California solar energy canada

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This page contains solar energy maps, along with monthly solar production estimates, for every province and territory in Canada.

Solar energy maps show the amount of energy that a solar photovoltaic system can produce (in units of kWh/kW/yr), based on the intensity of light that reaches the Earth’s surface.

Solar maps can be used to answer two key questions:

Answering this question is easy – simply look at the value on the map or find your city below!

You can easily calculate the size of the system that you would need to offset your annual electricity usage, as well as your total system costs, by visiting our Solar Cost of Solar page.

We’ve gone ahead and calculated the average solar production potential based on the five most populated cities for every province and territory in Canada.

This capacity to turn light into electricity is also a major ranking factor in our Provincial Solar Rankings.

Here is the annual average equivalent of full sunlight hours broken down by province:

This is because these provinces have relatively sunny weather all year around.

This is primarily because of high annual cloud cover in Newfoundland and Labrador, and a combination of high latitude (shorter summer days) and cloudy weather in the Yukon.

The average solar power system in Saskatchewan will produce approximately 1330 kWh of energy per kW per year.

The average solar power system in Alberta will produce approximately 1276 kWh of energy per kW per year.

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