3 steps to a solar estimate

1 Choose your location

Tap the map where you live.
The estimate updates as you go.

2 Choose panel size

Pick 100W–500W panels.
The estimate updates as you go.

3 Add what you power

Click devices and adjust usage.
The estimate updates as you go.

Important:

Use the tool as an educational estimate. Actual solar design depends on equipment, site conditions, electrical requirements, shading, permits, and local rules.

What the final panel count means

The tool compares your estimated yearly energy use with the selected panel size and local sun-hours.
If the project becomes too large for a typical plug-in setup, follow the tool's safety recommendation.

Step 1 — Choose your location

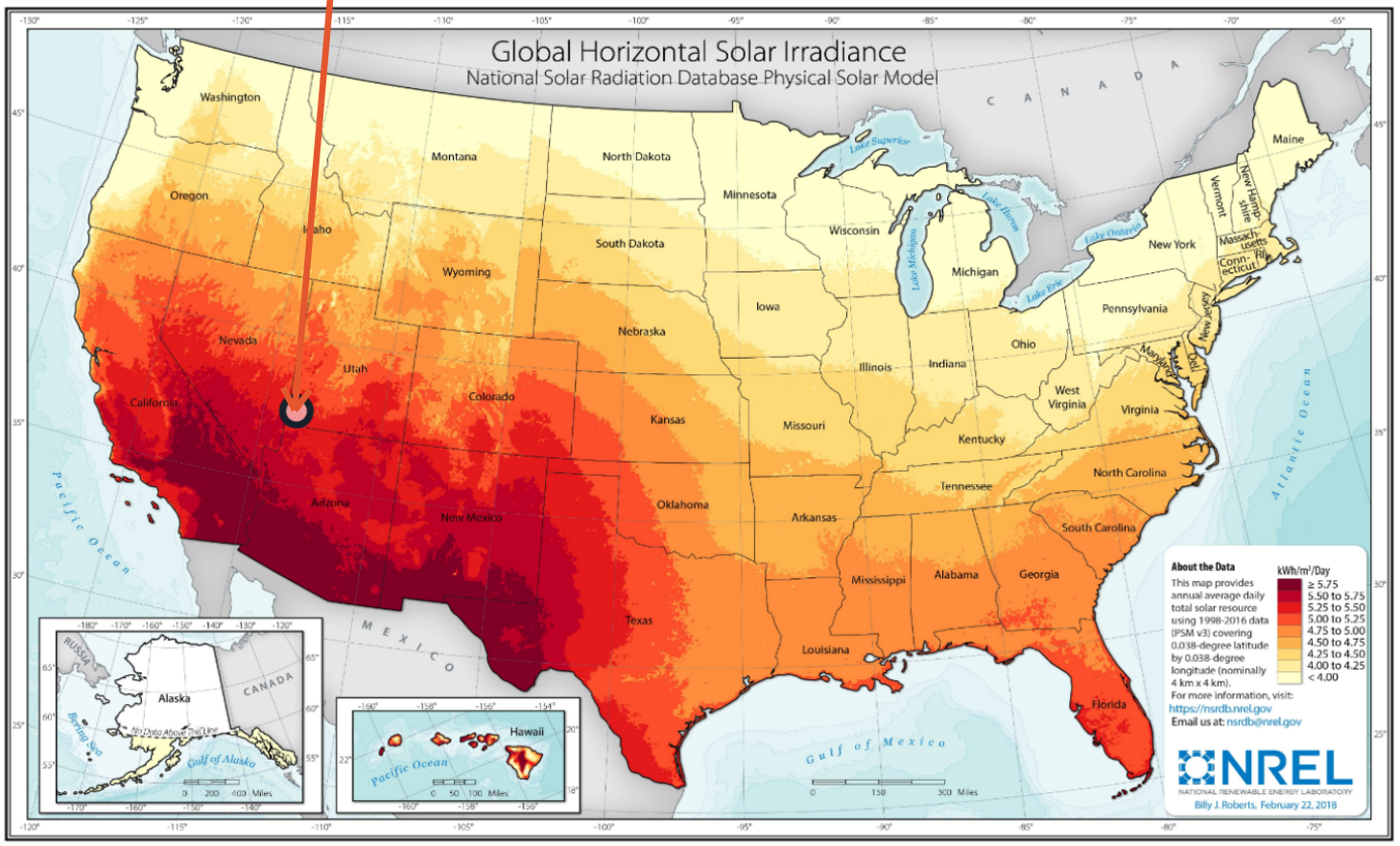
Tap the map first

1. Tap your area on the map

2. Check sun-hours

Plug-In Solar Sizing Tool

Choose a spot. Add what you want to power.



Where are you?

Tap your location on the map.

5.4 sun-hours/day

Solar resource based on the NREL annual GHI map.

Tip: Move the location if needed using “Adjust location” on the next screen.

Steps 2–3 — Build your project

Choose panels • Add loads • Read results

2. Pick panel size

3. Click what you want to power

Adjust usage below

Read panel count and cost here →

Plug-In Solar Sizing Tool

Choose a spot. Add what you want to power.

CLICK on the items below that you'd like to power with solar, and watch the number of solar panels change on the Far Right, grow to meet your energy needs.

