EAN Dashboard Guide

Developed by the Northwest Regional Planning Commission

Contents

Overview

What Is the EAN Dashboard?

The EAN Dashboard consists of 2 maps: the Energy Site Map and the Community Progress Map. The Energy Site Map shows the location of renewable energy sites and energy efficiency projects. The Community Progress Map shows the number of these sites and projects per capita and allows for comparisons over time.

Who Runs the Dashboard?

"The Dashboard was created by the Energy Action Network (EAN) and the Vermont Sustainable Jobs Fund (VSJF) together with partners from the Vermont Energy Investment Corporation (VEIC), the Vermont Energy and Climate Action Network (VECAN - VNRC), the Department of Public Service (DPS), Green Mountain Power (GMP), and Efficiency Vermont."

For More Information: https://www.vtenergydashboard.org/about

Where Does the Data Come From?

Much of the data comes from the Certificates of Public Good (CPGs) that new energy generating projects are required to obtain from the Public Utility Commission. Other data comes from the electrical utilities themselves and from the efficiency utilities (Efficiency Vermont and Burlington Electric Department).

For a detailed breakdown of where the data comes: https://www.vtenergydashboard.org/atlas

Scroll down the page to see where data for each metric comes from.

Data Limitations

Some data may not be accurate if it has not been verified with the service provider. This is especially true for communities who have small public utility

Metric → **Small Wind**

Description: Wind turbines with capacity ratings from 1 to 100 All large and small wind projects require a Certificate of Public Good from the Public Service Department.

Data Information → Type of Data: Site-Specific, Town Aggregate
Sector Breakdowns: None
Available Metrics: Type of Installation, Address, Capacity.
Years Available: 2001-2019
Source(s): Vermont Public Service Department Certificates of Public Good, Green Mountain Power, Burlington Electric, Vermont Electric Co-Op, Village of Johnson Water & Light, Washington Electric Co-op
Last update: April 2019

Notes on Quality (When Applicable) → *Note: As of 5/15/2019, EAN is still verifying GMP, VEC, and WEC. Only Burlington Electric and Johnson Water & Light should be considered verified at this date*

companies, as these providers are less likely to have the capacity to provide up-to-date information. The Community Progress Maps tool is still in a beta testing phase, and not all data is verified as accurate.

There are also geographic limitations. Data on energy sites can be inaccurate for municipalities without a unified zip code. A specific limitation for St. Albans City and St. Albans Town is that the Dashboard treats both as one place.

Energy Site Map

The Energy Site Map shows the number of renewable energy sites and energy efficiency projects by town, county, or Regional Planning Commission (RPC).

Using the Energy Site Map

Throughout this section, we will use the example of looking for information about Hydro energy sites in Northwest region (Franklin & Grand Isle Counties).
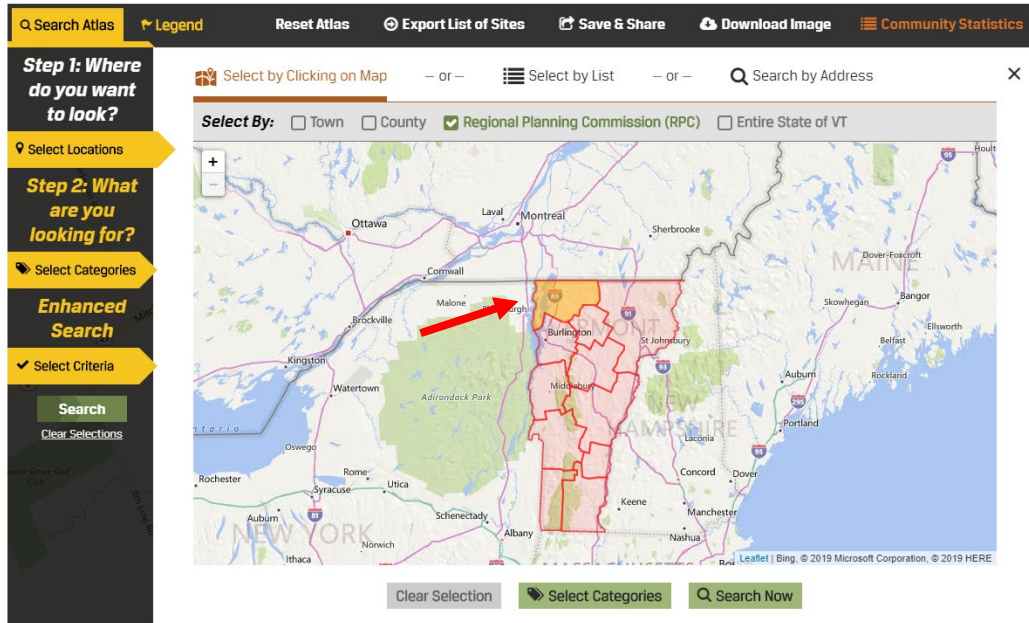
1. Go to the Energy Site Map

