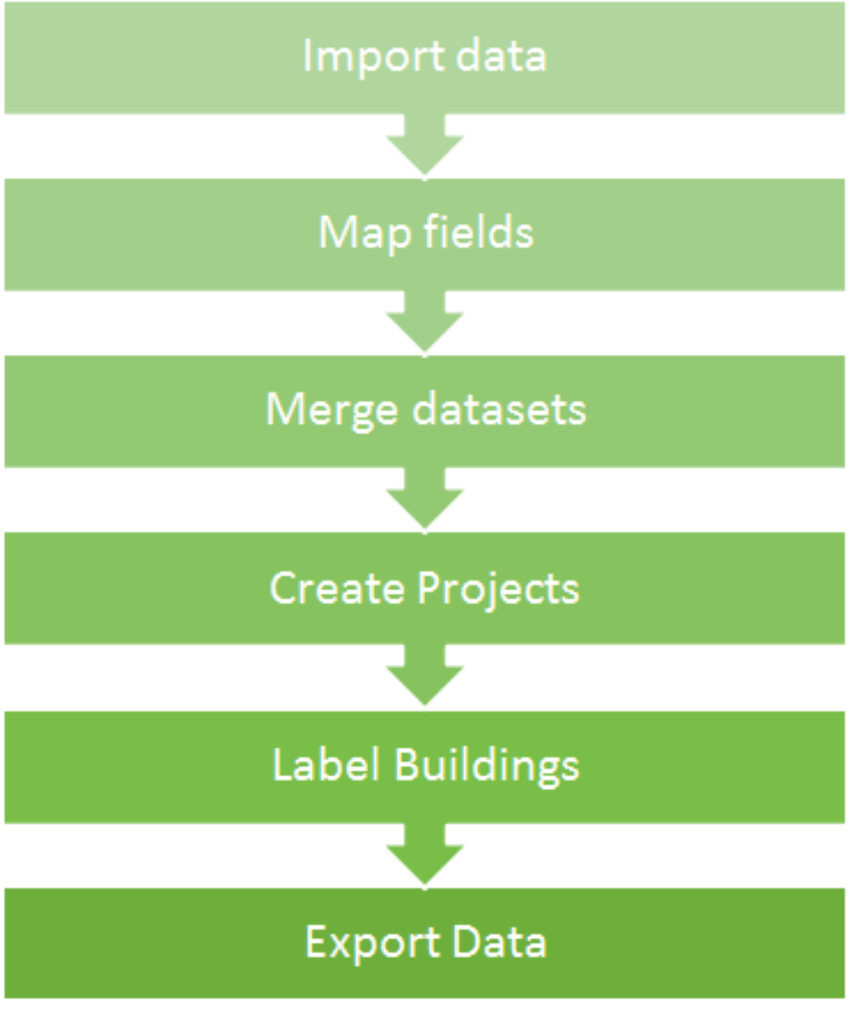



You can download a sample data set (seed-sample-data.zip) which contains two files:

- Covered-buildings-sample.csv
  (tax assessor building list)
- Portfolio-manager-sample.csv
  (custom report data from ENERGY STAR Portfolio Manager)



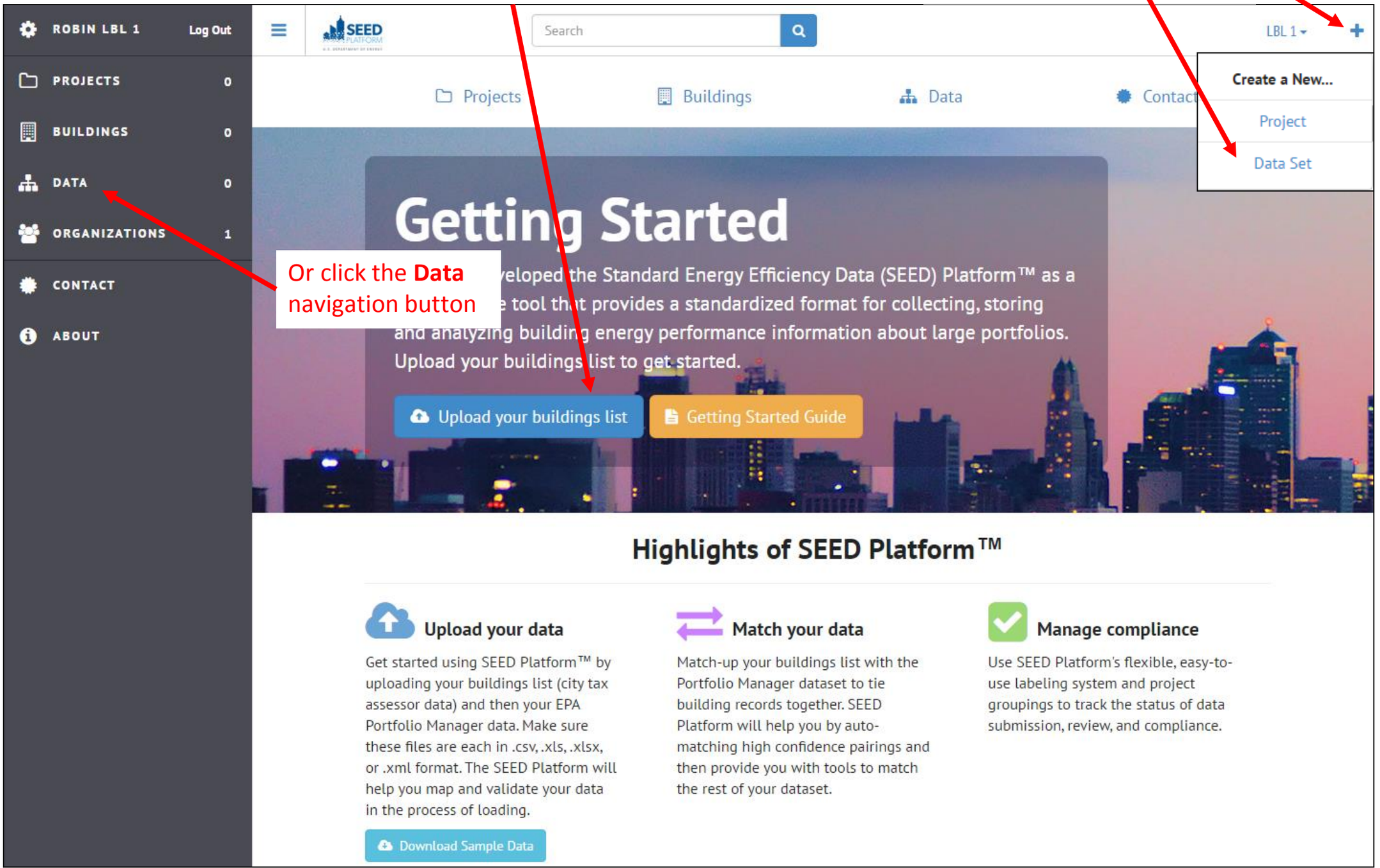
# Workflow


Import data
Map fields
Merge datasets
Create Projects
Label Buildings
Export Data

# Upload Data

To start loading data, click the blue button labeled "**Upload your buildings list**"

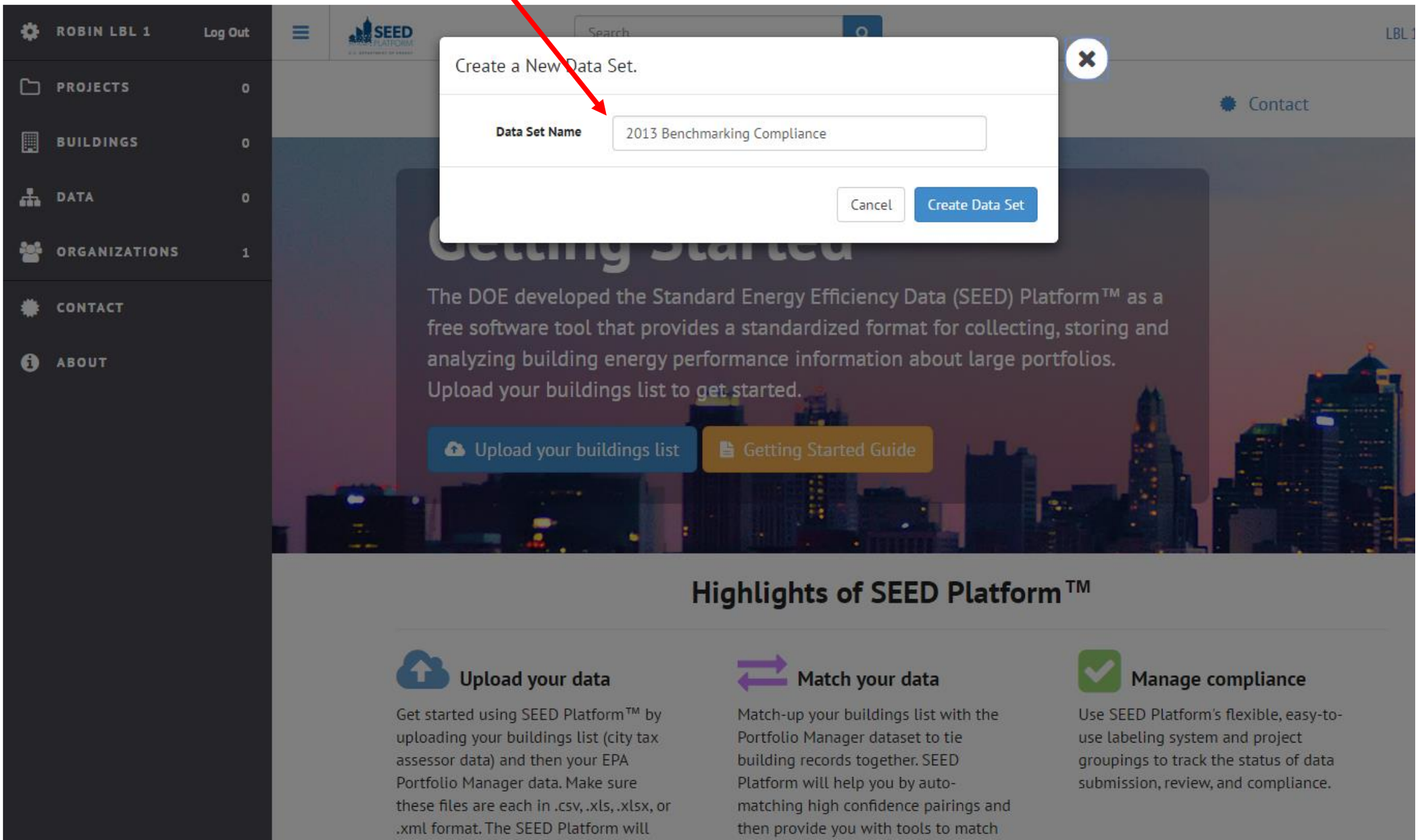
Or click the "**+**" icon at the and then select "**Data Set**"




Or click the **Data** navigation button

# Upload Data

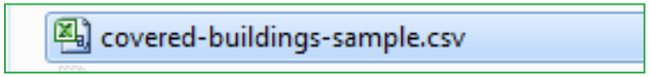
Give the new data set a name.



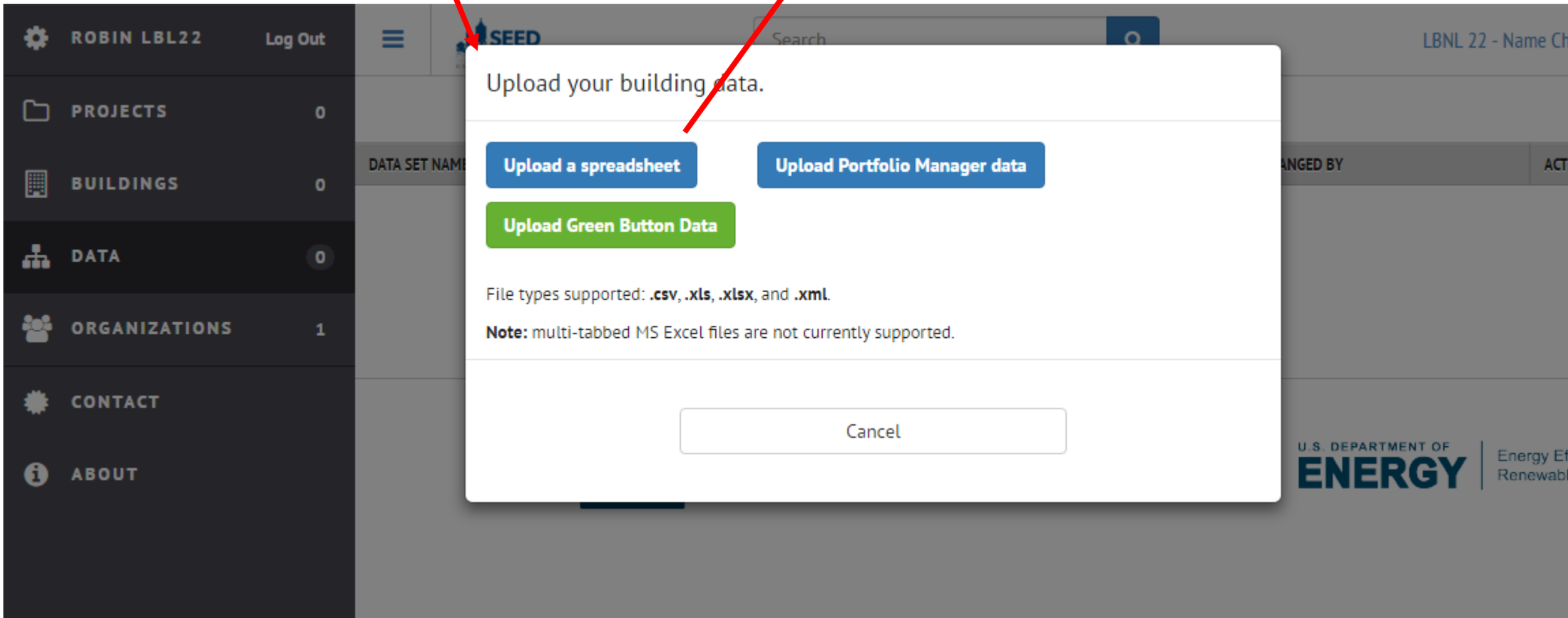
# Upload Data – List of Buildings (Tax Assessor data)

Select the data type to upload, either:

- Spreadsheet (CSV, XLS, XLSX)
- Portfolio Manager (CSV, XLS, or XLSX)
- Green Button Data (XML)

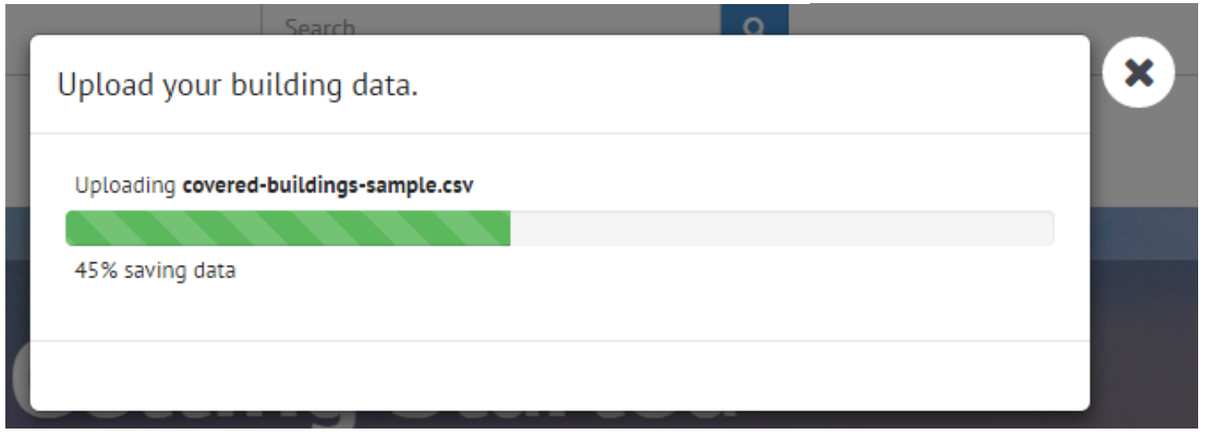


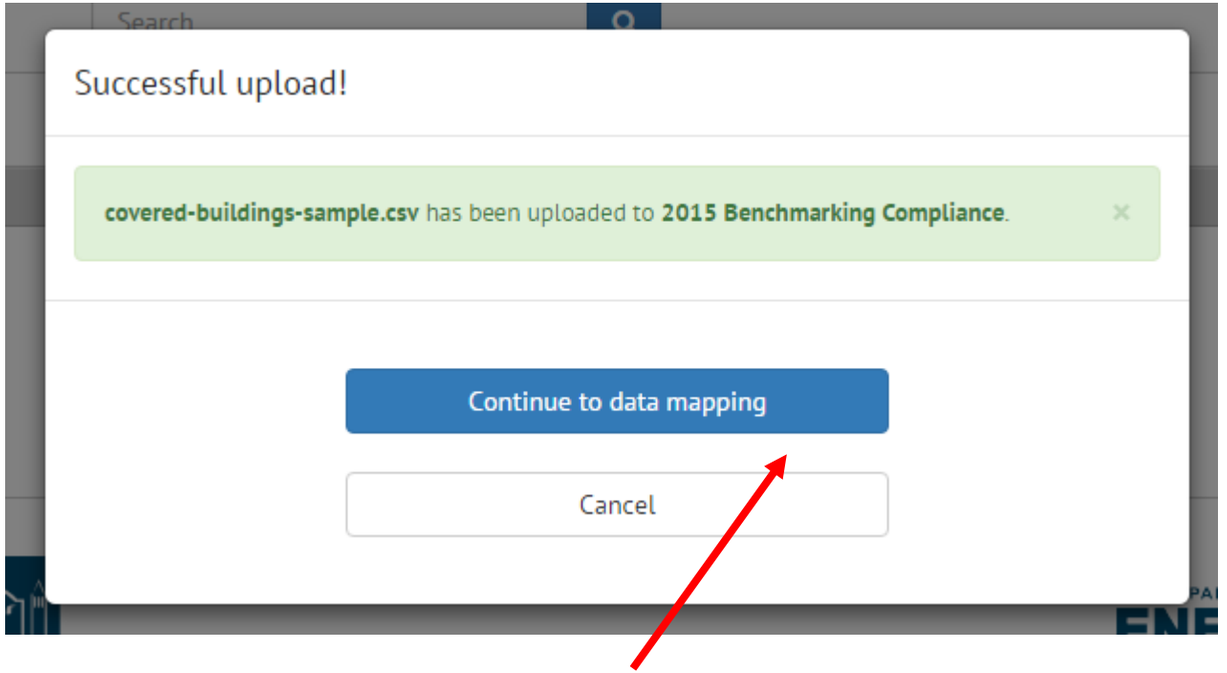

Browse to the appropriate file to upload, such as the list of buildings covered by your benchmarking ordinance



# Upload Data

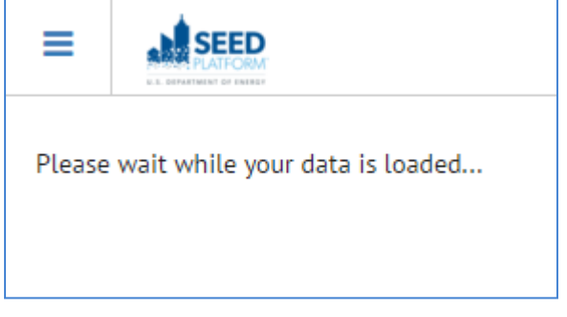
During the data upload, SEED reports the progress and the success of the upload



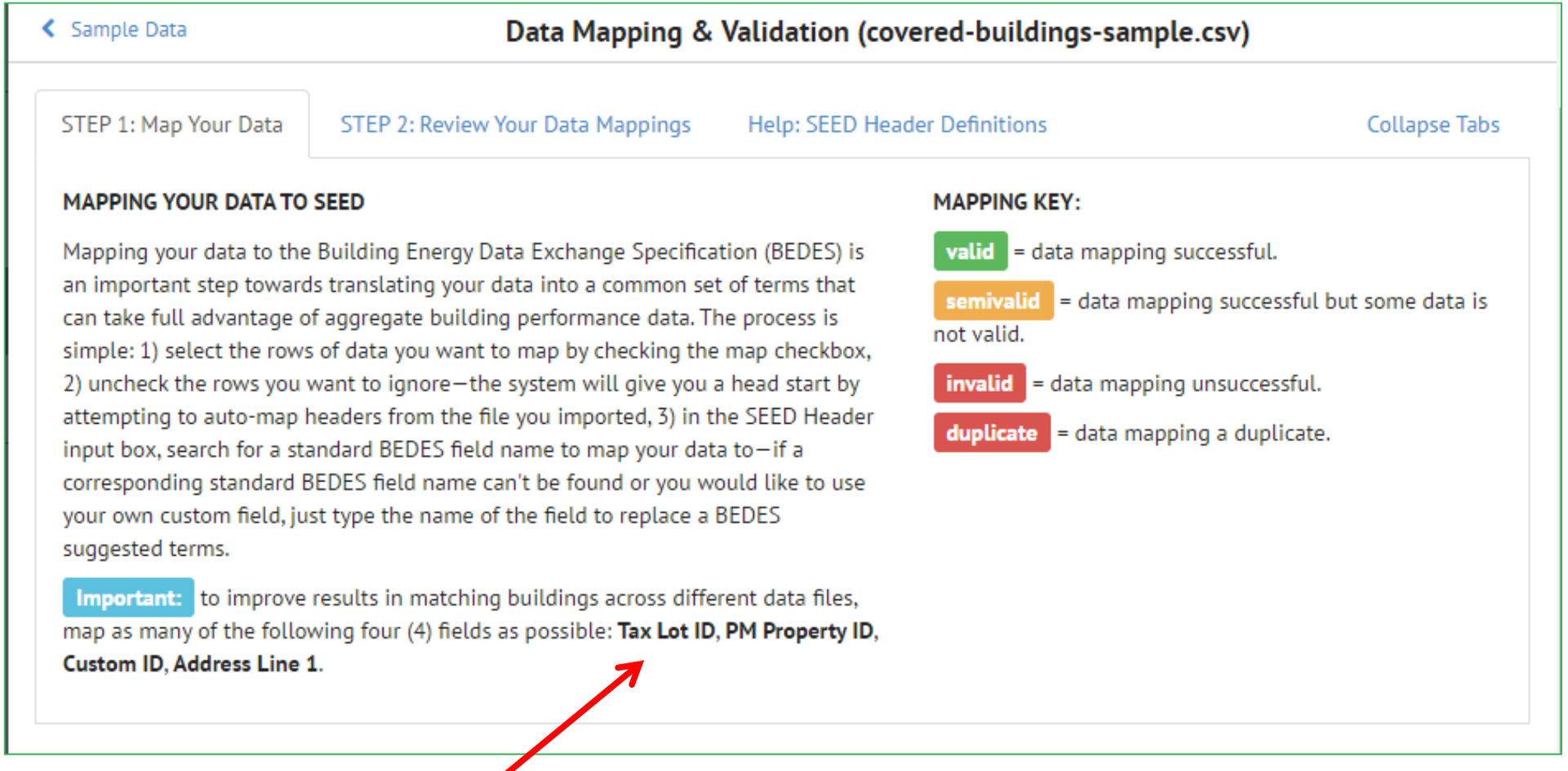

When the data upload is complete, click the "**Continue to data mapping**" button

After you click the "**Continue to data mapping**" button, you will see this dialog box, while the program is loading the Mapping screen



# Data Mapping

Directions for mapping data are at the top of the Mapping page.




