



SOLARIMPULSE FOUNDATION

December 11th, 2023

This letter is to recommend Photovoltaics 4.0

Dear Sir or Madam,

As Initiator and Chairman of the Solar Impulse Foundation, I am writing to bring to your attention the initiative that we have undertaken. After successfully achieving the first solar flight around the world with Solar Impulse, the Foundation launched the second phase of its action: selecting 1,000 Solutions that can protect the environment in a profitable way. We reached that goal in April 2021 and, while we keep labeling new Solutions, we are now pushing for their implementation, presenting them to high-level decision makers and business leaders around the world to encourage them to adopt more ambitious climate goals.

One of the solutions that we have evaluated and endorsed with the “Solar Impulse Efficient Solutions” Label is Photovoltaics 4.0, a Solar Plants Intelligent Digital Twin that recovers production, reduce costs, and lower labor risk and CO2 emissions.

The project led by Clever Solar Devices aims to propose a diagnosis platform to improve business and operational efficiency through digitization for photovoltaic plants, offer remote and in real-time diagnosis allowing an overview of the health of the installation, provide up to 12% recovery of clean energy production, cut maintenance costs up to 70%, and mitigate labor risks and CO2 emissions simultaneously. This system does not yet exist on the commercial market and represents a clear innovation given the potential benefits for the environment.

Experts working with us have determined, using data available, that the project “Photovoltaics 4.0” answered all our criteria regarding technological feasibility, positive impact on the environment and economic profitability for the client.

With warm regards,

Dr. Bertrand Piccard

Initiator and Chairman
Solar Impulse Foundation