

# Carbon emission coefficient of solar power generation



## Overview

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Current research indicates that solar panels produce approximately 40-50g of CO2 equivalent per kilowatt-hour throughout their lifecycle - a fraction of fossil fuel alternatives, yet still significant enough to warrant optimization efforts.

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[User Guide for Photovoltaic \(PV\) Module Benefits Calculator May](#)

The GEC PV calculator compares the carbon emissions of an EPEAT registered PV module, meeting either the Low Carbon or Ultra-Low Carbon Criteria, to the average solar module on the global



### EA Answers HQ

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### Emissions & Generation Resource Integrated Database

The Emissions & Generation Resource Integrated Database (eGRID) is a comprehensive source of data from EPA's Clean Air Power Sector

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