**Matching Fields:**

SEED matches records between files (such as Building lists and ENERGY STAR Portfolio Manager data) based on these four fields so it is **very important** to map your data's fields to at least one of these SEED fields. Pick a field that is common between the files you plan to match to each otherr

- **Address Line 1**
- **PM Property ID** (Portfolio Manager ID)
- **Custom ID**
- **Tax Lot ID**

# Data Mapping

Map the field names in the **imported file** to standardized field names in the **SEED database**

SEED database

Imported file

Map Your Data

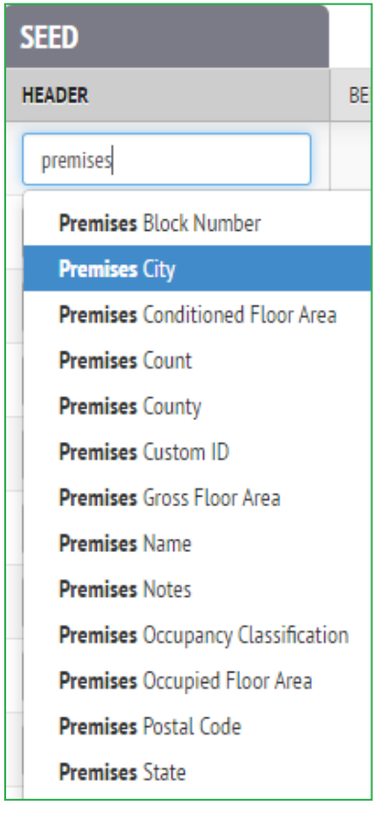
SEED | covered-buildings-sample.csv

## Mapped Fields

| MAP | SEED HEADER | DATA FILE HEADER | ROW 1 | ROW 2 | ROW 3 |
|---|---|---|---|---|---|
| ☑ | Tax Lot Id | UBI | 10107/71db4 | 10107/c6596 | 10106/2f366 |
| ☑ | Gross Floor Area | GBA | 264,949 | 322,701 | 139,835 |
| ☑ | Buildings Quantity | BLDGS | 1 | 1 | 1 |
| ☑ | Address Line 1 | Address | 120243 E True Lane | 95373 E Peach Avenue | 95864 SW Cottonwood Court |
| ☑ | Owner | Owner | MileStone Community Builders | Pangea Properties | Matt Martin Real Estate Management |
| ☑ | City | City | EnergyTown | EnergyTown | EnergyTown |
| ☑ | State Province | State | Ilinois | Ilinois | Ilinois |
| ☑ | Postal Code | Zip | 10107-7915 | 10107-1544 | 10106-7162 |
| ☑ | Use Description | Property Type | COMMERCIAL | COMMERCIAL | RESIDENTIAL-MULTI FAMILY |
| ☑ | Year Built | AYB_YearBuilt | 1974 | 1962 | 1965 |

Key fields that SEED will use to match records between data files

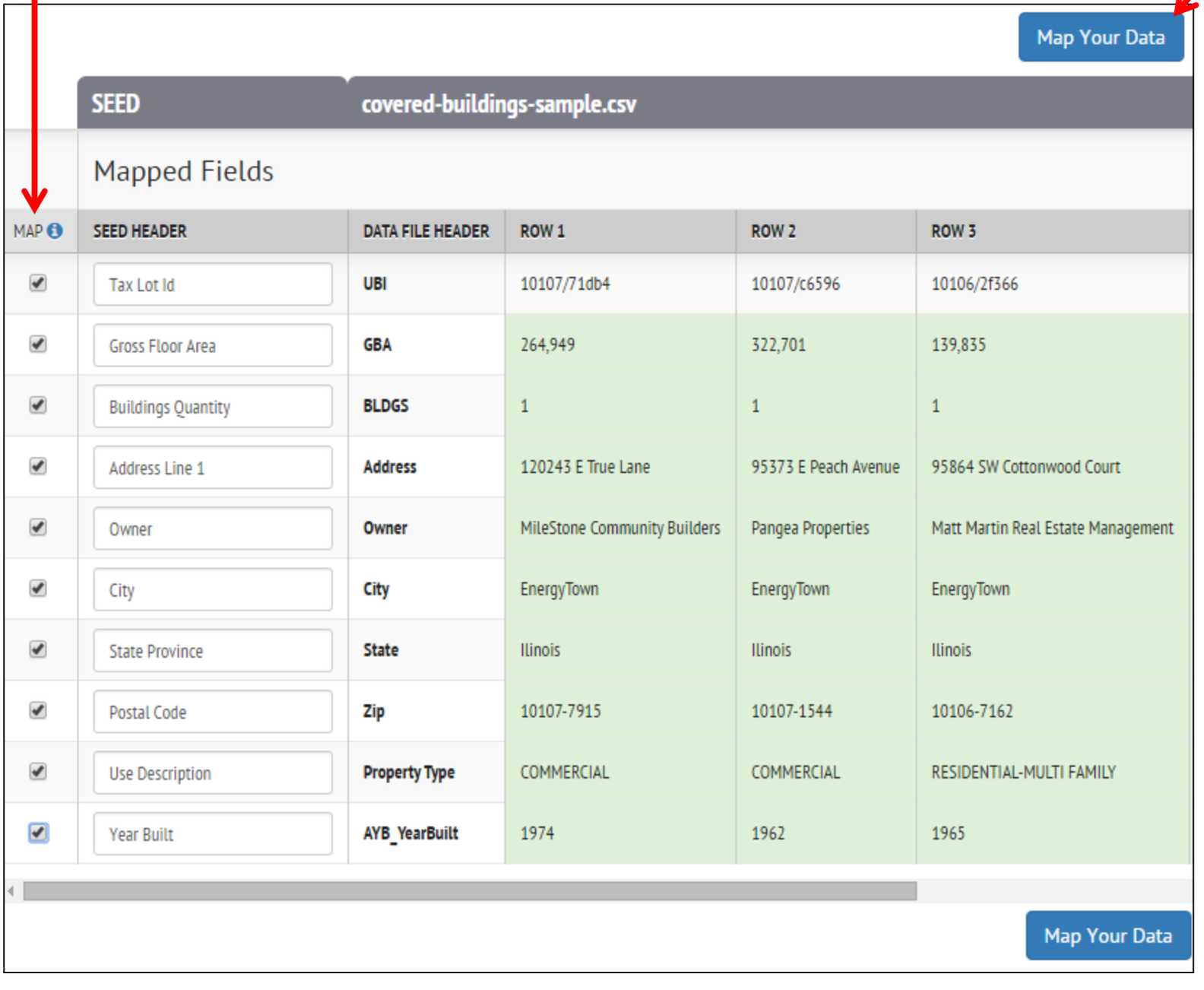
Start typing in the SEED field input to see a list of fields containing that word



# Data Mapping

Unchecking the Map field means the program will not include the field in the data import

Click **Map Your Data** when you are finished mapping all the fields



# Data Mapping -- Review

From the Mapping screen, clicking **Map Your Data** brings you to this **Mapping Review** screen

Map Your Data

View the mapped fields populated with the data

Click **Save Mappings** if the mapping is correct

You can click **Back to Mapping** if it is not correct

Click **Data Cleansing Results** to see data errors (see next page)

Click **View/Hide Columns** to control what columns are displayed

Back to Mapping | Update Filters | Data Cleansing Results | View/Hide Columns | Save Mappings

| TAX LOT ID | GROSS FLOOR AREA FT² | ADDRESS LINE 1 | OWNER | CITY | STATE PROVINCE | POSTAL CODE | USE DESCRIPTION | YEAR BUILT |
|---|---|---|---|---|---|---|---|---|
| Tax Lot Id | Gross Floor Area | Address Line 1 | Owner | City | State Province | Postal Code | Use Description | Year Built |
| 1011039F62 | 335,912 | 45117 W Roosevelt Avenue | Schmidt Real Estate | EnergyTown | Ilinois | 10110-9579 | COMMERCIAL | 1927 |
| 1010836315 | 148,091 | 11887 W Cottonwood Court | CWS Corporate Leas... | EnergyTown | Ilinois | 10108-8243 | RESIDENTIAL-MULTI... | 1959 |
| 10107A127A | 181,115 | 119134 SE Lemon Highway | Nationwide Appraisa... | EnergyTown | Ilinois | 10107-5333 | COMMERCIAL | 1986 |
| 101067B8AE | 136,566 | 139213 W Cottonwood Street | The Force Realty | EnergyTown | Ilinois | 10106-9379 | COMMERCIAL | 2009 |
| 10102835DD | 353,776 | 178944 W Hawthorn Alley | Oakbrook | EnergyTown | Ilinois | 10102-8144 | COMMERCIAL | 1962 |
| 101052672F | 234,015 | 133552 S Grapes Street | Occidental Managem... | EnergyTown | Ilinois | 10105-6555 | COMMERCIAL | 1965 |
| 101016FCB5 | 292,974 | 232204 SW Taylor Highway | Robert Paul Properti... | EnergyTown | Ilinois | 10101-9602 | COMMERCIAL | 1983 |
| 1010377192 | 70,222 | 119270 SW Garfield Way | PalmerHouse Proper... | EnergyTown | Ilinois | 10103-7367 | COMMERCIAL | 1926 |
| 10103D92AB | 184,417 | 73210 S Sweetgum Avenue | ERA Sunrise Realty | EnergyTown | Ilinois | 10103-5446 | COMMERCIAL | 1967 |
| 101103E66F | 322,346 | 47399 NW Cherry Way | Innotion Enterprises | EnergyTown | Ilinois | 10110-2179 | COMMERCIAL | 1880 |

Display: 10 buildings

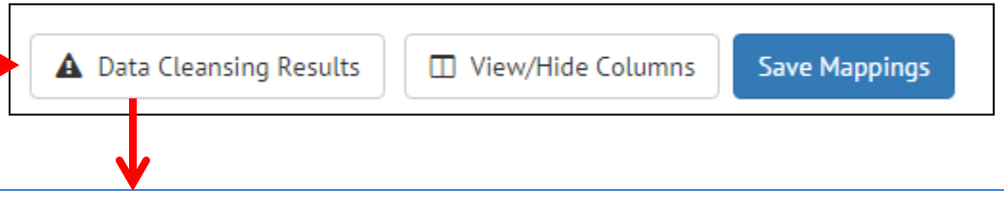
Showing 1 to 10 of 512 buildings

« First Record | ‹ Previous | Next › | Last Record »

Back to Mapping | Save Mappings

# Data Mapping – Review – Data Cleansing

From the **Data Mapping** screen, click **Data Cleansing Results** to see what the program discovered about the data



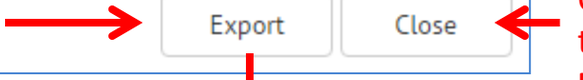

## Data Cleansing Results

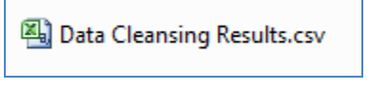
File Name: covered-buildings-sample.csv

Date Uploaded: Invalid date

| ADDRESS LINE 1 | PM PROPERTY ID | TAX LOT ID | CUSTOM ID | FIELD | ERROR MESSAGE |
|---|---|---|---|---|---|
| Address Line 1 | PM Property ID | Tax Lot ID | Custom ID | Field | Error Message |
| 44871 SW Orange Highway | -- | 10103572BC | -- | Year Built | Value [0] < 1700 |
| 158538 S Monroe Court | -- | 101104DF66 | -- | Year Built | Value [0] < 1700 |
| 97036 N Eisenhower Road | -- | 101041BD08 | -- | Year Built | Value [0] < 1700 |
| 98737 NW Van Buren Court | -- | 10101528FC | -- | Year Built | Value [0] < 1700 |
| 143991 SW Harrison Way | -- | 101013F4F9 | -- | Year Built | Value [0] < 1700 |
| 92910 NW Papaya Court | -- | 101105F905 | -- | Year Built | Value [0] < 1700 |
| 236009 SW Oak Road | -- | 10102C424E | -- | Year Built | Value [0] < 1700 |
| 99348 NE Locust Street | -- | 101047EF71 | -- | Year Built | Value [0] < 1700 |

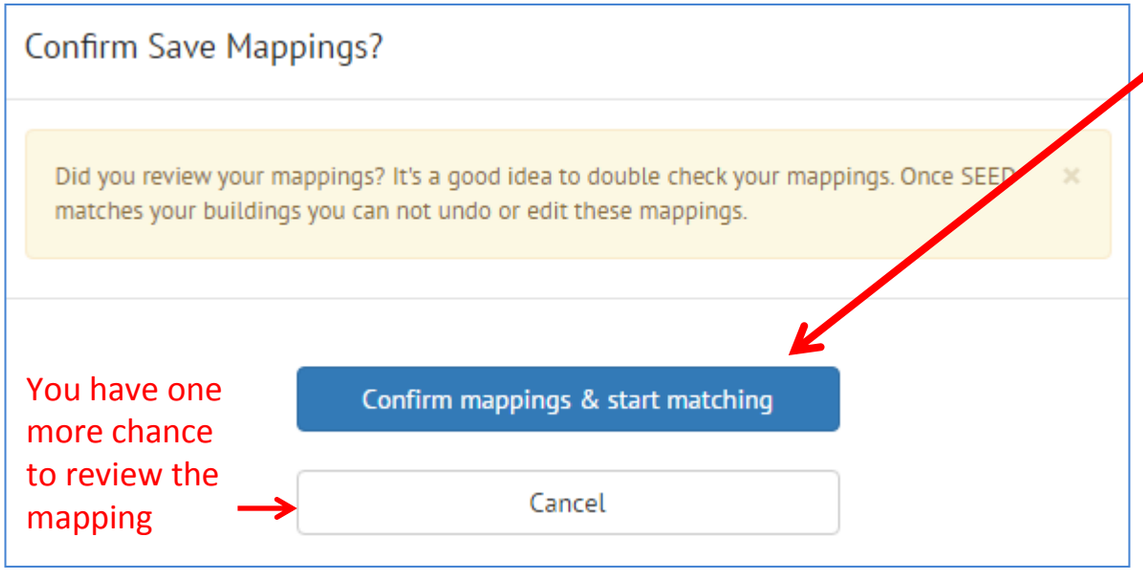
Click **Export** to export the contents of the Data Cleansing screen to a CSV file




Click **Close** to return to the **Data Mapping** Screen

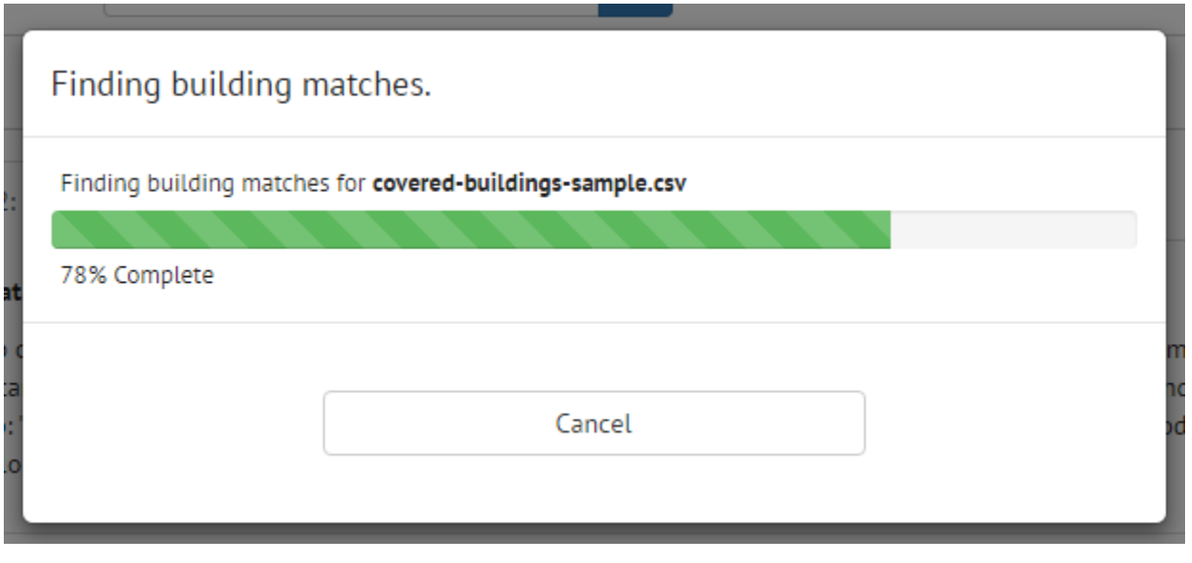
# Data Mapping – Confirm and Start Matching




You have one more chance to review the mapping

Click **Confirm mappings and start matching** if you are happy with the data mapping

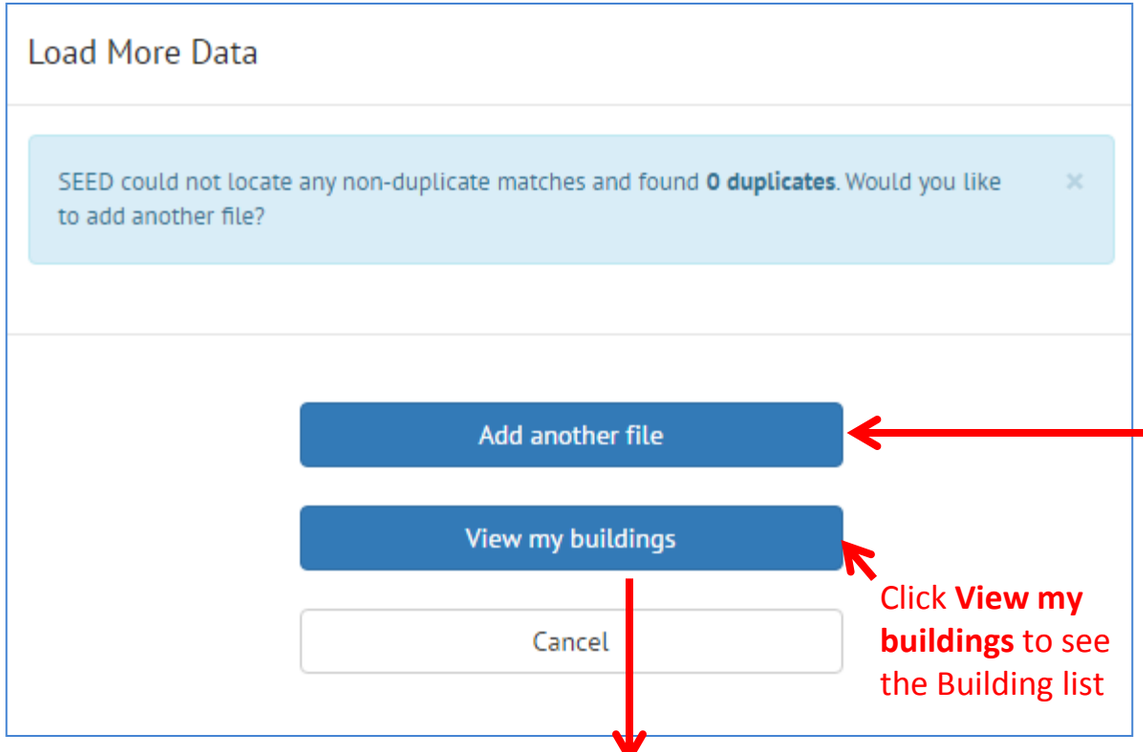
SEED will check to see if any records match within the file (or across other files if they have already been imported)




Program checks to see if any records match within the file based on the matching fields set in Mapping, such as Address or Tax Lot ID

The program checks for matching even if there is no data already loaded into the program to match to, in case there are matches within the file being imported

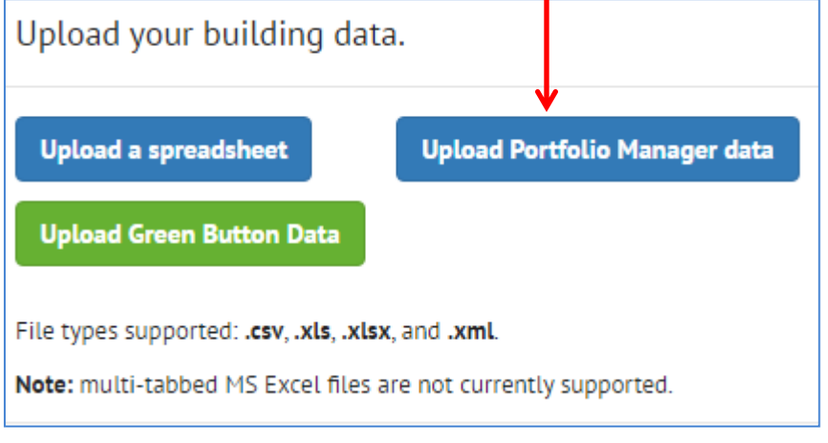
# Data Matching -- Results

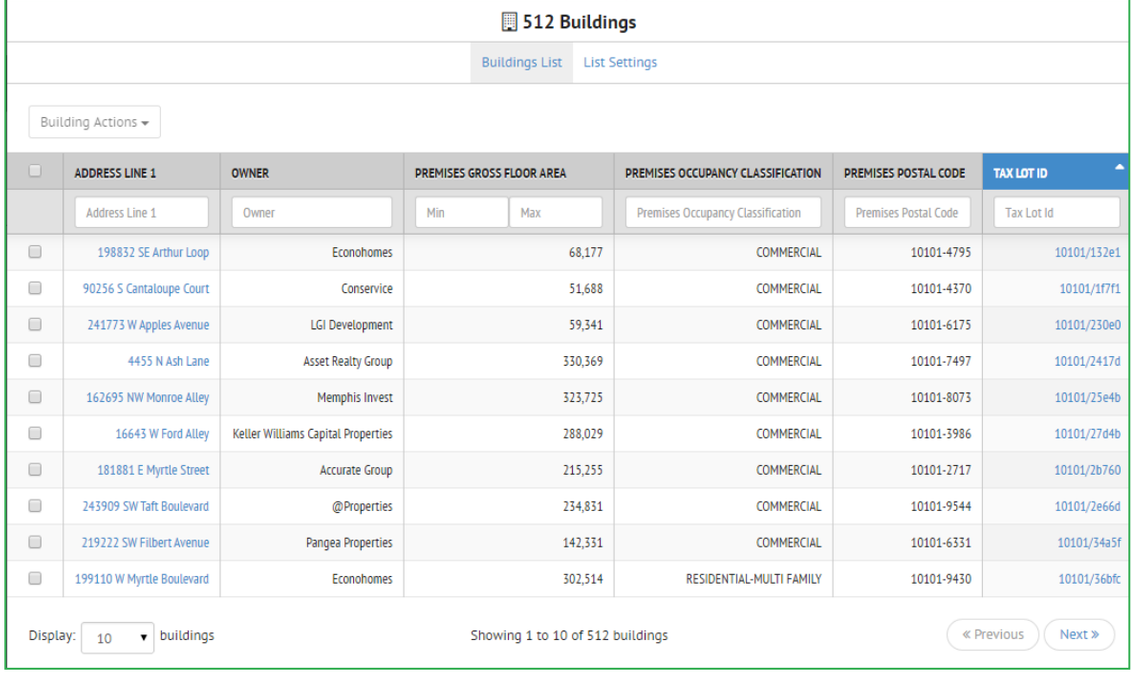



The program reports on any matches that it found. In this example, there were no matches within the Covered Buildings data being imported.

Click **Add another file** to upload ENERGY STAR Portfolio Manager data (or other data) and you can then add more data to match to the records that were just created

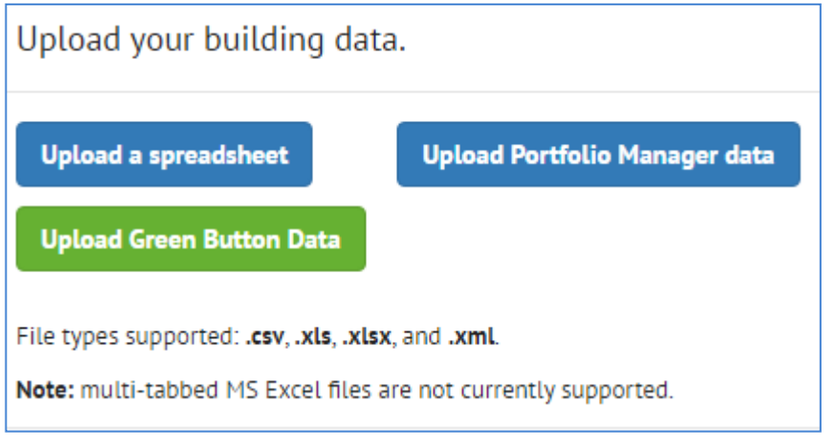
Click **View my buildings** to see the Building list



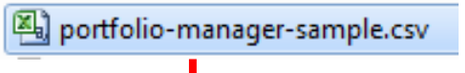

After a data file has been mapped and matched, the program adds those records to Building list.

