



Disclaimer: This report was prepared as an account of work sponsored by the U.S. Agency for International Development (USAID). Neither the United States Government nor any agency thereof, nor Research Triangle Institute (RTI), nor Full Advantage Phils. International Inc. (FAPI), nor Philippine Technological Council (PTC), nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, products, processes disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the USAID or any agency thereof, or RTI. The views and opinions of authors expressed herein do not necessarily state or reflect those of the USAID or any agency thereof.



FOREWORD

The Philippine Technological Council (PTC) would like to express its appreciation to the United States Agency for International Development (USAID) and its Energy Secure Philippines (ESP), along with the Developers of Renewable Energy for Advancement, Inc., for their dedicated efforts in creating the Compendium of Equipment Suppliers and Service Providers in the Renewable Energy / Energy Efficiency Industry. USAID has consistently been at the forefront of renewable energy development, and the ESP is a testament to its unwavering commitment to promoting the country's key energy sector priorities, especially renewable energy resources.

PTC as the overarching body of the 13 Engineering Organizations, unequivocally endorses the vision of USAID - ESP for cultivating a comprehensive approach to fostering a robust renewable energy resource in the Philippines. It is our vision to actively be involved in propelling renewable energy forward.

This comprehensive guidebook will be an invaluable resource for all stakeholders in the renewable energy/energy efficiency industry and is a valuable data repository of information on renewable energy companies operating in the country. Further, it provides detailed information about products and services available in the market.

PTC is pleased to host the compendium and we hope to contribute in one way or the other in maintaining its updatedness and accuracy to the best support possible.

I extend my heartfelt congratulations to the USAID ESP Activity for this significant achievement!

(signed)

ENGR. FEDERICO A. MONSADA, ASEAN ENG.

President, PTC



I commend the United State Agency for International Development (USAID), through its Energy SecurePhilippines (ESP) Activity, for this maiden issue of the Compendium of Equipment Suppliers and Service Providers, which will serve as the ultimate guidebook for the renewable energy industry players in the Philippines. USAID has been at the forefront of renewable energy development and this ESP Activity shows its continuing commitment to ensuring utilization of clean indigenous energy resources in the Philippines.

DREAM shares USAID's vision of a vibrant renewable energy and energy efficiency industry in the Philippines with the proactive participation of the private sector, particularly in mainstreaming knowledge, skills, technologies and services.

This Compendium is indeed a one-stop source of data and information of all renewable energy companies offering quality products and services in a competitive market environment while advancing inclusive economic growth and resilience.

I understand that this Compendium will be updated annually to capture the fast advancement of technologies and services in the renewable energy and energy efficiency sector that would provide profound significance in developing the market of quality goods and services.

Congratulations to the USAID ESP Activity!

(signed)
ATTY. JOSE M. LAYUG, JR.
Dream President

PREFACE & ACKNOWLEDGEMENT:

(rough draft)

The United States Agency for International Development is currently rolling out a five-year (2021-2025) Energy Secure Philippines (ESP) Activity that focuses on advancing inclusive economic growth and resilient development.

ESP Activity aims to improve electric utility performance, increase deployment of advanced energy sources and systems, and enhance competition in the power sector. Toward this end, ESP targets to mobilize USD 750 million in private sector investment that will stimulate 500 MW in additional generation capacity.

Hoping to contribute in the aforementioned endeavor, the Compendium aims to present profiles of active and quality companies (pending due diligence) who are engaged in RE/EE equipment supply and service provisions.

The Compendium is a living document that can be annually updated or improve as a one-stop source of knowledge, technologies, and services to advance a vibrant RE/EE industry.

