

User Guide -- System Owner

Online Energy Monitoring & Analysis (EMA)

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The APsystems EMA, our robust wireless Energy Monitoring and Analysis software, enables comprehensive, web-based monitoring that analyzes and reports the performance of each module in your solar array. This real-time data can be accessed from any web-connected device, anywhere, anytime.

Unlike conventional "string" inverter monitoring, the APsystems EMA allows users to view each individual module and microinverter in the solar array, for more detailed performance data and improved troubleshooting.

Networked with the advanced APsystems ECU, the APsystems EMA promptly detects any performance issues in your solar array, pinpointing the location and nature of the problem and providing precise guidance for necessary maintenance, all within our user-friendly graphic interface.

Features

- Monitors and allows analysis of each solar module and microinverter
- Allows remote access to the solar array
- Shows performance issues and alerts the user to inverter events
- Communicates in real time

To Log onto EMA Website

1. Go to http://www.apsystemsema.com

The APsystems EMA Login page is displayed.



2. Enter your "Username" and "Password".

Note: The Password is case sensitive.

3. Press the "Login" button.

Your system's Dashboard is displayed.

Introduction to Your System Dashboard



Functionality Icons Select area of the EMA site that you want to review: DASHBOARD, MODULE, REPORT, or MANAGEMENT.

System Status Green (Normal) – The system is operating and reporting as expected.

Grey (No Data) – There is a system malfunction that should be investigated. No Production data is being communicated to the EMA server. Check the ECU connection to see if

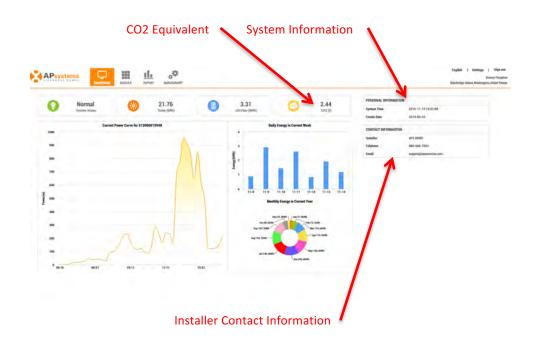
you can isolate the problem. If not, contact your installer.

Settings Tab Where you can change your personal information, including your password.

Daily Power The amount of power generated during the current day.

Lifetime Power The amount of power the system has generated during its lifetime.

Continued ...



CO2 Equivalent The equivalent amount of CO2 (expressed in tons) benefit the system has provided in its lifetime.

System Information The current date and time for the system, and the date the original account was

created.

Installer Contact
Information

Your installer's company name, phone number and email address.

Continued ...



Current Daily Power Graphic representation of the power being generated during the current day.

Current Weekly Graphic representation of the energy that has been generated each day during the current seven day period.

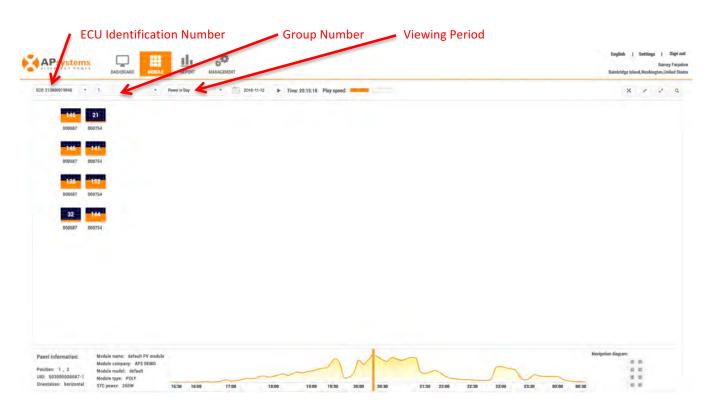
Yearly Energy by Graphic representation of the energy that has been generated each month during Month Graph the last 12 month period.

View Individual Module Performance

1. Select the "MODULE" icon at the top of the page.



The Module Performance page is displayed.



ECU Identification

Number (UID)

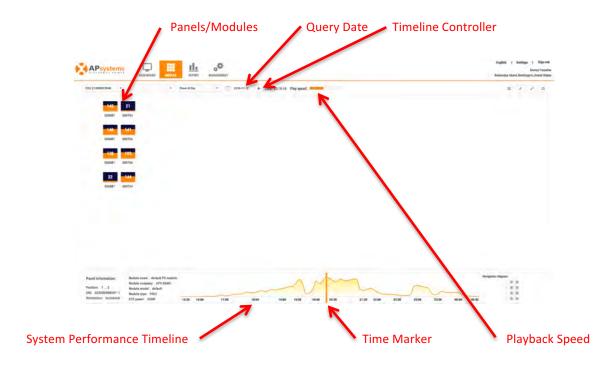
Group Number

Select the number for the "group" you want to view. Depending on the complexity of the panel/module layout, your installer may have designed your system with multiple groups.