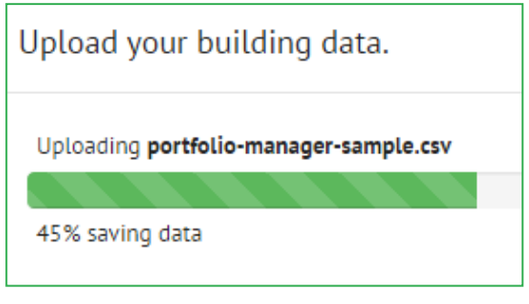
# Upload Data – ENERGY STAR Portfolio Manager data

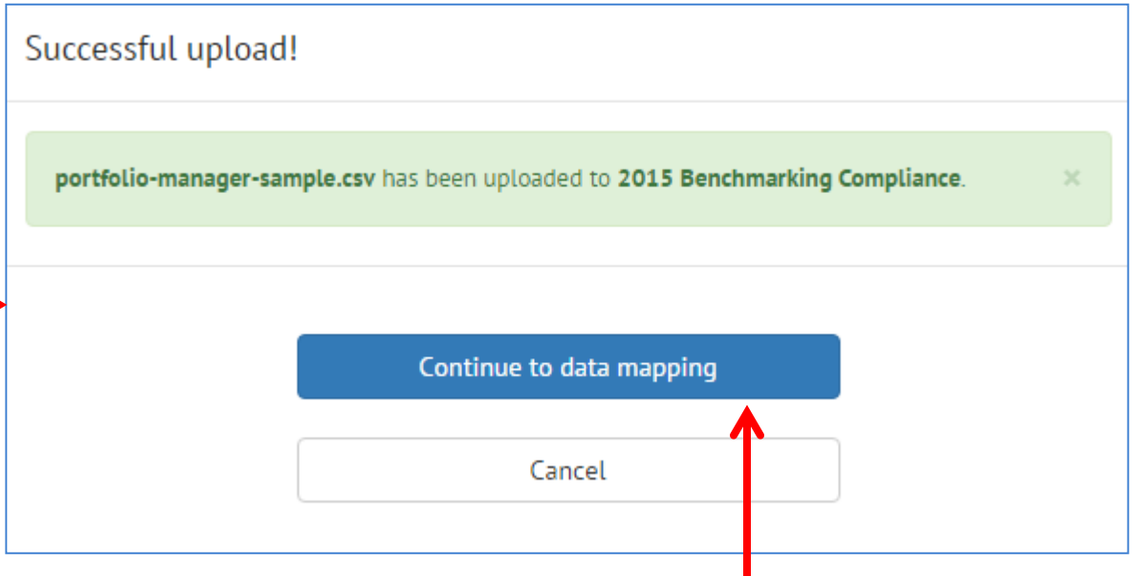



To upload Portfolio Manager data, click the **Upload Portfolio Manager data** button

Browse to the appropriate file to upload




Click
**Continue to data mapping**
(See next page)

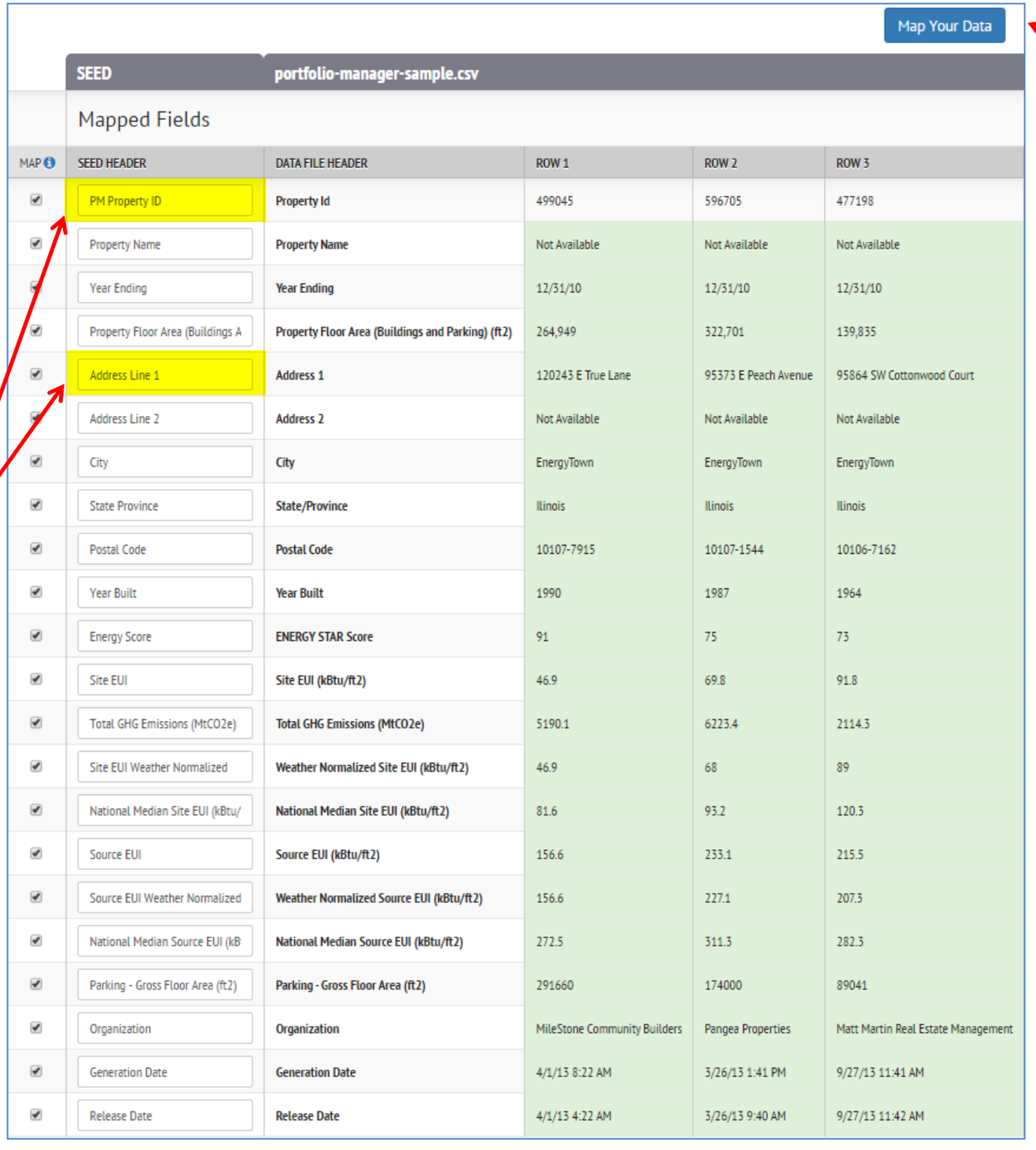
# Data Mapping – ENERGY STAR Portfolio Manager data

Map the field names in the imported file to standardized field names in the SEED database

SEED has a predefined mapping list for Portfolio Manager files. You should check the mapping in case you want to make changes, but you may be able to accept the mapping without making changes.

Key fields that SEED will use to match records between data files

For these two example files (Building List and ENERGY STAR Portfolio Manager data) the only common field is **Address Line 1**
It must be mapped to **Address Line 1** for both data files in order for SEED to match the records on that field.

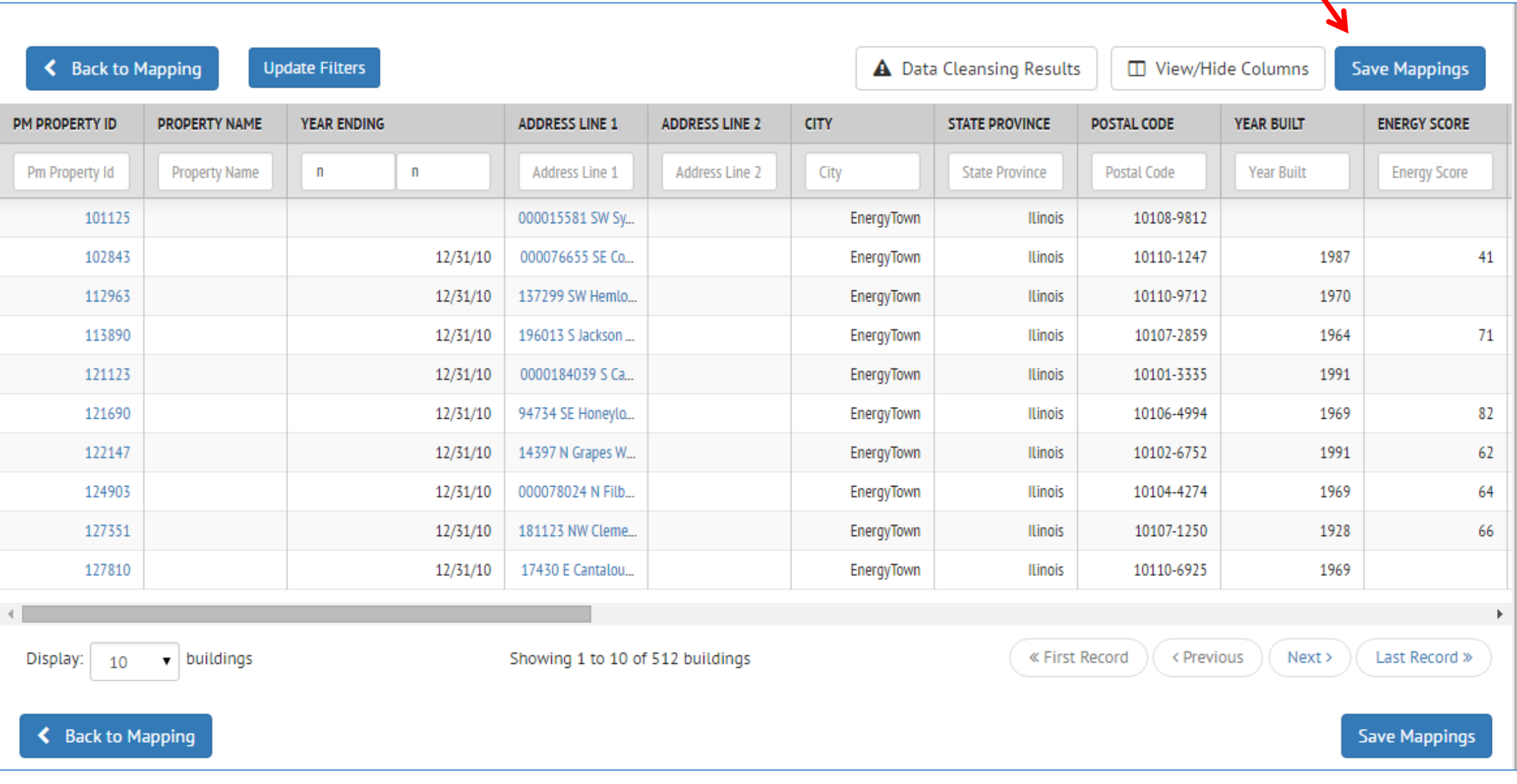



| MAP | SEED HEADER | DATA FILE HEADER | ROW 1 | ROW 2 | ROW 3 |
|---|---|---|---|---|---|
| ☑ | PM Property ID | Property Id | 499045 | 596705 | 477198 |
| ☑ | Property Name | Property Name | Not Available | Not Available | Not Available |
| ☑ | Year Ending | Year Ending | 12/31/10 | 12/31/10 | 12/31/10 |
| ☑ | Property Floor Area (Buildings A | Property Floor Area (Buildings and Parking) (ft2) | 264,949 | 322,701 | 139,835 |
| ☑ | Address Line 1 | Address 1 | 120243 E True Lane | 95373 E Peach Avenue | 95864 SW Cottonwood Court |
| ☑ | Address Line 2 | Address 2 | Not Available | Not Available | Not Available |
| ☑ | City | City | EnergyTown | EnergyTown | EnergyTown |
| ☑ | State Province | State/Province | Illinois | Illinois | Illinois |
| ☑ | Postal Code | Postal Code | 10107-7915 | 10107-1544 | 10106-7162 |
| ☑ | Year Built | Year Built | 1990 | 1987 | 1964 |
| ☑ | Energy Score | ENERGY STAR Score | 91 | 75 | 73 |
| ☑ | Site EUI | Site EUI (kBtu/ft2) | 46.9 | 69.8 | 91.8 |
| ☑ | Total GHG Emissions (MtCO2e) | Total GHG Emissions (MtCO2e) | 5190.1 | 6223.4 | 2114.3 |
| ☑ | Site EUI Weather Normalized | Weather Normalized Site EUI (kBtu/ft2) | 46.9 | 68 | 89 |
| ☑ | National Median Site EUI (kBtu/ | National Median Site EUI (kBtu/ft2) | 81.6 | 93.2 | 120.3 |
| ☑ | Source EUI | Source EUI (kBtu/ft2) | 156.6 | 233.1 | 215.5 |
| ☑ | Source EUI Weather Normalized | Weather Normalized Source EUI (kBtu/ft2) | 156.6 | 227.1 | 207.3 |
| ☑ | National Median Source EUI (kB | National Median Source EUI (kBtu/ft2) | 272.5 | 311.3 | 282.3 |
| ☑ | Parking - Gross Floor Area (ft2) | Parking - Gross Floor Area (ft2) | 291660 | 174000 | 89041 |
| ☑ | Organization | Organization | MileStone Community Builders | Pangea Properties | Matt Martin Real Estate Management |
| ☑ | Generation Date | Generation Date | 4/1/13 8:22 AM | 3/26/13 1:41 PM | 9/27/13 11:41 AM |
| ☑ | Release Date | Release Date | 4/1/13 4:22 AM | 3/26/13 9:40 AM | 9/27/13 11:42 AM |

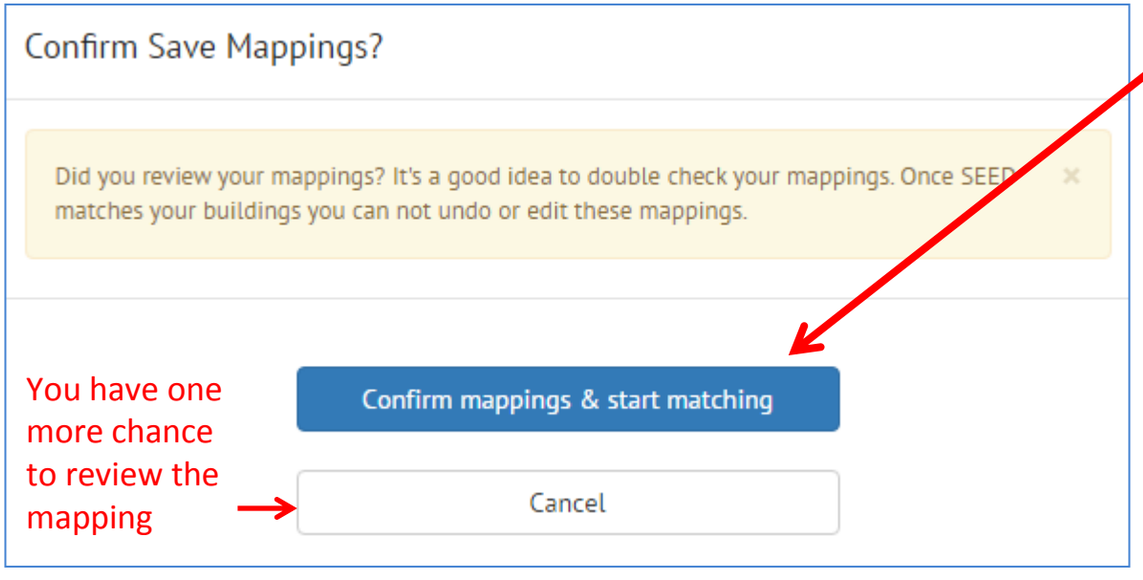
Click **Map Your Data** when the field mapping is set

# Data Mapping – ENERGY STAR Portfolio Manager Data

Review mapping
Click **Save Mappings** if mapping is correct



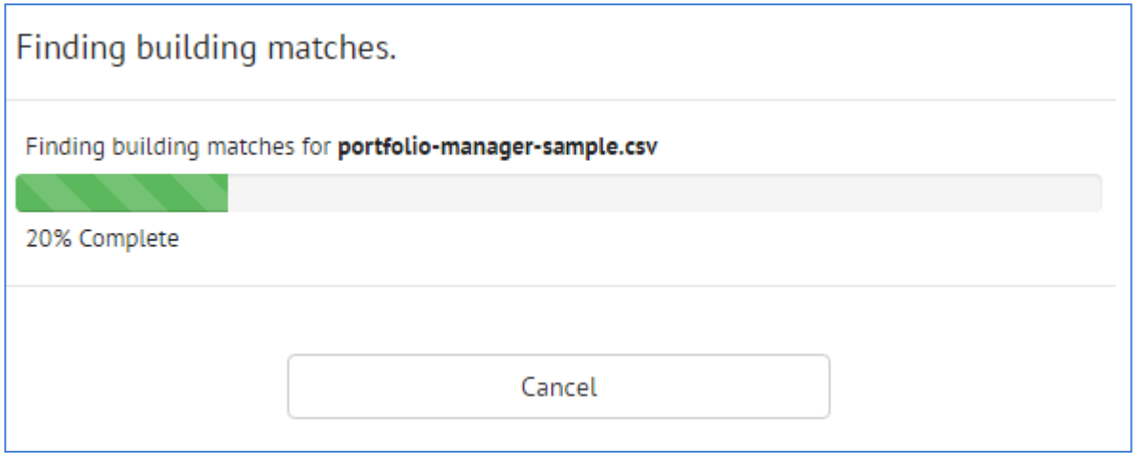
# Data Mapping – Confirm and Start Matching




You have one more chance to review the mapping

Click **Confirm mappings and start matching** if you are happy with the data mapping

SEED will check to see if any records match within the file (or across other files if they have already been imported)

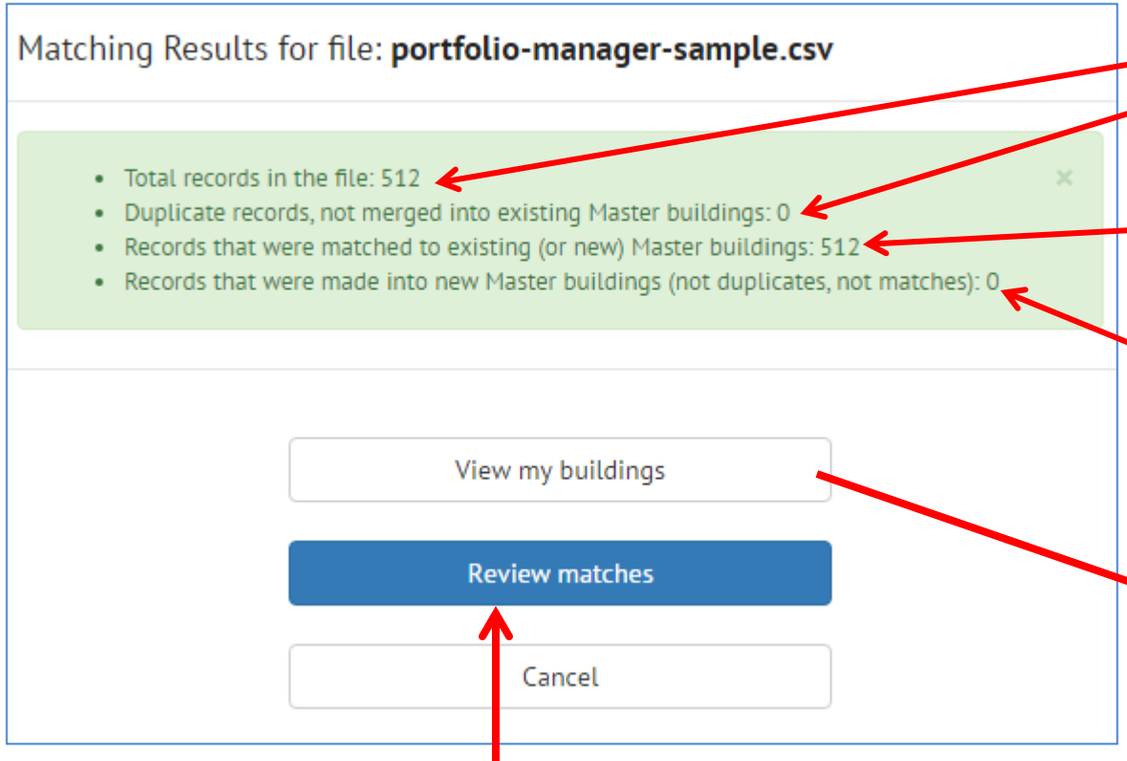



Program checks to see if any records match within the file (such as Address or Tax Lot ID)

In this example, using the Sample data, the **matching field** that is common between the two data files, Covered Building List and the Portfolio Manager data is **Address Line 1.**

# Data Matching -- Results

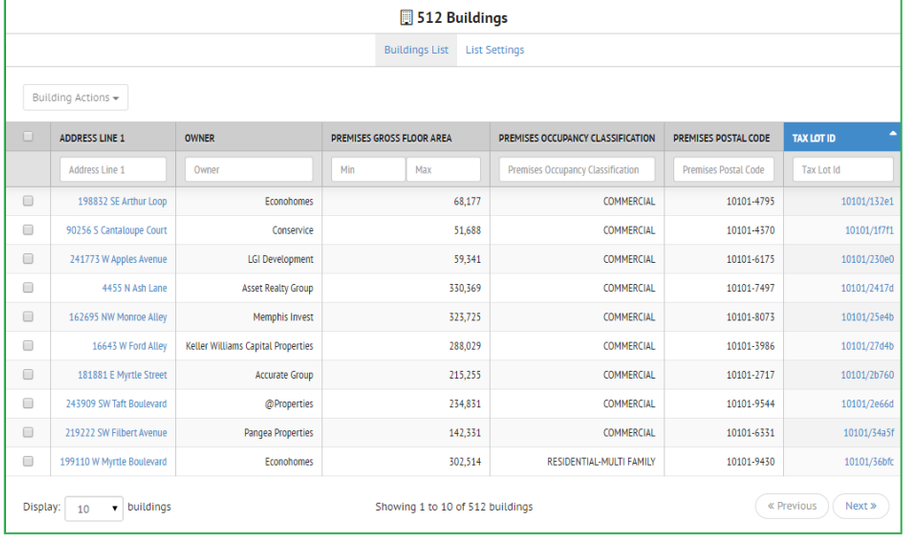
The program reports the results of the matching




- Total records imported from the file
- Records that exactly matched between the existing buildings and the newly imported buildings – these are considered "duplicates" and are not imported
- Records that the program was able to match between the existing buildings and the newly imported buildings on the matching field(s) – in this case they matched 1:1, so 512 records matched on **Address Line 1**
- Records from the newly imported file that could not be matched to an existing building, and so are made into new building records.

Click **View my buildings** to see the Building list

After a data file has been mapped and matched, the program adds those records to Building list.




