

Machinery Business

» Photovoltaic module manufacturing equipment

We are the only Japanese company that can provide all the equipment necessary for producing photovoltaic (PV) modules as a total assembly line.

We entered into the PV industry in 1992 by developing module laminator utilizing the technology of vacuum packing machines, which is the business at the time of establishment.

Since then for more than 20 years, we have developed and improved various technologies necessary for the production of PV modules (panel), such as transferring, bonding, and testing/measuring, and have provided high-quality manufacturing equipment.

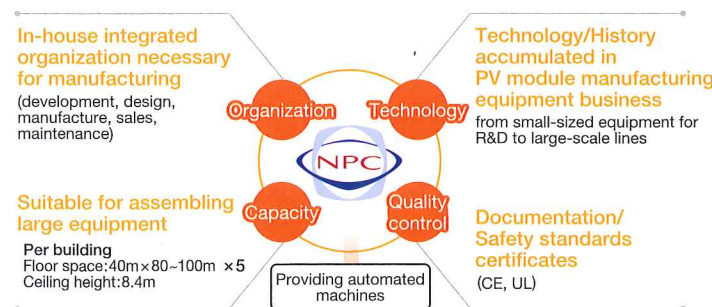
As we develop, design, manufacture and sell manufacturing equipment corresponding to all kinds of PV modules in house, it is our competitive advantage to be able to provide one-stop service from maintenance service to upgrading and relocating manufacturing equipment.

Using this advantage, we have proactively expanded our business overseas and have provided equipment to customers around the world. As a result, we have the world's No.1 record of delivering PV module manufacturing equipment.

Currently, we provide high-quality manufacturing equipment for customers who require advanced technology.



» Automated machines for various industries



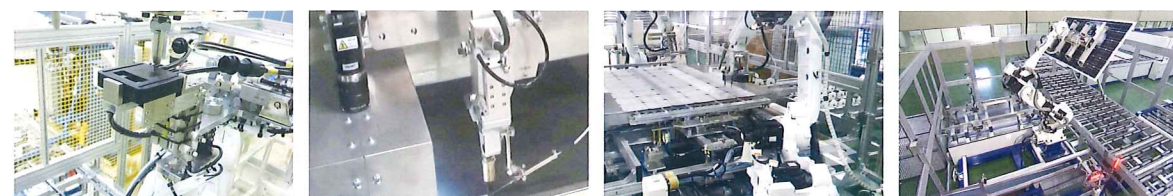
Industries with delivery record

Display, Logistics, Automobile, Food, Pharmaceuticals, Film, Electronics/Precision Technology

We provide automated/labor-saving machines for various industries by utilizing our automation technology accumulated by vacuum packing machines and PV module manufacturing equipment, in-house integrated organization necessary for manufacturing, and production capacity of the Matsuyama Factory suitable for assembling a total line.

So far, we have shipped PV module manufacturing equipment not only to Japan, but to more than 50 countries.

With extensive experience in complying with major standards and certificates, we totally support our customers by not just providing automation equipment but also by setting up equipment at their overseas factories.



