

Advance Renewable Energy and Climate Resilient Development in Indonesia

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Context

- **Since signing of the Paris Agreement, 197 countries has submitted their NDC targets on climate change;**
- **Many developing countries, however, have encountered technical and finance gaps in lowering carbon emissions while sustaining economic growth.**

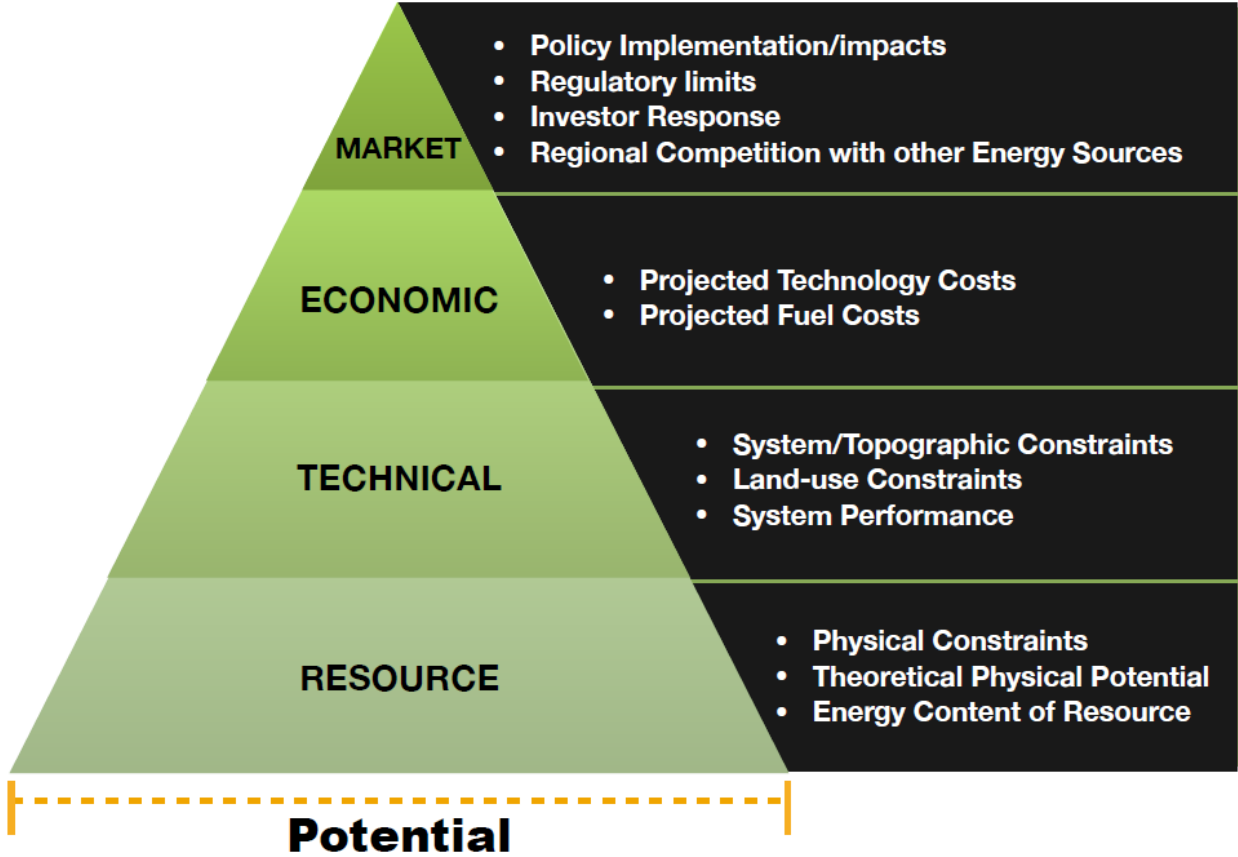
Our Objectives and Key Approach

- **Our objective is to:** Assist Southeast Asian nations to achieve low-carbon & climate-resilient development and fulfill their NDC targets;
- **Unique characteristics of our approaches include:**
 - **Empower officials and researchers from local countries** to carry out their own renewable energy development planning through capacity building and expertise transfer
 - **Bridge finance for renewable energy projects** in local countries in order to realize their renewable energy development plans

