



SEED PLATFORM™ 2.12

Analysis Features

Created
October 2021

Analysis Features in SEED

- **There are currently four different types of analysis in SEED**
 - **BSyncr**
 - Makes a Building Sync file from the property data in SEED to be used with the NMEC (Normalized Metered Energy Consumption) program
 - Algorithms are based on methods in this Github repository <https://github.com/kW-Labs/nmecr>
 - **BETTER**
 - Runs a BETTER analysis from the property data in SEED
 - **EUI**
 - Calculates the EUI of a property based on the meter data and the gross floor area
 - **Average Annual CO2**
 - Calculates the CO2 emissions of a property based on the meter data and the eGRID region (which is based on the location of the property)

Generating an Analysis

Property List

- In the Property List, select the properties you want to perform an analysis on

Cycle: 2020 Calendar Year

View by Property View by Tax Lot

	+	✓			PM Property ID	Property Name	Address Line 1	City
					<input type="text"/>	<input type="text"/>	<input type="text"/>	los <input type="text"/>
	✓	h	🗨	ℹ	93755566	Preston-Church	0516 Amy Plains Apt. 177	East Los Angeles
	✓	h	🗨	ℹ	274180	Chapman, Jordan and Adams	790 Crystal Mission Suite 168	Los Angeles
	✓	h	🗨	ℹ	66378228	Cline Inc	108 Phillip Hollow	Los Angeles
	✓	h	🗨	ℹ	73006138	Gardner LLC	52618 James Green Suite 761	Los Angeles
	✓	h	🗨	ℹ	98594283	Meyer-Franco	0401 Middleton Ridge Suite 784	Los Banos

- Select Run Analysis from the Actions menu choice

Actions

- Merge Selected
- Delete Selected
- Export Selected
- Add/Remove Labels
- Data Quality Check
- Email
- Run Analysis

Generating an Analysis *(cont'd)*

Property List

- **Add an Analysis Name and select the Analysis Type**



The screenshot shows a web form titled "Run Analysis". It contains two main sections: "Name" and "Type". The "Name" section has a text input field containing "My Analysis". The "Type" section has a dropdown menu that is currently open, showing a list of analysis types: "BSyncr", "BETTER", "EUI", and "Average Annual CO2". A mouse cursor is pointing at the dropdown arrow on the right side of the menu.

- **Depending on the analysis type, there will be various other parameters to set**
(see the pages for each Analysis Type below for details)

Generating an Analysis (cont'd)

Property List

- Start the analysis
- Go to Analysis to see the results



Analyses						
ANALYSIS NAME (USER DEFINED)	ACTIONS	NUMBER OF PROPERTIES	TYPE	CONFIGURATION	RUN STATUS	RUN DATE
BSyncr - Los Angeles		4	BSyncr	<ul style="list-style-type: none"> • model_type = Simple Linear Regression 	Completed	10-14-2021 18:31
CO2 - All records		110	CO2		Completed	10-14-2021 18:30
EUI - All records		110	EUI		Completed	10-14-2021 18:29
BETTER Analysis - Los Angeles		4	BETTER	<ul style="list-style-type: none"> • benchmark_data = DEFAULT • savings_target = CONSERVATIVE • preprocess_meters = false • portfolio_analysis = true • min_model_r_squared = 0.6 	Completed	10-14-2021 18:23
BETTER - All records		110	BETTER	<ul style="list-style-type: none"> • benchmark_data = DEFAULT • savings_target = CONSERVATIVE • preprocess_meters = false • portfolio_analysis = true • min_model_r_squared = 0.6 	Completed	10-14-2021 18:16

BETTER: Setting up the Analysis

Obtain a BETTER API key

- Set up an account on the BETTER website: <https://better.lbl.gov/>
- Go to My Profile and click the Contact Us button to receive an API token

App rdmitchell ▾

My Profile

Sign Out

Click the My Profile option

My Profile : The profile inform...

User account information:

Username	milkweedmonarchs	
Email	milkweedmonarchs@gmail.com	Update E-Mail
Password	*****	Change Password
API Token	Please contact us for BETTER API access.	Contact Us

Click the Contact Us button to get an API token to use in SEED to do a BETTER analysis

BETTER: Setting up the Analysis

Enter the BETTER API key in SEED

- Go to Organizations / Settings and enter the BETTER Analysis API key

Organizations

Settings Sharing Column Settings Column Mappings

Settings

Options

Units

Default Display Fields

Email

Maintenance

Organization Name

LBNL 101

MapQuest API Key

Enable Geocoding

Enable ComStock Functionality

BETTER Analysis API Key

Please refer to the [BETTER documentation](#) to learn how to get an API key. Note, do not prefix the token with "Token ", only include the token itself.

Enter the BETTER API token here

BETTER: Setting up the Analysis

Property List

- In the Property List, select the properties you want to perform an analysis on
- Select Run Analysis from the Actions menu choice
- Add an Analysis Name and set Type = BETTER

Conservative: The savings goal will be one standard deviation worse than the median performance of the benchmarking peer group

Nominal: The savings goal will be equal to the median performance of the benchmarking peer group

Aggressive: The savings goal will be one half standard deviation better than the median performance of the benchmarking peer group



R^2 is a value from 0-1 that represents the proportion of the variance in the dependent variable (energy use) that is predictable from the independent variable (outdoor air temperature)

Run Analysis

Name
BETTER Analysis - Los Angeles

Type
BETTER

BETTER Analysis Inputs (Under active development)

Savings Target ⓘ
CONSERVATIVE

Benchmark Data ⓘ
DEFAULT

Minimum Model R Squared ⓘ
0.6

Run Portfolio Analysis ⓘ

Create Analysis

Default: BETTER will benchmark your building(s) against built-in benchmark statistics derived from a sample of U.S. buildings that match your property types.