Viewing Period

Module performance can be viewed daily, or over the last 30 day period.

Introduction to Module Performance



Panels/Modules

A graphic representation of how your array is laid out. The number in the center of each module represents the current power being generated by the panel (expressed as watts - DC). You can identify the inverter assignment of each panel by selecting (clicking on) the panel you want to identify.

Note: The power being generated by each panel will vary based on the amount of solar exposure.

Graphic representation of the power being generated by the entire system during the current

Query Date You can select the date you want to view.

Timeline Controller The timeline controller turns ON and OFF the System Performance Timeline at the bottom of

the page.

Playback Speed A slider control that allows you to determine the speed of the System Performance Timeline

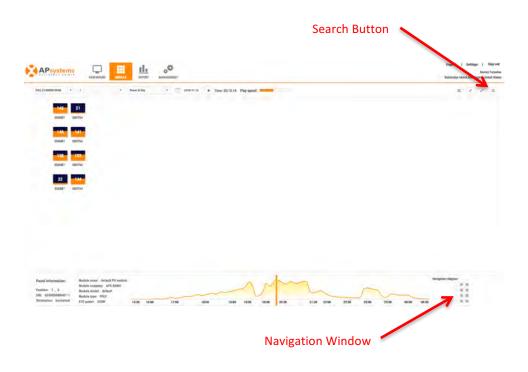
playback.

Timeline viewing period.

System Performance

Time Marker Time indicator for timeline. Power is simultaneously displayed on the panels/modules. You can

also drag the marker across the timeline to view a specific production time.



Search Button Allows you find a specific inverter (using its UID) on your array.

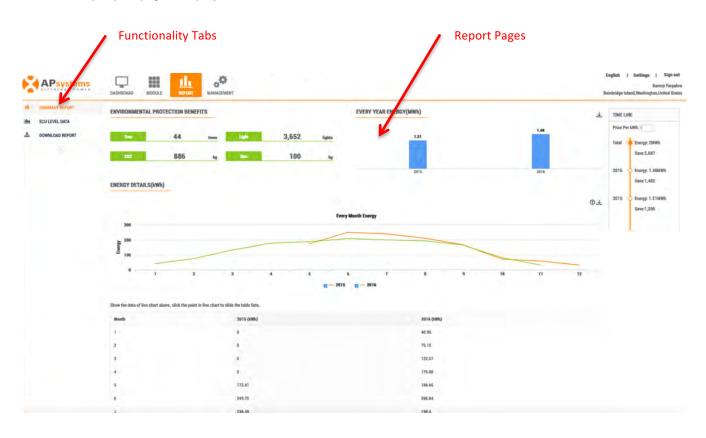
Navigation Window Used with arrays that are larger than will fit on a single module page.

View System Reports

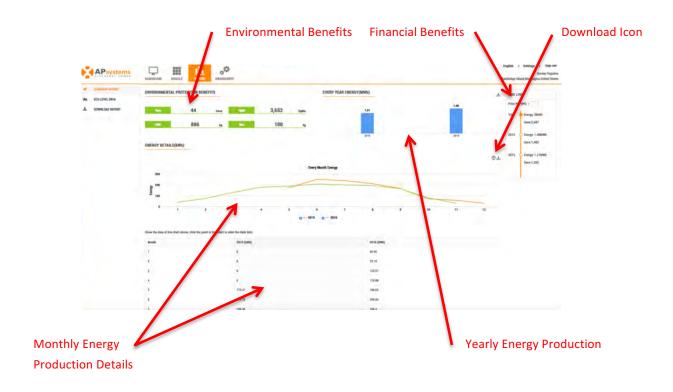
1. Select the "REPORT" icon at the top of the page.



The Summary Report page is displayed.



