



ECO - ENERGY

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SOLAR ENERGY

EOS Eco-Energy



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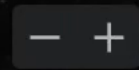
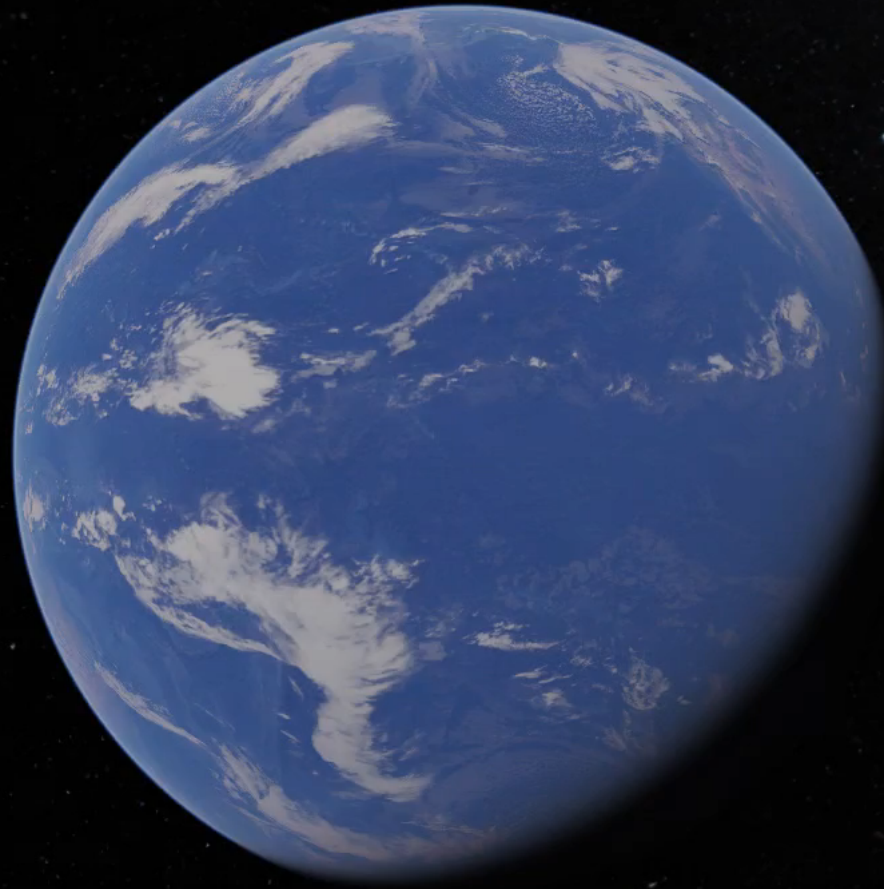
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What do you notice? What Questions do you have?



Make a prediction:

How much energy do you think these solar panels produce on a sunny day?




HOW SOLAR PANELS WORK



ENERGY USAGE

Driving an electric car from Sackville to Moncton  **7.5 kWh**

Powering a house for a day  **30 kWh**

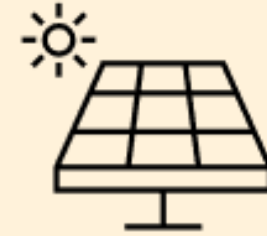
Using one LED lightbulb all day (12 hours)  **0.1 kWh**