Generate: BETTER will generate benchmark statistics based on the set of buildings being analyzed, so your buildings will be compared against others in your portfolio. This option will provide more accurate statistics if you select at least 30 buildings for analysis



Click **Create Analysis** to start the analysis

Only available if more than one property is selected for analysis from the inventory list.

Check this box to run all the selected records as a group

BETTER: Running the Analysis

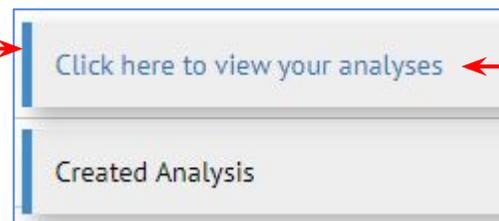
Property List

- Click the “Create Analysis” button to start the analysis
- Go to the Analyses page to see the status of the analysis



Click **Create Analysis** to start the analysis

SEED will display these messages in the upper right corner of your browser



Click this link to go straight to the **Analyses** page

Alternatively, click on the Analyses navigation button to go to the **Analyses** page



The **Analyses** page will show the status of the analysis

Analyses						
ANALYSIS NAME (USER DEFINED)	ACTIONS	NUMBER OF PROPERTIES	TYPE	CONFIGURATION	RUN STATUS	RUN DATE
BETTER Analysis - Los Angeles		5	BETTER	<ul style="list-style-type: none">• benchmark_data = DEFAULT• savings_target = CONSERVATIVE• portfolio_analysis = true• min_model_r_squared = 0.6	 Creating	

BETTER: Running the Analysis

Analyses page

- The run status shows the progress of the analyses

Analyses						
ANALYSIS NAME (USER DEFINED)	ACTIONS	NUMBER OF PROPERTIES	TYPE	CONFIGURATION	RUN STATUS	RUN DATE
BETTER Analysis - Los Angeles	 	5	BETTER	<ul style="list-style-type: none"> benchmark_data = DEFAULT savings_target = CONSERVATIVE portfolio_analysis = true min_model_r_squared = 0.6 	 Creating	

Analyses						
ANALYSIS NAME (USER DEFINED)	ACTIONS	NUMBER OF PROPERTIES	TYPE	CONFIGURATION	RUN STATUS	RUN DATE
BETTER Analysis - Los Angeles	 	5	BETTER	<ul style="list-style-type: none"> benchmark_data = DEFAULT savings_target = CONSERVATIVE portfolio_analysis = true min_model_r_squared = 0.6 	 Running	10-04-2021 14:29

Analyses						
ANALYSIS NAME (USER DEFINED)	ACTIONS	NUMBER OF PROPERTIES	TYPE	CONFIGURATION	RUN STATUS	RUN DATE
BETTER Analysis - Los Angeles		5	BETTER	<ul style="list-style-type: none"> benchmark_data = DEFAULT savings_target = CONSERVATIVE portfolio_analysis = true min_model_r_squared = 0.6 	Completed	10-04-2021 14:29

BETTER: Viewing the Analysis Results

Analyses						
ANALYSIS NAME (USER DEFINED)	ACTIONS	NUMBER OF PROPERTIES	TYPE	CONFIGURATION	RUN STATUS	RUN DATE
BETTER Analysis - Los Angeles		5	BETTER	<ul style="list-style-type: none"> benchmark_data = DEFAULT savings_target = CONSERVATIVE portfolio_analysis = true min_model_r_squared = 0.6 	Completed	10-04-2021 14:29

Click on the Analysis Name link to view each analysis in the Portfolio

[← Analyses](#)

Analysis: BETTER Analysis - Los Angeles

NUMBER OF RUNS	TYPE	CONFIGURATION	RUN STATUS	LATEST MESSAGE	RUN DATE	RUN DURATION	RUN AUTHOR
5	BETTER	<ul style="list-style-type: none"> benchmark_data = DEFAULT savings_target = CONSERVATIVE portfolio_analysis = true min_model_r_squared = 0.6 	Completed		10-04-2021 14:31	23 seconds	LBNL 405, Robin

RUN ID	PROPERTY	LATEST MESSAGES	OUTPUT FILES
2570	790 Crystal Mission Suite 168	<ul style="list-style-type: none"> No reasonable change-point model could be found for this building's electricity consumption. 	Portfolio Report , Building Report
2571	108 Phillip Hollow		Portfolio Report , Building Report
2572	52618 James Green Suite 761	<ul style="list-style-type: none"> No reasonable change-point model could be found for this building's electricity consumption. 	Portfolio Report , Building Report
2573	0516 Amy Plains Apt. 177		Portfolio Report , Building Report
2574	0401 Middleton Ridge Suite 784		Portfolio Report , Building Report

BETTER: Viewing the Analysis Results

< Analyses

Analysis: BETTER Analysis - Los Angeles

NUMBER OF RUNS	TYPE	CONFIGURATION	RUN STATUS	LATEST MESSAGE	RUN DATE	RUN DURATION	RUN AUTHOR
5	BETTER	<ul style="list-style-type: none"> benchmark_data = DEFAULT savings_target = CONSERVATIVE portfolio_analysis = true min_model_r_squared = 0.6 	Completed		10-04-2021 14:31	23 seconds	LBNL 405, Robin

