



California ISO

Integration of Renewables Watch data into Today's Outlook and ISO Today mobile app

October 25, 2021

Why move Renewables Watch into Today's Outlook and ISO Today mobile app?

- The improvements to Today's Outlook over the last five years support better presentation of the Renewables Watch data than the current PDF and txt files.
- Renewables Watch and Today's Outlook contain much of the same data.

California ISO

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Home > Market Operations > Reports Bulletins > Renewables and emissions reports

Renewables and emissions reports

As California moves towards a 60-percent renewable generation portfolio by 2030, these reports provide information on renewable energy production within the ISO grid. The reports use raw data and are not intended to be used as the basis for operational or financial decisions.

- Renewables fast facts
 - Flexible Resources to Help Renewables - Fast Facts 11/10/2016 16:18
 - Managing an Evolving Grid - Fast Facts 12/20/2018 10:55
- Understand how time-of-use periods help
 - Matching Time-of-Use Periods With Grid Conditions - Fast Facts 8/11/2015 09:21
 - California ISO Time-of-Use Period Analysis 8/10/2015 13:37
 - California ISO Proposed Time-of-Use Periods - CPUC - Feb 26, 2016 8/27/2016 12:27

[Click here for our near real-time renewable production graphs.](#)

Daily Renewables Watch

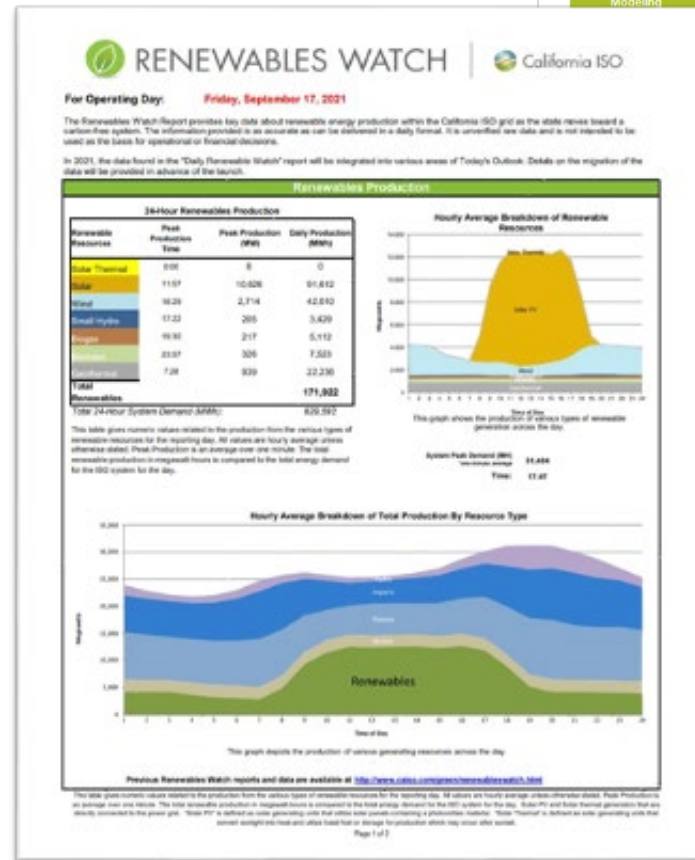
The Renewables Watch Report provides actual daily renewable production within the ISO grid. *Note: For information from 9/23/2019 to 10/03/2019, the majority of data can be found on Today's Outlook.*

In 2021, the data found in the "Daily Renewables Watch" report will be integrated into various areas of Today's Outlook. Details on the migration of the data will be provided in advance of the launch.

Daily reports and data files

- Daily Renewables output data for 10/13/2021
- Daily Renewables Watch for 10/13/2021
- Daily Renewables output data for 10/12/2021
- Daily Renewables Watch for 10/12/2021
- Daily Renewables output data for 10/11/2021
- Daily Renewables Watch for 10/11/2021
- Daily Renewables output data for 10/10/2021
- Daily Renewables Watch for 10/10/2021
- Daily Renewables output data for 10/09/2021
- Daily Renewables Watch for 10/09/2021
- Daily Renewables output data for 10/08/2021
- Daily Renewables Watch for 10/08/2021

[Click to view yesterday's output](#)



View renewable production totals

Go to:

<https://www.caiso.com/TodaysOutlook/Pages/supply.html#section-renewables-trend>

Select a past date from the dropdown, then under the “Options” dropdown, select “View peaks and daily production.”