One solar panel in a day  **1.5 kWh**

CALCULATE THE SOLAR ENERGY PRODUCED BY THIS BUILDING IN ONE DAY

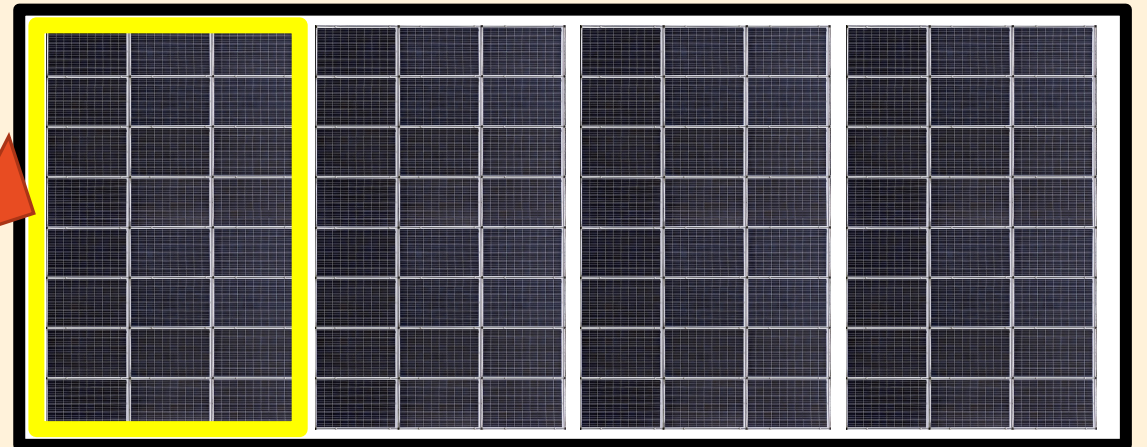


One solar panel in a day

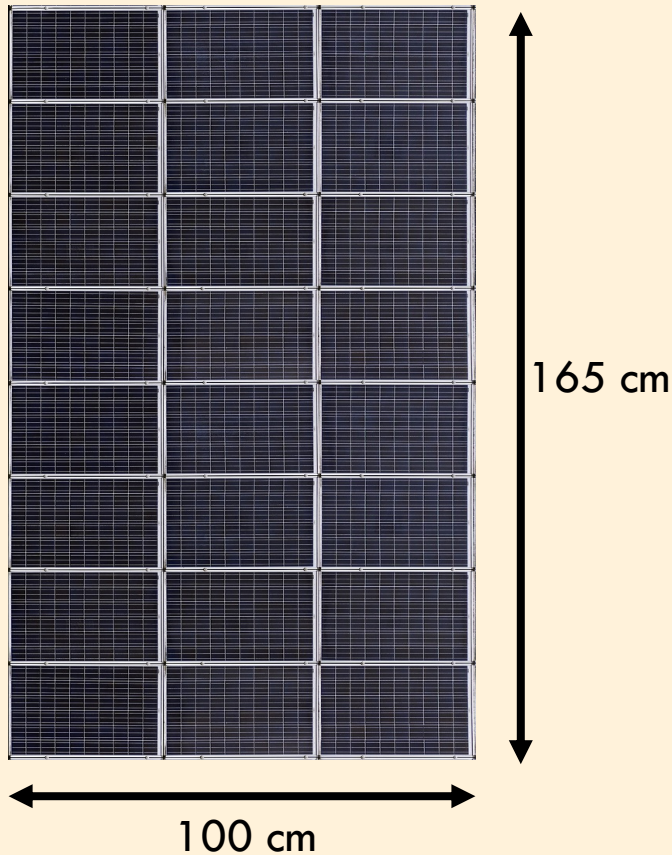


1.5 kWh


ONE SOLAR PANEL



CALCULATE HOW MANY SOLAR PANELS THIS ROOF
COULD HOLD AND HOW MUCH ENERGY IT WOULD
GENERATE IN A DAY?



Don't forget the solar panels can only go on
the side of the roof that faces the sun.

One solar panel in a day  **1.5 kWh**

HOW MANY PANELS WOULD IT TAKE TO POWER A HOME?

If an average Canadian home uses **30 kWh** everyday. How many solar panels would it take to power this home?

Powering a house for a day



30 kWh

One solar panel in a day



1.5 kWh

ANSWER 1

This building currently produces **6 kWh** on a sunny day.

What conditions do you think affect how much power these panels are able to generate?

ANSWER 2

This building could hold a maximum of **24** solar panels

(don't forget you can't have partial solar panels)

If the building had 24 solar panels, it would generate **36 kWh** everyday!

ANSWER 3

If the average Canadian home uses 30 kWh daily. In order to power this home **15 solar panels** would be required.