

The paper presents research that investigated the Life Cycle Assessment of multi-crystalline photovoltaic (PV) panels, by considering environmental impacts of the entire ...

the various kinds of solar cell modules produced in China, the silicon cells constitute more than 90%, of which mono silicon and multi-crystalline silicon (mc-Si) PV modules are the major-

Solar energy is the most abundant and the most widely distributed renewable energy in the world. With advances in technology and reduction in production cost (Li et al., ...

This study reveals the status and effects of PV-PAPs in China, and provides practical evidence for further large-scale practice of solar PV in China, which could also ...

This study aims to identify the environmental effects associated with photovoltaic (PV) cell made up of multicrystalline silicon (multi-Si) in China by life cycle assessment. ...

LCA is conducted on the multi-crystalline silicon photovoltaic systems in China. Multi-Si production is the most contributor to the energy demand and environmental impacts. ...

Solar power is a crucial force in renewable energy. The production of solar photovoltaic (PV) has nonnegligible effects on the environment, and the economic properties of various PV ...

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China is the world's largest manufacturer of multi-crystalline silicon photovoltaic (mc-Si PV) modules, which is a key enabling technology in the global transition to renewable ...

RenewSys is the first vertically integrated manufacturer of solar PV modules and its key components - Encapsulants, Backsheets, and Solar PV Cells. ... RenewSys Multi-Crystalline ...

This review addresses the growing need for the efficient recycling of crystalline silicon photovoltaic modules (PVMs), in the context of global solar energy adoption and the ...

The data were collected with recommendations provided by the ISO norms and acquired from typical PV companies in China. The results show that the most critical phase of ...

Semantic Scholar extracted view of "Life cycle assessment of multicrystalline silicon photovoltaic cell production in China" by Jinglan Hong et al.

We performed a life-cycle environmental assessment of China's multi-crystalline silicon photovoltaic (PV) modules associated with international trade. The study distinguished ...

Pollutant payback time and environmental impact of Chinese multi-crystalline photovoltaic production based on life cycle assessment. Minghui Xie Ruan Jiuli +6 authors Hongxiang Fu

LCA is conducted on the multi-crystalline silicon photovoltaic systems in China. Multi-Si production is the most contributor to the energy demand and environmental impacts pared to other ...

Waste from used solar panels will be a worldwide problem in the near future mainly due to the strong uptake in solar energy and the necessity of disposing solar panel systems at the end-of ...

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