RUN ID	PROPERTY	LATEST MESSAGES	OUTPUT FILES
2570	790 Crystal Mission Suite 168 ↗	<ul style="list-style-type: none"> No reasonable change-point model could be found for this building's electricity consumption. 	Portfolio Report ↓ , Building Report ↓
2571	108 Phillip Hollow ↗		Portfolio Report ↓ , Building Report ↓
2572	52618 James Green Suite 761 ↗	<ul style="list-style-type: none"> No reasonable change-point model could be found for this building's electricity consumption. 	Portfolio Report ↓ , Building Report ↓
2573	0516 Amy Plains Apt. 177 ↗		Portfolio Report ↓ , Building Report ↓
2574	0401 Middleton Ridge Suite 784 ↗		Portfolio Report ↓ , Building Report ↓

Click Run ID to see the details for that building

Click the Property link to see the results in Inventory Property Detail

If there are issues with the analysis, they will be displayed here

Click the Portfolio link to download the entire Portfolio Report

Click the Building link to download just the report for this building

BETTER: Viewing the Analysis Results

Analysis: BETTER Analysis - Los Angeles

BETTER Analysis - Los Angeles - Run #2571

NUMBER OF RUNS	TYPE	CONFIGURATION	RUN STATUS	LATEST MESSAGE	RUN DATE	RUN DURATION
5	BETTER	<ul style="list-style-type: none"> benchmark_data = DEFAULT savings_target = CONSERVATIVE portfolio_analysis = true min_model_r_squared = 0.6 	Completed		10-04-2021 14:31	23 seconds
RUN ID	PROPERTY	LATEST MESSAGES	OUTPUT FILES			
2571	108 Phillip Hollow		Portfolio Report , Building Report			

Click Run ID to see the BETTER report

Portfolio Report

BETTER V.1.0 Portfolio Summary Report

SEED Analysis BETTER Analysis - Los Angeles (224)

Generated at 2021-10-04

Overview	
Number of Buildings 5	Total Gross Floor Area (ft ²): 928,413.7
Potential Cost Savings: \$823,435 63.8%	Potential Energy Savings: 43,371,310 kBtu 78.2%
Electricity Energy/Cost Savings: 56.1%	Fossil Fuel Energy/Cost Savings: 92.5%
GHG Emissions Reduction (MTCO _{2e}): 2,465.7 76.2%	GHG Emissions Intensity Reduction (kgCO _{2e} /ft ²): 14.5

Building Report

BETTER V1.0 Building Summary Report

Cline Inc

Generated at

Overview	
Building Type: Office	Gross Floor Area (ft ²): 304,406.6
Building Location: Los Angeles, California	Closest Weather Station: Station: 722874-93134 : Downtown L.A./Usc Campus
Potential Cost Savings: \$392,192 53.7%	Potential Energy Savings: 11,911,574 kBtu 60.0%
Electricity Energy/Cost Savings: 51.9%	Fossil Fuel Energy/Cost Savings: 84.1%
GHG Emissions Reduction (MTCO _{2e}): 733.9 58.8 %	GHG Emissions Intensity Reduction (kgCO _{2e} /ft ²): 2.4

BETTER: Viewing the Analysis Results

Analysis: BETTER Analysis - Los Angeles

BETTER Analysis - Los Angeles - Run #2571

NUMBER OF RUNS	TYPE	CONFIGURATION	RUN STATUS	LATEST MESSAGE	RUN DATE	RUN DURATION
5	BETTER	<ul style="list-style-type: none"> benchmark_data = DEFAULT savings_target = CONSERVATIVE portfolio_analysis = true min_model_r_squared = 0.6 	Completed		10-04-2021 14:31	23 seconds

RUN ID	PROPERTY	LATEST MESSAGES	OUTPUT FILES
2571	108 Phillip Hollow ↗		Portfolio Report 📄 , Building Report 📄

Click the **Property** link to see the results in **Inventory Property Detail**

Properties

Property Detail

Property Detail | Meters | Notes | Column List Profiles | Cross-Cycles | Analyses

Property : 108 Phillip Hollow [Edit](#)

Actions ▾

Cycle: 2020 Calendar Year

Labels: (no labels applied)

Detail Column List Profile: Property Detail Fields ▾

BETTER Analysis - Los Angeles Run #2571 Completed [🗑](#)

\$392,192.62

Potential Cost Savings (USD)

3,490,937.88 kWh

Potential Energy Savings

benchmark_data = DEFAULT
savings_target = CONSERVATIVE
portfolio_analysis = true
min_model_r_squared = 0.6

10-04-2021 14:31 (23 seconds)
LBNL 405, Robin [Full Analysis](#) [↗](#)

Field	Main ↗	JCC_ESPM_clean_anonymized-Allgoodrecords.xlsx 📄
BETTER Potential Cost Savings (USD)	392192.62	392192.62
BETTER Potential Energy Savings (kWh)	3490937.88	3490937.88
BETTER Potential GHG Emissions Reduction (kgCO2e)	733902.13	733902.13

Click the **Analyses** link to get to a summary of all analyses for that property

BETTER: Viewing the Analysis Results

← Properties

Property Detail

Property Detail Meters Notes Column List Profiles Cross-Cycles **Analyses**

Property : 108 Phillip Hollow

BETTER (2)

BSyncr (1)

EUI (1)

 New Analysis

Click the **Analyses** link to get to a summary of all analyses for that property

BETTER Analysis - Los Angeles Run #2571

Completed 

\$392,192.62
Potential Cost Savings (USD)

3,490,937.88 kWh
Potential Energy Savings

benchmark_data = DEFAULT
savings_target = CONSERVATIVE
portfolio_analysis = true
min_model_r_squared = 0.6

10-04-2021 14:31 (23 seconds)
LBNL 405, Robin

Full Analysis 

Click the **New Analysis** button to start a new analysis for this property.