https://www.vtenergydashboard.org/energy-atlas

2. Select level of geographic analysis

Pick whether you would like to look at towns, counties, RPCs, or the whole state.
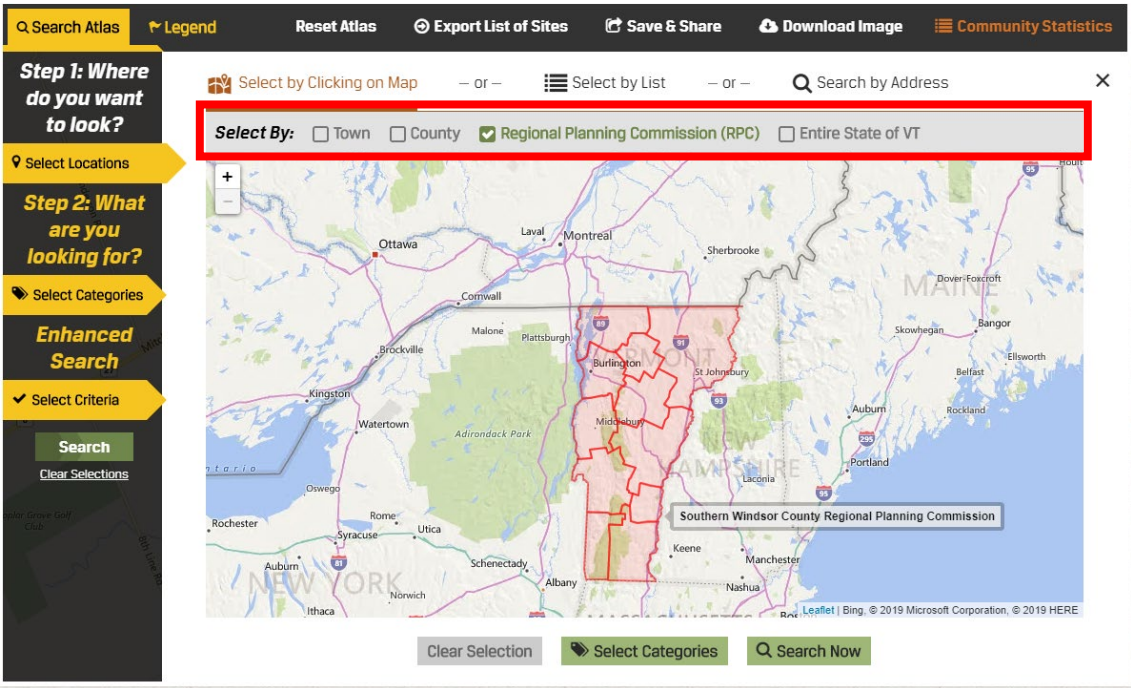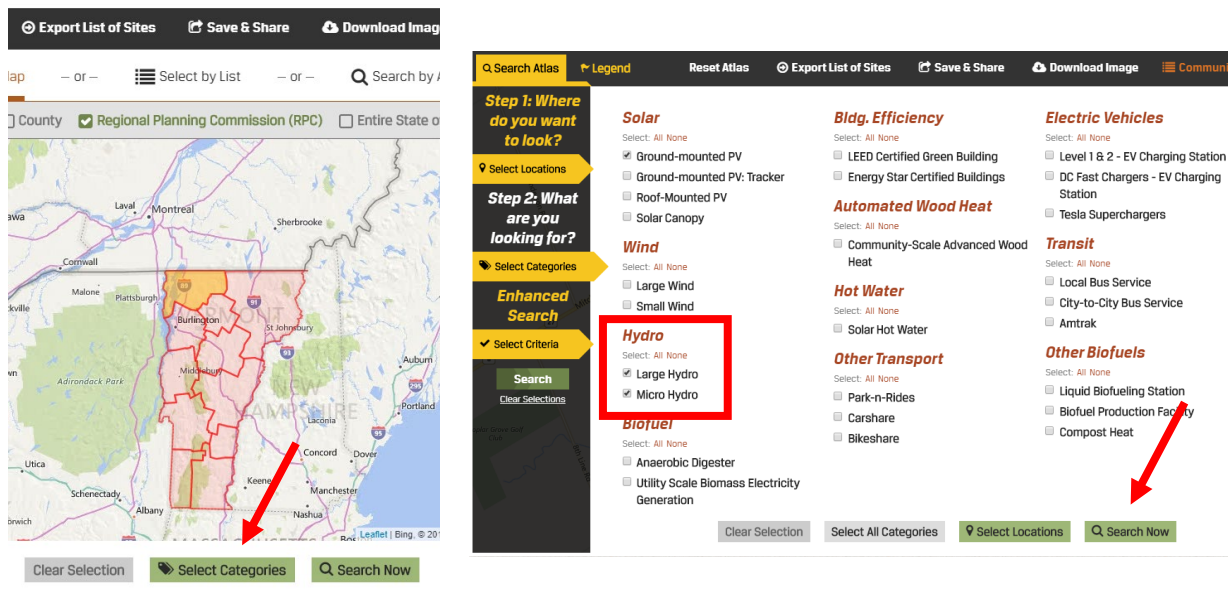
3. Select geographic region