Adjust location | Sound

Plug In Systems typically produce 120V household voltage. These Plug-In-Solar Systems vary in size, but often are 1200W or smaller

Solar panel size

○ 100W ◉ 250W ○ 300W ○ 400W ○ 500W

Lights Efficient lighting	**Electric car** Leaf, Prius, Tesla	**Devices** phones + computer	**Fridge** everyday cold
TV hours each day	**Wi-Fi**	**Coffee** Cups Per Day	**Dishwasher** three loads per week
Washer three loads/week	**Dryer** three loads/week	**Electric Water Heater** Leave Blank if using gas Water Heater	**Generic Appliance** add one value at a time

Customize devices

Electric car — miles each day

○ Tesla ◉ Leaf ○ Prius

70 miles

Your solar project

21

panels

That has grown beyond a small plug-in project.

✨ Great project momentum! 5,250 watts is above your 1,800-watt circuit limit, so let's step up to a non-plug-in setup for a safe, high-performing system.

System size	Power needed
5.3 kW	7,775 kWh/yr
Estimated cost	**Yearly savings**
$18,900	$1,244

5.4 sun-hours each day

- Leaf — 70 miles/day
- Wi-Fi
- **Total:** 21.3 kWh/day

Backroom Edition · NREL map · One clear estimate. Educational sizing only.

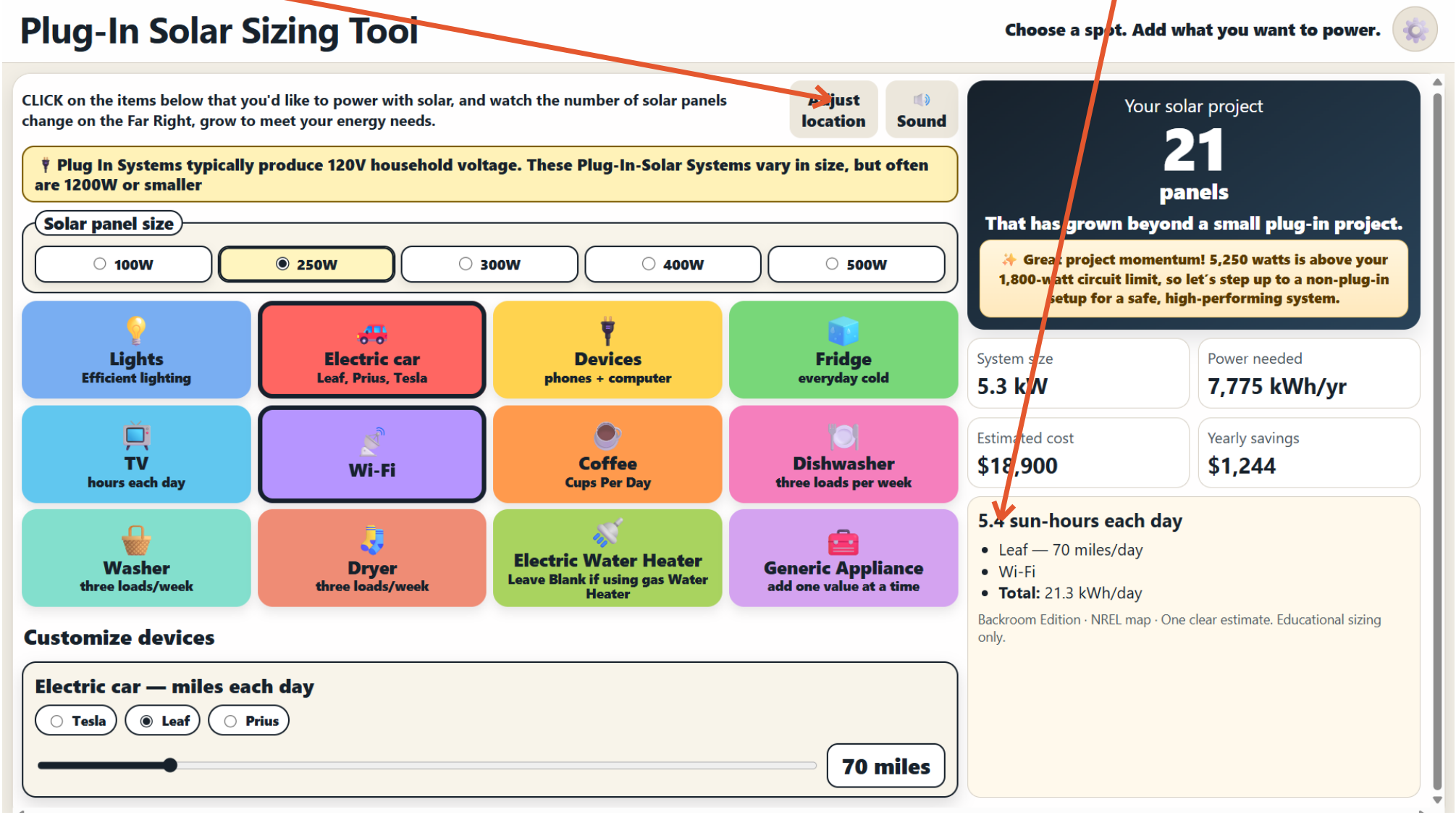
- Panel size: larger panels mean fewer panels for the same energy need.
- Devices: click an item to add it; click again to remove it.
- Custom settings: choose the model/type and move the slider to match your use.
- Results: watch system size, yearly energy, estimated cost, savings, and panel count.

Extra Controls

Helpful controls on the project screen

Adjust location

Check sun-hours each day



Adjust location to refine the solar resource. • Sun-hours show the daily solar resource used in the estimate.