Click the **Full Analysis** link to get back to the **Analyses** summary for the property

BETTER -- All records Run #2406

Completed 

\$392,192.62
Potential Cost Savings (USD)

3,490,937.88 kWh
Potential Energy Savings

benchmark_data = DEFAULT
savings_target = CONSERVATIVE
portfolio_analysis = true
min_model_r_squared = 0.59

09-29-2021 14:51 (5 minutes, 53 seconds)
LBNL 405, Robin

Full Analysis 

 **ANALYSES**

BETTER: Viewing the Analysis Results

View by Property					View by Tax Lot	5 properties		
PM Property I...	Address Line 1	BETTER Potential Electricity Energy Savings (kWh)	BETTER Potential Fuel Energy Savings (kWh)					
93755566	0516 Amy Plains Apt. 177	1080492.8	1555523.96					
274180	790 Crystal Mission Suite		2892695.79					
66378228	108 Phillip Hollow	2250062.69	1240875.19					
73006138	52618 James Green Suite		3313195.03					
98594283	0401 Middleton Ridge Sui.	265737.99	112293.06					

These are the two records that didn't have electric meter data

There are several BETTER fields that are available to view in the Inventory Property List View

✓	✗	BETTER Potential Cost Savings (USD)
✓	✗	BETTER Potential Energy Savings (kWh)
✓	✗	BETTER Potential GHG Emissions Reduction (kgCO2e)
✓	✗	BETTER Min Model R^2
✓	✗	BETTER Recommendation: Add/Fix Economizers
✓	✗	BETTER Recommendation: Add Wall/Ceiling Insulation
✓	✗	BETTER Recommendation: Check Fossil Baseload
✓	✗	BETTER Recommendation: Decrease Heating Setpoints
✓	✗	BETTER Recommendation: Decrease Infiltration
✓	✗	BETTER Recommendation: Decrease Ventilation
✓	✗	BETTER Recommendation: Eliminate Electric Heating
✓	✗	BETTER Recommendation: Increase Cooling Setpoints
✓	✗	BETTER Recommendation: Increase Cooling System Efficiency

✓	✗	BETTER Recommendation: Increase Heating System Efficiency
✓	✗	BETTER Recommendation: Reduce Equipment Schedules
✓	✗	BETTER Recommendation: Reduce Lighting Load
✓	✗	BETTER Recommendation: Reduce Plug Loads
✓	✗	BETTER Recommendation: Upgrade Windows
✓	✗	BETTER Analysis Id
✓	✗	BETTER Potential Electricity Cost Savings (USD)
✓	✗	BETTER Potential Fuel Cost Savings (USD)
✓	✗	BETTER Potential Electricity Energy Savings (kWh)
✓	✗	BETTER Potential Fuel Energy Savings (kWh)
✓	✗	BETTER Potential Electricity GHG Emissions Reduction (kgCO2e)
✓	✗	BETTER Potential Fuel GHG Emissions Reduction (kgCO2e)
✓	✗	BETTER Valid Electricity Model
✓	✗	BETTER Valid Fuel Model

BSyncr: Setting up the Analysis

Property List

- In the Property List, select the properties you want to perform an analysis on
- Select Run Analysis from the Actions menu choice
- Add an Analysis Name and set Type = BSyncr

Run Analysis

Name
BSyncr - Los Angeles

Type
BSyncr

BSyncr Model Selection
Simple Linear Regression

Create Analysis

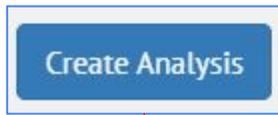
- Simple Linear Regression
- Three Parameter Linear Model Cooling
- Three Parameter Linear Model Heating
- Four Parameter Linear Model

Click **Create Analysis**
to start the analysis

BSyncr: Running the Analysis

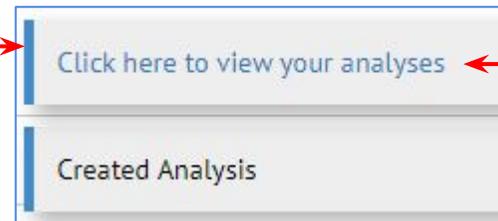
Property List

- Click the “Create Analysis” button to start the analysis
- Go to the Analyses page to see the status of the analysis



Click **Create Analysis** to start the analysis

SEED will display these messages in the upper right corner of your browser



Click this link to go straight to the **Analyses** page

Alternatively, click on the Analyses navigation button to go to the **Analyses** page



The **Analyses** page will show the status of the analysis

Analyses						
ANALYSIS NAME (USER DEFINED)	ACTIONS	NUMBER OF PROPERTIES	TYPE	CONFIGURATION	RUN STATUS	RUN DATE
BSyncr - Los Angeles		5	BSyncr	• model_type = Simple Linear Regression	 Running	10-05-2021 15:03
BSyncr - Los Angeles		5	BSyncr	• model_type = Simple Linear Regression	Completed	10-05-2021 15:03

BSyncr: Viewing the Analysis Results

ANALYSIS NAME (USER DEFINED)	ACTIONS	NUMBER OF PROPERTIES	TYPE	CONFIGURATION	RUN STATUS	RUN DATE
BSyncr - Los Angeles		5	BSyncr	<ul style="list-style-type: none">model_type = Simple Linear Regression	Completed	10-05-2021 15:03

Click on the **Analysis Name** link to view each analysis in the Portfolio



[← Analyses](#) **Analysis: BSyncr - Los Angeles**

NUMBER OF RUNS	TYPE	CONFIGURATION	RUN STATUS	LATEST MESSAGE	RUN DATE	RUN DURATION	RUN AUTHOR
5	BSyncr	<ul style="list-style-type: none">model_type = Simple Linear Regression	Completed		10-05-2021 15:03	48 seconds	LBNL 405, Robin

