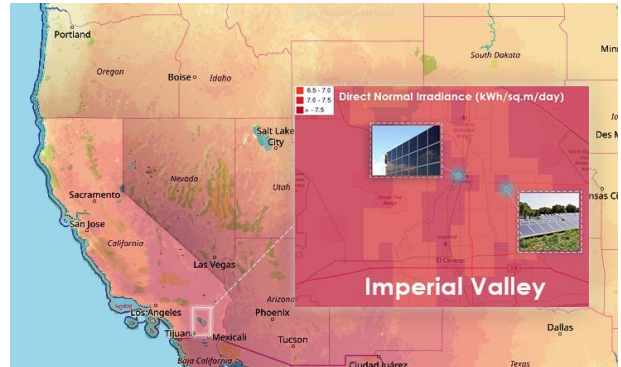


# SAN DIEGO STATE UNIVERSITY'S MISSION TO ENHANCE RENEWABLE ENERGY FOR IMPERIAL VALLEY

We are the Smart Grid lab at SDSU, which advocates renewable energy and smart grid. Our purpose is to raise awareness and serve the community the best of their interests. Our goal is to help members of the community to figure out their renewable energy potentials and have their voices heard for their energy needs.



[source: <https://maps.nrel.gov/nsrdb-viewer/>]

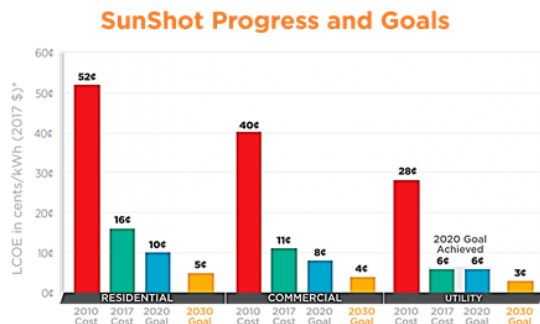
## Why renewable energy?

### Sustainability

The amount of available solar energy is greater than resources of coal, oil, natural gas, and mined uranium combined.

### Potential cost reduction

Governments and private companies keep investing in renewable energy to lower the price to make them as the main source of energy supply in the future.



\*Levelized cost of electricity (LCOE) progress and targets are calculated based on average U.S. climate and without the ITC or state/local incentives. The residential and commercial goals have been adjusted for inflation from 2010-17.

[source: <https://www.energy.gov/eere/solar/goals-solar-energy-technologies-office>]

### Environment friendly

Renewable energy from wind, water, and sunlight conserve water, and reduce carbon dioxide emissions. It also reserves non-renewable resources for our future generations.

## Why San Diego State University?

SDSU campus is advocating sustainability. Smart Grid lab wants to bring technology and transfer the state-of-art solution to Imperial Valley community. Our students are eager to contribute back to the community

## Why Imperial Valley?

Imperial Valley has the best solar potential on average. This area can receive 8 hours of sunshine a day. With its flat terrain, there are more available locations for solar panels.

Solar energy can increase the profit for farmers as a passive income when they grow the crops beneath the solar plan (agrivoltaic). Besides, in urban areas, solar panels act as roof shades to reduce the heat of the building.

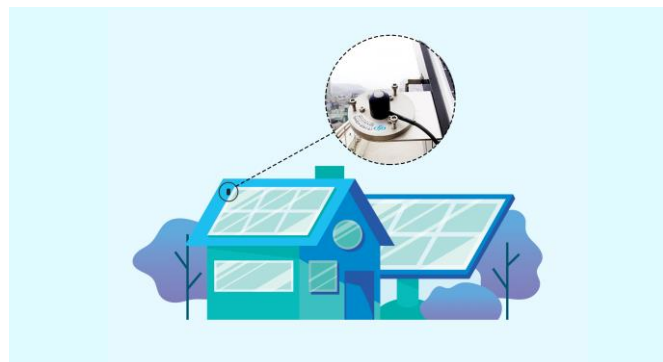
## How can you help?

Our research team want to estimate the availability of solar energy at your house compare to the other in your area. If we have enough samples, we can create a good picture of solar energy availability in an entire valley.

You can help us by hosting our sensor on your rooftop to measure solar radiation at no cost. This will not only help you; it also helps our researchers at SDSU to provide a unique service to the community.

## Another way to help us: Survey

Please help us by filling out a short survey. This will raise the voice of the community and make a sound for policy makers, researchers, and brighten the future of the community. It only takes 5 minutes, but the impact on the future of solar energy in Imperial Valley is invaluable.



## Contact Us

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