



## Regional Per Capita Solar Electric Footprint for the United States (Paperback)

By National Renewable Energy Laboratory (NREL)

Bibliogov, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.In this report, we quantify the state-by-state per-capita solar electric footprint for the United States. We use state-level data on population, electricity consumption, economic activity and solar insolation, along with solar photovoltaic (PV) array packing density data to develop a range of estimates of the solar electric footprint. We find that the solar electric footprint, defined as the land area required to supply all end-use electricity from solar photovoltaics, is about 181 m<sup>2</sup> per person in the United States. Two key factors that influence the magnitude of the state-level solar electric footprint include how industrial energy is allocated (based on location of use vs. where goods are consumed) and the assumed distribution of PV configurations (flat rooftop vs. fixed tilt vs. tracking). The solar electric footprint is about 0.6 of the total land area of the United States with state-level estimates ranging from less than 0.1 for Wyoming to about 9 for New Jersey. We also compare the solar electric footprint to a number of other land uses. For example, we find that the solar electric footprint is...



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