Old

24-Hour Renewables Production

Renewable Resources	Peak Production Time	Peak Production (MW)	Daily Production (MWh)
Solar Thermal	0:00	0	0
Solar	11:57	10,626	91,612
Wind	18:29	2,714	42,010
Small Hydro	17:22	205	3,429
Biogas	19:30	217	5,112
Biomass	23:57	326	7,523
Geothermal	7:28	939	22,236
Total Renewables			171,922

Total 24-Hour System Demand (MWh): 629,592

New



Renewables trend

Energy in megawatts broken down by renewable resource in 5-minute increments.

09/17/2021 Options Download

Peaks and daily production

Toggle stacked chart
 Show demand
 View peaks and daily production

Resource	Peak production (MW)	Daily production (MWh)
Solar	10,631	91,140
Wind	2,723	42,632
Biogas	217	5,105
Biomass	324	7,474
Geothermal	939	22,237
Small hydro	205	3,439
Renewables	12,990	172,057
Demand	31,381	623,225

Renewables as a stacked chart

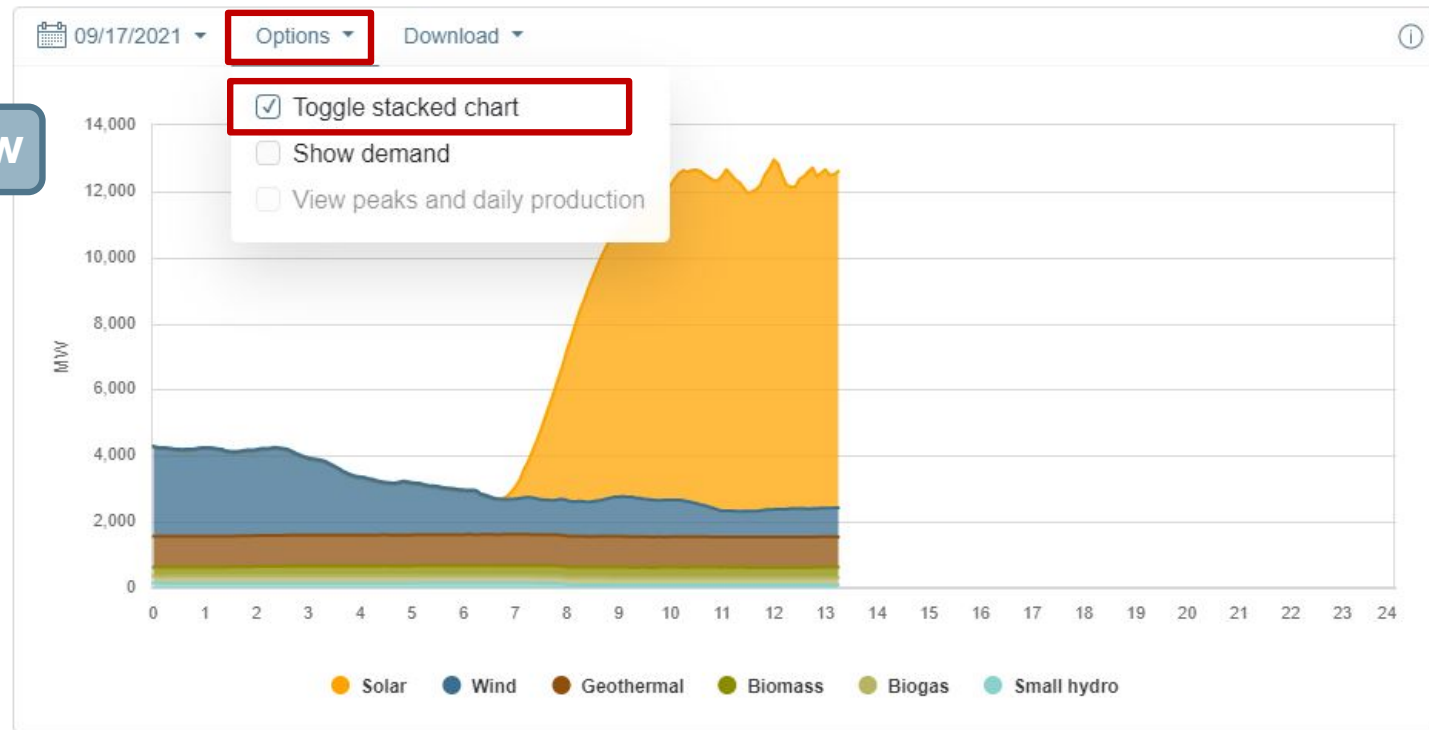
Go to:

<https://www.caiso.com/TodaysOutlook/Pages/supply.html#section-renewables-trend>

From the “Options” dropdown select “Toggle stacked chart.”

