

# High-resolution photo of photovoltaic panels

Are annotated solar panels available in native resolution and HD satellite imagery?

To the best knowledge of the authors, there are no publicly available datasets including annotated solar panels in native resolution and HD satellite imagery. The process for creating the paired native resolution and HD image tiles and associated labels. Both sets of components contain three image tiles and 2,542 annotated solar panels.

How many solar panel stock photos are there?

There are almost 140,000 solar panel stock photos at iStock's image library. Browse our extensive collection for stock imagery of solar panel installations on buildings and close-up shots of solar panels showing the individual PV cells.

How many annotated solar panels are there?

The dataset of 2,542 annotated solar panels may be used independently to develop detection models uniquely applicable to satellite imagery or in conjunction with existing solar panel aerial imagery datasets to support generalized detection models.

Are defective solar cells affecting the power efficiency of solar modules?

The dataset contains 2,624 samples of 300x300 pixels 8-bit grayscale images of functional and defective solar cells with varying degree of degradations extracted from 44 different solar modules. The defects in the annotated images are either of intrinsic or extrinsic type and are known to reduce the power efficiency of solar modules.

How much power does a photovoltaic system produce in 2021?

In 2021, photovoltaic (PV) power generation amounted to 821 TWh worldwide and 14.3 TWh in France 1. With an installed capacity of about 633 GWp worldwide 2 and 13.66 GWp in France, PV energy represents a growing share of the energy supply.

Can satellite imagery improve solar panel detection accuracy?

We address these limitations by providing a solar panel dataset derived from 31 cm resolution satellite imagery to support rapid and accurate detection at regional and international scales. We also include complementary satellite imagery at 15.5 cm resolution with the aim of further improving solar panel detection accuracy.

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This dataset contains the geospatial coordinates and border vertices for over 19,000 solar panels across 601 high-resolution images from four cities in California. ... of every ...

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Besides 3771 PV samples directly from the PV08 data set [53], 75 PV plant locations are suggested by the GPPD[54] and manually interpreted from high-resolution Google Earth images. 1819 PV plant ...

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