Click the
**Review Matches** button
to go to the Matching *screen (see next page)* to see how the program matched the records between the existing buildings created from the **Covered Building List** and the newly imported records from the **Portfolio Manager data set**

# Record Matching – Review

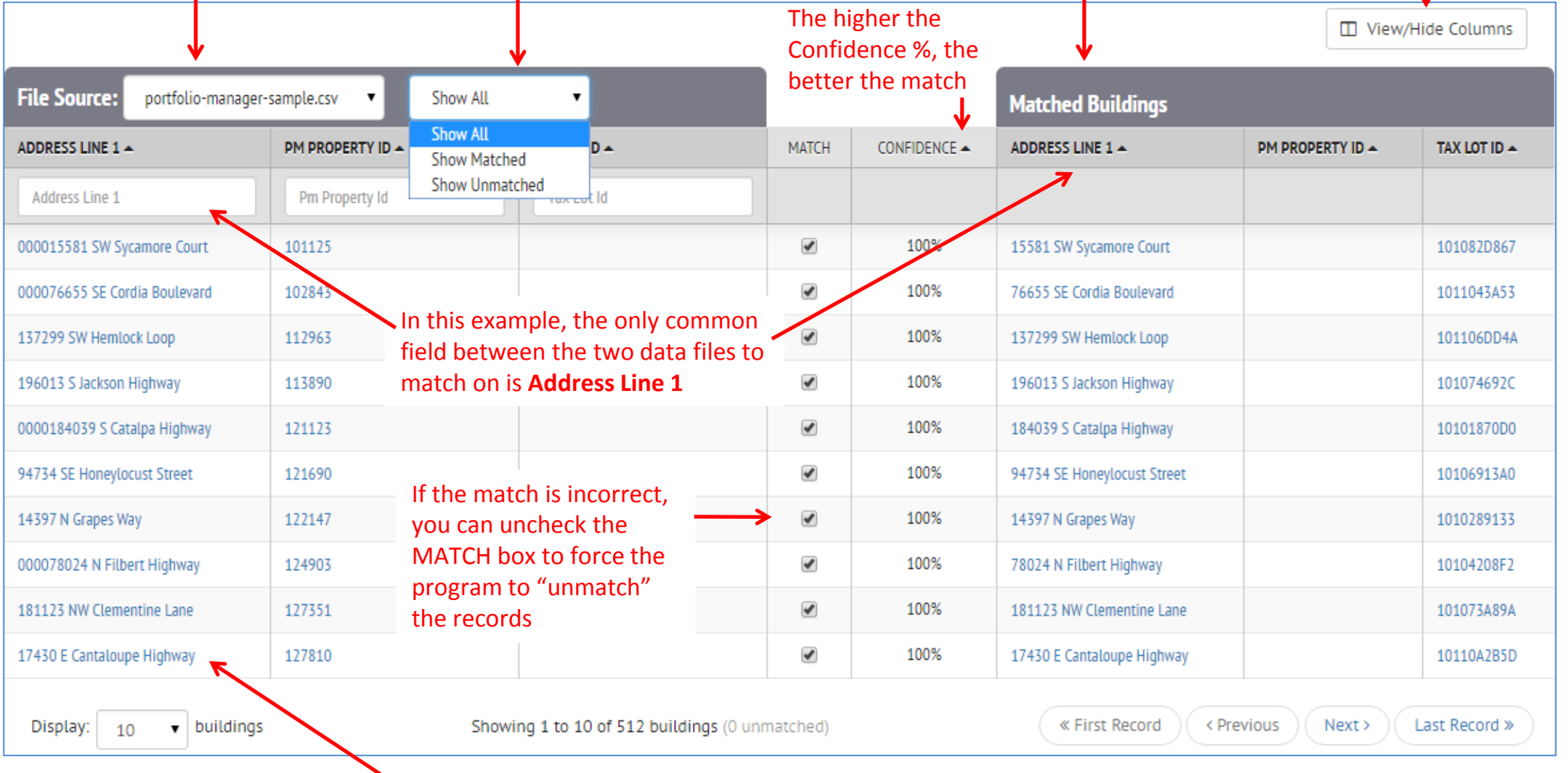
Data file name being matched to the existing building records

The pulldown list allows you to see all the records, just the matched records, or just the unmatched records

Existing building record being matched to

Click **View/Hide Columns** to control the fields that are displayed

The higher the Confidence %, the better the match

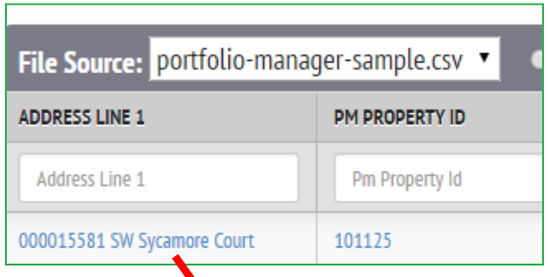



In this example, the only common field between the two data files to match on is **Address Line 1**

If the match is incorrect, you can uncheck the MATCH box to force the program to "unmatch" the records

Click on a record (**Address Line 1**) to see the details of the record match *(see next page)*

# Record Matching – Match by hand



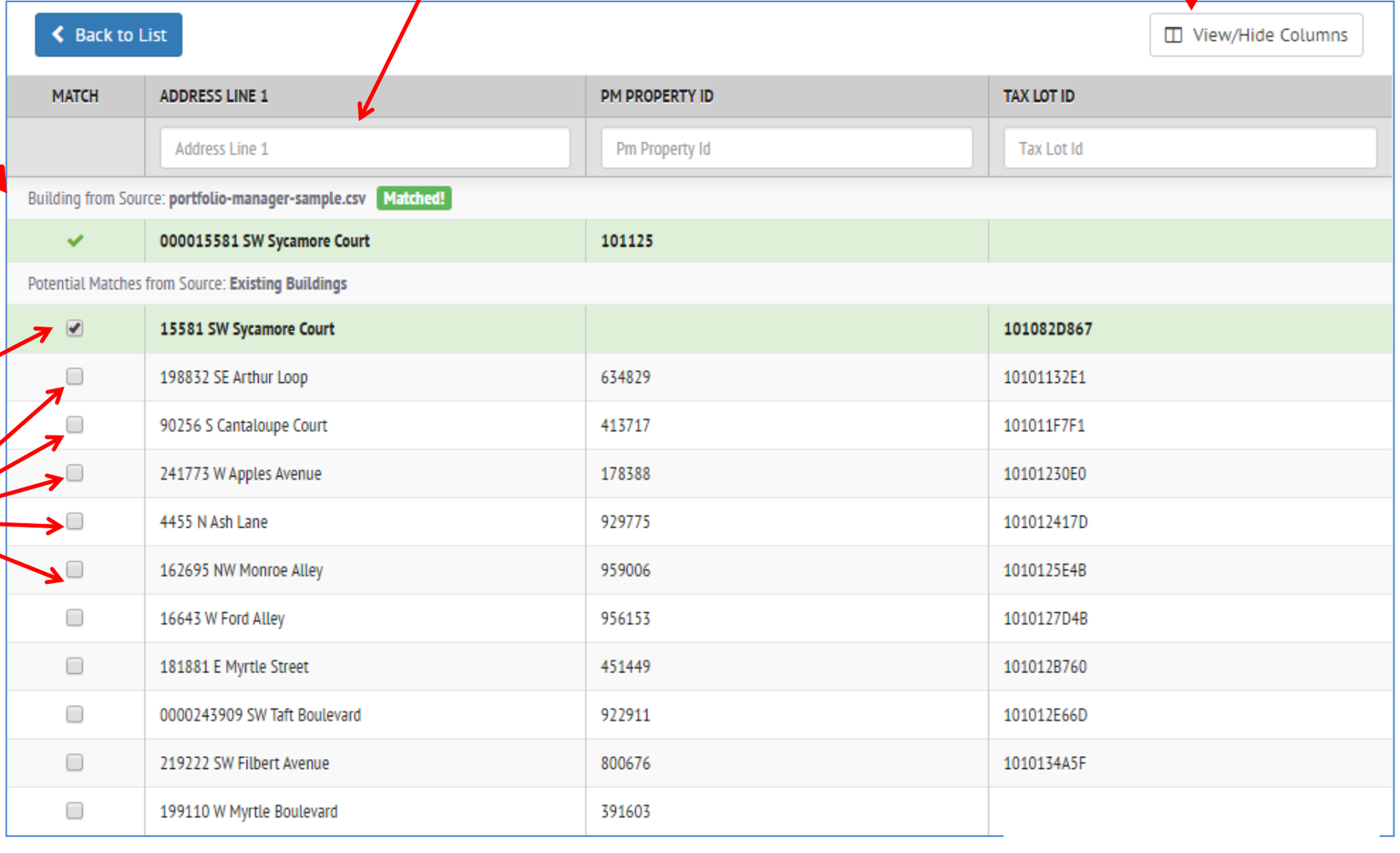

You can match “by hand” if needed

- To unmatch the automatic matching done by the program
- To force a match that the program didn’t make

Click on an Address or ID from the Matching list to see the details of the matched records

Type criteria into the **Filter** box to see if there are other records you want to match “by hand”

Click **View/Hide Column** to select the fields to display

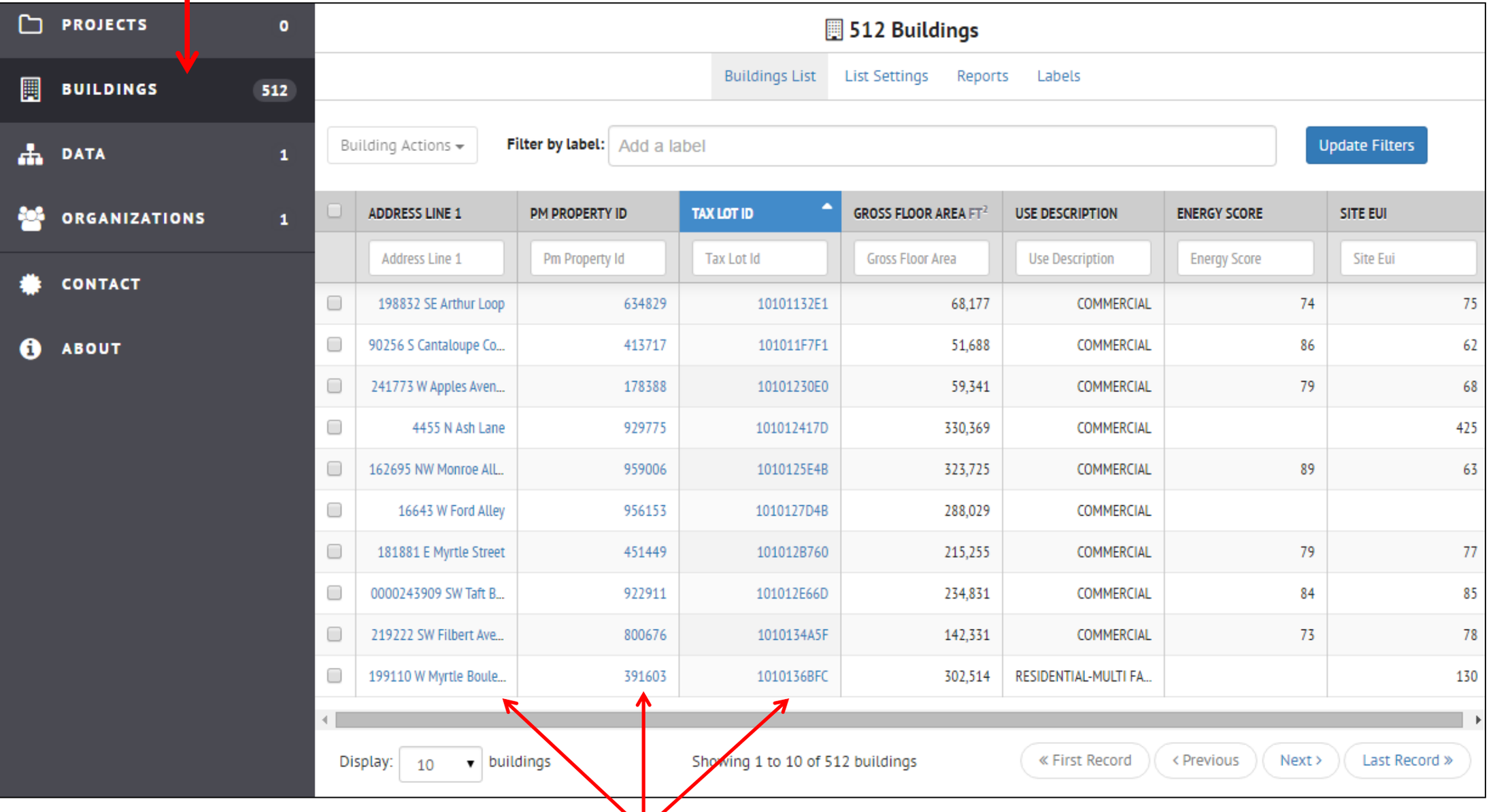



You can **uncheck** the record the program matched, if needed

You can also **check** (select) multiple building records to be associated with one Portfolio Manager record and vice-versa

# Buildings – List View

Click on the **Buildings** navigation tab to see the list of buildings created from importing, mapping and matching data




Click on a field highlighted in blue
(**Address Line 1, PM Property ID, Tax Lot ID**)
to view the details of the building record

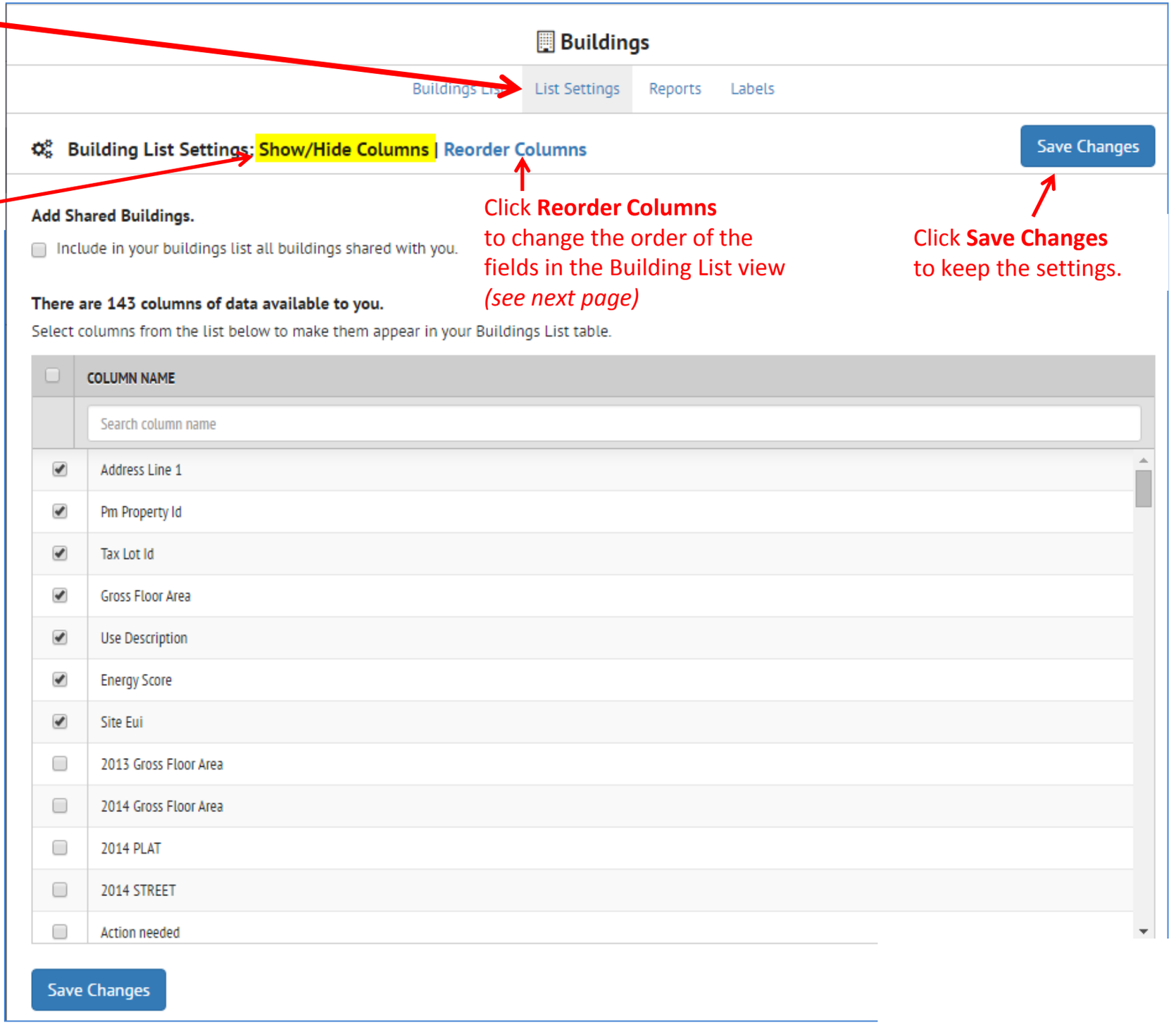
# Buildings – List View – List Settings – Show / Hide Columns

**List Settings** controls the fields displayed in the Building List view

The first view is **Show/Hide Columns**

Check the box at the top to **select all** or **de-select all** the fields

The field settings defined here also affect the fields displayed in the **Matching** screen



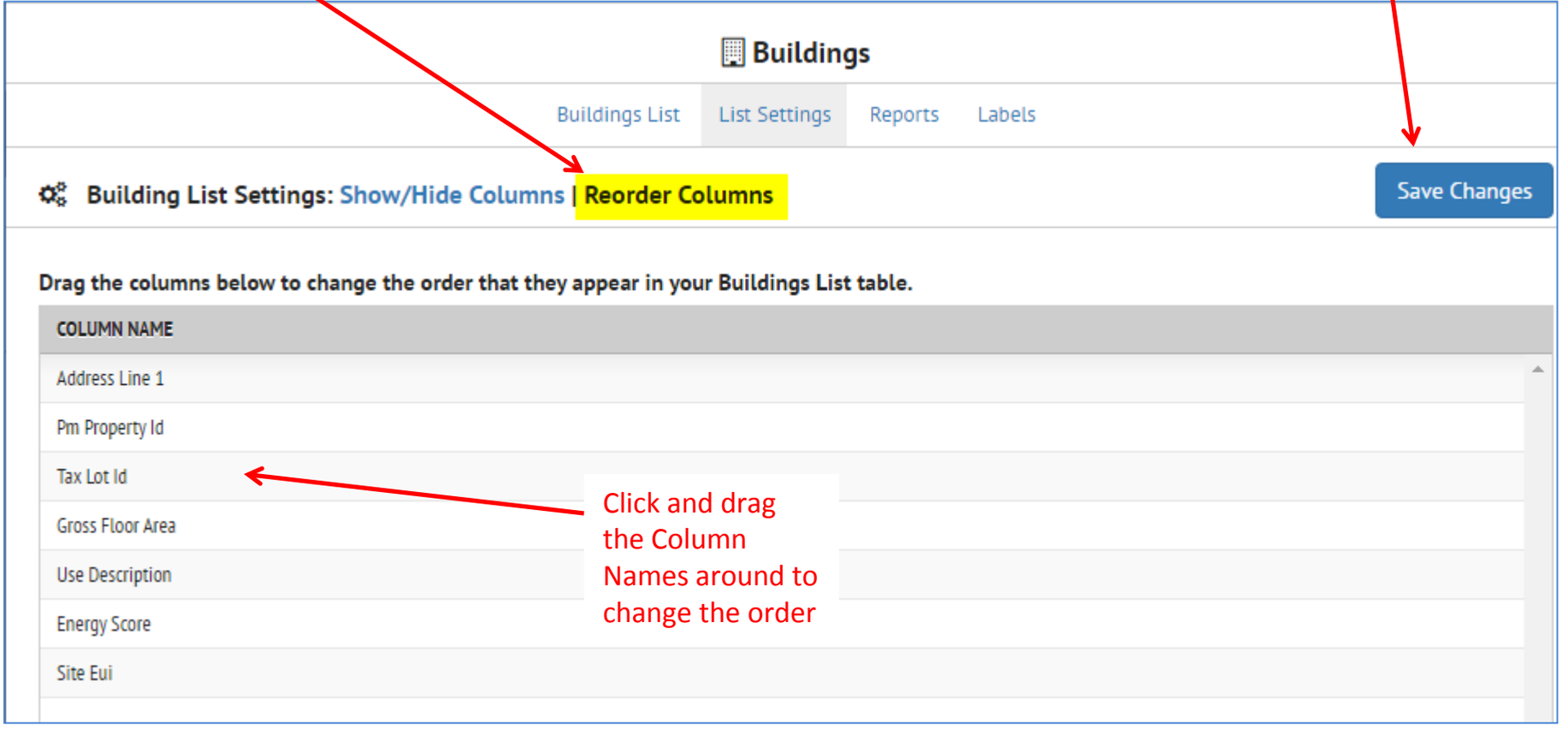

Click **Reorder Columns** to change the order of the fields in the Building List view *(see next page)*

Click **Save Changes** to keep the settings.

# Buildings – List View – List Settings – Reorder Columns

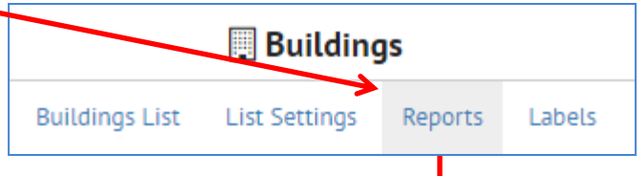
**Reorder columns**
allows you to control the order of the fields in the Building List view

Click **Save Changes** to keep the settings.



# Buildings – List View – Reports

From the **Building List** view click on **Reports**



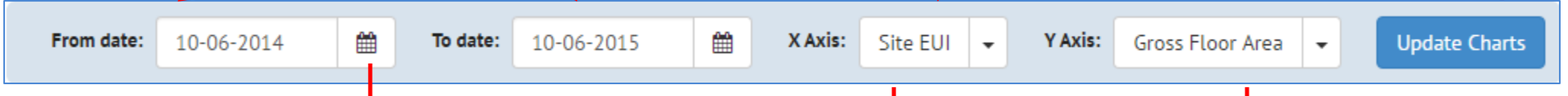

Select criteria to graph

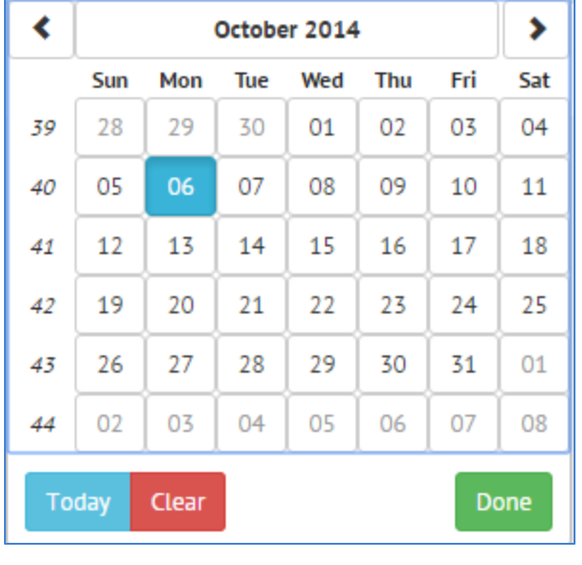
Click **Update Charts**

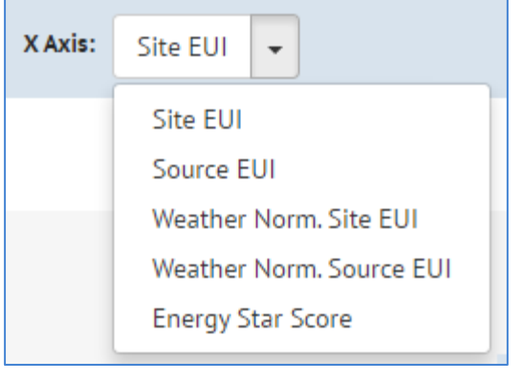
**To and From Dates** (based on Year Ending field)

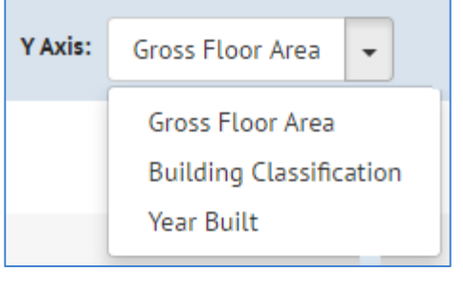
**X Axis** (Energy data)

**Y Axis** (Building Characteristic)



# Buildings – List View – Reports

**Scatter Plot with all buildings**

**Bar Graph with Median Values**

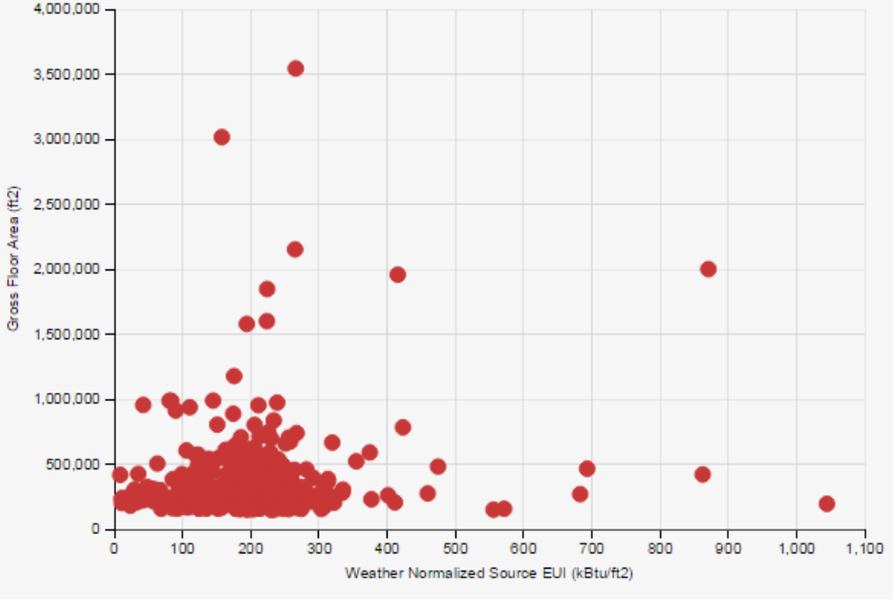
Buildings

Buildings List | List Settings | Reports

Building Reports

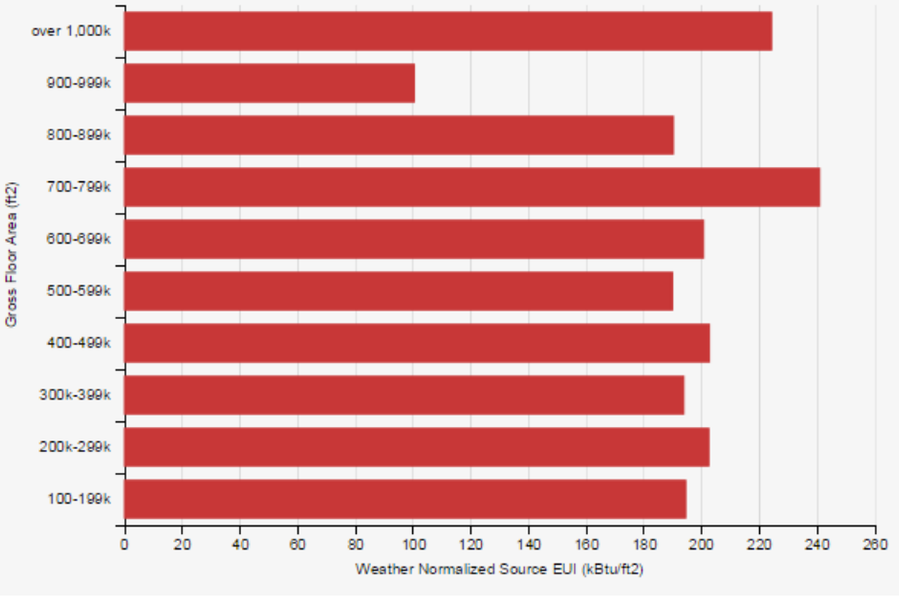
From date: 1-1-2012 To date: 12-31-2012 X Axis: Weather Norm. Source EUI Y Axis: Gross Floor Area Update Charts