Methodology and Approach

REI toolkit

Renewable Energy Implementation (REI) Toolkit

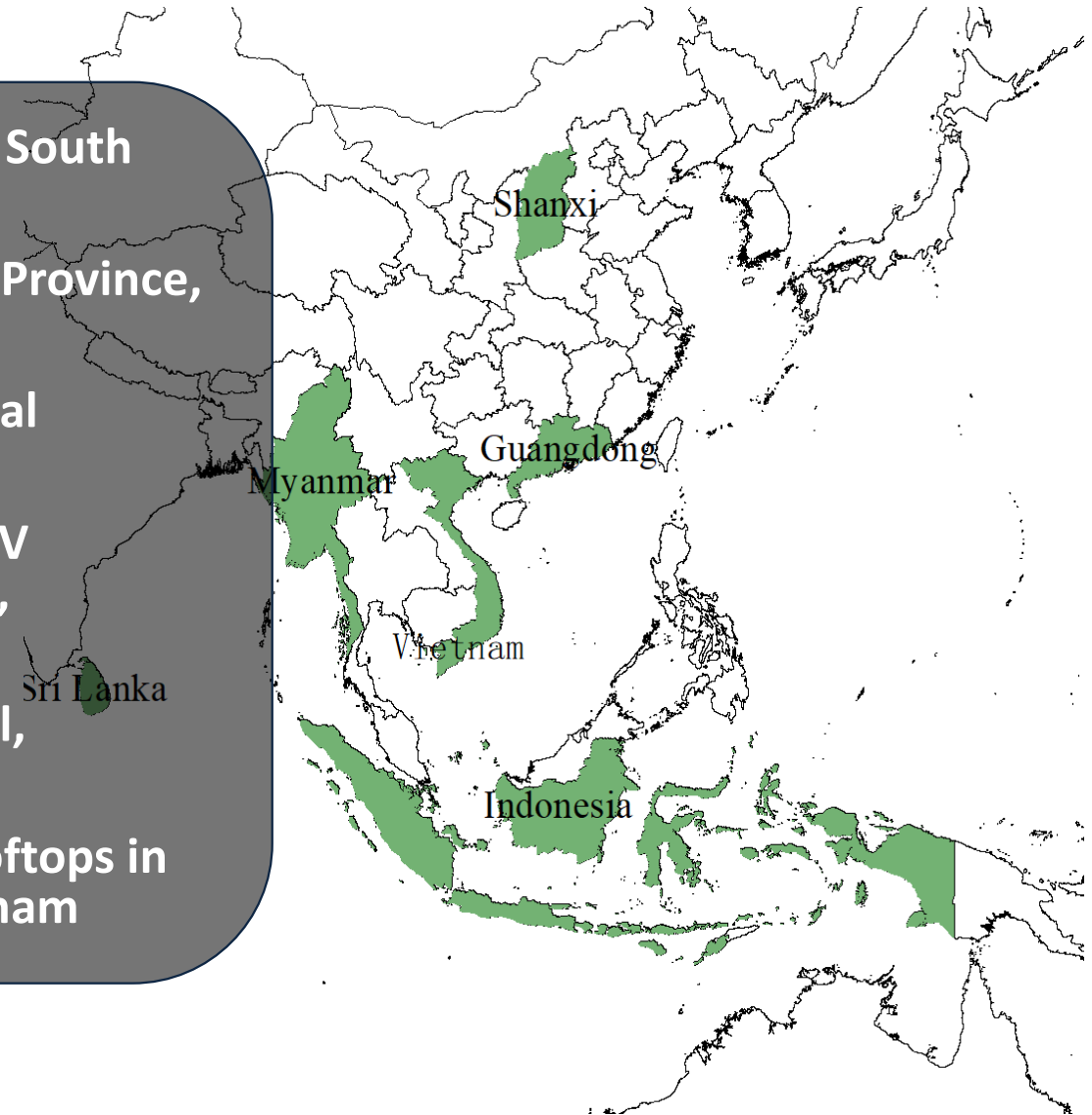


Source: NREL

Current Progress & Results

REI toolkit Application in 5 countries (6 Regions)

- Guangdong Province, South China
- Changzhi City, Shanxi Province, China
- Gampola Town, Central Province, Sri Lanka
- Mandalay city Solar PV potential Assessment, Myanmar
- Solar energy potential, Indonesia
- Solar potential of Rooftops in three provinces, Vietnam



Current Progress & Next Steps In Indonesia

- **IESR has completed the first step analysis of the national solar energy potential in Indonesia.**
- **Planned next steps (together with IESR):**
 1. Selection of typical areas, such urban area, rural area, isolated islands
 2. Potential of different building types with AI identification technology. (Public buildings, industrial, residential, etc.)
 3. Financial analysis of rooftop solar projects or utility-size solar farm projects in specific areas with different financial support and models.
 4. Bridging multilateral financial support to solar pilot projects in Indonesia

North-South and South–South Cooperation Partners

- **Global Environmental Institute (China)**
- **The Center for Climate Strategies (US)**
- **Guangzhou Institute of Energy Conversion (China)**
- **Research Center for Eco-Environmental Sciences in Shanxi (China)**
- **Department of Research and Innovation, Myanmar Ministry of Education (Myanmar)**
- **Institute for Essential Services Reform (Indonesia)**
- **Green Innovation & Development Center (Vietnam)**



Acknowledgement

- **Children's Investment Fund Foundation (CIFF)**
- **Global Climate Action Initiative (GCAI)**
- **Natural Resources Defense Council (NRDC)**
- **OAK Foundation**
- **Rockefeller Brothers Fund (RBF)**
- **Tsinghua University Education Foundation**
- **World Wildlife Fund (WWF)**

