Case study on the utilization of silicon crystalline photovoltaic panels

Using system dynamics modeling, we conduct a comprehensive environmental cost assessment of the silicon flows used in PVs based on a comparative analysis between the United ...

Abstract Crystalline silicon (C-Si) photovoltaic (PV) modules are currently reaching the End-of-life (EOL) stage, and the environmental impact of recycling PV is of great concern. The life ...

Constructive suggestions for the green and sustainable development of crystalline-silicon solar cells are put forward by comparing different treatment-recycling processes.

In this Review, we explain why and how this trend is likely to continue, based on a detailed analysis of the evolution of the material technology and present trends in research and development.

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 impending surge...

This study reviews and evaluates the recycling technologies for crystalline silicon photovoltaic modules (c-Si PV modules) proposed in recent years.

This review aims to provide a comprehensive understanding of the current state of silicon PV panel recycling, identify key areas for future research, and propose strategies to overcome ...

A universal high-value-recovery recycling technology for crystalline silicon (c-Si) photovoltaic (PV) modules developed by the French company ROSI is presented in this study. The ...

This publication is a Technical report by the Joint Research Centre, the European Commission"s in-house science service. It aims to provide evidence-based scientific support to the European ...

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