

WCPEC-7 at Waikoloa, HI

Workshop Topic:

Towards a R&D Roadmap for Crystalline Silicon Module Recycling

Thursday June 14, 8:30-10 am

Room: Kona 1

Chair: Garvin Heath, NREL

Under the International Energy Agency (IEA) Photovoltaic Power Systems (PVPS) program, Task 12 aims to foster international collaboration on the area of sustainability of PV and to compile and disseminate reliable information on sustainability such as environment, health and safety (EH&S), associated with the life-cycle photovoltaic technology including end-of-life management. This session will focus on recycling of crystalline silicon PV. Building from several recently published Task 12 reports, the focus of this workshop session is to interact with audience members toward the development of a roadmap for future research on PV module recycling technologies. A comprehensive review of prior research as well as preliminary results from techno-economic analysis of one or more existing PV crystalline recycling processes will be presented as a way to solicit audience feedback and generate discussion, which is invited during and following the presentations.

Program:

8:30 – 8:40: Roadmap development process (Garvin Heath)

8:40 – 8:50: Synthesis of trends in c-Si PV recycling technologies (Keiichi Komoto, Task 12)

8:50 – 9:00: Synthesis of literature describing novel PV recycling technologies (Garvin Heath)

9:00 – 9:15: A PV module recycling solution (Taisuke Doi, NPC Incorporated)

9:15 – 9:45: Preliminary cost modeling of 2 novel c-Si module recycling processes (Garvin Heath)

9:45 – 10:00: Discussion