

## European Solar Energy Storage

# What months in massachusetts generate the most solar energy



## Overview

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Solar power in Massachusetts has been increasing rapidly, due to for installations that began before December 31, 2011, and the sale of for \$0.30/kWh, which allows payback for the system within 5 or 6 years, and generates income for the life of the system. For systems installed after December 31, 2011, and before December 31, 2016, the 30% tax grant becom.

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The liquefied natural gas (LNG) terminal in Everett, Massachusetts, received 87% of the nation's total LNG imports in 2023, primarily from Trinidad and Tobago. In 2022, Massachusetts used less energy to produce a dollar of GDP than all other states except California and New York. In 2023.

The average monthly electricity usage in Massachusetts is 20 kWh per day, 610 kWh per month or 7320 kWh per year. Based on the data below, you would need 14-35 panels depending on the time of year to cover your electricity costs exactly. The variable factors are that electricity usage varies.

The month of July has the highest historical solar radiation values in Boston with an average of 6.01 kWh/m<sup>2</sup>/day. [More] Solar panels in Boston that are tilted towards the equator at an angle equal to the latitude will produce the maximum solar energy output. [More] The total length of the day in.

Spring months starting from April contribute significantly to solar production. We would argue that May is actually the best month for solar production of the

year. There are a few factors that lead us to this conclusion, which can be surprising if you're less acquainted with how solar panels work.

California once again takes first place among the top states generating electricity from solar power this month. The Golden State produced 24.1% of the United States' total of 38,965 thousand megawatt-hours, according to ChooseEnergy.com's August 2025 solar energy generation report. The report. How much solar energy does Massachusetts generate?

In 2023, solar energy accounted for 24% of Massachusetts's total in-state electricity net generation. The state ranked 10th in the nation in net generation from all solar in 2023.

Which states generate the most solar energy?

California once again takes first place among the top states generating electricity from solar power this month. The Golden State produced 23.2% of the United States' total of 35,440 thousand megawatt-hours, according to ChooseEnergy.com's July 2025 solar energy generation report.

Is summer the best month for solar energy production?

Summer has longer daylight, which results in a higher level of energy production. It's commonly assumed that summer is the best month for solar, and it's not wrong! However, there are a few drawbacks to the summer months, which make preparing for solar energy production in the Spring the most advantageous for the year.

Which Massachusetts town has the most solar installations?

The town of Harvard, Massachusetts, has the most installed solar panels with 75 planned and 21 currently installed. Other notable installations include two arrays totaling 4.5 MW in Holyoke, and a 1.8 MW solar farm in Pittsfield.

Does Massachusetts have a solar energy program?

Massachusetts has a robust solar energy program, particularly for solar installations on closed landfills. There are more than 80 projects with over 250 MW of capacity.

What is the largest solar array in Massachusetts?

Massachusetts' largest privately owned solar array is the 7.1 MW Happy

Hollow Community Solar and Storage Farm, completed in March 2019. The first solar park in the country is the 100 kW array installed in 1981 at Beverly High School. The largest campus to have a solar program is Harvard's 555 kW array.

## What months in massachusetts generate the most solar energy

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### Solar Panel Output Winter Vs Summer

Here is the table based on the average estimated solar radiation and solar panel output per month in the United States. Energy conversion is assumed to be 15% efficient and on a standard solar panel of 1.6 meters ...

### Massachusetts State Energy Profile

The variable factors are that electricity usage varies depending on how hot are summers and how cold are winters, and whether you use electricity based cooling and heating. Check with your solar system installer for exact numbers.



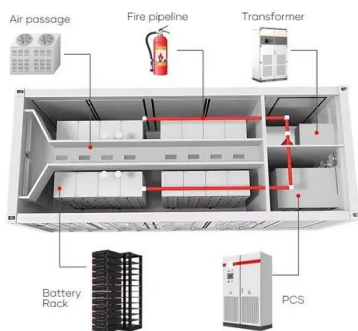
### **Solar Energy by State August 2025 , Choose Energy**

The following table ranks the best and worst states for solar energy production (shown in thousand megawatt-hours) in April and May, number 1 represents the best state for ...

### **When Do Solar Panels Produce the Most Electricity?**

Solar panels are most efficient at producing

electricity when they are directly facing the sun. This is why solar panels are usually installed on rooftops or in open areas that receive direct sunlight for the majority of the day. ...