Click on the geographic area(s) you want to see data for.

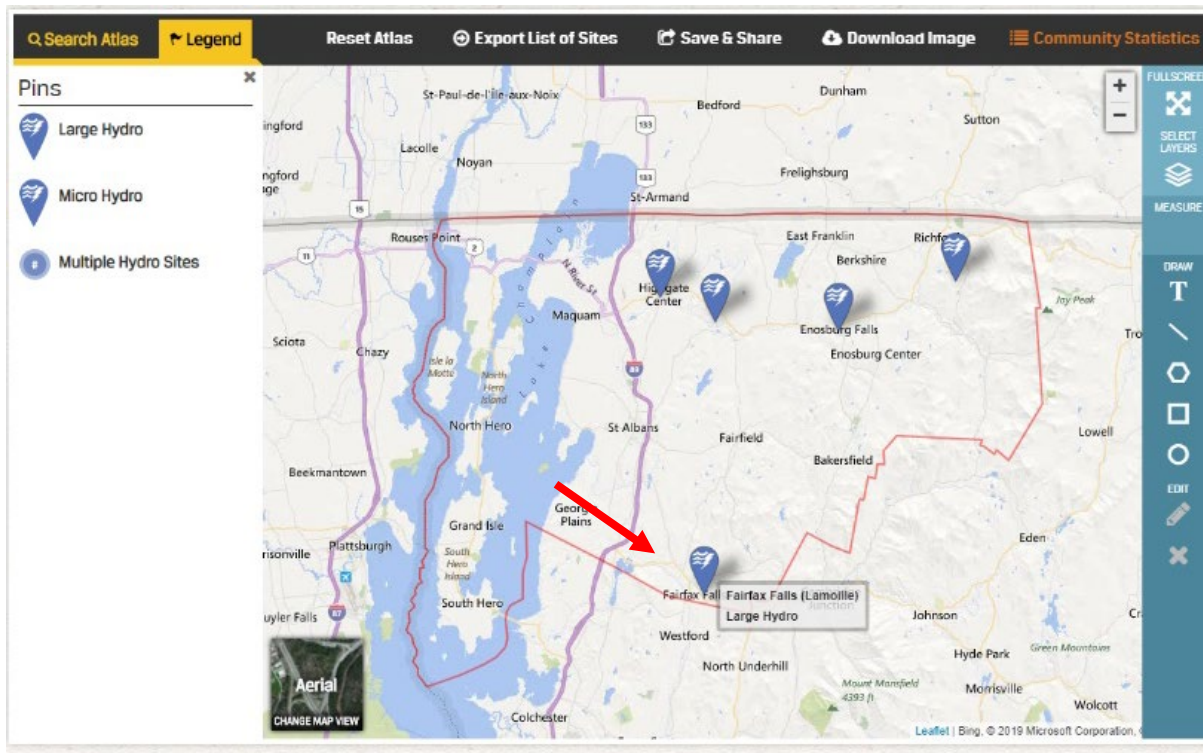### 4. Select categories you want to explore

