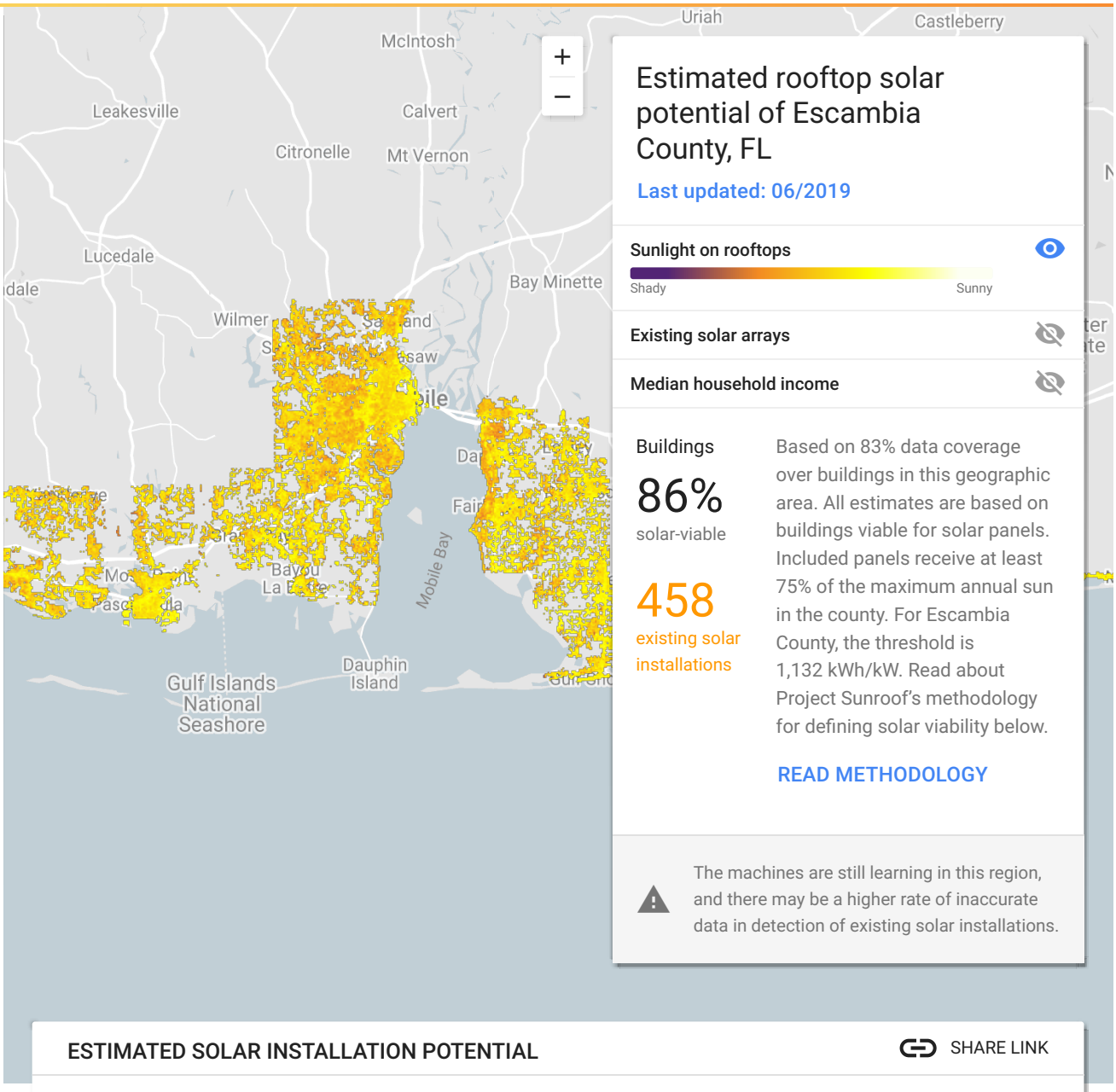
Google Project Sunroof

Savings estir



Estimated rooftop solar potential of Escambia County, FL

Last updated: 06/2019

Sunlight on rooftops

Shady — Sunny

Existing solar arrays

Median household income

Buildings

86%

solar-viable

458

existing solar installations

Based on 83% data coverage over buildings in this geographic area. All estimates are based on buildings viable for solar panels. Included panels receive at least 75% of the maximum annual sun in the county. For Escambia County, the threshold is 1,132 kWh/kW. Read about Project Sunroof's methodology for defining solar viability below.

READ METHODOLOGY

The machines are still learning in this region, and there may be a higher rate of inaccurate data in detection of existing solar installations.

ESTIMATED SOLAR INSTALLATION POTENTIAL

SHARE LINK

Overall

Total estimated size and solar electricity production of viable roofs for Escambia County, FL

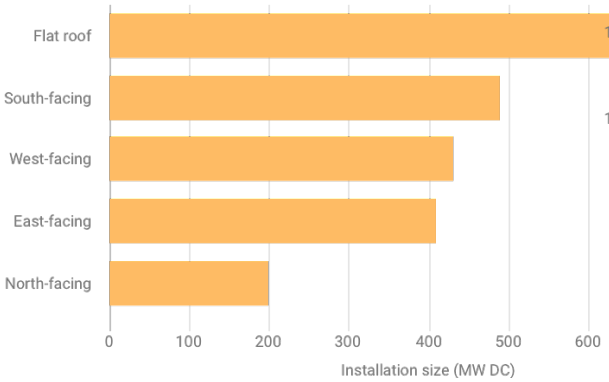
Per roof

Median estimated system size and solar electricity production per viable roof for Escambia County, FL