Environmental Business

» PV panel reuse/recycling

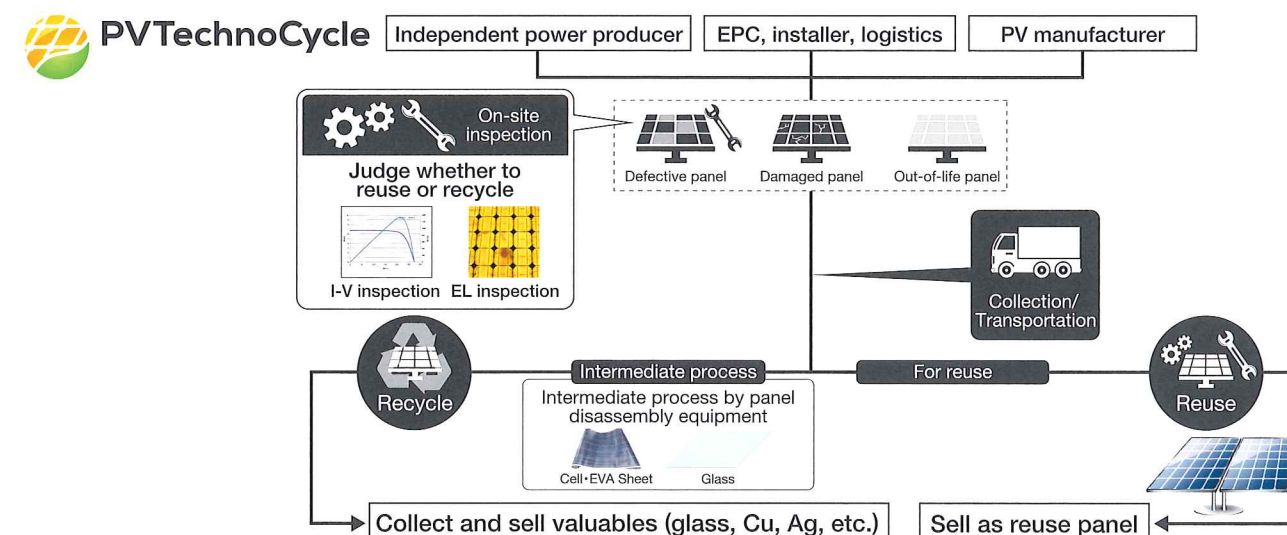
We provide reuse and recycling service for discarded PV panels through PV Techno Cycle Inc., a joint venture with Hamada Co., Ltd. that has over 40 years of experience in processing industrial waste. Discarded panels are currently crushed and landfilled as industrial waste after removing aluminum frames manually. Such method requires high processing costs and brings concern about its impact on the environment.

We established a recycling process of PV panels using panel disassembly equipment with the world's only "heated blade" separation technology.

Through PV Techno Cycle, we will lead the industry by creating the framework of the reuse and recycling market for PV panels.



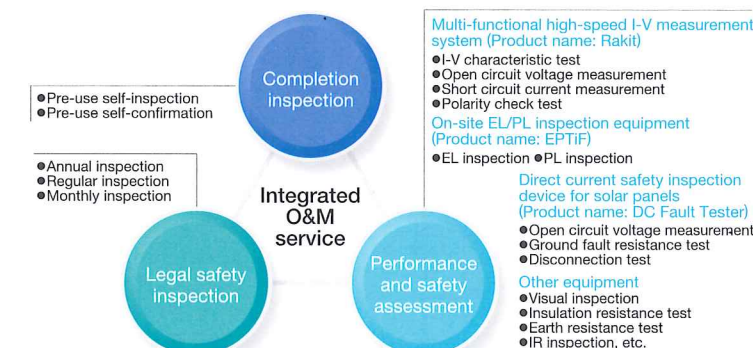
Panel disassembly equipment



» PV panel inspection service

Since we launched this service in 2013, up until now, we have conducted a total of 710 MW inspection at about 140 PV power plants throughout Japan. (as of Dec. 31, 2017) Our panel inspection method utilizes technology accumulated by PV module manufacturing equipment. We have adopted unique inspection technology, which inspects the output and quality of PV panels, to visualize and identify even the invisible defects and the risk of decrease in the amount of electricity generation in the future.

We provide integrated O&M service for PV power plants by developing this unique inspection services not found in other companies.



CSR Report

For Customers & Environment

Acceptance of trainees from JICA Shikoku Youth Training



In August 2017, we held a Matsuyama Factory tour for trainees from seven African countries who participated in the "Africa/Renewable Energy" course organized by Japan International Cooperation Organization (JICA) Shikoku. In this course, participants will learn the actions for renewable energy in Japan and acquire useful knowledge for promoting renewable energy and electric power accessibility in their home countries. Nine young trainees, who will be leading the country's future, from energy related ministries or public corporations department observed our PV power systems installed on the rooftop and PV module manufacturing equipment such as Tabbing & Stringing Machine. We also provided general knowledge on PV power generation, including the flow from manufacturing to recycling PV panels. Through this experience, we hope PV power generation will develop widely in African countries as well.