Press the select categories button and select what categories you want data for by checking the boxes, then press search now.
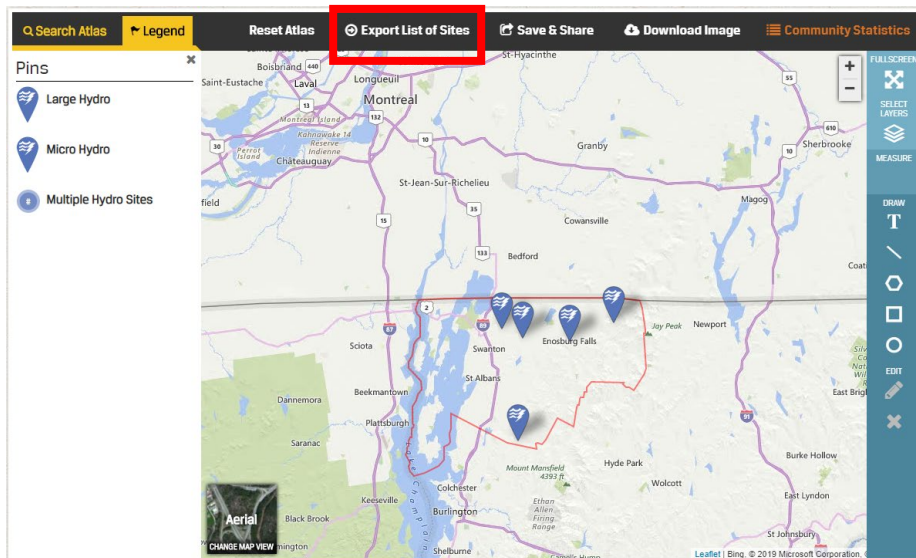

So

5. View Map

Now you can view a map of all sites in the category you selected within your selected geographic area. You can click on each site to get more information.

6. Export Data

To get data in an Excel document form press the export list of sites button. This will download an Excel document with information about each site.

When you export the document, you can see all the information associated with each site. For more information interpreting your exported data, see the appendix.

Community Progress Map

This map is designed for communities to track their progress on achieving Vermont's energy goal of meeting 90% of its energy needs from renewable sources by 2050. This map is still in beta and therefore some data is not confirmed as accurate.

Using the Community Progress Map

Throughout this section, we will use the example of looking for information on total solar electrical capacity in Fairfield, VT.