Weather Normalized Source Energy Use Intensity vs. Gross Floor Area




| Year Ending | Buildings with Data | Total Buildings |
|---|---|---|
| 2012-12-31 | 392 | 443 |

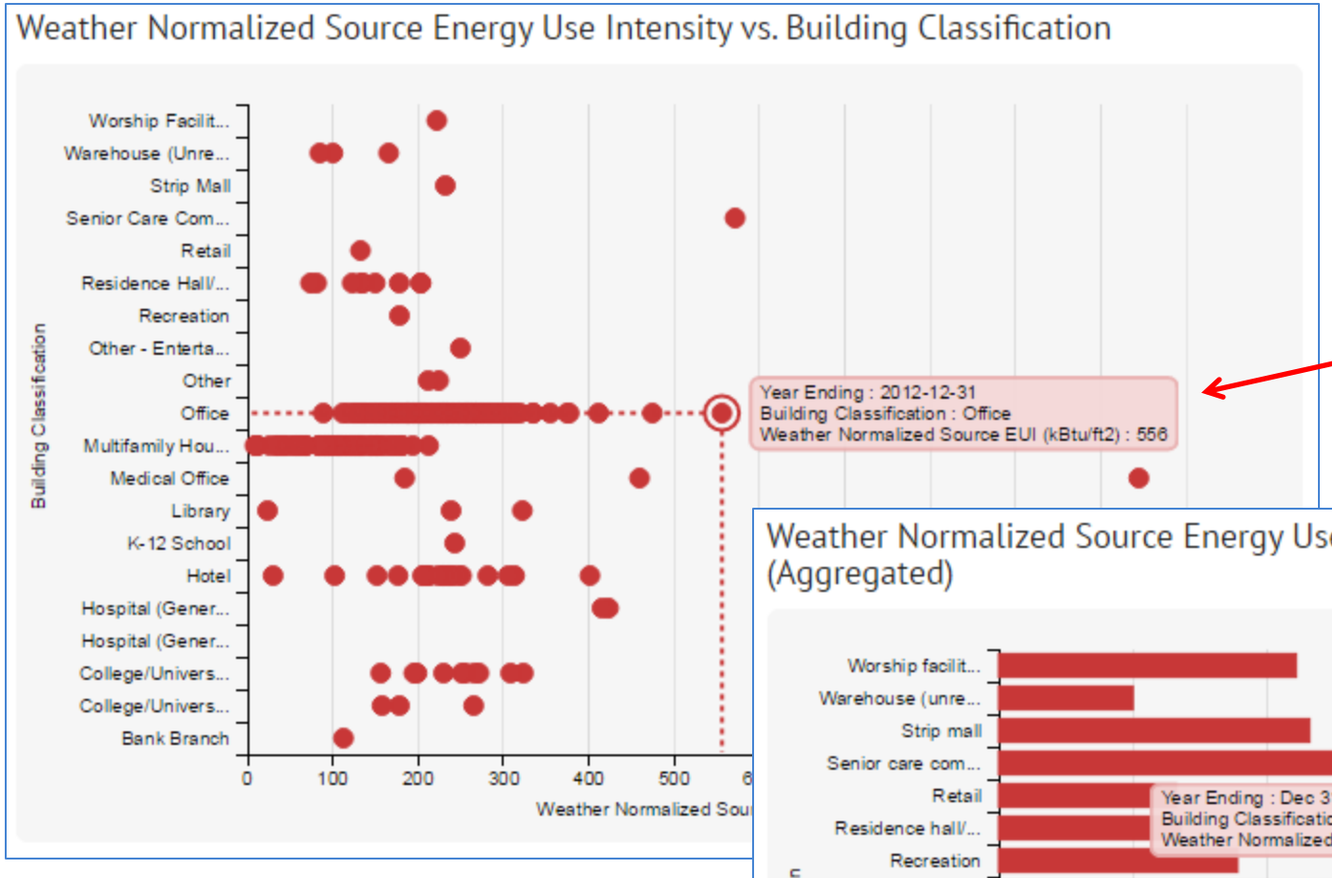
Weather Normalized Source Energy Use Intensity vs. Gross Floor Area (Aggregated)



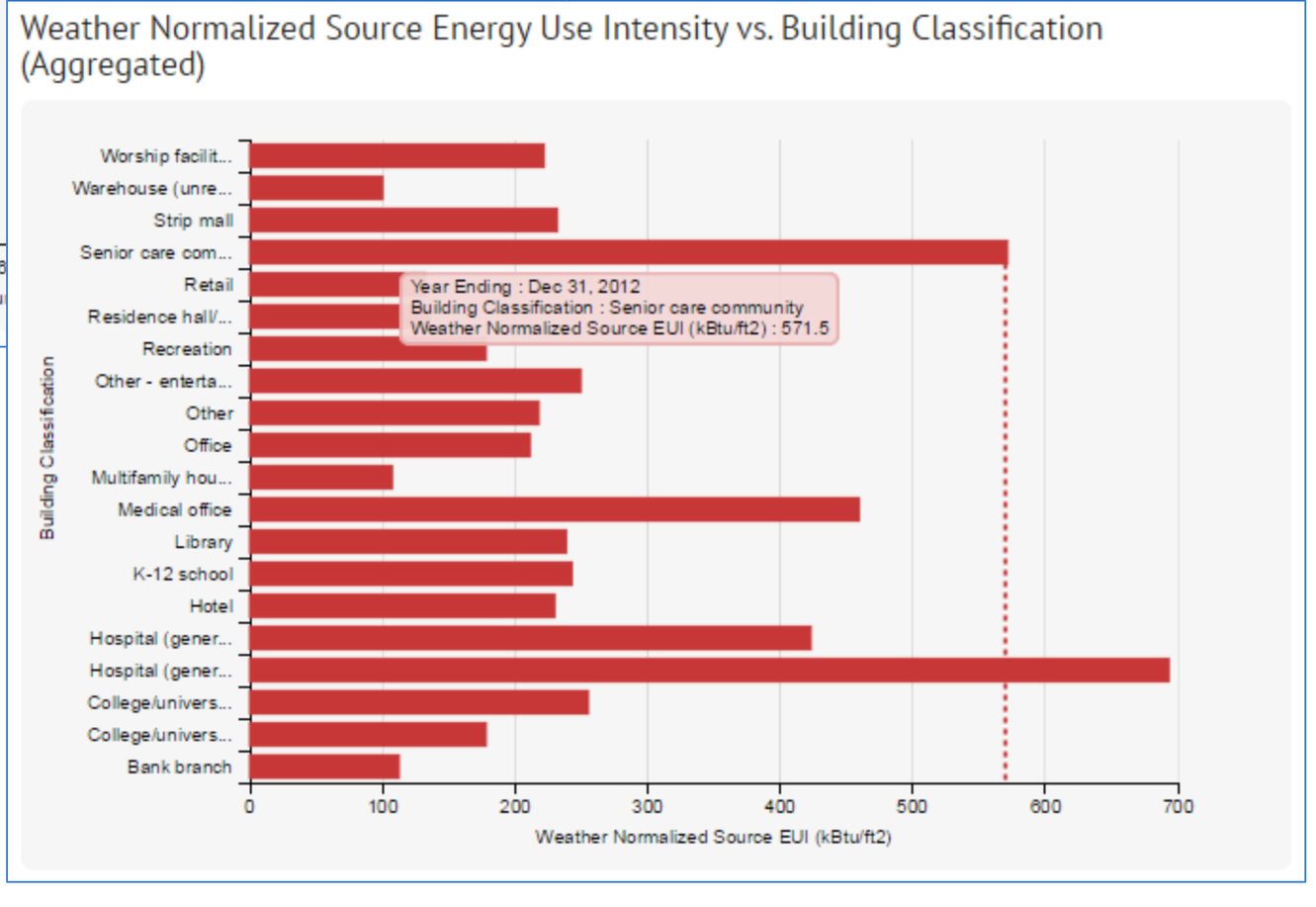

| Year Ending | Buildings with Data | Total Buildings |
|---|---|---|
| Dec 31, 2012 | 392 | 443 |

Program reports # of graphs actually used for graphs

# Buildings – List View – Reports




Mouse over point to display exact data for that point



# Buildings – List View – Reports

**Multiple years of data**
(based on range of Year Ending dates)

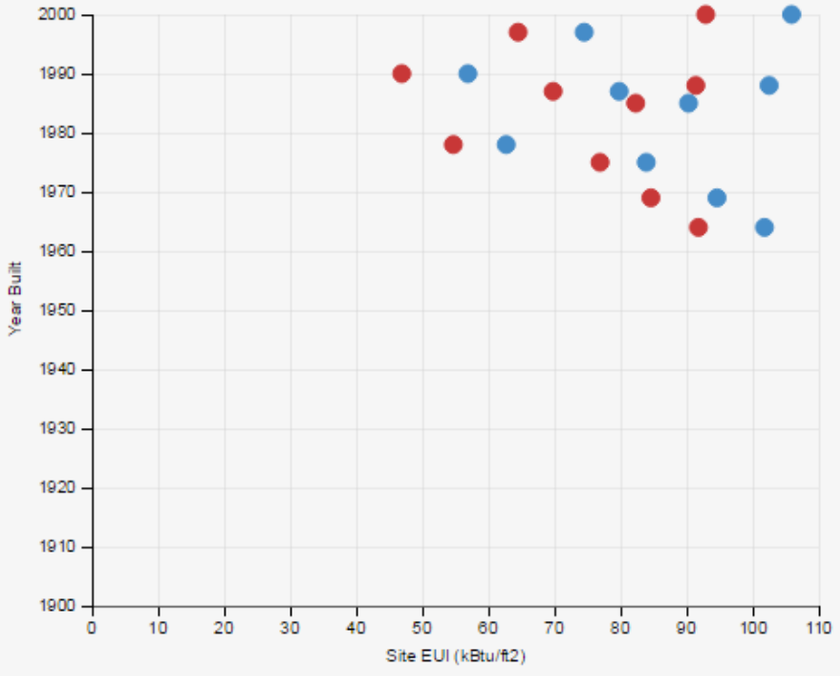
Buildings

Buildings List | List Settings | Reports

Building Reports

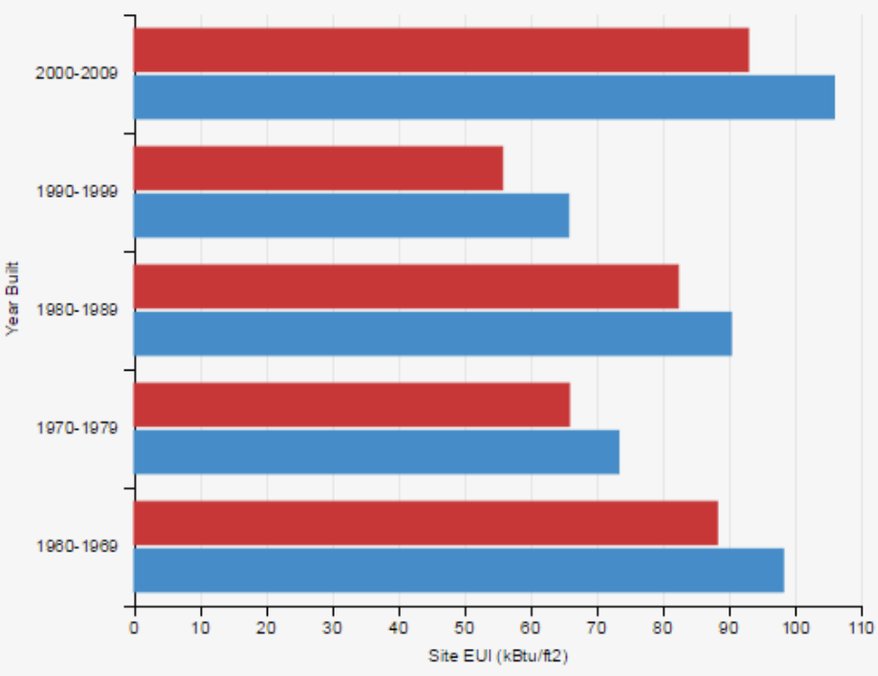
From date: 1-1-2011 To date: 12-31-2012 X Axis: Site EUI Y Axis: Year Built Update Charts

Site Energy Use Intensity vs. Year Built




| Year Ending | Buildings with Data | Total Buildings |
|---|---|---|
| 2012-12-31 | 10 | 10 |
| 2011-12-31 | 10 | 10 |

Site Energy Use Intensity vs. Year Built (Aggregated)

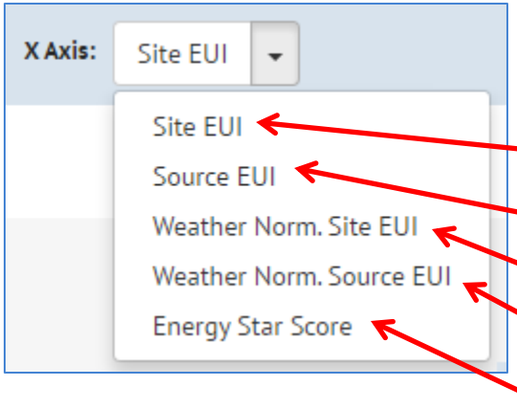


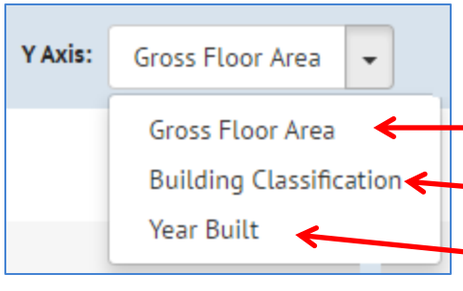

| Year Ending | Buildings with Data | Total Buildings |
|---|---|---|
| Dec 31, 2012 | 10 | 10 |
| Dec 31, 2011 | 10 | 10 |

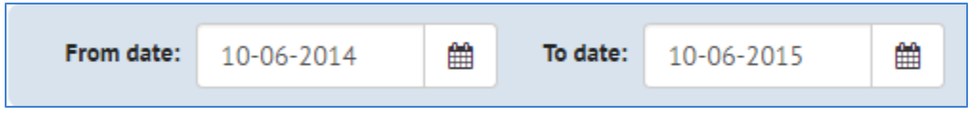
# Buildings – List View – Reports – Mapping

**You need to map the following fields in order for the reports to work**

*(Future work will include the ability to select fields that you want to plot so the mapping will not be as critical)*



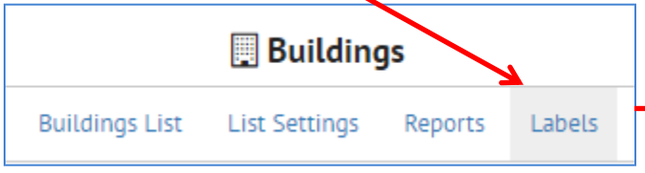

## Mapped Fields

| SEED HEADER | DATA FILE HEADER |
|---|---|
| Site EUI | Site EUI (kBtu/ft2) |
| Source EUI | Source EUI (kBtu/ft2) |
| Site EUI Weather Normalized | Weather Normalized Site EUI (kBtu/ft2) |
| Source EUI Weather Normalized | Weather Normalized Source EUI (kBtu/ft2) |
| Energy Score | ENERGY STAR Score |
| Gross Floor Area | Gross Floor area |
| Use Description | Use Description |
| Year Built | Year Built |
| Year Ending | Year Ending |
| Release Date | Release Date |

**Release date** is needed in order to determine which Portfolio Manager record is the most current, if there are multiple records with the same Year Ending date

# Buildings – List View – Labels

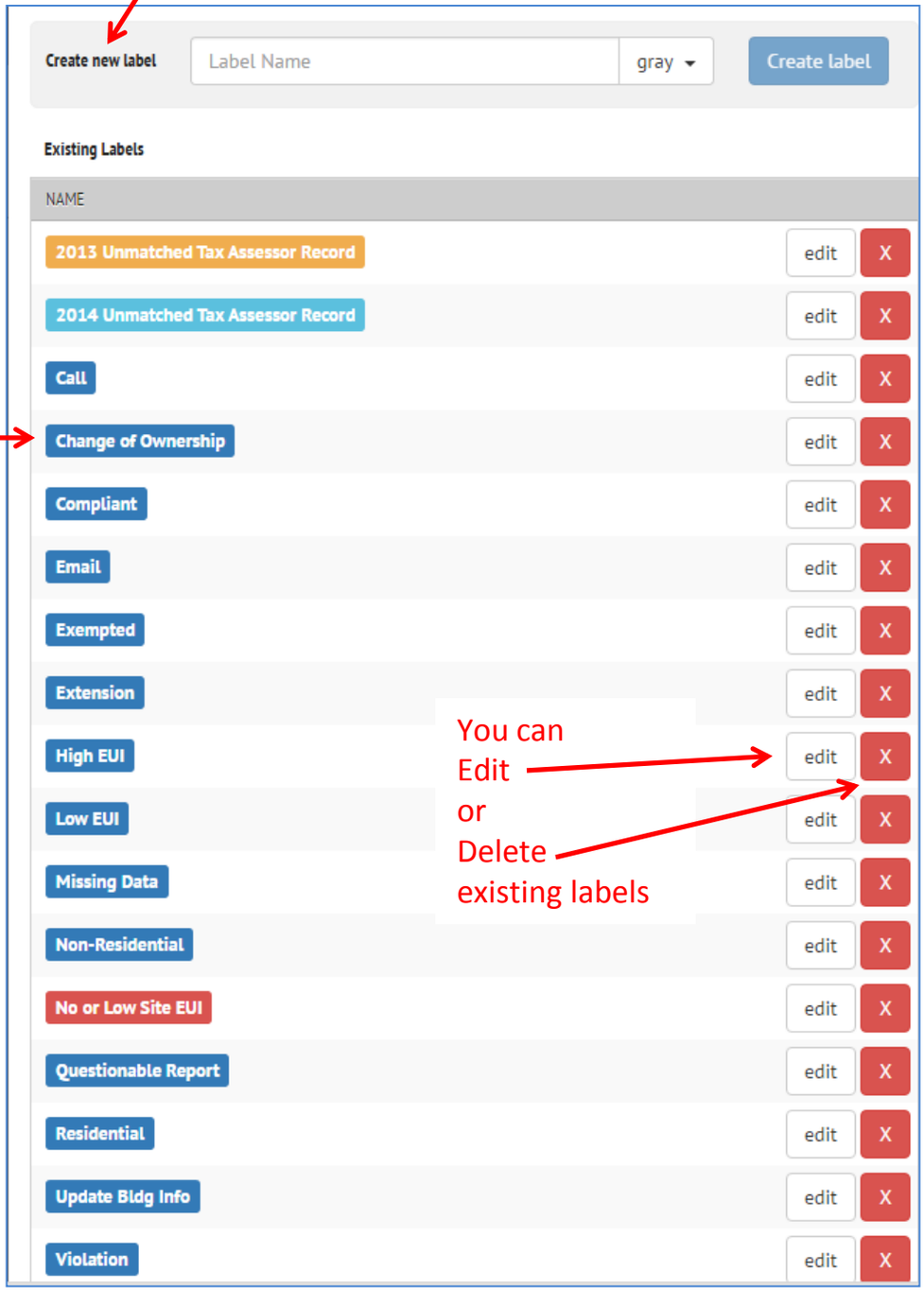
From the **Building List** view click on **Labels**




**In this screen you can predefine as many labels as you need**

A set of default labels are automatically generated (dark blue)

You can create new labels



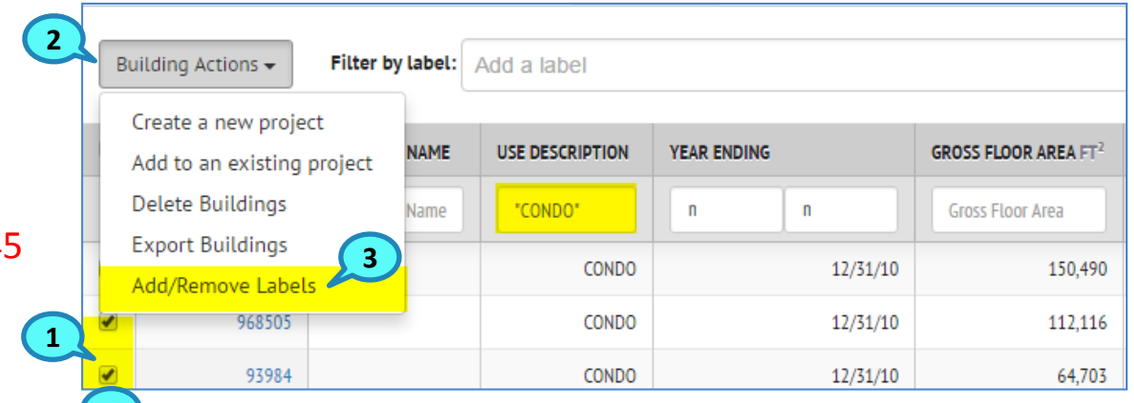
# Buildings – List View – Labels

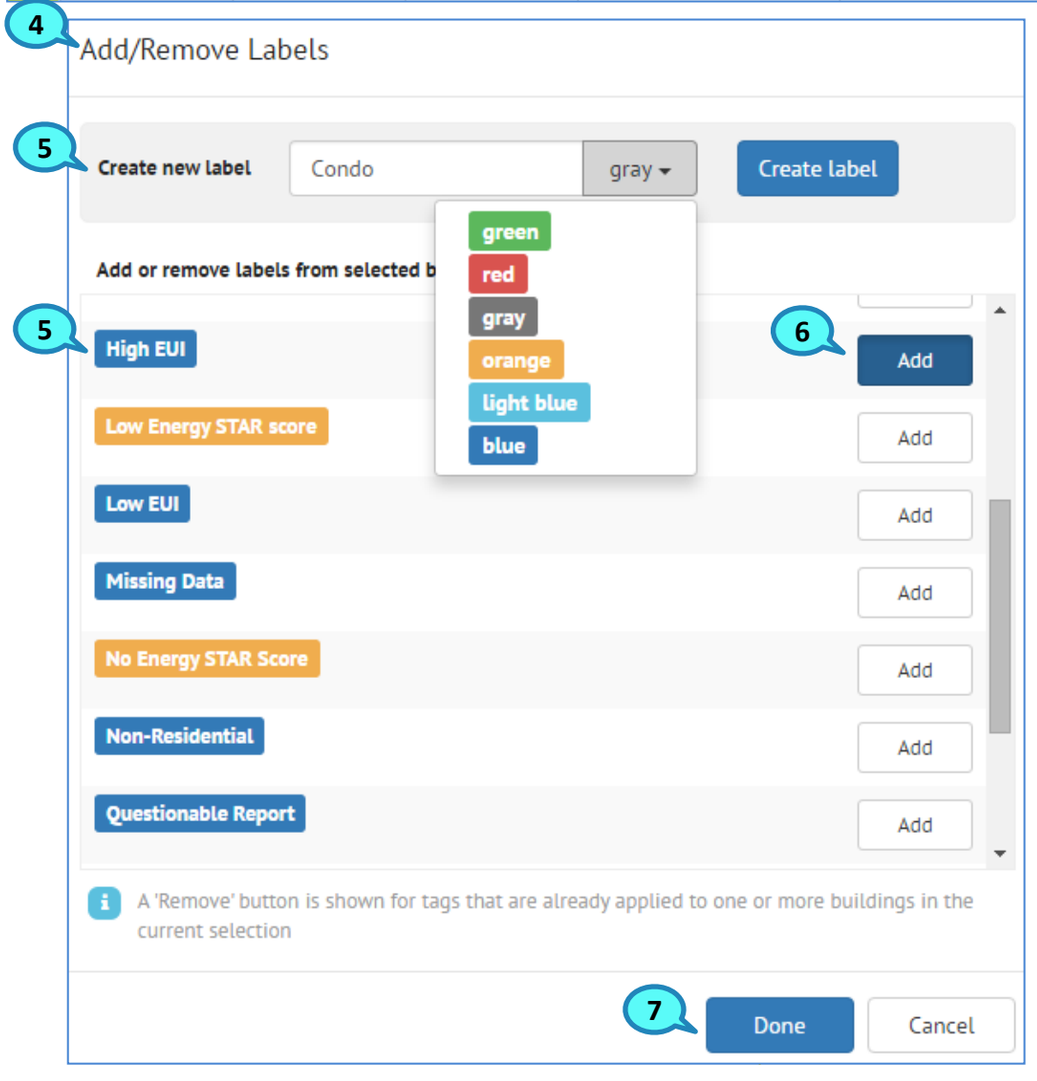
**You can also define labels "on the fly" from the Building List**