## Peak Sun Hours for Solar Panels in Massachusetts

Also, Massachusetts will have slightly higher average peak sun hours during the summer months because a greater likelihood for clear days and longer time and better angle that the sun has ...

## These 5 states are all in on solar in 2025

Massachusetts is the top state for homeowners per capita requesting quotes for solar in the first quarter of this year--see what other states made the list.



## Solar power in Massachusetts

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## 5 surprising facts about renewable energy growth in Massachusetts

According to Renewables on the Rise 2024, the eighth edition of our annual report on the state of clean energy in America, Massachusetts now generates 507% more ...



## Peak Season for Solar Production , Cape Cod, MA

Peak production refers to the period when your solar panels generate the most energy, typically during the sunniest months of the year. By strategically planning your ...

## Peak Sun Hours for Solar Panels in Massachusetts

Also, Massachusetts will have slightly higher average peak sun hours during the summer months because a greater likelihood for clear days and longer time and better angle that the sun has during those longer summer days.



## 5 surprising facts about renewable energy growth in ...

According to Renewables on the Rise 2024, the eighth edition of our annual report on the state of clean energy in America, Massachusetts now generates 507% more solar power than it did in 2014. This increase means ...



## Best 6 Solar Production Months Ahead - More Sunshine Means ...

The melt from New England's deep freeze has begun and solar installation owners in Massachusetts can look forward to the 6 best months of solar production in the year ...



## The Best Time of Year For Solar Power in Florida

However, summer has cloudy afternoons and very hot temperatures, two things that work against solar energy production. Despite shorter days, solar energy systems actually perform best in April and May, not ...

## 5 Reasons to Go Solar in the Spring - , Boston Solar , MA

Your solar panels will likely generate more electricity than you need during the summer months. Thanks to net metering, you can trade that extra electricity to your utility in ...





## Which Months Produce the Most Solar Energy?

When you install solar panels onto your property, you want to get as much out of them as possible. While solar panels will work year-round, their production varies depending on the season. Below, we discuss which months you can expect ...

## Solar Energy & Solar Power in Boston, MA , Solar ...

The three months that historically average the lowest average solar output levels in Boston (Massachusetts) are December with an average of 327.65 kWhac, followed by November with an average of 338.07 kWhac and January at ...



## Growing Solar, Protecting Nature

By protecting the most valuable natural and working lands from development, Massachusetts could produce enough solar energy to meet our GHG emission goals, while preserving 76% more forest carbon than our current trajectory ...

## What are the top 10 states for renewable energy?

Top 10 states for renewable energy 10. Colorado - 43% Colorado has made significant strides in renewable energy, with 43% of its electricity coming from wind, solar and ...



## Average Solar Production in Massachusetts USA

The average solar panel surface area is estimated to be 1.5 square meters. The efficiency of converting solar radiation into energy is estimated to be 15%. Average Electricity Usage in Massachusetts and How Many Solar Panels You ...



## The Best Massachusetts Solar Incentives in 2025

Save on solar panels with tax credits and incentives. Learn what's available for residential and commercial solar installation in Massachusetts.



## What Is The Best Month For Solar Production?

Looking to harness the power of solar energy? Find out which month is best for solar production. Explore the factors that influence solar output and unlock the secrets to ...



## Solar Panels in Massachusetts: Cost and Savings

Solar panels in Massachusetts Massachusetts is one of the top 15 solar-producing states in the country. Investing in Massachusetts solar can help reduce your reliance ...



## [Massachusetts State Energy Profile](#)

The state had the third-highest residential electricity price in the nation in 2023. In 2023, solar energy accounted for 24% of Massachusetts's total in-state electricity net ...

## What Are Peak Sun Hours? How Much Do Your Solar ...

Why Peak Sun Hours Are Important for Solar Energy Understanding peak sun hours is essential for optimizing solar energy production. They help determine the most efficient times for energy generation, allowing you to maximize the ...



## Where are the most solar panels located in the US?

Solar Power Generation in Summer vs. Winter Solar panels generally produce about 40-60% less energy during the months of December and January than they do during the months of July ...



## What Are Peak Sun Hours?

What a peak sun hour is, how many peak sun hours your state gets, and how to calculate your peak sun hour number. Use peak sun hours to find how many solar panels you need.



## Solar power in Massachusetts

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## Solar Energy Through The Seasons

When most people think of solar energy, they think of sunny skies and warm temperatures. There is a common misconception that this is the only time that solar energy can ...



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