1. Go to Community Progress Map

https://www.vtenergydashboard.org/statistics

2. Select the metric you want to view

Hover over the categories on the left-hand side to see metrics associated with that category. Click on the metric you would like to view. For this tool, you can only select one metric at a time.
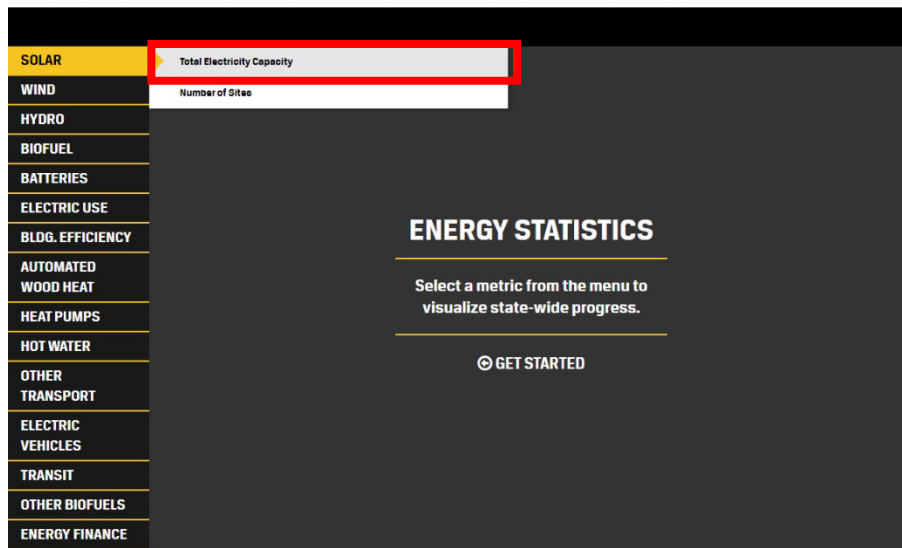
3. Select level of geographic analysis

Select whether you would like to see this metric at the town, county, RPC, or state level by selecting one of the categories at the top right-hand of the map.
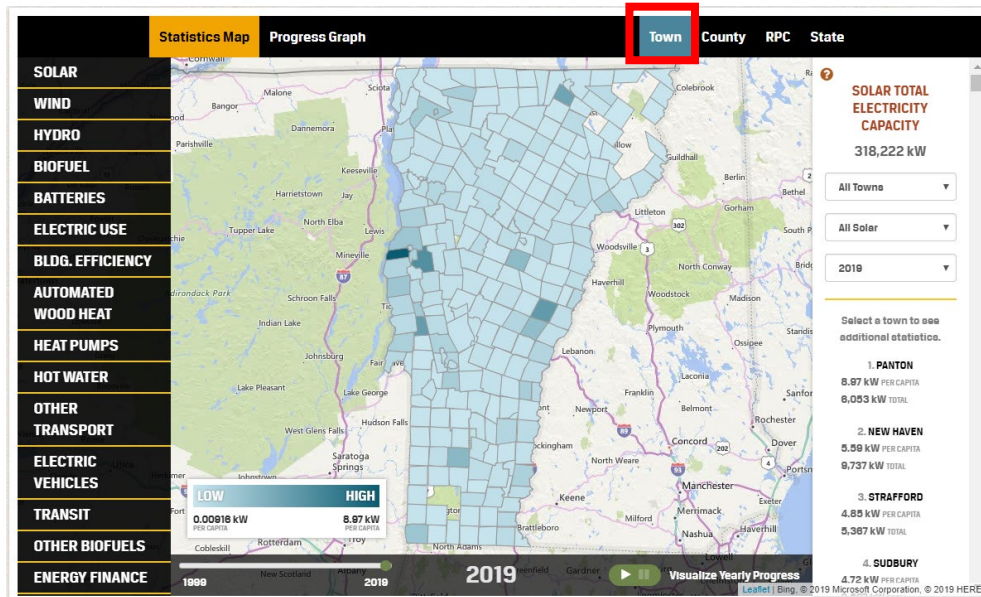