In the Building list, you can filter on a field, such as Use Description.
When the filter is displaying the correct records, in this case 45 out of 512 that have Use Description = CONDO, you can label those records

1. Select all the records by click the checkbox to the left of the column names
2. Click the Building Actions pulldown list
3. Select the Add/Remove Labels choice
4. The Add/Remove Labels box appears
5. From that screen, either
   - Make a new label in the Create new lab box *(specify the name, color, and click **Create Label**)*
   - or
   - Select an existing label
6. Make sure the Add button is highlighted in blue for the label you want to apply
7. Click the Done button

The label will be added to all the selected records
You can view the labels for each record in the Building Detail view *(see next page)*

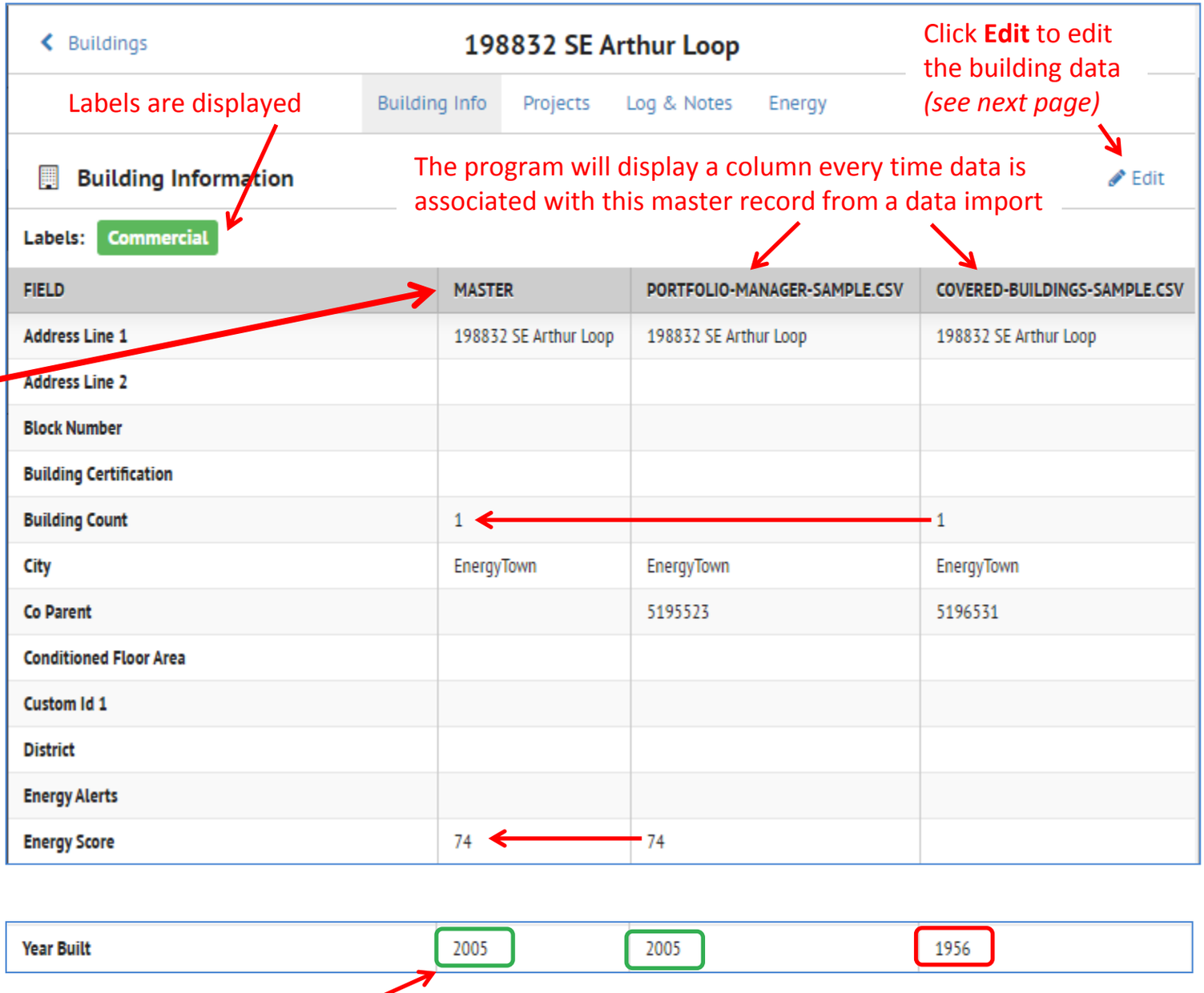


# Buildings – Detail View

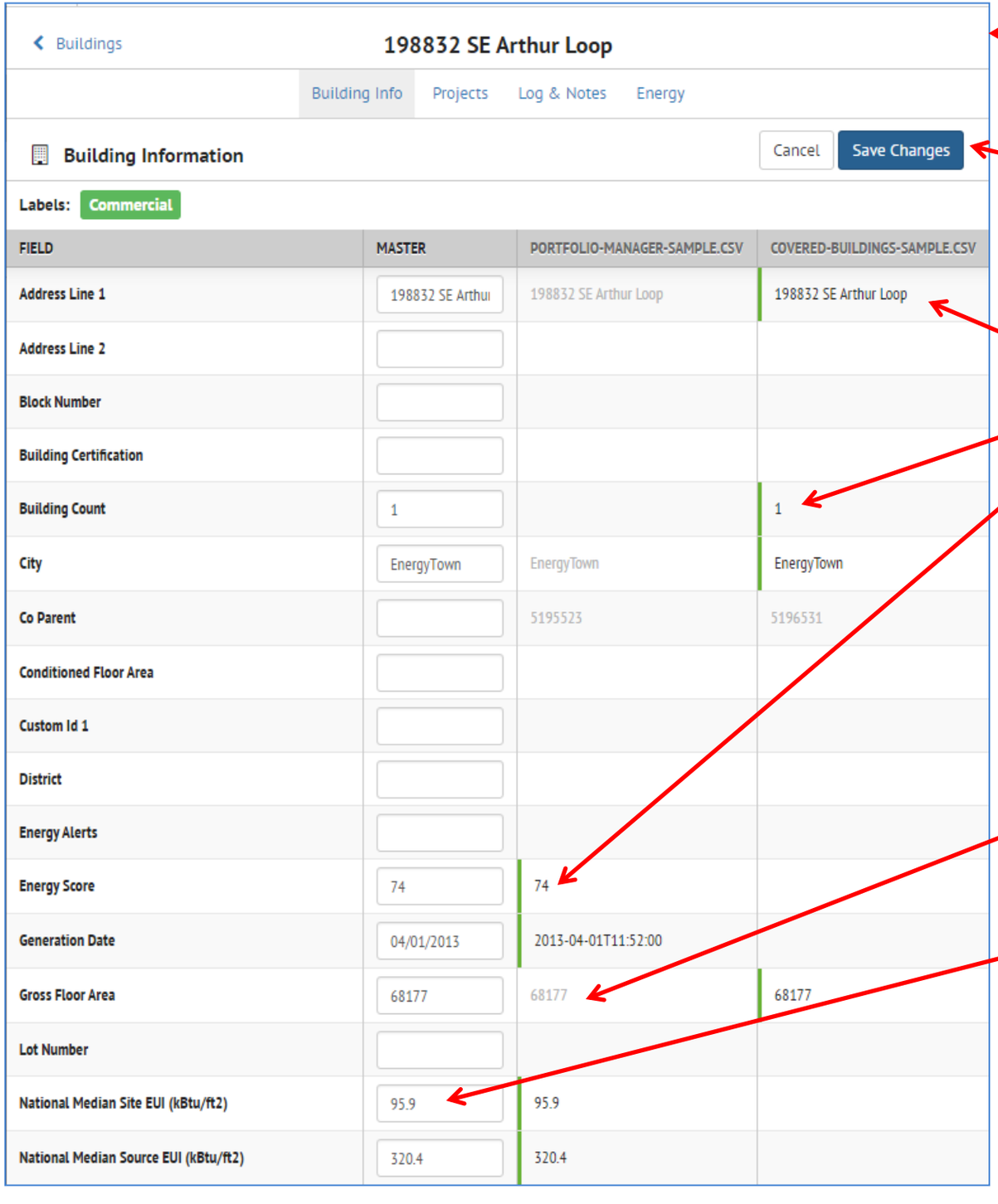
From the Building List view, you can click on a record and access the Building Detail view.

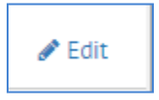
SEED has combined the data from the Tax Assessor building file (covered-buildings-sample.csv) and the ENERGY STAR Portfolio Manager file (portfolio-manager-sample.csv) into a **Master** record for each matched record.




If there are two different values for the same field, SEED populates the Master record with the value from the latest data file loaded, in this case the “Portfolio-Manager-Sample.csv”

# Buildings – Detail View – Edit




Click **Edit** to change the information in the record.

When you have finished editing a record, click the **Save Changes** button.

The green bars show the source of the data in the Master record.

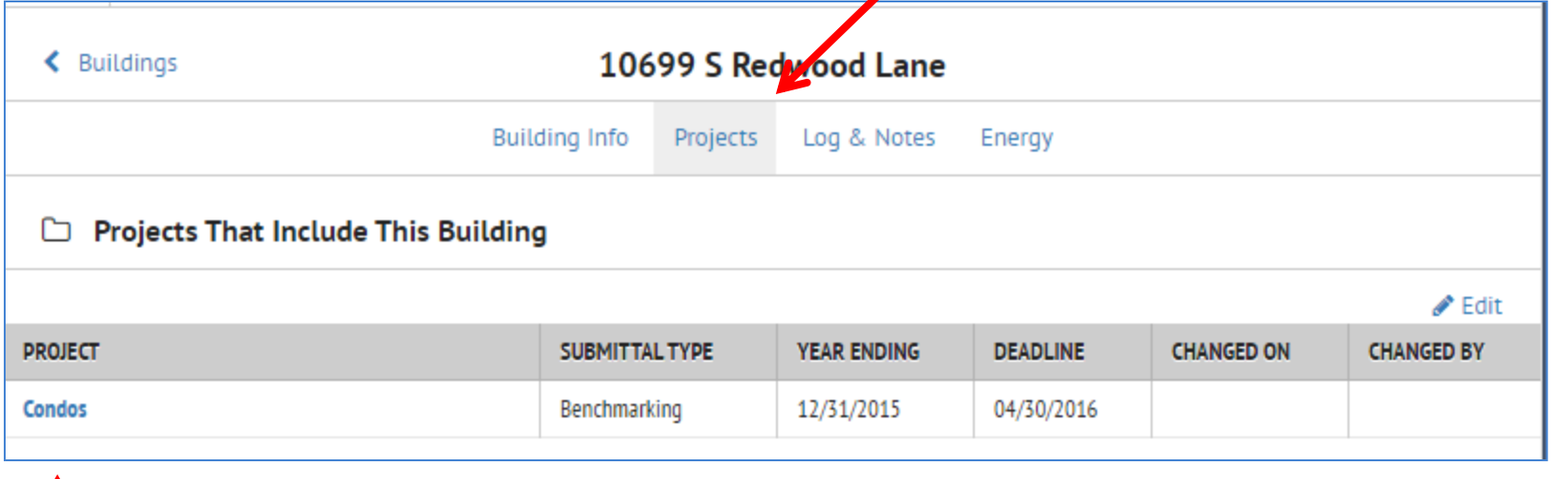
To Edit Data:

- Click on data that does not have the green bar to move it to the Master record.
- Or click on the Master Record data field and edit it directly.

# Buildings Detail View – Projects

The **Projects** tab in the **Buildings** detail view shows what projects are associated with each building record

Click on **Projects** to see the projects and labels the building record is associated with

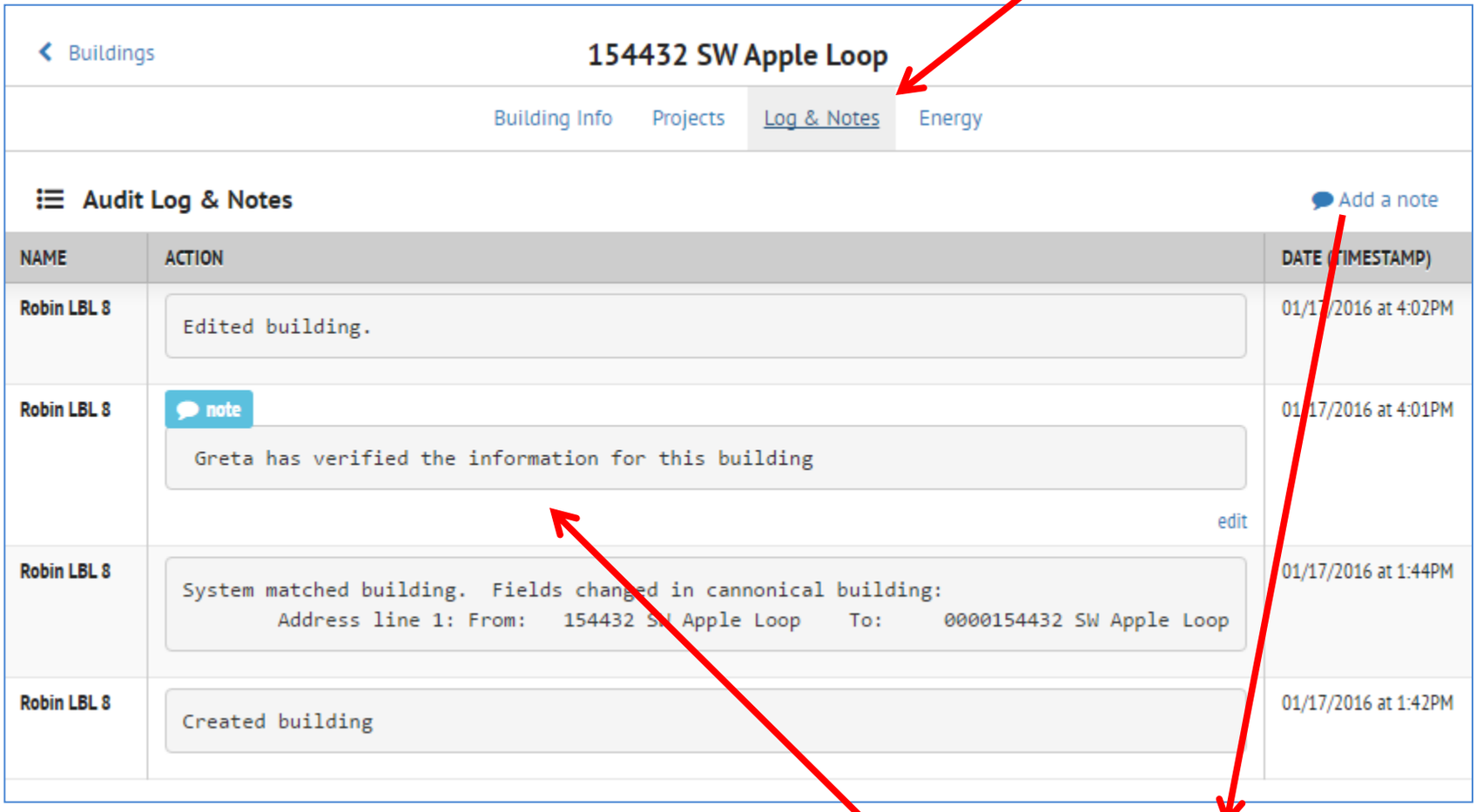


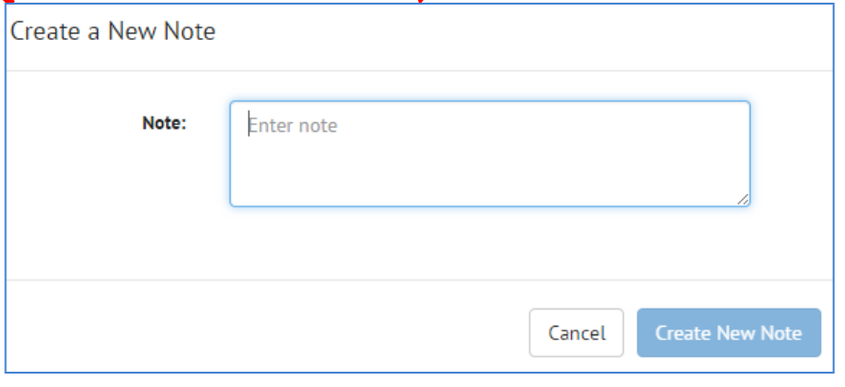

The **Project** column shows the projects this building record is associated with

# Buildings Detail View – Log & Notes

The program logs the record transactions, and allows you to enter notes about the building.

Click on **Log & Notes** to see the **Log** and add **Notes**



# Buildings – Sorting / Filtering

Most of the lists in SEED (Mapping, Matching, Building) allow you to sort and filter on the data in the columns by entering the filter values in the input box below the field (column name)

## Sorting

Ascending

Descending

| PM PROPERTY ID | PM PROPERTY ID |
|---|---|
| Pm Property Id | Pm Property Id |
| 101125 | 998535 |
| 102843 | 996425 |
| 112963 | 995590 |
| 113890 | 994535 |
| 121123 | 994441 |
| 121690 | 993739 |
| 122147 | 991988 |
| 124903 | 989138 |
| 127351 | 987198 |
| 127810 | 979655 |

## Filtering

Numeric fields can have expressions

Text columns can be filtered

| YEAR BUILT | PREMISES OCCUPANCY CLASSIFICATION |
|---|---|
| >=1990,<2001 | hotel |
| 1990 | HOTELS/MOTELS |
| 2000 | HOTELS/MOTELS |
| 2000 | HOTELS/MOTELS |
| 1990 | HOTELS/MOTELS |
| 1992 | HOTELS/MOTELS |
| 1991 | HOTELS/MOTELS |
| 1999 | HOTELS/MOTELS |
| 1998 | HOTELS/MOTELS |
| 1990 | HOTELS/MOTELS |
| 1999 | HOTELS/MOTELS |

Enter values into the input boxes at the top of the field in order to filter the data by those values

The program will then only display the records with values based on the filter criteria

In the example shown, only **Hotels** with **Year Built** between **1990** and **2000** are displayed

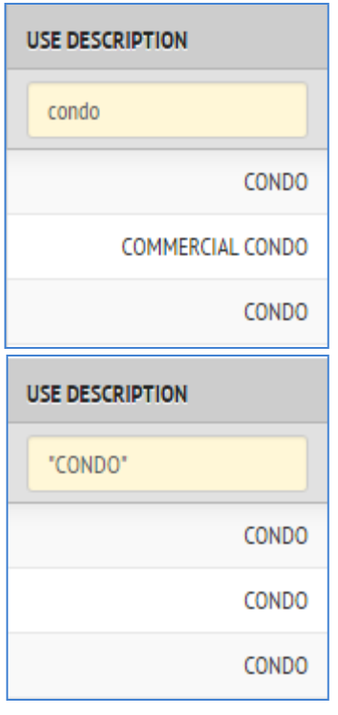
# Buildings – Filtering

Most of the lists in SEED (Mapping, Matching, Building) allow you to sort and filter on the data in the columns by entering the filter values in the input box below the field (column name)

SEED now supports filtering using “expressions” for both text and numeric data

**Text fields:**

- ”” double quotes for null (empty) string
- !”” for non-null (non-empty) string
- Enter a value to show all records that contain that value:
  typing **condo** will show results for **CONDO** and **COMMERCIAL CONDO**
- Enter a value surrounded by double quotes (**“”**) for an exact match (including case):
  typing **“CONDO”** will show results for only **CONDO**

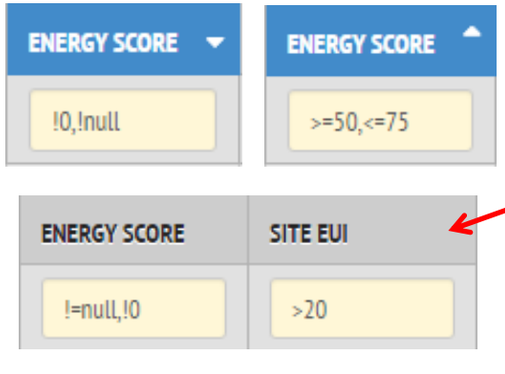



**Numeric fields:**

- The filter field is now a single field that can parse a number of expression formats.
- An expression is one of the following operators.
- Operators: =, ==, !=, !, <>, <, <=, >, >=
- Followed by either a numeric value or the string 'null'
- null can only be used with the equality or inequality operators.
- Multiple expressions should be separated by commas.

**Examples:**

- >100  is greater than 100
- >1984,<1990 is greater than 1984 and less than 1990
- !null, !0  is not null and not equal to 0




Add as many filters as needed, in this case the filter is show only records with Energy Score data (not null and not 0, and with a Site EUI greater than 20

# Buildings – Filtering – Using Labels

Most of the lists in SEED can be sorted using Labels

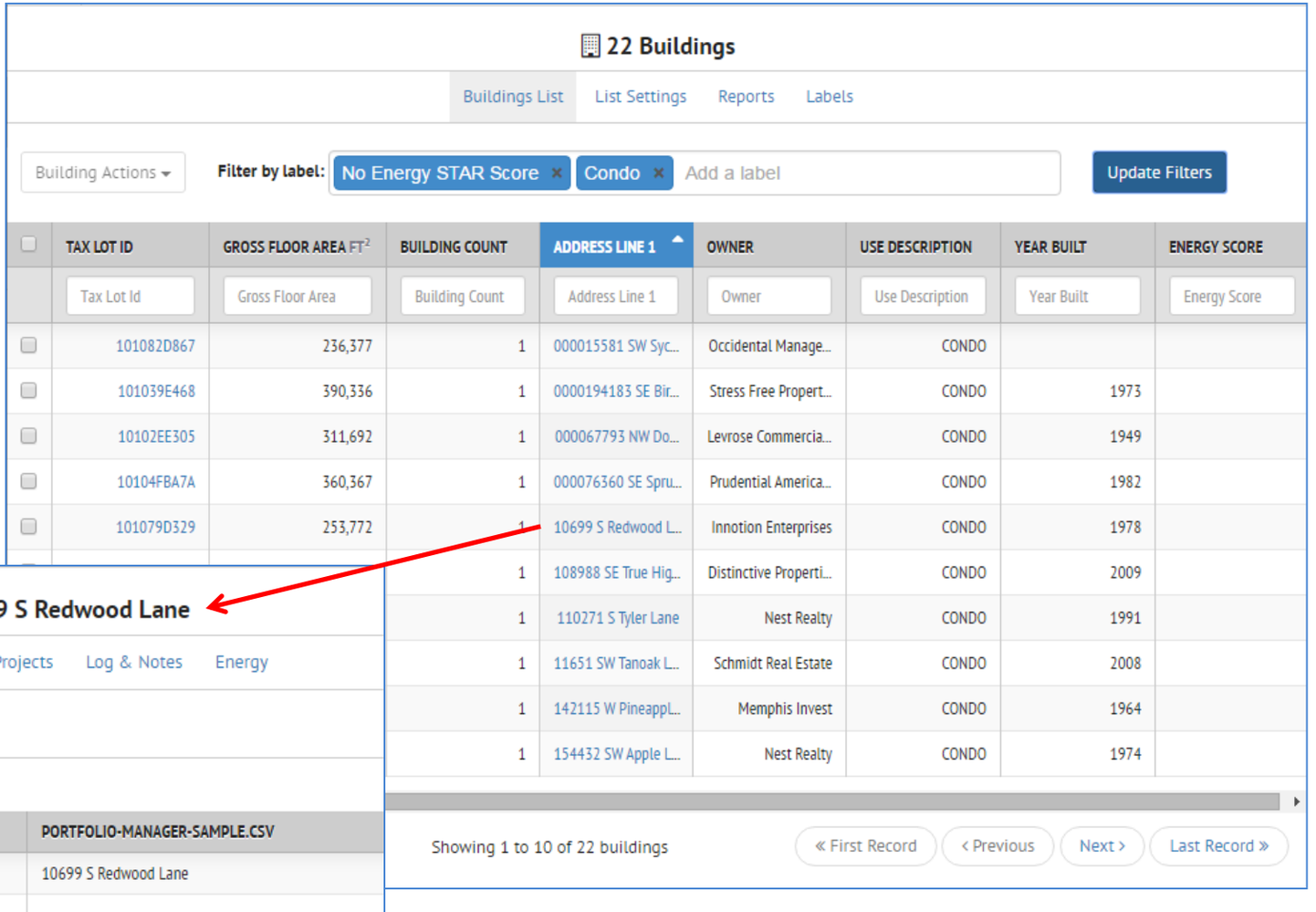
If a label is used as a filter, then all the records with that label will be displayed. Multiple labels can be applied to the filter box.