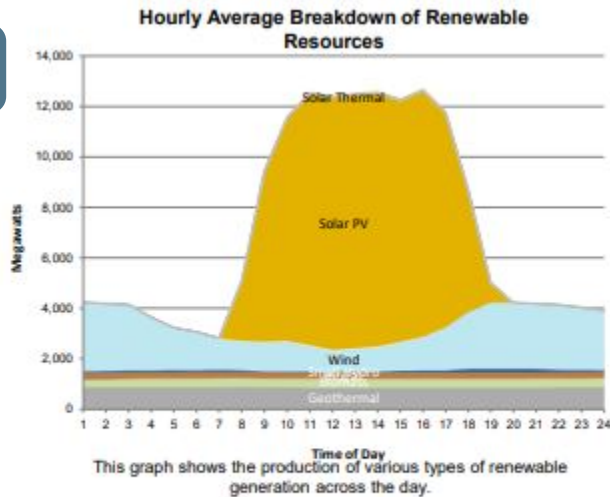
Renewables trend

Energy in megawatts broken down by renewable resource in 5-minute increments.



New

Old



System Peak Demand (MW)
*one minute average 31,404
Time: 17:47

Production by resource type as a stacked chart

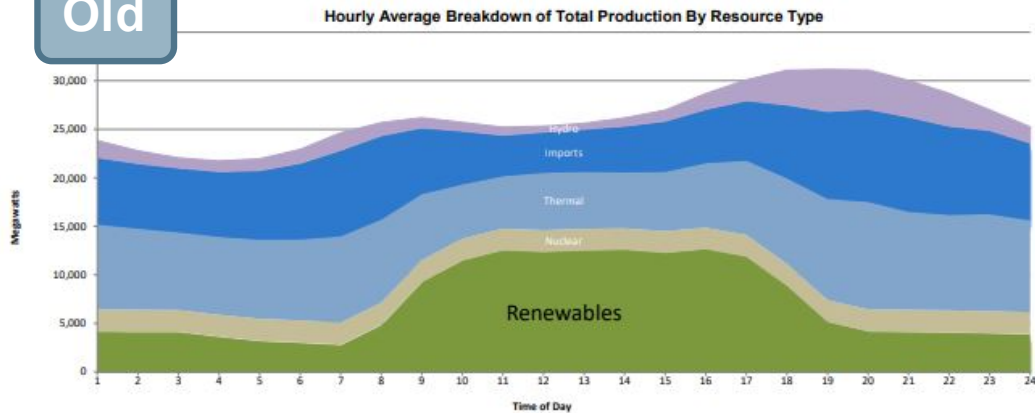
Go to:

<https://www.caiso.com/TodaysOutlook/Pages/supply.html#section-supply-trend>

To see supply trend as a stacked chart, click on the “Options” dropdown and select “Toggle stacked chart.”