4. View map and select geography for more detail

From this view you have an overview of the per capita measurement of the metric you selected for all towns. You can hover over a geographic area to get more information or use the sidebar on the right to find information on a specific area.
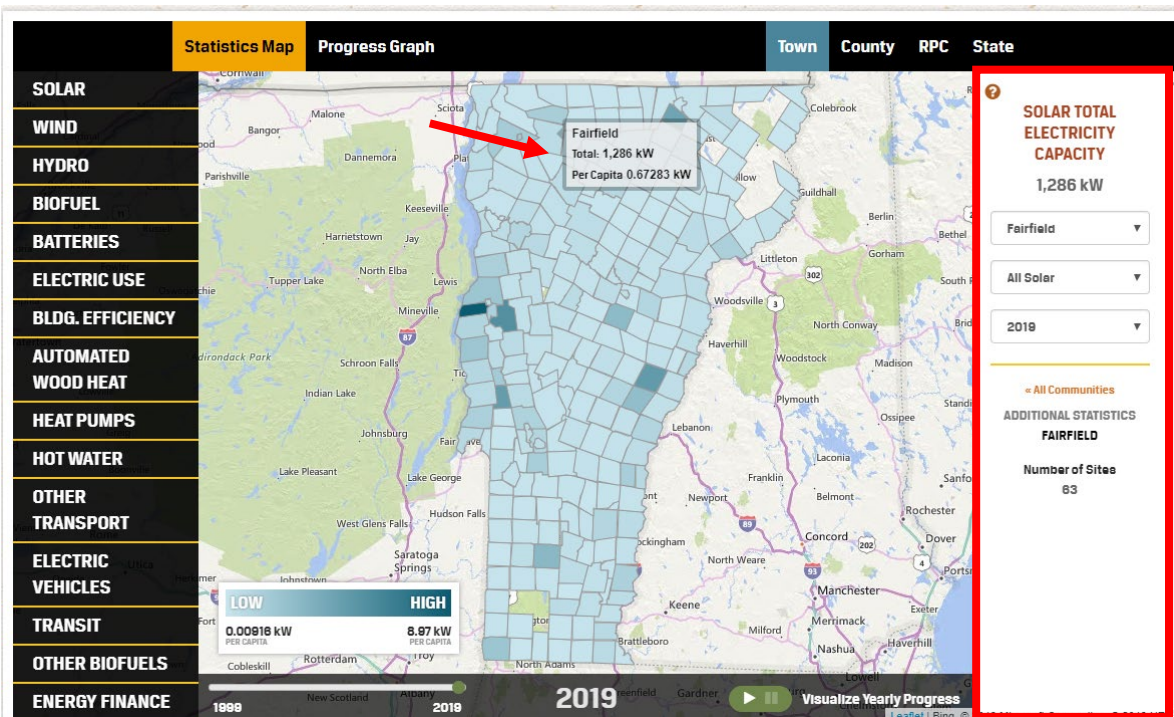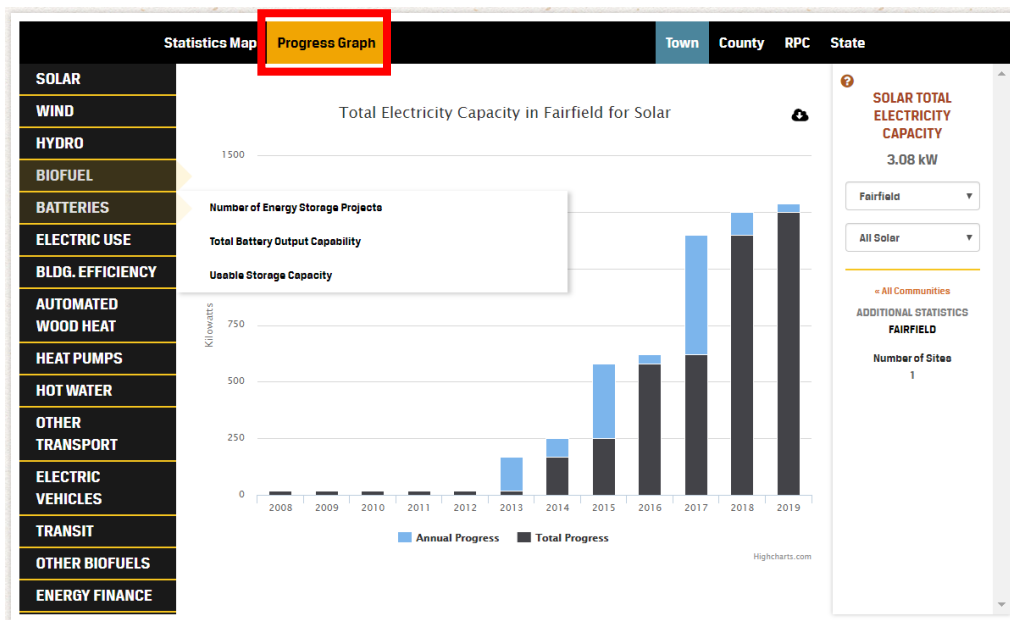
5. *Visualizing progress over time*

