



SUSTAINABLE  
ENERGY FOR ALL

ENERGY ACCESS  
PRACTITIONER NETWORK

April 19, 2016

**Webinar:**  
**Vocational Training for Energy Access**  
**Impacts and Lessons Learned from Developing**  
**Countries**

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# ENERGY ACCESS PRACTITIONER NETWORK



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# THE ENERGY ACCESS GAP

## THE PROBLEM:

**Over 1.1 billion people around the world have no access to electricity**

and the many development benefits it brings – improving health, generating income, enabling education, improving security, and empowering women.

## THE NEED:

The International Energy Agency estimates that **60% of new electricity** needs will have to be met by distributed (mini- & off-grid) solutions.



## THE FRAMEWORK:

The UN-Led Sustainable Energy for All initiative seeks to **achieve universal energy access by 2030** as one of its three goals, the others being doubling the rate of improvement in energy efficiency and doubling the share of renewables in the global energy mix.



UNIVERSAL  
ENERGY ACCESS



RENEWABLE  
ENERGY

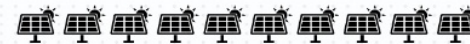


ENERGY  
EFFICIENCY

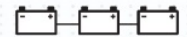
## THE SOLUTIONS:

A range of options exist and are ready for scale for off-grid rural electrification. Energy Access Practitioner Network members are working with technologies including:

### SOLAR PHOTOVOLTAIC (PV) SYSTEMS



### MINI-GRIDS



### BIOMASS



### SMALL HYDRO



### SMALL WIND



*\*Statistics based on responses from the UN Foundation's 2014 annual survey: "Growing the Network: Building Impact"*

# THE ENERGY ACCESS PRACTITIONER NETWORK

## GOALS:

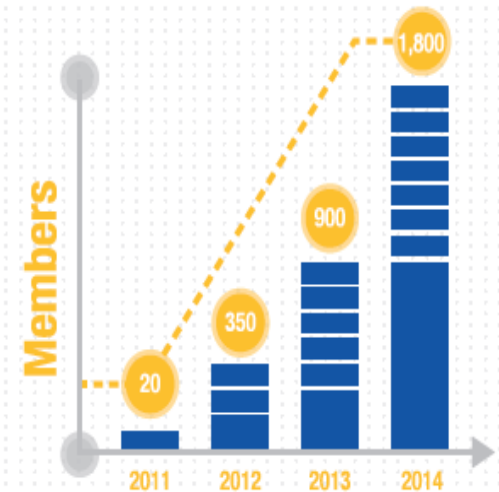
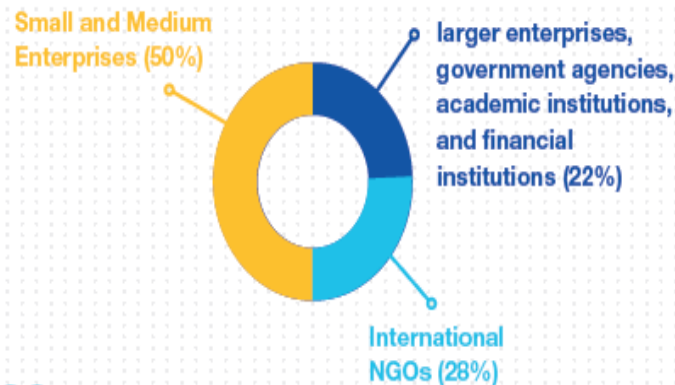
- PROMOTE NEW TECHNOLOGIES AND INNOVATIVE FINANCIAL & BUSINESS MODELS,
- PROVIDE A PLATFORM TO CONVENE AND CONNECT A RANGE OF STAKEHOLDERS AROUND NEW PARTNERSHIPS,
- FACILITATE THE DEVELOPMENT AND ADOPTION OF QUALITY STANDARDS.

## AT A GLANCE

- The Practitioner Network supports primarily market-led decentralized energy applications towards

### ACHIEVING UNIVERSAL ENERGY ACCESS BY 2030.

- **OVER 2,300 MEMBERS,**  
**BASED IN 85 COUNTRIES AND**  
**OPERATING IN 170 COUNTRIES.**



## ○ VALUE

**Members value the Practitioner Network for:** information sharing, peer-to-peer learning, networking opportunities, connecting access to finance, enabling partnerships and increased visibility.

*Statistics based on responses from the UN Foundation's 2014 annual survey: "Growing the Network: Building Impact"*

Practitioner Network members have collectively provided over **30 million** people with clean energy products and services in the last year.

Tailored training programs are crucial for the long-term sustainability of decentralized energy solutions and projects.



# Considerations around enhancing technical capacity for decentralized energy solutions in vocational training institutions

## Quality of training:

- Work with industry to match and promote quality standards
  - Right mixture of technical vs. practical training
  - Incorporate gender mainstreaming
  - Adoption of current safety practices
- ❖ reference national & international minimum standards for both components & installation
  - ❖ feed back into existing vocational programs to ensure institutionalization & integration.
  - ❖ 'train' end-user in terms of expected minimum service to drive quality in a market system.



# Considerations around enhancing technical capacity for decentralized energy solutions in vocational training institutions

## Levels of training

- Different trainings relevant for different stages:
  - ✓ facility-level (operational);
  - ✓ county-level (technical);
  - ✓ central level (quality and supply chain sustainability, procurement of spare parts).
- Advanced technical training – considerations around:
  - ✓ system type and size;
  - ✓ identification of training beneficiaries (who is currently servicing existing energy systems);
  - ✓ proximity;
  - ✓ financial considerations;
  - ✓ availability of needed materials in the local market.
- End-user training to ensure user understands the system and can carry out basic maintenance & troubleshooting (e.g. repair a lightbulb, clean the solar panel).





Photo credit: SolarAid & Solar Nexus International

**Join us!**