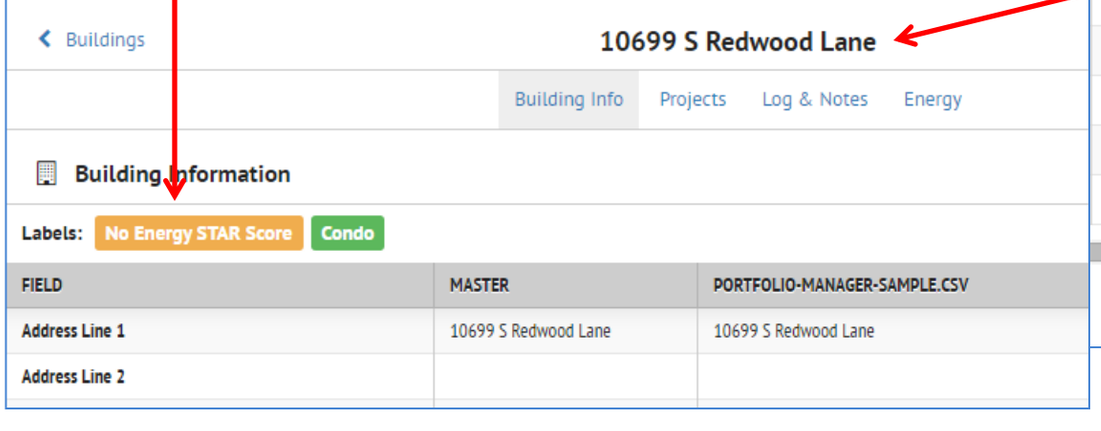
In this example, buildings with a blank ENERGY STAR score have been labeled, and Condos have also been labeled.

Therefore, filtering on the two labels
- No Energy STAR Score
- Condo

results in 22 buildings being displayed

Clicking on one of the records to display the Building detail view shows the labels associated with that record.



# Buildings – Sorting / Filtering

SEED allows expressions in the filter boxes for more complex filtering

| | Numeric Fields | | Text Fields | |
|---|---|---|---|---|
| | **Expression** | **Example** | **Expression** | **Example** |
| **Equal to** | =<br>==<br>or just type the value | **100**<br><br>**=100** | **value**<br>Type the value to filter for records containing that value | **Condo**<br>Returns any records with **condo** in any part of the text field,<br>• **commercial condo**<br>• **residential condo** |
| | | | **"value"**<br>Surround the value with quotes for an exact match including case | **"Commerical Condo"**<br>Returns only records with **Commercial Condo** in the text file |
| **Not equal to** | !=<br>!<br><> | **!0**<br>Returns records with data not equal to zero | | |
| **Less than** | < | **<1990**<br>less than 1990 | | |
| **Less than or equal to** | <= | **<=75**<br>Less than or equal to 75 | | |
| **Greater than** | > | **>100**<br>greater than 100 | | |
| **Greater than or equal to** | >= | | | |
| **Null** | =null<br>==null | | **""**<br>Two double quotes without spaces | |
| **Not null** | !=null<br>!null<br><>null | | **!""**<br>Two double quotes preceeded by and exclamation point (for "not) | |
| **Combined expressions** | | **!null, !0**<br>Returns data that has data, not including values of zero.<br><br>**>=500,<1000**<br>Returns data greater than or equal to 500 and less than 1000 | | |

# Projects – Filter data from Building List for Project

**Projects allow filtered data to be saved together**

*(Labeling in Projects is currently disabled but will be reinstated in future versions)*

**Step 2:**
Select the building records

Building Actions ▾

- Create a new project
- Add to an existing project
- Delete Buildings
- Export Buildings
- Add/Remove Labels

**Step 3:** From the Building Actions pulldown, select Create a new project

43 Buildings

Buildings List | List Settings | Reports | Labels

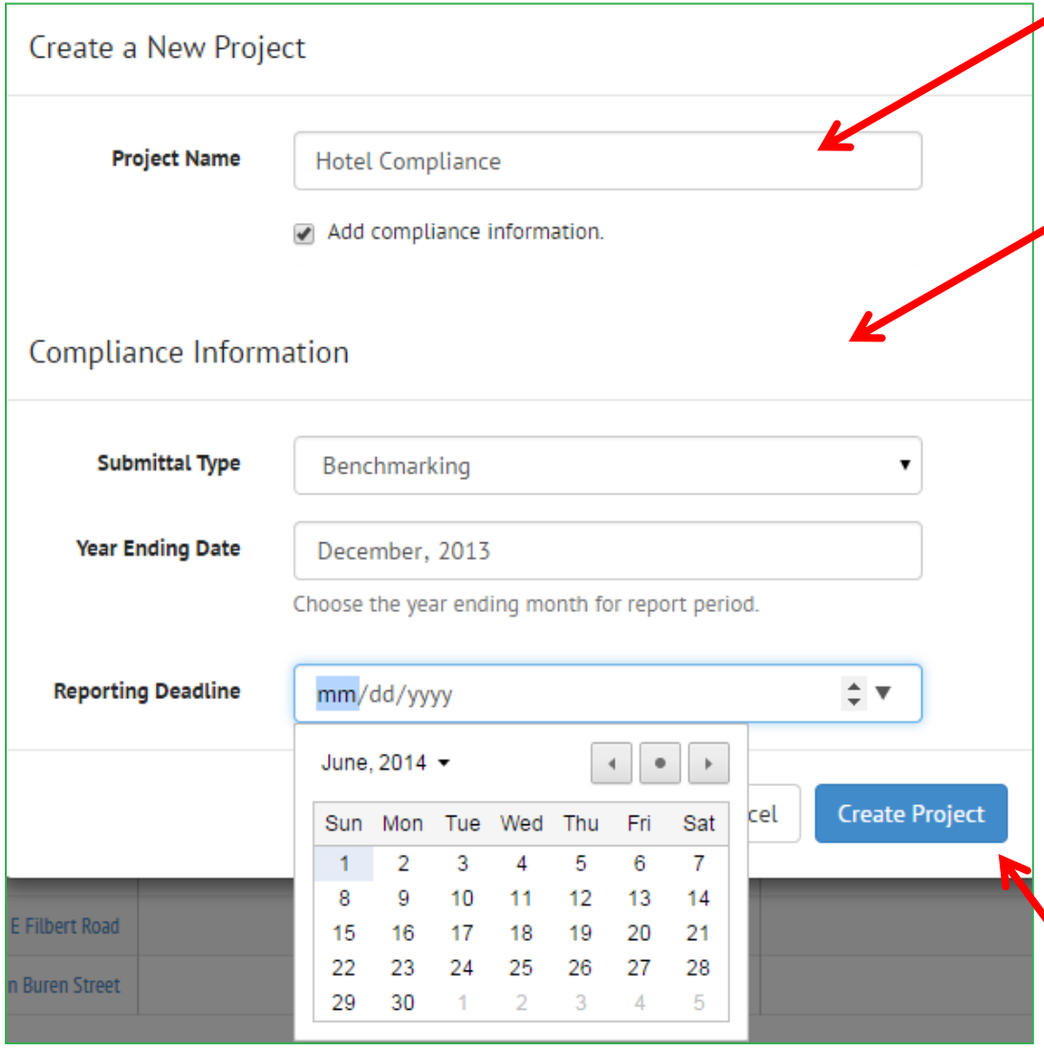
Building Actions ▾ **Filter by label:** Add a label

**Step 1:**
Filter the data as needed

| TAX LOT ID | GROSS FLOOR AREA FT² | BUILDING COUNT | ADDRESS LINE 1 | OWNER | CITY | STATE PROVINCE | POSTAL CODE | USE DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| Tax Lot Id | Gross Floor Area | Building Count | Address Line 1 | Owner | City | State Province | Postal Code | hotel |
| 10105CE1A8 | 258,869 | 1 | 0000108393 N Gr... | Clear Title Agency ... | EnergyTown | Illinois | 10105-8589 | HOTELS/MOTELS |
| 101056B7C3 | 371,595 | 1 | 0000108883 E Fil... | Meridian Pacific Pr... | EnergyTown | Illinois | 10105-4759 | HOTELS/MOTELS |
| 10102971D8 | 224,342 | 1 | 0000139173 N Ma... | Keller Williams Re... | EnergyTown | Illinois | 10102-9320 | HOTELS/MOTELS |
| 101098EA35 | 252,930 | 1 | 0000190741 NW ... | Accurate Group | EnergyTown | Illinois | 10109-5278 | HOTELS/MOTELS |
| 1010316A90 | 351,585 | 1 | 000043598 W Tan... | HomeSmart | EnergyTown | Illinois | 10103-4839 | HOTELS/MOTELS |
| 10103DA53A | 310,018 | 1 | 000073377 W Pol... | Meridian Pacific Pr... | EnergyTown | Illinois | 10103-8731 | HOTELS/MOTELS |
| 10102521C9 | 172,192 | 1 | 000099258 S Cott... | Urban Lending Sol... | EnergyTown | Illinois | 10102-9359 | HOTELS/MOTELS |
| 1011094692 | 59,501 | 1 | 101963 S Van Bur... | Maximum One Rea... | EnergyTown | Illinois | 10110-4019 | HOTELS/MOTELS |
| 10110E438F | 265,462 | 1 | 142735 N Clinton ... | ATG Title | EnergyTown | Illinois | 10110-6459 | HOTELS/MOTELS |
| 101093FF91 | 383,773 | 1 | 153200 NE Tanoak... | PropertyRate | EnergyTown | Illinois | 10109-8384 | HOTELS/MOTELS |

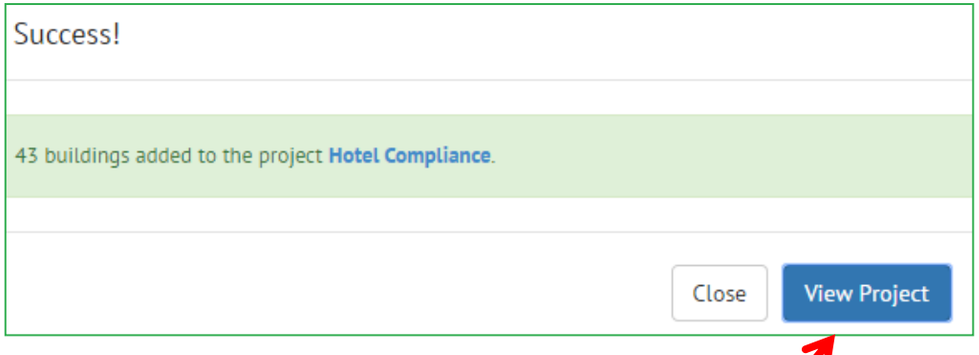
Display: 10 ▾ buildings  Showing 1 to 10 of 43 buildings  « First Record

# Projects - Create




The **Create a New Project** screen allows you to name the project and add compliance information if desired.

If you check the **Add compliance information** box, the Compliance Information section appears.

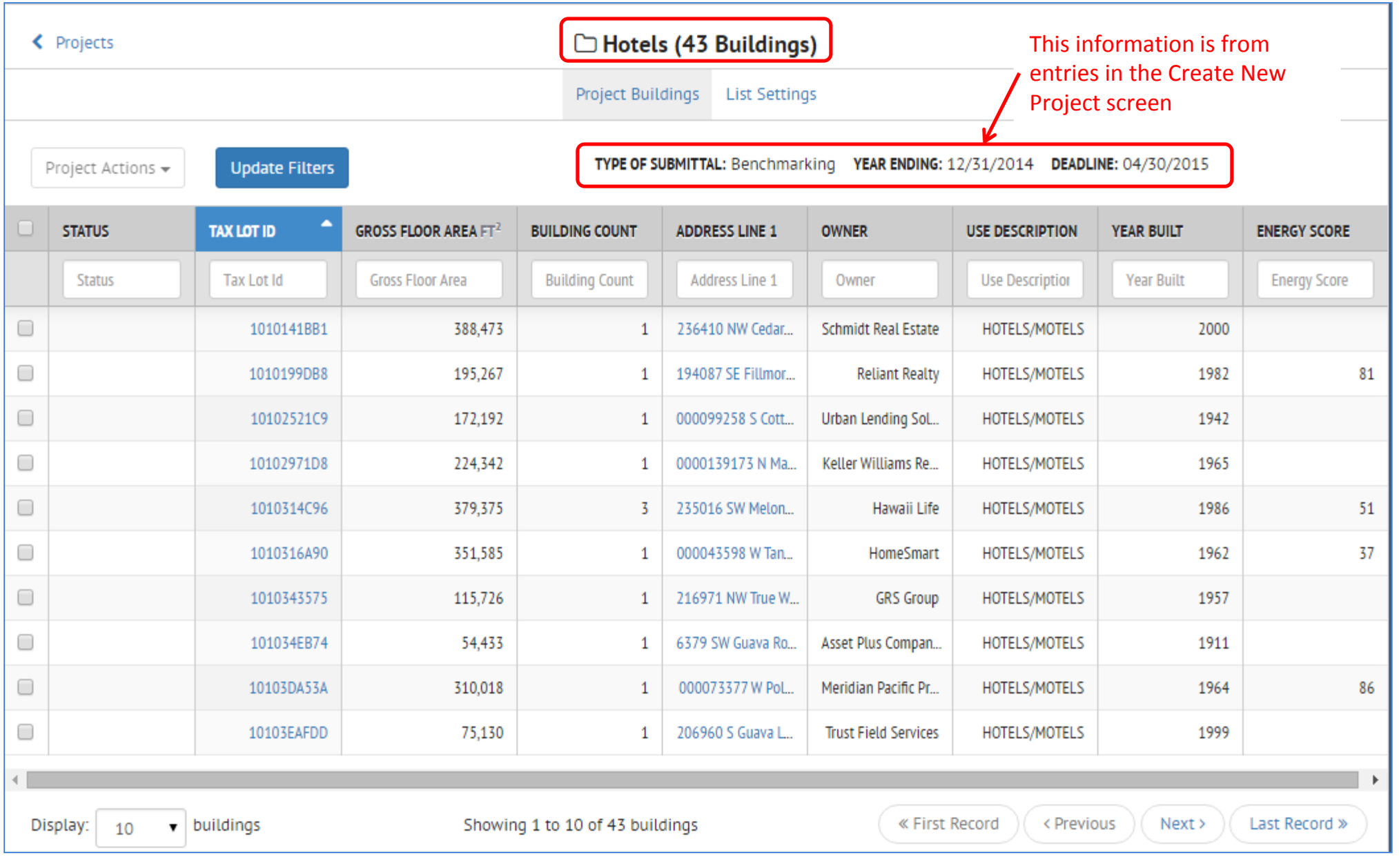



When you have defined the project, click the **Create Project** button.

When the program has created the project, click the View Project button to view the records in the Project

# Projects – Hotel Compliance Project

The filter was Premises Occupancy Classification = Hotel
43 Records were found to fit this filter



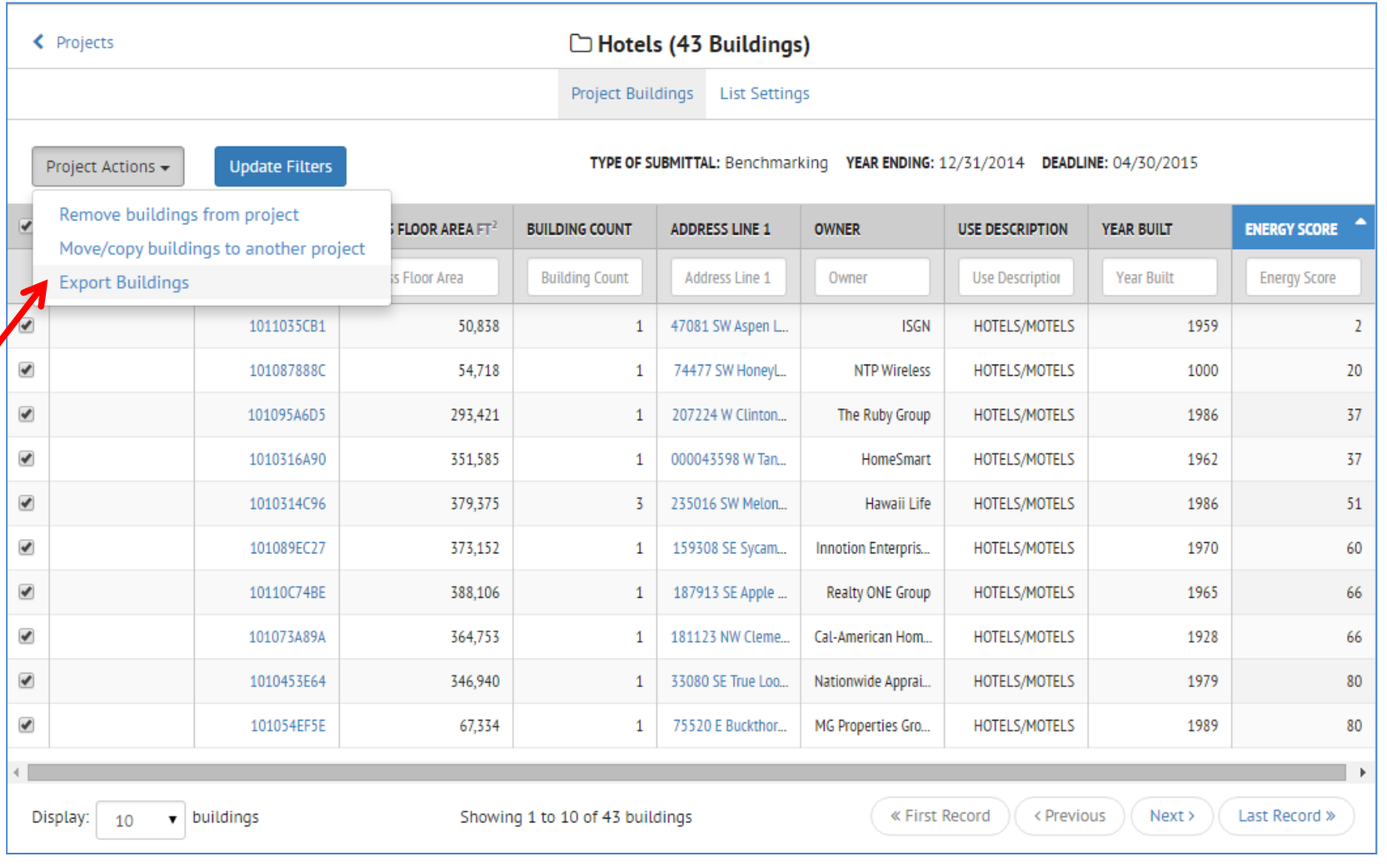
# Projects – Export to XLS

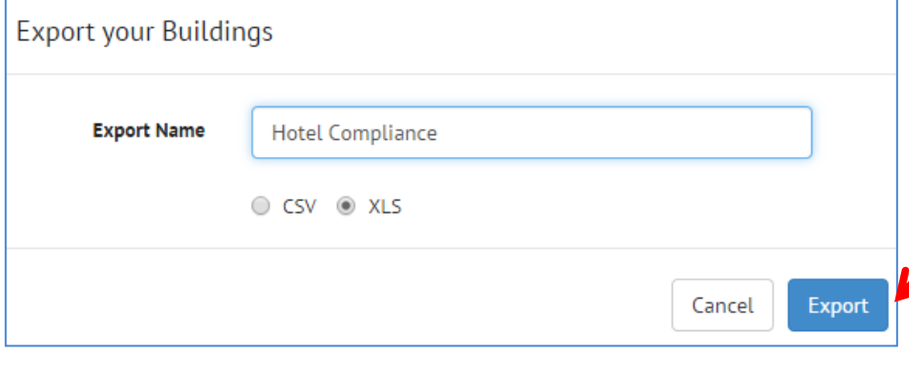
Projects can be exported to CSV or XLS files

**Step 1:**
Check records to be exported (check top box for all records)

**Step 2:**
Click on Project Actions and select Export Buildings

**Step 3:**
Name the export file and specify the file format



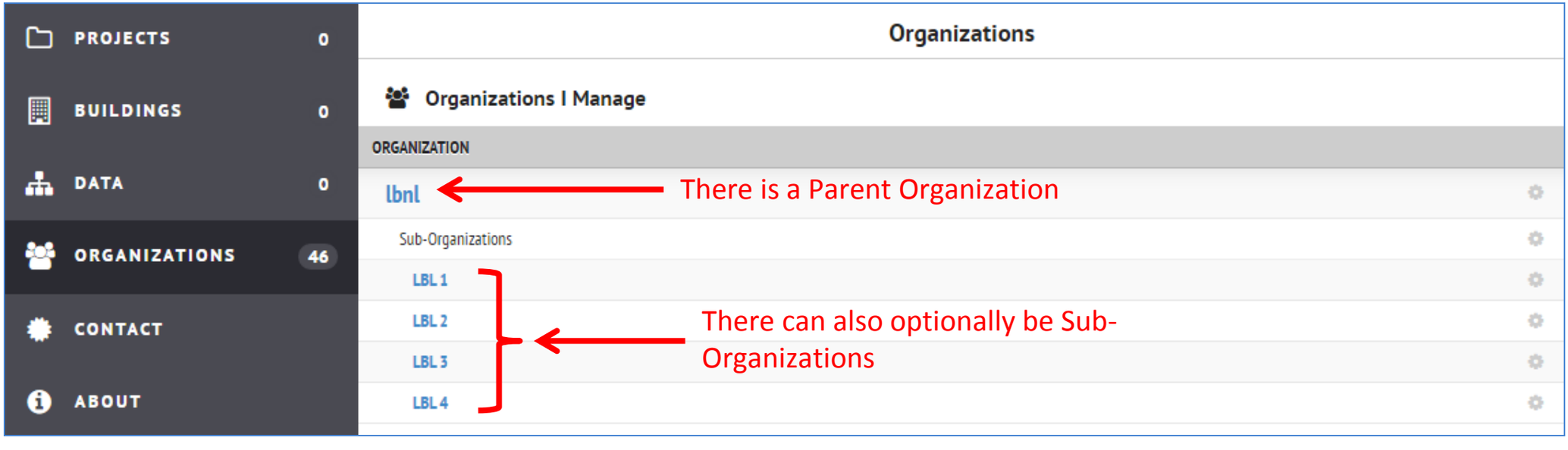

**Step 4:**
Click the Export button
The file will be saved to your **downloads** folder

# Organizations

Every account holder belongs to an Organization

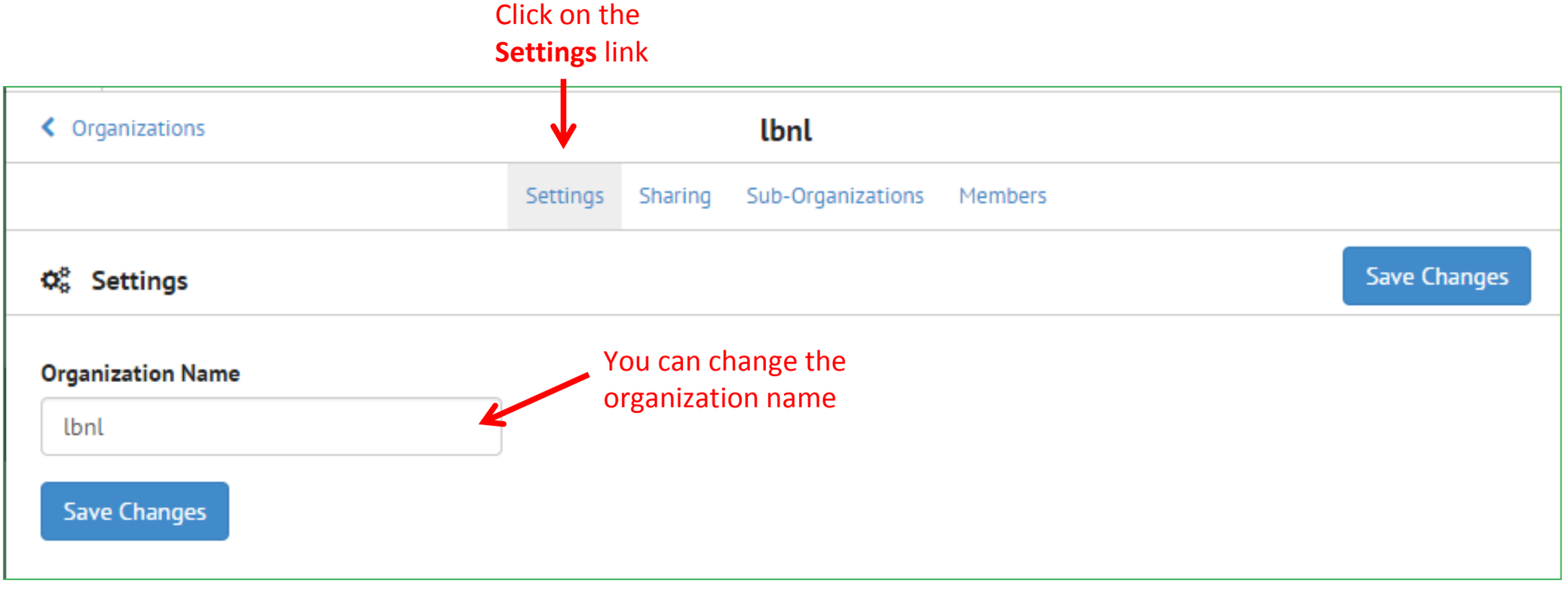
Most SEED users will only have a Parent Organization