RUN ID	PROPERTY	LATEST MESSAGES	OUTPUT FILES
2590	790 Crystal Mission Suite 168		BuildingSync , PNG
2591	108 Phillip Hollow		BuildingSync , PNG
2592	52618 James Green Suite 761		BuildingSync , PNG
2593	0516 Amy Plains Apt. 177		BuildingSync , PNG
2594	0401 Middleton Ridge Suite 784		BuildingSync , PNG

Click **Run ID** to see the details for that building

Click the **Property** link to see the results in **Inventory Property Detail**

If there are issues with the analysis, they will be displayed here

Click the **BuildingSync** link to download the file

Click the **PNG** link to download the plot graphic

BSyncr: Viewing the Analysis Results

← Analysis: BSyncr - Los Angeles

BSyncr - Los Angeles - Run #2591

NUMBER OF RUNS	TYPE	CONFIGURATION	RUN STATUS	LATEST MESSAGE	RUN DATE	RUN DURATION
5	BSyncr	<ul style="list-style-type: none"> • model_type = Simple Linear Regression 	Completed		10-05-2021 15:03	48 seconds

RUN ID	PROPERTY	LATEST MESSAGES	OUTPUT FILES
2591	108 Phillip Hollow ↗		BuildingSync ↓ , PNG ↓

Results

Don't click this link as BSyncr display in Property Detail is not yet implemented

bsyncr_output_002591_result.xml

```

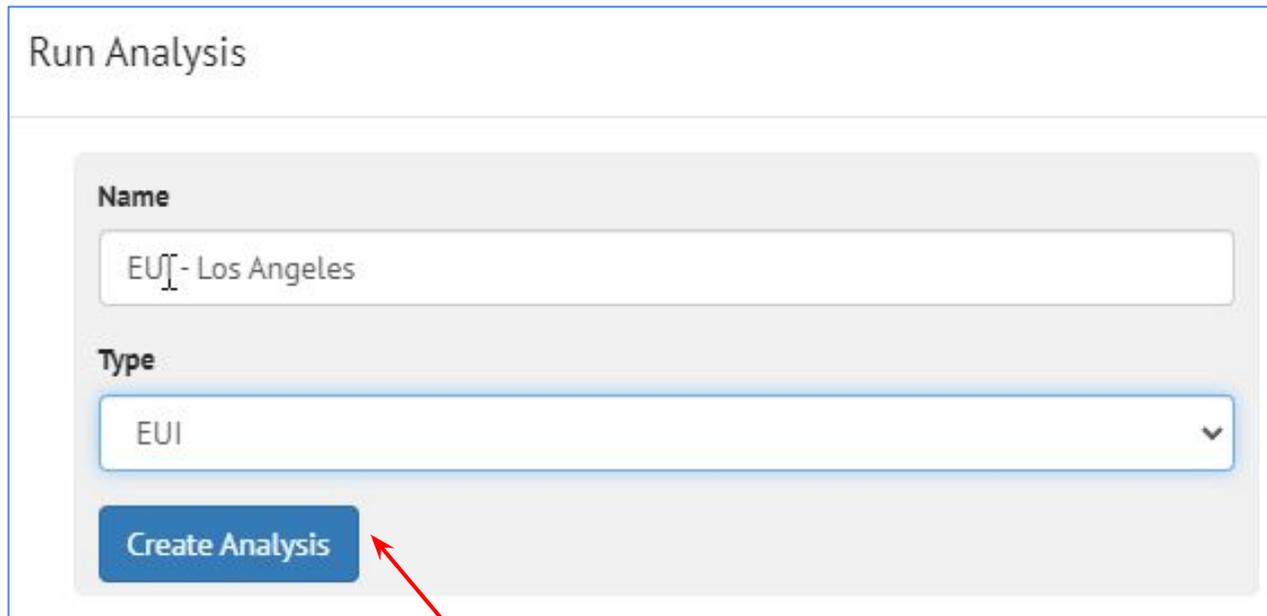
1  <?xml version="1.0" encoding="UTF-8"?>
2  <auc:BuildingSync xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.w3.org/2001/XMLSchema-instance http://www.w3.org/2001/XMLSchema-instance">
3    <auc:Facilities>
4      <auc:Facility ID="Facility-1">
5        <auc:Sites>
6          <auc:Site ID="Site-1">
7            <auc:Buildings>
8              <auc:Building ID="Building-1">
9                <auc:PremisesName>My-Building</auc:PremisesName>
10               <auc:PremisesIdentifiers>
11                 <auc:PremisesIdentifier>
12                   <auc:IdentifierLabel>Custom</auc:IdentifierLabel>
13                   <auc:IdentifierCustomName>s</auc:IdentifierCustomName>
14                   <auc:IdentifierValue>2591</auc:IdentifierValue>
15                 </auc:PremisesIdentifier>
16               </auc:PremisesIdentifiers>
17               <auc:Longitude>-118.3941</auc:Longitude>
18               <auc:Latitude>33.9631</auc:Latitude>
19             </auc:Building>
20           </auc:Buildings>
21         </auc:Site>
22       </auc:Sites>
23     <auc:Reports>
24       <auc:Report ID="Report-1">
25         <auc:Scenarios>

```

EUI: Setting up the Analysis

Property List

- In the Property List, select the properties you want to perform an analysis on
- Select Run Analysis from the Actions menu choice
- Add an Analysis Name and set Type = EUI



Run Analysis

Name
EUI - Los Angeles

Type
EUI

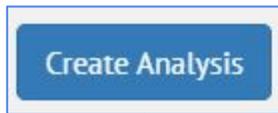
Create Analysis

Click **Create Analysis**
to start the analysis

EUI: Running the Analysis

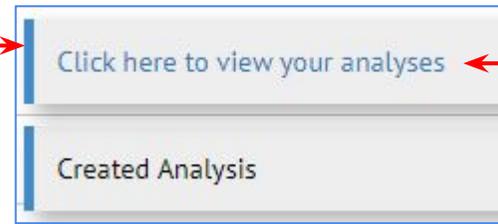
Property List

- Click the “Create Analysis” button to start the analysis
- Go to the Analyses page to see the status of the analysis