Press the play button on the bottom right of the screen or drag the timeline on the bottom left side of the screen to see how things have changed over time.
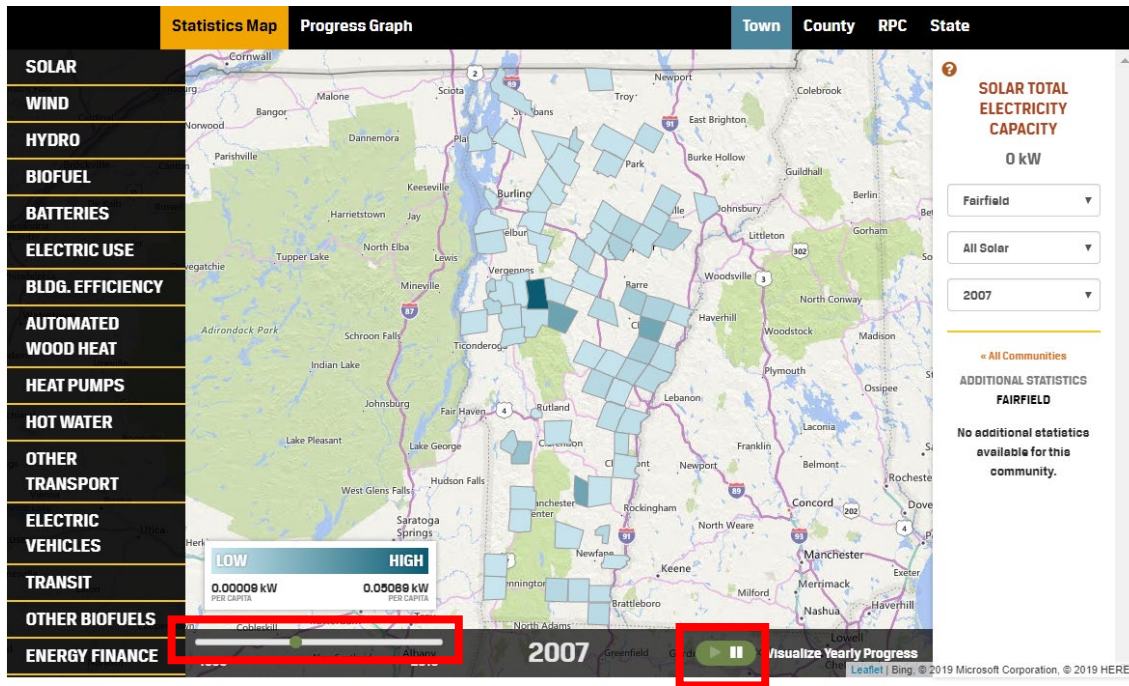
You can also see progress graphs by clicking the progress graph button at the top left corner.
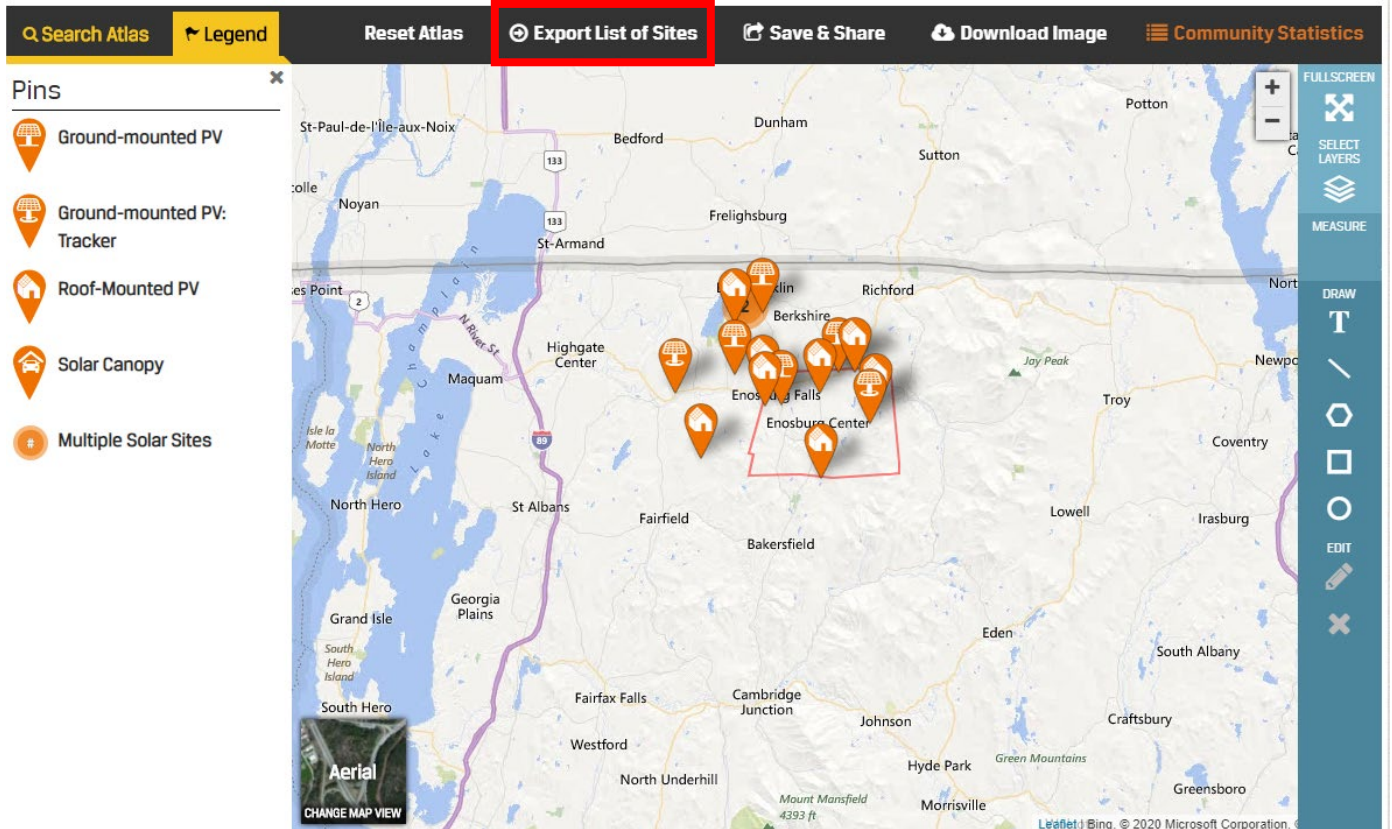
Appendix: Interpreting Exported Data

