

Crystalline silicon photovoltaic module project





Overview

CRYSTALCLEAR was a research and development project dedicated primarily to cost reduction of solar photovoltaic (PV) modules. At the same time the project aimed at increasing the efficiency (electricity yield), improving the environmental quality and improving the applicability of such modules.



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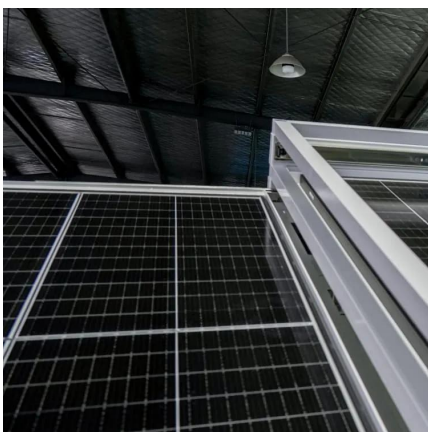


Crystalline Silicon PV: Low-cost, highly efficient and reliable modules

Crystal-Clear intends to develop innovative manufacturing technology for crystalline silicon photovoltaic (chi PV) modules. This is required to reach the EU 2010 target ...

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[Recycling Si in waste crystalline silicon photovoltaic panels after](#)

The photovoltaic (PV) market started in 2000, and the first batch of crystalline silicon (c-Si) PV panels with a lifespan of 20-30 years are about to be retired. Recycling Si in ...

[Status and perspectives of crystalline silicon photovoltaics in](#)

Fig. 1 , From raw silicon to solar modules. a , The main steps in making photovoltaic modules: purified polysilicon (poly- Si) preparation,

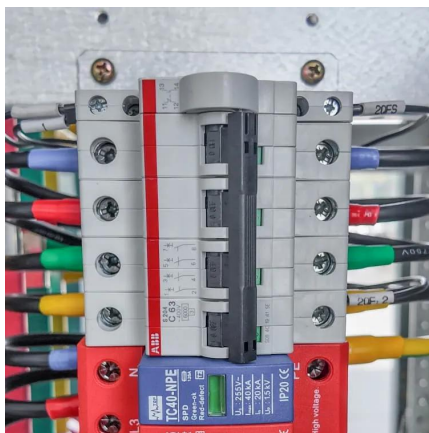


crystalline ingot casting or pulling, ...



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Crystalline-Silicon Photovoltaic R& D Project at NREL and SNL

Crystalline-silicon PV has the capability of meeting major Department of Energy goals for PV technology. This paper has summarized the structure and progress in the SNL/NREL c-Si PV ...



Utility solar photovoltaic capacity is dominated by crystalline silicon

Crystalline silicon is typically the technology of choice for solar PV project developers because of its higher cell efficiencies, space-efficient designs, and long module ...





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