Click **Create Analysis** to start the analysis

SEED will display these messages in the upper right corner of your browser



Click this link to go straight to the **Analyses** page

Alternatively, click on the Analyses navigation button to go to the **Analyses** page



The **Analyses** page will show the status of the analysis

ANALYSIS NAME (USER DEFINED)	ACTIONS	NUMBER OF PROPERTIES	TYPE	CONFIGURATION	RUN STATUS	RUN DATE
EUI - Los Angeles		5	EUI		Completed	10-05-2021 15:36

EUI: Viewing the Analysis Results

ANALYSIS NAME (USER DEFINED)	ACTIONS	NUMBER OF PROPERTIES	TYPE	CONFIGURATION	RUN STATUS	RUN DATE
EUI - Los Angeles		5	EUI		Completed	10-05-2021 15:36

Click on the **Analysis Name** link to view each analysis in the Portfolio

← Analyses

Analysis: EUI - Los Angeles

NUMBER OF RUNS	TYPE	CONFIGURATION	RUN STATUS	LATEST MESSAGE	RUN DATE	RUN DURATION	RUN AUTHOR
5	EUI		Completed	Some properties failed to validate.	10-05-2021 15:36	0 seconds	LBNL 405, Robin

RUN ID	PROPERTY	LATEST MESSAGES	OUTPUT FILES
2595	790 Crystal Mission Suite 168	<ul style="list-style-type: none">Property view skipped (no linked electricity meters with 12 months of consecutive readings).	
2596	108 Phillip Hollow		
2597	52618 James Green Suite 761		
2598	0516 Amy Plains Apt. 177		
2599	0401 Middleton Ridge Suite 784	<ul style="list-style-type: none">Property view skipped (no linked electricity meters with 12 months of consecutive readings).	

Click **Run ID** to see the details for that building

Click the **Property** link to see the results in **Inventory Property Detail**

If there are issues with the analysis, they will be displayed here

EUI: Viewing the Analysis Results

[← Analysis: EUI - Los Angeles](#) **EUI - Los Angeles - Run #2596**

NUMBER OF RUNS	TYPE	CONFIGURATION	RUN STATUS	LATEST MESSAGE	RUN DATE	RUN DURATION	RUN AUTHOR
5	EUI		Completed	Some properties failed to validate.	10-05-2021 15:36	0 seconds	LBNL 405, Robin

RUN ID	PROPERTY	LATEST MESSAGES	OUTPUT FILES
2596	108 Phillip Hollow		

Results

```
{  
  "EUI": 48.648,  
  "Gross Floor Area": 304407,  
  "Total Yearly Meter Reading": 14808798.983  
}
```

Click this link to view the results in the Inventory Property Detail

Results

[← Properties](#) **Property Detail**

Property Detail | Meters | Notes | Column List Profiles | Cross-Cycles | Analyses

Property : 108 Phillip Hollow [Edit](#)

Actions ▾

Cycle: 2020 Calendar Year

Labels: (no labels applied)

Detail Column List Profile:

EUI - Los Angeles Run #2596 Completed

48.65
EUI No configuration.

10-05-2021 15:36 (0 seconds)
LBNL 405, Robin Full Analysis

EUI: Property List - Viewing the Analysis Results

The field "Analysis EUI" contains the EUI results in the Inventory Property List View

View by Property					View by Tax Lot				
+	✓	h	ⓘ	PM Property ID	Property Name	Address Line 1	Analysis EUI	Gross Floor Area (ft ²)	City
✓	h	ⓘ		93755566	Preston-Church	0516 Amy Plains Apt. 1...	64.0547	92,883.00	East Los Angeles
✓	h	ⓘ		274180	Chapman, Jordan and A...	790 Crystal Mission Su...		256,507.00	Los Angeles
✓	h	ⓘ		66378228	Cline Inc	108 Phillip Hollow	48.648	304,407.00	Los Angeles
✓	h	ⓘ		73006138	Gardner LLC	52618 James Green Sui...	67.454	260,829.00	Los Angeles
✓	h	ⓘ		98594283	Meyer-Franco	0401 Middleton Ridge ...		13,789.00	Los Banos

These are the two records that didn't have electric meter data so the EUI could not be calculated

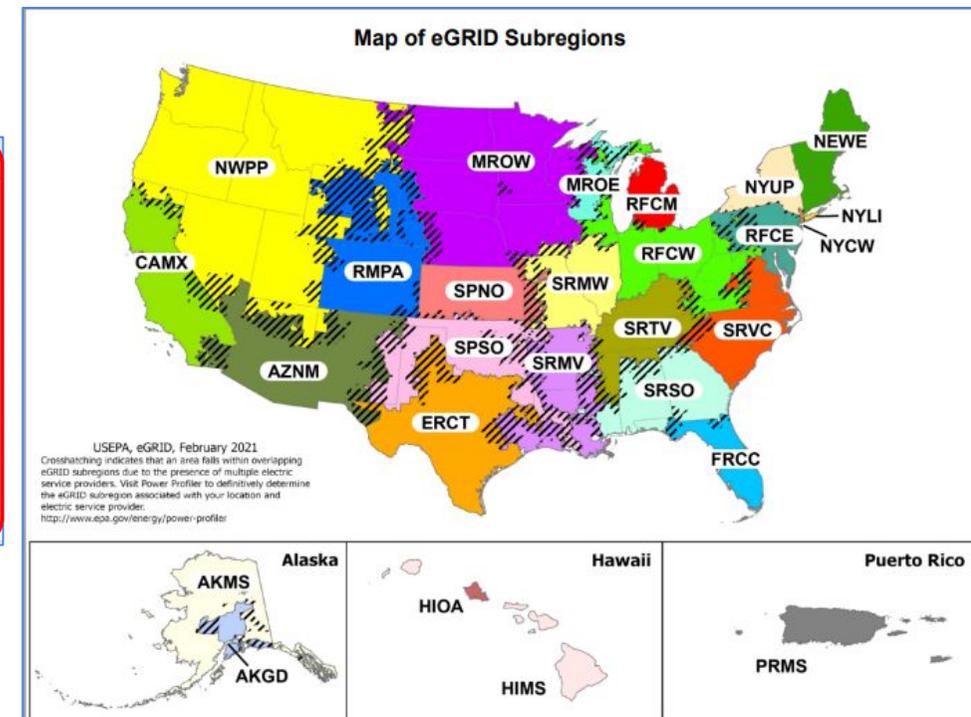
Average Annual CO2: Setting up the Analysis

