

## INTERNATIONAL COOPERATION



Joint research project of the Physikalisch-Technische Bundesanstalt and the Deutsches Institut für Entwicklungspolitik

# The transition towards a green economy and its implications for quality infrastructure

The world is moving towards a green(er) economy, where environmentally unsustainable technologies are gradually being replaced by "greener" technologies. These are related to renewable energies, energy storage, electric vehicles, carbon capture and storage, recuperative heat exchangers, and many other technologies. The German Development Institute/ Deutsches Institut für Entwicklungspolitik, DIE, is carrying out a research project on behalf of and with the Physikalisch-Technische Bundesanstalt, PTB, to assess the contribution of quality infrastructure to this transition.



#### **RESEARCH SCOPE**

TARGET GROUP

The objective of this project is to assess which significant transformations and innovations can be expected in the greening of developing and emerging countries' economies and what this implies for the interrelated system of quality infrastructure that comprises metrology, standardization, accreditation and conformity assessment. To explore "green" technology market evolution and its underlying determinants, the research aims at first identifying overall green technology trends in developing and emerging countries. Secondly, the project aims to deepen our understanding of green technology trends in specific areas that hold the promise of major environmental improvements, have a potentially big impact on socio-economic development, and depend on the appropriate quality infrastructure.

#### METHODOLOGY AND COUNTRIES COVERED

The project combines:

- a general literature review of technology roadmaps and trend analyses;
- a Delphi survey with expert interviews to capture tech-nology trends and adoption challenges, covering Latin America, Africa, Asia and Eastern Europe,
- an additional expert survey with quality infrastructure experts to gain insights into future implementation challenges;
- and country studies in India, Kenya, Mexico and Morocco.

#### DURATION

2018-2020



### PTB'S INTERNATIONAL COOPERATION

The Physikalisch-Technische Bundesanstalt is the National Metrology Institute of Germany and the highest authority for accurate and precise measurements in Germany. For more than 50 years, PTB has shared its core competence in international development cooperation, mainly funded by the Ministry for Economic Cooperation and Development (BMZ). In this context, PTB supports developing and emerging economies in the comprehensive field of quality infrastructure. The ultimate objective of PTB's International Cooperation is to contribute to sustainable economic, social and ecological development.

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#### THE GERMAN DEVELOPMENT INSTITUTE

The German Development Institute/Deutsches Institut für Entwicklungspolitik (DIE) is one of the leading think tanks for development policy worldwide. DIE draws together the knowledge of development research available worldwide, dedicating its work to key issues facing the future of international cooperation. DIE's research is theory based, empirically backed, and application oriented. The policy advice and consulting services DIE provides are based on the framework conditions of development policy, including issues concerned with world economic policy, foreign policy, and security policy.

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