New

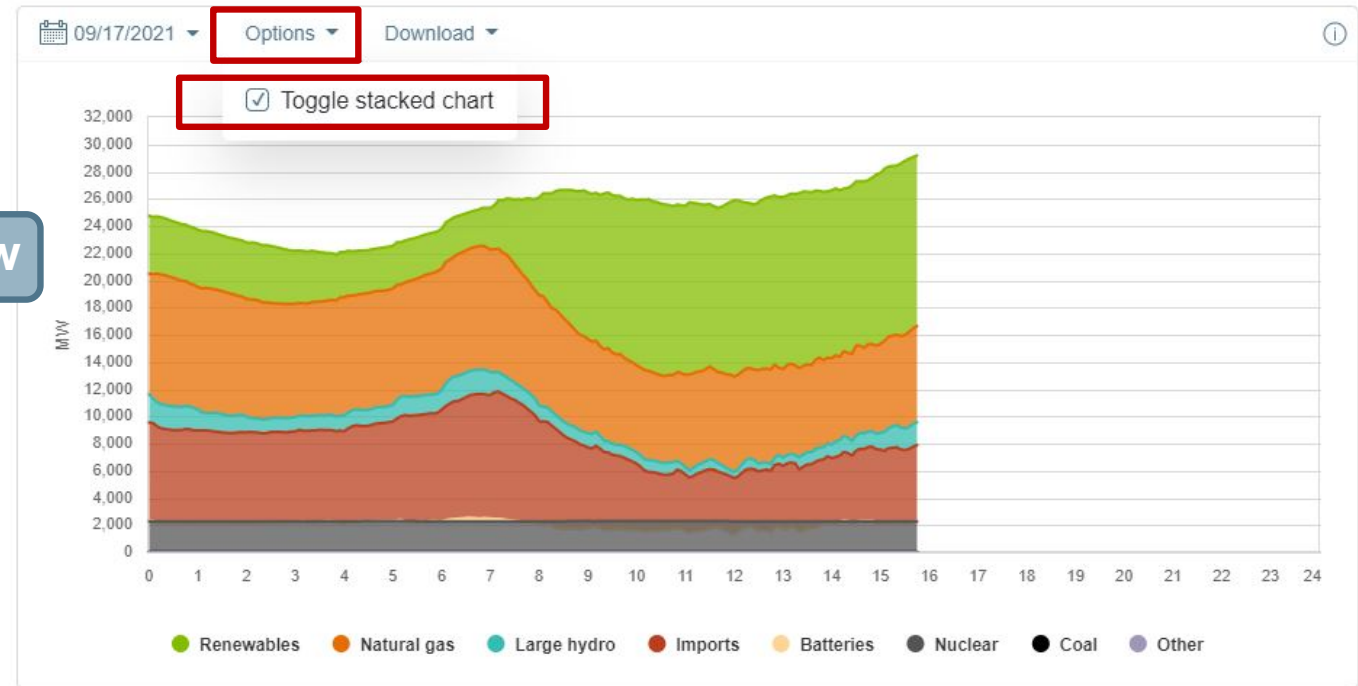
Old



This graph depicts the production of various generating resources across the day.

Supply trend

Energy in megawatts broken down by resource in 5-minute increments.



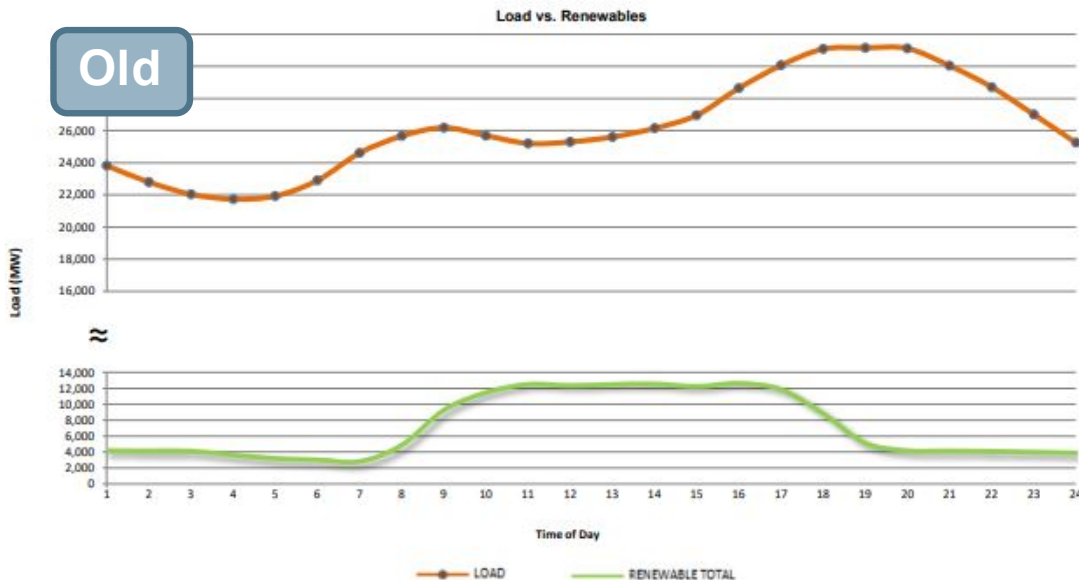
Demand can be viewed with renewables data

Go to:

<https://www.caiso.com/TodaysOutlook/Pages/supply.html#section-renewables-trend>

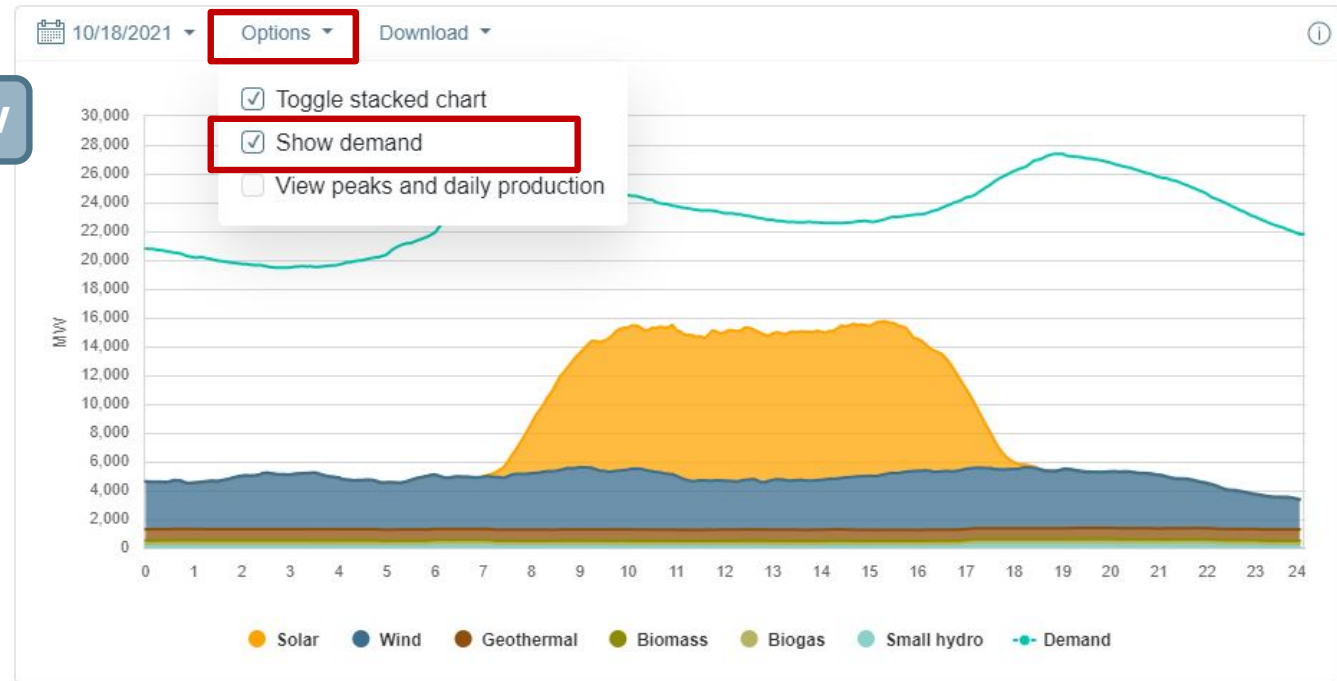
To see demand with all renewable production, click on the “Options” dropdown and select “Show demand.”

New



Renewables trend

Energy in megawatts broken down by renewable resource in 5-minute increments.



