



**Viet Nam**

# Promotion of Quality Assurance Services for Sustainable Energy

<b>Objective</b>	The overall objective of this project is to improve the quality infrastructure services required to generate and use renewable energy with a focus on photovoltaic systems.	
<b>Approach</b>	Viet Nam is experiencing a substantial increase in electricity demand, and at the same time finds itself in the process of an energy transition. Renewable energies have grown enormously due to generous electricity feed-in tariffs and are expected to expand further by 2030. The ambitious expansion plans are indispensable for achieving the national emission reduction targets, but they are accompanied by financial, regulatory and technological challenges. While the energy sector has to date focused on the quantitative expansion of renewable energy, quality, safety and sustainability issues have received limited attention. The development of quality infrastructure (QI) services and mechanisms has not kept pace with the rapid growth of the renewable energy sector in Viet Nam. This leads to risks – ecological, social and economic – in ensuring the quality and sustainability of renewable energy systems, especially in the photovoltaic (PV) industry. The project responds to this situation by pursuing a technical approach with a focus on developing relevant standards (Output 1) and improving testing and measurement services (Output 2) in the renewable energy sector. The use of these standards and newly offered services supports the development and availability of quality assurance mechanisms in compliance with good international practices (Output 3). Information exchange and coordination among renewable energy stakeholders and between the QI and PV sectors is encouraged (Output 4). The project follows a holistic, multi-level perspective by developing and supporting institutional and human capacities at the individual, organizational, network and societal levels.	
<b>Impact</b>	The modular approach is based on the impact hypothesis that developing relevant QI services and promoting their demand and/or use will increase the quality, safety and sustainability of photovoltaic systems and thus contribute significantly to the energy transition in Viet Nam. Facilitated by the project, information exchange and coordination between the renewable energy sector and the QI system will be intensified, available QI services will gain more visibility, and the demand for QI services will be better articulated. This mutual and continuous exchange between the supply and demand sides of QI service provision in the PV sector will increase the quality, sustainability and safety of PV facilities on the one hand and the sophistication of the country's QI system on the other. The project strengthens the actors responsible for quality infrastructure in Viet Nam, in particular the Directorate for Standards, Metrology and Quality (STAMEQ), in their efforts to offer quality assurance services for the sustainable supply and consumption of energy.	
<b>Cooperation</b>	This project forms an integral part of the German Development Cooperation Programme on Energy within the core area of Climate and Energy, Just Transition. Together with the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) and the Kreditanstalt für Wiederaufbau (KfW), PTB is supporting Viet Nam in its endeavor to transform the energy sector towards an increase in renewable energy generation and usage.	
<b>Financing</b>	The project is funded by the Federal Ministry for Economic Cooperation and Development (BMZ).	
<b>Term</b>	2022–2025	
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