Data Import

- In the Property data being imported to SEED, for a CO2 analysis the following must be added
 - eGRID Subregion Code
 - Find the eGRID Subregion definitions here <https://www.epa.gov/egrid/summary-data>

	A	B	C	D
	Property Name	Street Address	City/Municipality	eGRID Subregion Code
1				
2	Chapman, Jordan and Adams	790 Crystal Mission Suite 168	Los Angeles	CAMX
3	Walker, Fisher and Martinez	980 Michele Plain	Sacramento	CAMX
4	Moreno and Sons	54385 Lindsey Port Suite 304	Napa	CAMX
5	Clay-Miller	54988 James Fall Suite 678	Merced	CAMX
6	Faulkner and Sons	850 Elizabeth Prairie	Torrance	CAMX
7	Wiggins-Hill	15675 Martin Freeway Apt. 054	Sunnyvale	CAMX

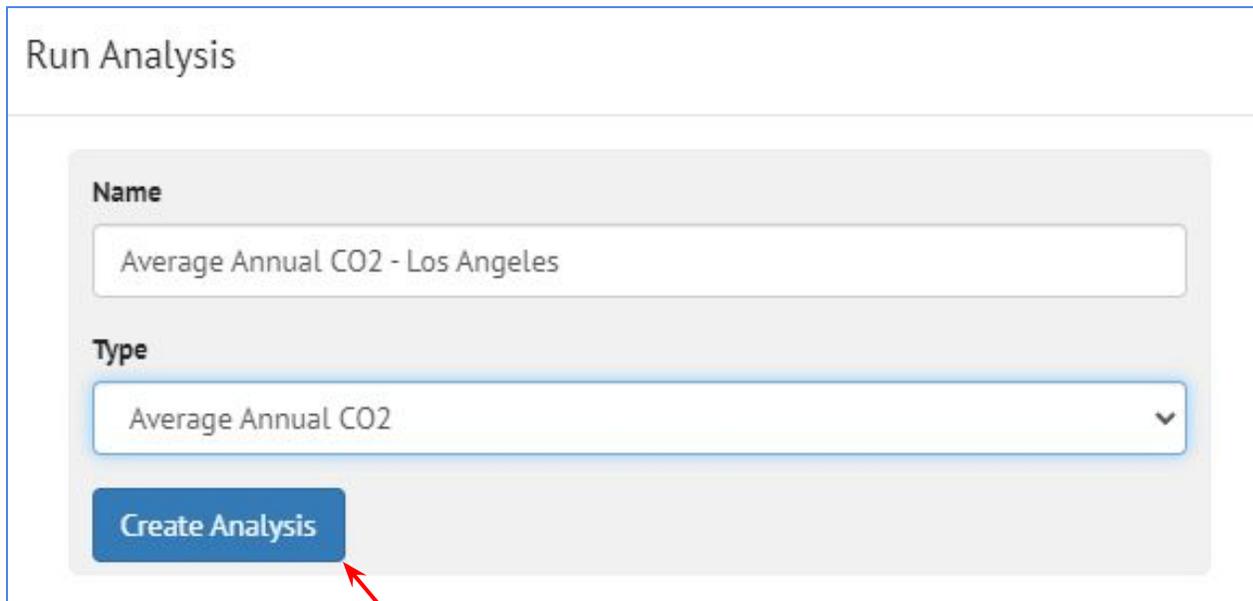
Add the eGRID subregion code to the import spreadsheet



Average Annual CO2: Setting up the Analysis

Property List

- In the Property List, select the properties you want to perform an analysis on
- Select Run Analysis from the Actions menu choice
- Add an Analysis Name and set Type = Average Annual CO2



Run Analysis

Name

Average Annual CO2 - Los Angeles

Type

Average Annual CO2

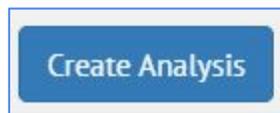
Create Analysis

Click **Create Analysis**
to start the analysis

Average Annual CO2: Running the Analysis

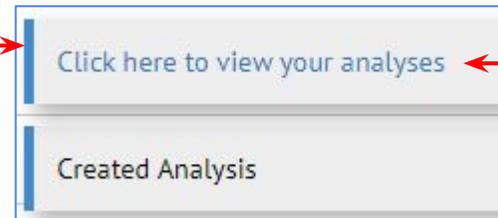
Property List

- Click the “Create Analysis” button to start the analysis
- Go to the Analyses page to see the status of the analysis



Click **Create Analysis** to start the analysis

SEED will display these messages in the upper right corner of your browser



Click this link to go straight to the **Analyses** page

Alternatively, click on the Analyses navigation button to go to the **Analyses** page