Introduction to System Reports

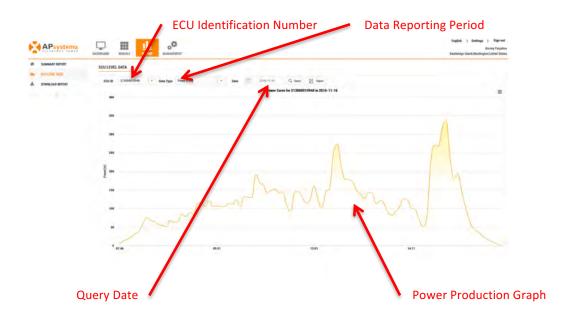


Summary Report

Environmental Benefits	Represents environmental equivalent benefits.
Financial Benefits	Calculates and represents financial benefits based on your specific utility's cost per kilowatt.
Monthly Energy Production Details	Both graphic and table views of monthly production details for 12 month period
Yearly Energy Production	Graphic representation of yearly power production.

Note: You can download the reported data by selecting the "Download Icon".

ECU Level Data



ECU Identification
Number (UID)

The ECU number that is assigned to your system.

Data Reporting Period

Pulldown for selecting reporting period and specific data type .

Query Date

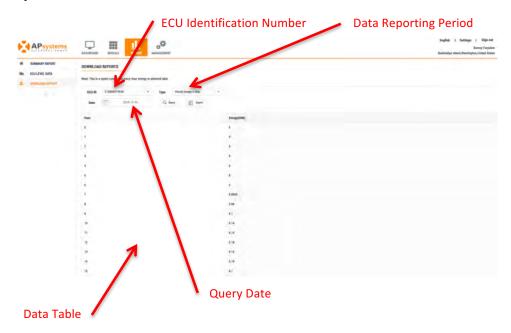
You can select the date you want to view.

Power Production

Graphic representation of the selected reporting period and data type.

Graph

Download Report



ECU Identification

The ECU number that is assigned to your system.

Number (UID)

Data Reporting Period Pulldown for selecting reporting period and specific data type .

Query Date You can select the date you want to view.

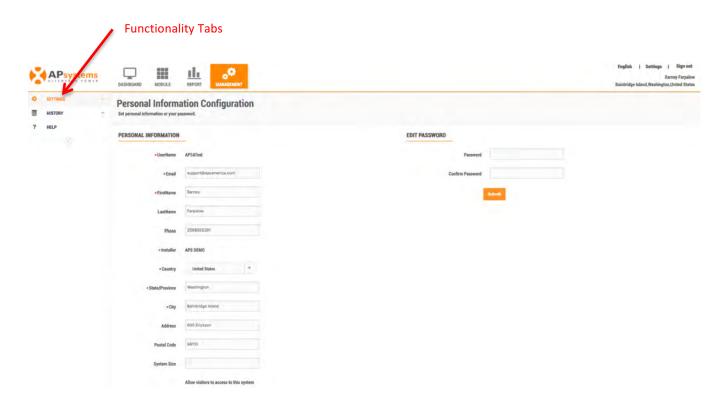
Data Table Table view for the selected reporting period and data type.

View System Management

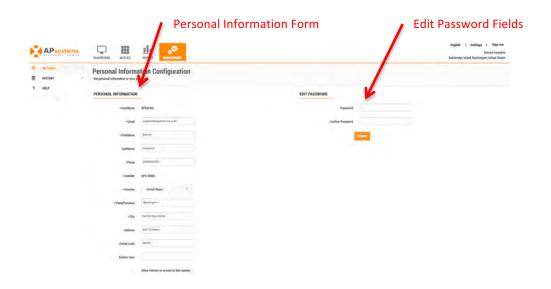
1. Select the "Management" Icon at the top of the page.



The Settings page is displayed.



Introduction to System Management



Settings

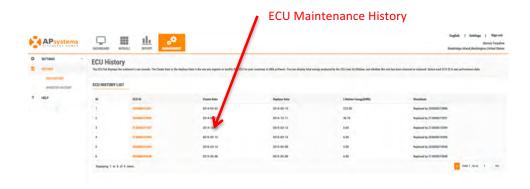
Personal Information Edit any of your personal information (except for your Username). Contact your

Form installer if you need your username changed.

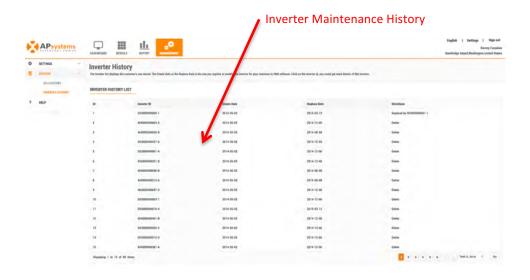
Edit Password Edit your password.

Fields

History – ECU History



History – Inverter History



Help

