Summary Slide

It is Green Clean Solar's mission to create a facility in Hawaii that collects discarded solar panels from both homeowners and industrial solar farm operators to be reused for the purpose of farming hydrogen through electrolysis to be used as a heat source that powers proposed metal smelting and polycrystalline silicon ingot growing operations onsite at solar panel recycling facilities.

Most discarded solar panels will arrive at a solar panel recycling facility in a mixture of working panels and nonworking panels. To avoid additional transportation costs of discarded panels, panels should be sorted onsite based on which panels are suitable for future use and which panels are not. Panels that are not usable should go through the recycling process however, panels that can be reused should be used onsite to offset the energy usage of recycling operations.

By using discarded but operational solar panels to power small scale electrolysis generators, accumulated hydrogen can be used as a heat source for thermal operations directly related to the reclaiming and repurposing of valuable materials in the recycling process. Accumulated oxygen can be used to increase the intensity of the burning hydrogen.

The key point of this initiative is to offset the energy consumption associated with the process of recycling and manufacturing solar panels by using renewable energies such as hydrogen generated by reused solar panels.

This is a great way to create a circular solar panel industry by retooling functional discarded solar panels to power the creation of new solar panels built from reclaimed materials of discarded panels.