Interpreting the Data Exported from the Energy Sites Map

For this section, we will use the example of looking at all solar sites in Enosburgh, VT.

1. *Export Data*

To get data in an Excel document form press the export list of sites button. This will download an Excel document with information about each site.

2. Understanding Exported Data Headings

Once you open the Excel document, you will see a number of data headings. While most are self-explanatory, below are explanations and additional information on a few of the data headings.

Heading	Explanation
City	The location listed here is based on zip code and therefore may not be accurate. For instance, looking at the above map, we can see that the Enosburgh data includes several facilities that are located in Berkshire. This occurs because Berkshire does not have its own zip code and many properties use the same zip code as Enosburgh. You can use the address or coordinates to verify which facilities are within your municipality.
Electricity Type	This data is about the type of program the facility was permitted under. Common types of programs you may see are: 1. *Net-metered:* Usually smaller facilities (like rooftop residential solar) that run "behind the meter", that is when they generate electricity, they make the owner's electricity meter run backwards 2. *Group net-metered:* Same as net-metered facilities, except these are collectively owned by a group of individuals. 3. *Community Solar Array:* Solar facilities which retail customers may pay to be a part of and to then receive future credits on their electric bill. 4. *SPEED:* Renewable facilities either owned by utilities or owned by a private owner who has a power purchase agreement with a utility that were developed/contracted to meet the goals of the state's Sustainably Priced Energy Enterprise Development (SPEED) Program. 5. *Grid:* Large projects that are either owned by utilities or owned by a private owner who has a power purchase agreement with a utility.
Capacity kW	The data under this heading represent the maximum amount of kW a facility is permitted to generate under its Certificate of Public Good. The actual number of kW generated by any given facility may be less than this maximum allowed capacity.