USAID PHILIPPINES

COMPENDIUM STRUCTURE:

The Compendium aims to provide inputs to EE/RE stakeholders' project procurement plan or strategy. It showcases selected companies in the market supply chain engaged in various products and services. Companies are grouped according to the following categorization based on their specialization:

- Project Development
- Original Equipment Manufacturer (OEM)
- Full Turnkey EPC (Engineering, Procurement and Construction)
- Engineering (E)
- Procurement (P)
- Construction and Installation (C)
- Supply and/or Trade
- Consulting, Research & Development and/or Training
- Association
- Operation and Maintenance (O&M)
- Due Diligence
- ESCO
- Smart Technologies
- Logistics
- Others - with goods/services other than the above

The Compendium focuses on companies who are active and reliable. So far, USAID ESP has enlisted over 350 active and reliable companies in the EE/RE industry from large multidisciplinary and long-established businesses to small specialist companies. Each company has its brief profile and icons detailing its background and its EE/RE sector concentration, products and services, project references, country of origin and contact details, including its website and office address.

Products & Services Icons:



Project Development:

Project origination, feasibility study, socio-eco & environmental impact studies, concept design, geotechnical investigation, permitting/licensing and consents, among others.



Original Equipment Manufacturer (OEM) and/or Fabrication:

Manufacturing or Fabrication of original components or assembly parts. OEM does customized designs and responsible for original warranty and customer support.



Full-Turnkey EPC:

Only one contract for design and build from engineering (E), procurement (P), construction (C), commissioning, start-up to hand-over of the RE/EE facility to the project owner. Responsible for training and performance guarantee.



Engineering E):

Detailed project design engineering, including bill of quantities and time schedule (S-curve) to meet the RE/EE project requirement until completion.



Procurement (P):

Responsible for procurement agreements and purchase orders. Secure supply of best buy machinery, equipment and/or materials as specified in the bill of quantities.



Construction & Installation (C):

Responsible for civil/structural, electrical and mechanical works during the construction and installation of RE/EE assemblies and parts; may include ancillary services of testing and fixing of machinery and equipment.



Owner's Engineer & EPC Management:

Act in behalf of the RE/EE owner, implement/revise the engineering designs prior to execution. Supervise and manage the EPC contractor/s.



Supply and/or Trading:

Marketplace wholesale or retail buying and selling of machinery, equipment and/or materials for RE/EE facility construction and installation.



Operation and Maintenance (O&M):

Responsible for the daily functioning of the RE/EE facilities, with specified duties and responsibilities of workers at specified time schedule. O&M contracting includes training of operators, implementation of preventive maintenance procedures, replacement of near failure or broken parts and materials, and repairs when necessary.



Consulting:

Wide range of professional services in the form of advisory, guidance or conduct of RE/EE project studies or expert's advice. Retained, outsourced or 3rd party to provide the project owner with informed-decisions.



Research & Development, Training and Education:

Conduct of research for development studies of broad spectrum subject matter in the energy sector (policy & advocacy, legal and regulatory, forecasting and power outlook, inter alia); conduct of trainings and IEC (Information, Education, and Communication) campaigns.



Due Diligence:

Provision of independent appraisal or evaluation of the project's legal, technical, financial standing. Usually done by/for an investor before buy-in.



ESCO

Energy Service Company (ESCO) refers to a juridical entity that offers multi-technology services and goods towards developing and designing EE projects, delivering and guaranteeing energy savings, and ensuring cost-effective and optimal performance (RA 11285-Energy Efficiency and Conservation Act of 2018).



Smart Technologies:

Companies dealing with Smart Technologies - electronically or software-controlled devices or systems with artificial intelligence for automation, self-monitoring and reporting and/or capable of synchronizing with other networks or devices; includes Internet of Things (IoT).



Logistics

Overall activity of moving products/goods from origin to final destination, including loading, storage and transport.



Association:

Any organization, alliance, or aggrupation of like-minded individuals or groups to advance their common interests related to renewable energy and energy efficiency, i.e., specific advocacy and implementation agenda.



Retail Electricity Suppliers (RES)

Entity licensed as retail electricity supplier engaged in the business of generating or supplying electricity from RE resources (ERC Resolution N0. 8, series of 2021).

Renewable Energy Technology Icons



Biomass Technology



Solar Technology



Wind Technology



Hydro Technology



Geothermal Technology



Waste-to-Energy