The Applied Clean Energy Education program is designed for renewable energy (RE) professionals, engineers, and local educators from government, industry and educational institutions. The program incorporates critical training and educational elements for engineers, designers and educators. In addition, the curricula provide an overview on how to train technicians and operators for the installation, operation and maintenance of systems. Theoretical classroom sessions will be complemented by extensive hands-on training activities and applied technical learning experience, such as lectures, laboratories, demonstrations, hands-on skills training, design, installation, maintenance, and troubleshooting.

Our Applied Clean Energy education programs are customized in accordance with local in-country requirements and conducted in close cooperation with a local educational institution. Depending on local capacity, availability and requirements, the length of these in-depth programs typically varies from 4 - 8 weeks.

What is VOCTEC?
Vocational training and education for clean energy (VOCTEC) is a multi-tier program under the leadership of Arizona State University (ASU) to improve the sustainability of renewable energy investments in developing countries by increasing awareness, knowledge and capacity of local stakeholders. VOCTEC training includes modules on design, installation, operation, maintenance, and policy of distributed, renewable energy systems, specifically solar PV, micro-hydro, wind, and hybrid systems utilizing one or more of these three technologies along with fossil-fuel generators.

A course designed to train educators how to conduct vocational-level solar PV training would include:

- Overview of solar thermal and solar PV technologies; strengths, weaknesses and applications
- Operating principles and efficiency losses
- Solar radiation map and spectrum
- Weather factors influencing performance
- Stand-alone and grid connected systems
- International product test standards
- Components: purpose, sizing and maintenance
- Lab experiments enforcing the theory learned in the classroom
- Local technical capacity building
- How to set up a hands-on training laboratory

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