SEED is structured to allow a Parent Organization along with Sub-Organizations

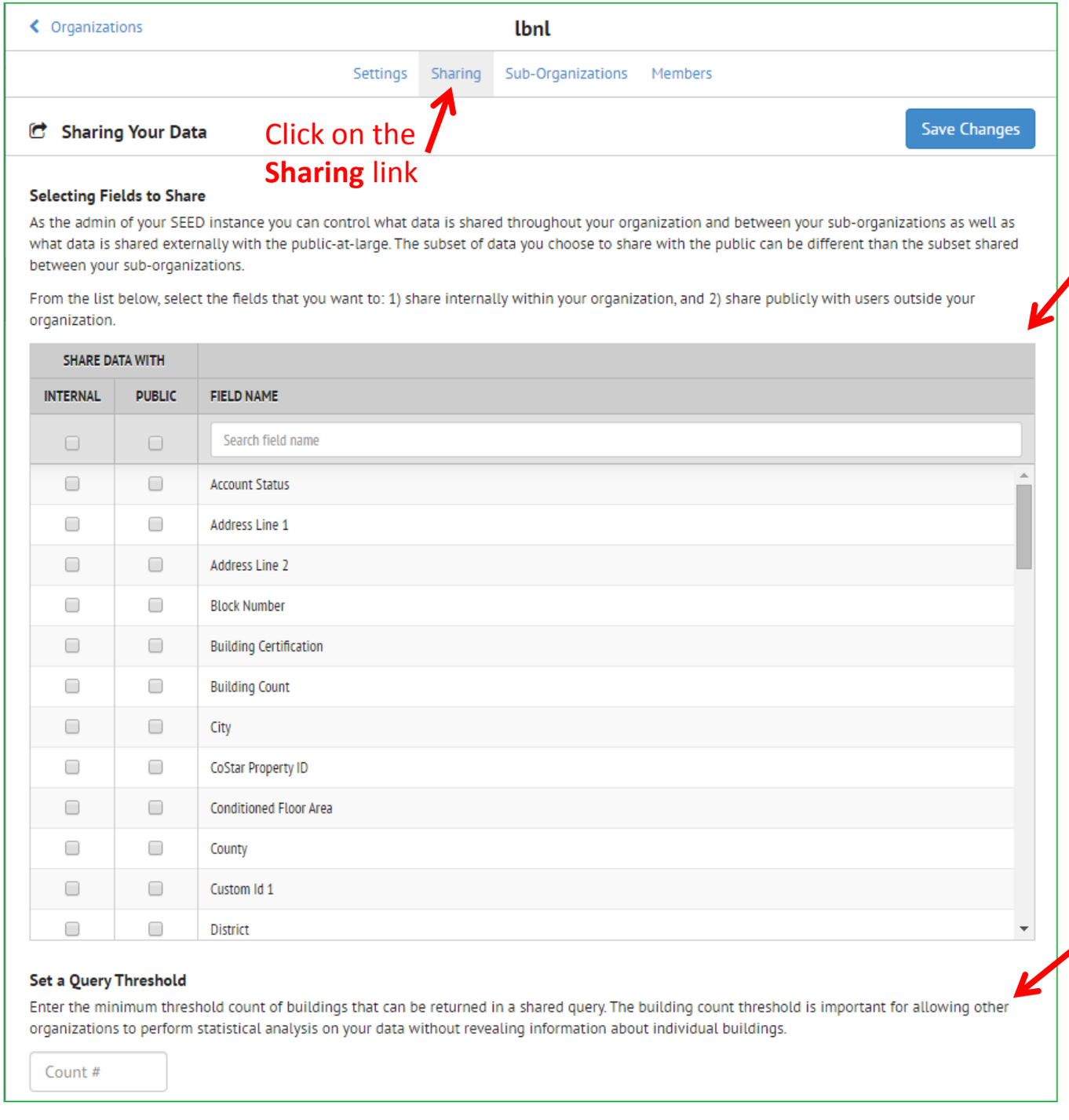


# Organizations - Settings

In the Organization / Settings tab, you can change the name of the organization



# Organizations - Sharing

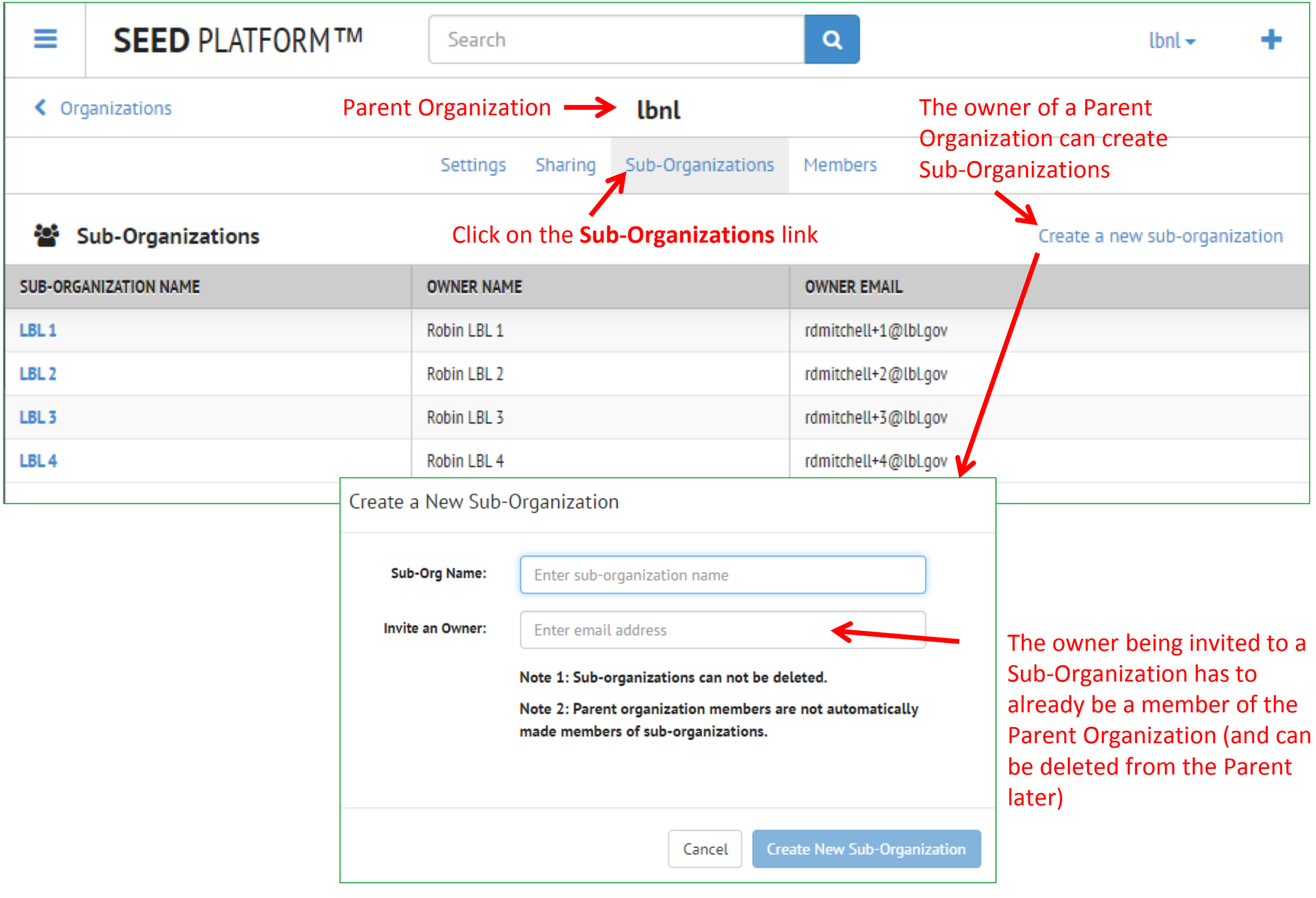



Click on the **Sharing** link

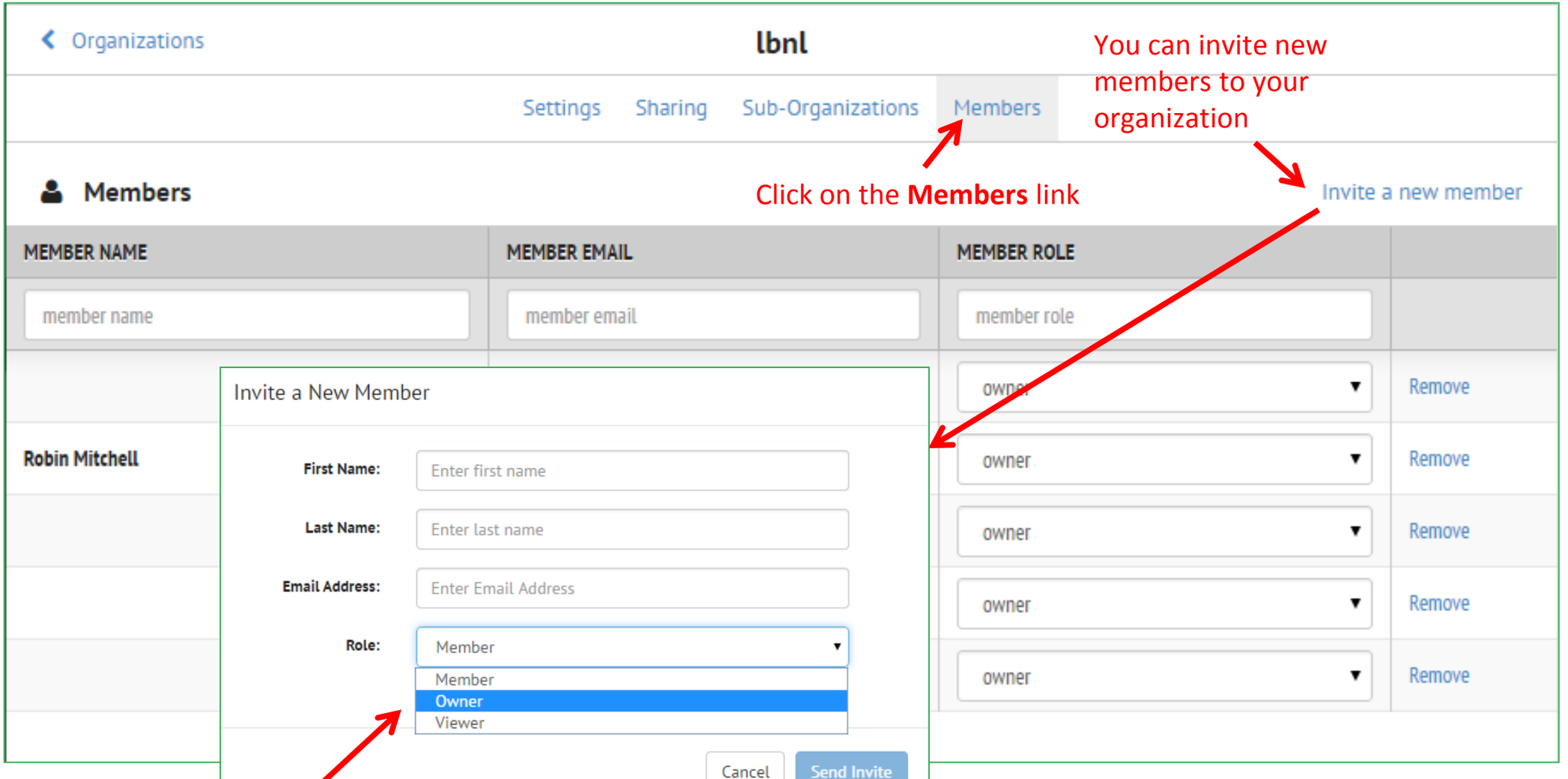
The owner of a Parent Organization can select fields to view between Sub-Organizations.

The owner of a Parent Organization can set the query threshold for viewing records between Sub-Organizations.

# Organizations – Sub-Organizations



# Organizations - Members

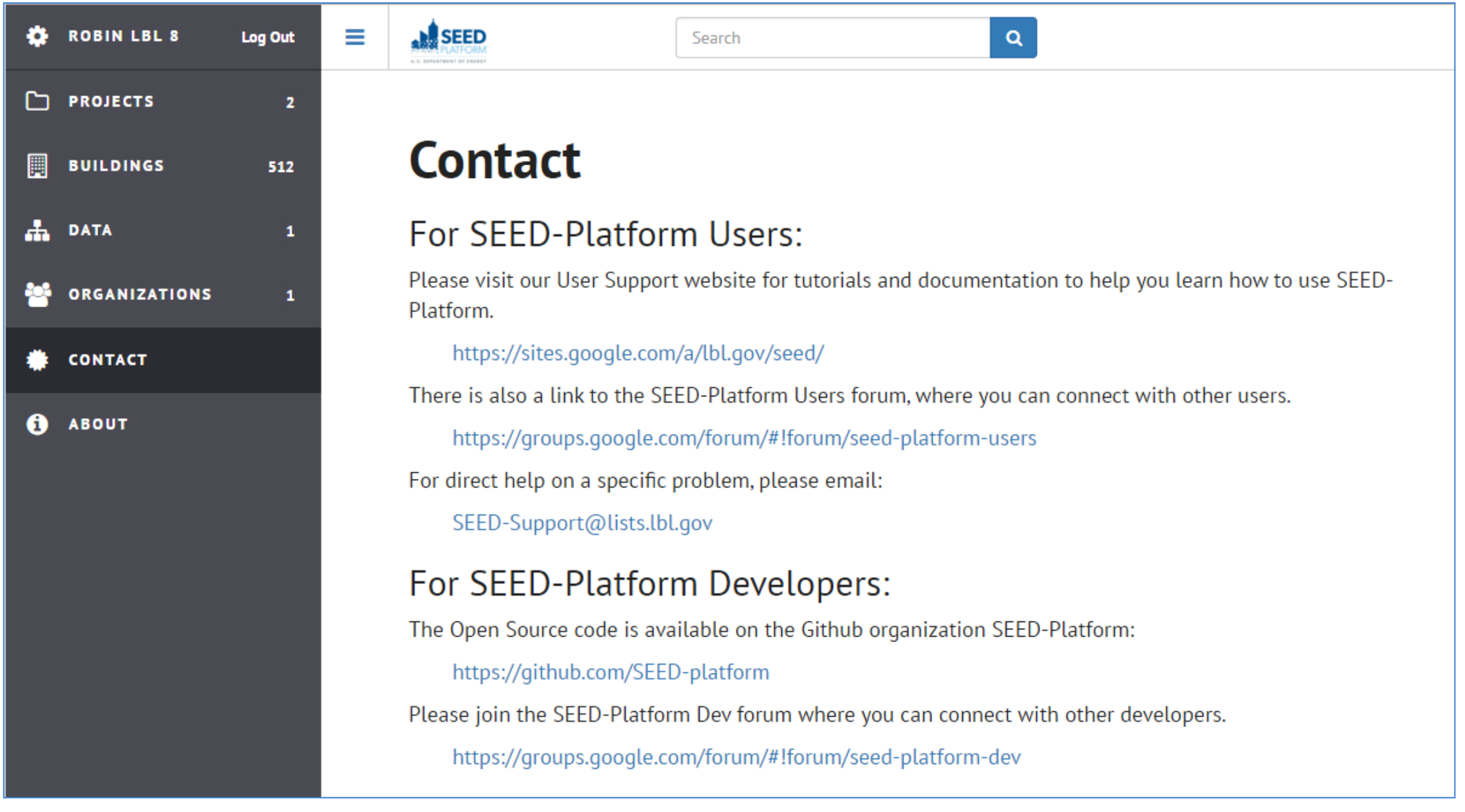


# Organizations -- Roles

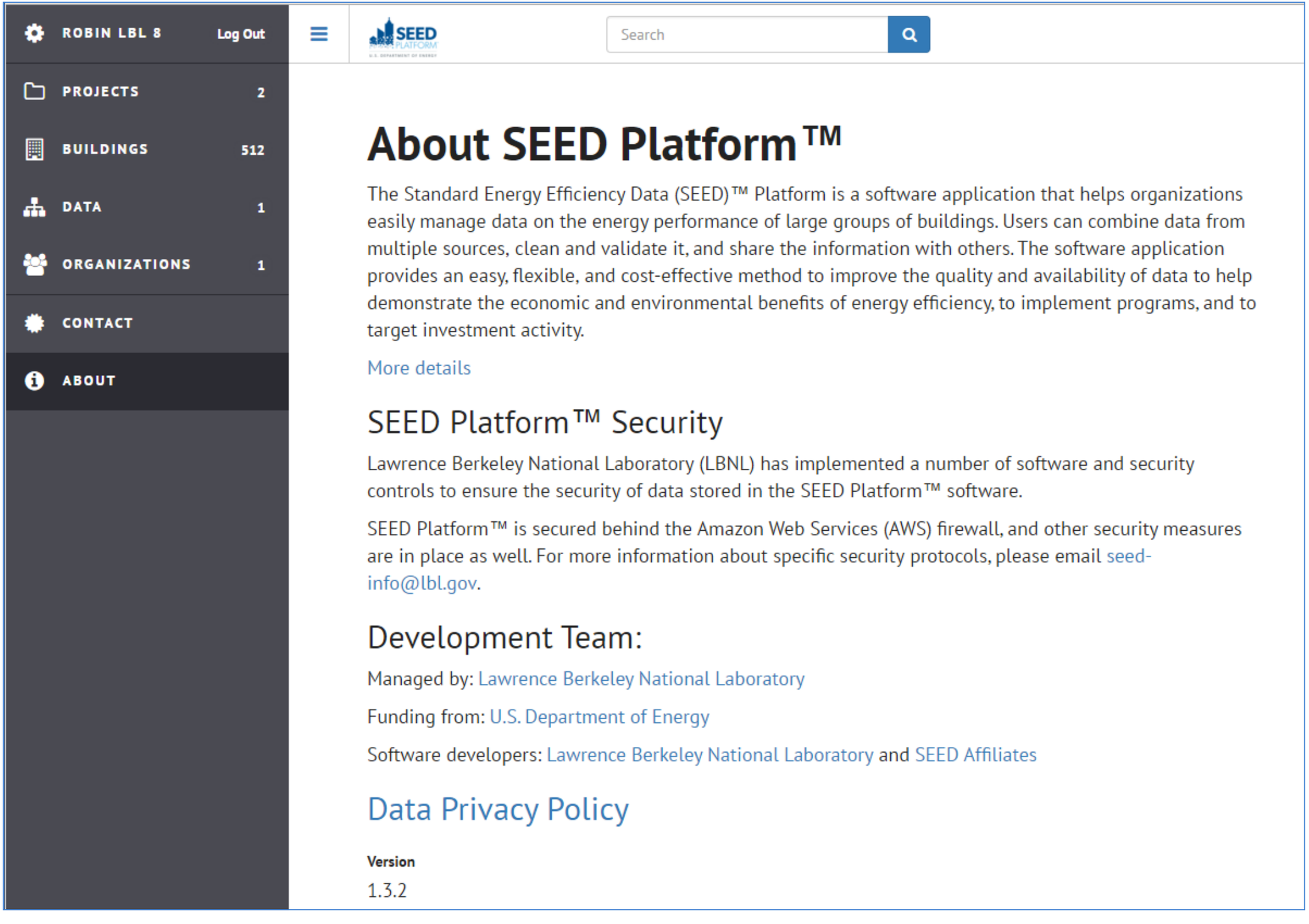
The permissions for each Role in a Parent Organization and a Sub-Organization

| | Parent | Sub Organization | | |
|---|---|---|---|---|
| | | Owner | Member | Viewer |
| **Set fields for display between Sub-Org** | X | | | |
| **Create Sub Orgs** | X | | | |
| **Add Members** | X<br>To parent or<br>at Sub org setup | X<br>To own Suborg | | |
| **Remove Members** | X<br>In parent | X<br>From own Sub org | | |
| **View Members** | X<br>In parent<br>Owner(s) of suborg | X<br>In own Sub org | | |
| **Change Settings**<br>• **Rename Suborg**<br>• **Change member role** | X<br><br>In parent | X<br>In own Sub org | | |
| **Add Data**<br>**(Create Datasets)** | X | X | X | |
| **Edit data** | X<br>All the Suborgs<br>associated with it | X<br>In own Sub org | X<br>In own Sub org | |
| **View data** | X<br>All the Suborgs<br>associated with it | X<br>In own Sub org | X<br>In own Sub org | X<br>In own Sub org |
| **Make Projects** | | X<br>In own Sub org | X<br>In own Sub org | |
| **Label records within Projects** | | X<br>In own Sub org | X<br>In own Sub org | |

# Contact


ROBIN LBL 8
Log Out
PROJECTS 2
BUILDINGS 512
DATA 1
ORGANIZATIONS 1
CONTACT
ABOUT
SEED
Search
Contact
For SEED-Platform Users:
Please visit our User Support website for tutorials and documentation to help you learn how to use SEED-Platform.
https://sites.google.com/a/lbl.gov/seed/
There is also a link to the SEED-Platform Users forum, where you can connect with other users.
https://groups.google.com/forum/#!forum/seed-platform-users
For direct help on a specific problem, please email:
SEED-Support@lists.lbl.gov
For SEED-Platform Developers:
The Open Source code is available on the Github organization SEED-Platform:
https://github.com/SEED-platform
Please join the SEED-Platform Dev forum where you can connect with other developers.
https://groups.google.com/forum/#!forum/seed-platform-dev

# About


ROBIN LBL 8
Log Out
PROJECTS 2
BUILDINGS 512
DATA 1
ORGANIZATIONS 1
CONTACT
ABOUT
SEED PLATFORM
Search
About SEED Platform™
The Standard Energy Efficiency Data (SEED)™ Platform is a software application that helps organizations easily manage data on the energy performance of large groups of buildings. Users can combine data from multiple sources, clean and validate it, and share the information with others. The software application provides an easy, flexible, and cost-effective method to improve the quality and availability of data to help demonstrate the economic and environmental benefits of energy efficiency, to implement programs, and to target investment activity.
More details
SEED Platform™ Security
Lawrence Berkeley National Laboratory (LBNL) has implemented a number of software and security controls to ensure the security of data stored in the SEED Platform™ software.
SEED Platform™ is secured behind the Amazon Web Services (AWS) firewall, and other security measures are in place as well. For more information about specific security protocols, please email seed-info@lbl.gov.
Development Team:
Managed by: Lawrence Berkeley National Laboratory
Funding from: U.S. Department of Energy
Software developers: Lawrence Berkeley National Laboratory and SEED Affiliates
Data Privacy Policy
Version
1.3.2