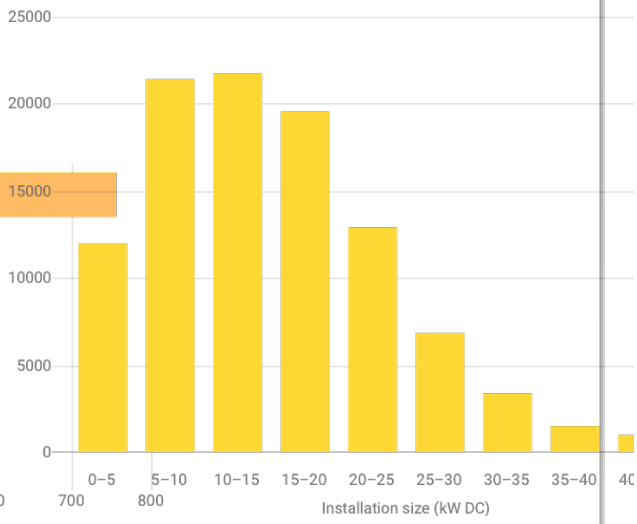
Roofs	Roofs		Roof space	Capacity	Electricity
86%	105K		1K sq ft	14.3 kW DC	18.6K kWh AC per yr

Roof space	Capacity	Electricity
161M sq ft	2.3K MW DC	3M MWh AC per yr

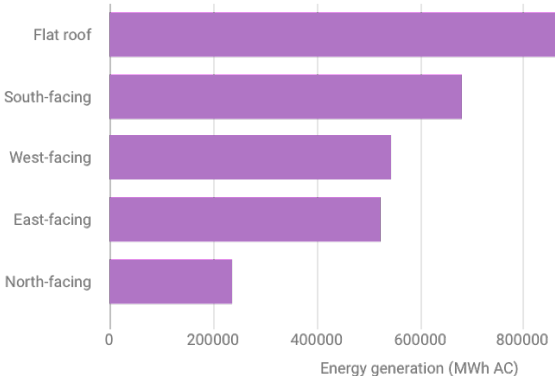
Total installation size (MW DC)



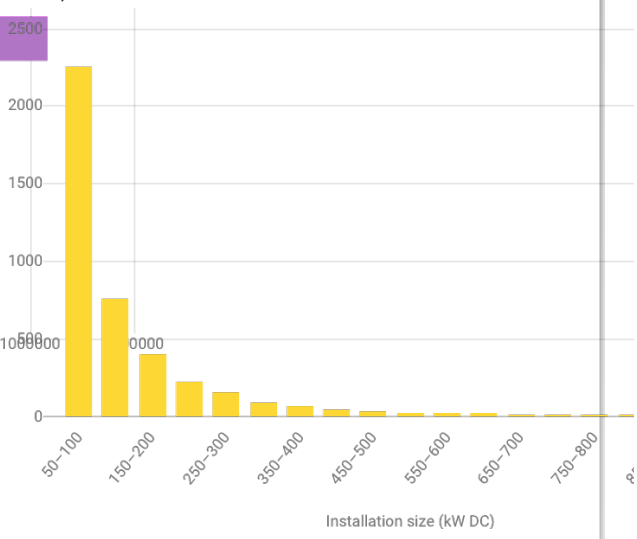
Rooftop solar capacity distribution (number of roofs, < 50kW)



Total yearly energy generation potential (MWh AC)



Rooftop solar capacity distribution (number of roofs, > 50kW)



POTENTIAL IMPACT

If all the viable solar installations were implemented, the amount of avoided CO_2 emissions from the electricity sector in Escambia County would be:

Carbon dioxide
2M
metric tons

=

Passenger cars
435K
taken off the road for 1 yr

=

Tree seedlings
33.3M
grown for 10 yrs

SOLAR INCENTIVES

	SECTOR	TYPE	EXTERNAL LINK
Federal PV Tax Credit	RESIDENTIAL	FEDERAL TAX CREDIT	READ MORE
Federal PV Tax Credit	COMMERCIAL	FEDERAL TAX CREDIT	READ MORE

ESTIMATE METHODOLOGY

This tool estimates the technical solar potential of all buildings in a region. Technical potential includes electricity generated by the rooftop area suitable for solar panels assuming economics and grid integration are not a constraint. There are many definitions of technical potential, and other definitions may affect results by 25% or more. Based on Project Sunroof's definition of technical potential, installations meet the following criteria:

Sunlight
Every included panel receives at least 75% of the maximum annual sun in the county. For Escambia County, the threshold is 1,132 kWh/kW.

Installation size
Every included roof has a total potential installation size of at least 2kW.

Space & obstacles
Only areas of the roof with enough space to install 4 adjacent solar panels are included. Obstacles like chimneys are taken into account.

READ MORE METHODOLOGY

ATTRIBUTION

Feel free to include data from Project Sunroof in other materials, reports, and communications with the following attribution:

> Source: Project Sunroof data explorer (June 2019).

Share your ideas with us!
We love to learn more about ways to improve data access and the value it has to our daily users. Email us example reports, stories, or ideas at projectsunroof-dataexplorer@google.com.

Sources: 2010 U.S. Census, National Renewable Energy Laboratory weather data, EPA GHG Equivalencies, Department of Energy SLED (State & Local Energy Data), Google Maps