The **Analyses** page will show the status of the analysis

Analyses							RUN STATUS	RUN DATE
ANALYSIS NAME (USER DEFINED)	ACTIONS	NUMBER OF PROPERTIES	TYPE	CONFIGURATION				
Average Annual CO2 - Los Angeles		5	CO2			Completed	10-15-2021 15:31	

Average Annual CO2: Viewing the Analysis Results

Analyses							
ANALYSIS NAME (USER DEFINED)	ACTIONS	NUMBER OF PROPERTIES	TYPE	CONFIGURATION	CREATED	RUN STATUS	RUN DATE
CO2 Analysis - Los Angeles		4	CO2		10-20-2021 11:39	Completed	10-20-2021 11:40

Click on the **Analysis Name** link to view each analysis in the Portfolio

← Analyses

Analysis: CO2 Analysis - Los Angeles

NUMBER OF RUNS	TYPE	CONFIGURATION	CREATED	RUN STATUS	LATEST MESSAGE	RUN DATE	RUN DURATION
4	CO2		10-20-2021 11:39	Completed		10-20-2021 11:40	0 seconds

RUN ID	PROPERTY	LATEST MESSAGES	OUTPUT FILES
703			
704			
705			
706			

Click **Run ID** to see the details for that building

```
Results
{
  "Annual Coverage %": 100,
  "Average Annual CO2 (kgCO2e)": 368624,
  "Total Annual Meter Reading (MWh)": 1743.73
}
```

Click the **Property** link to see the results in **Inventory Property Detail**

If there are issues with the analysis, they will be displayed here

Average Annual CO2: Viewing the Analysis Results

Analysis: CO2 Analysis - Los Angeles

CO2 Analysis - Los Angeles - Run #706

NUMBER OF RUNS	TYPE	CONFIGURATION	CREATED	RUN STATUS	LATEST MESSAGE	RUN DATE	RUN DURATION	RUN AUTHOR
4	CO2		10-20-2021 11:39	Completed		10-20-2021 11:40	0 seconds	LBNL 405, Robin

RUN ID	PROPERTY	LATEST MESSAGES	OUTPUT FILES
706	🔗		

Click this link to view the results in the Inventory Property Detail

Properties

Property Detail

Property Detail Meters Notes Column List Profiles Cross-Cycles Analyses

Property : (address_line_1 is blank) [Edit](#)

Actions ▾

Cycle: 2020 Compliance Cycle

Labels: (no labels applied)

C02 Analysis - Los Angeles Run #706 Completed

368,624 kgCO2e
Average Annual CO2

100%
Annual Coverage

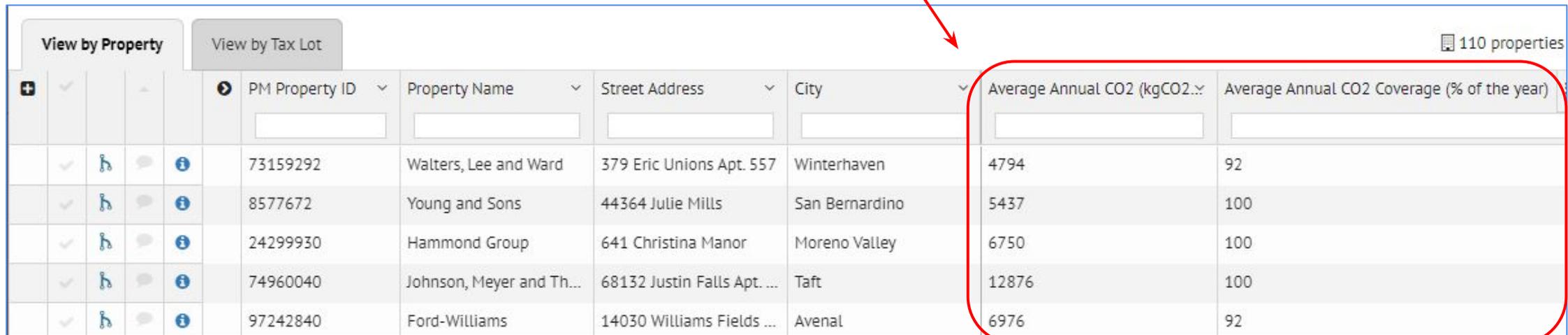
No configuration.

10-20-2021 11:40 (0 seconds)
LBNL 405, Robin

[Full Analysis](#)

Average Annual CO2: Property List - Viewing the Analysis Results

The fields "Average Annual CO2" and "Average Annual CO2 Coverage" contain the CO2 results in the Inventory Property List View



The screenshot shows a web interface for viewing property data. At the top, there are two tabs: "View by Property" (selected) and "View by Tax Lot". To the right, it says "110 properties". Below the tabs is a table with the following columns: "PM Property ID", "Property Name", "Street Address", "City", "Average Annual CO2 (kgCO2...)", and "Average Annual CO2 Coverage (% of the year)". The table contains five rows of data. A red rounded rectangle highlights the last two columns, and a red arrow points from the text above to this area.

PM Property ID	Property Name	Street Address	City	Average Annual CO2 (kgCO2...)	Average Annual CO2 Coverage (% of the year)
73159292	Walters, Lee and Ward	379 Eric Unions Apt. 557	Winterhaven	4794	92
8577672	Young and Sons	44364 Julie Mills	San Bernardino	5437	100
24299930	Hammond Group	641 Christina Manor	Moreno Valley	6750	100
74960040	Johnson, Meyer and Th...	68132 Justin Falls Apt. ...	Taft	12876	100
97242840	Ford-Williams	14030 Williams Fields ...	Avenal	6976	92