Wind and solar production can be viewed with demand and net demand

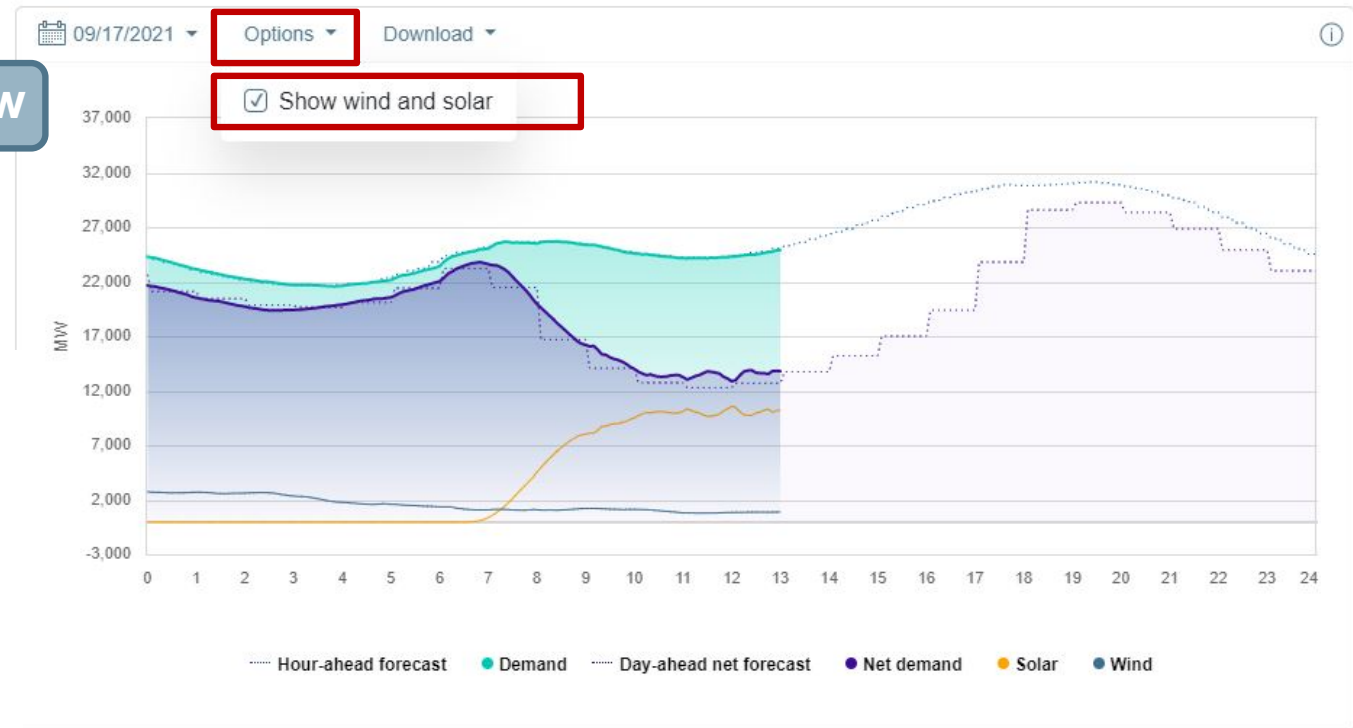
Go to:

<https://www.caiso.com/TodaysOutlook/Pages/index.html#section-net-demand-trend>

To see demand and net demand with wind and solar production, click on the “Options” dropdown and select “Show wind and solar.”

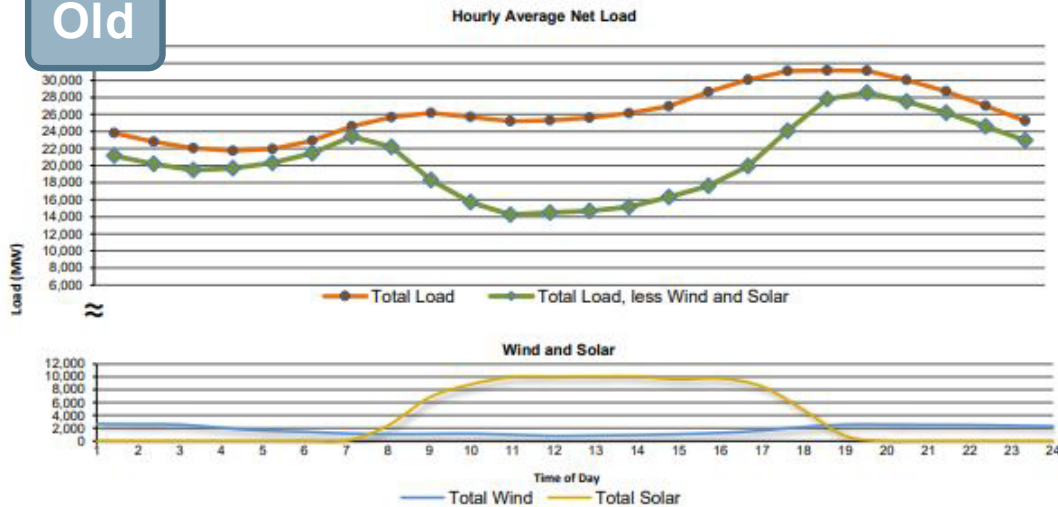
Net demand trend

System demand minus wind and solar, in 5-minute increments, compared to total system and forecasted demand.



New

Old



Data

- There are no changes to the underlying data. The data currently used to create the Renewables Watch report is being fed into Today's Outlook and ISO Today.
- In the Renewables Watch report solar thermal and solar are broken out separately, in Today's Outlook and ISO Today, all solar resources are combined and labeled "solar".
- Renewable resource and total production numbers in the Renewables Watch report are hourly values, in Today's Outlook and ISO Today the values are reported as five minute numbers.
- Use "Download" on each graph to obtain the data as a CSV file.

Note: The Renewables Watch report will be discontinued as of December 1, 2021.

Questions? [Contact us](#)