

Do solar photovoltaics meet US decarbonization goals?

Goal and system description. Given the high deployment targets for solar photovoltaics (PV) to meet U.S. decarbonization goals, and the limited carbon budget remaining to limit global temperature rise, accurate accounting of PV system life cycle energy use and greenhouse gas emissions is needed.

What is the IEA photovoltaic power systems programme?

The IEA Photovoltaic Power Systems Programme (IEA PVPS) is one of the TCP's within the IEA and was established in 1993. The mission of the programme is to "enhance the international collaborative efforts which facilitate the role of photovoltaic solar energy as a cornerstone in the transition to sustainable energy systems."

What software is used to model a PV inverter inventory?

Inventories were modeled using openLCA software (GreenDelta 2023) and the ecoinvent 3.9 life cycle inventory database (FitzGerald and Sonderegger 2022). Additionally, primary data were collected from a commercially available 2.7 MWac inverter to provide an updated inventory for utility-scale PV inverters.

When will photovoltaic power reach a terawatt era?

It is expected that the global photovoltaic (PV) installed capacity will reach the Terawatt era by 2022-2023 (Haegel et al., 2019).

What guidance is given on PV-specific parameters used in LCA?

Guidance is given on PV-specific parameters used as inputs in LCA and on choices and assumptions in life cycle inventory (LCI) analysis and on implementation of modelling approaches.



Solar photovoltaic bracket technical indicators

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