



SUSTAINABLE
ENERGY FOR ALL

ENERGY ACCESS
PRACTITIONER NETWORK

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Webinar: The Future of Energy Innovation

Applications for Off-grid Energy in Developing Countries

Richenda Van Leeuwen

Executive Director, Energy Access
United Nations Foundation

www.unfoundation.org

www.energyaccess.org

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"*

“Ladder” of sustainable energy solutions & services



Photo credits: d.light design, Greenlight Planet

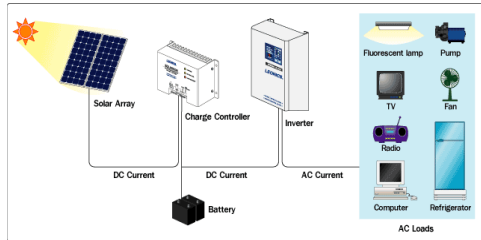


Photo credit: Leonics

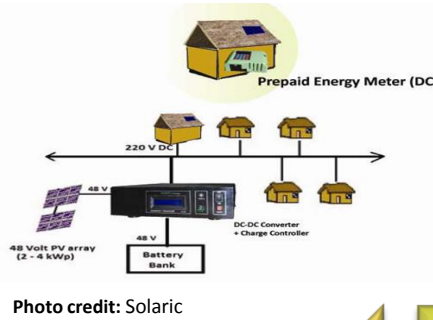


Photo credit: Solaric

Nano-grids

Micro/Mini-grids

Smart Microgrid



Photo credit: Zreyas Technology

Grid-connected

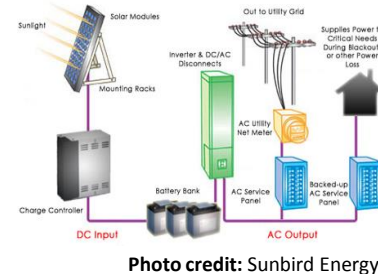


Photo credit: Sunbird Energy

Medium stand-alone solutions (solar home systems)

Small stand-alone solutions (solar lanterns)

Tier 1 - Task lighting & phone charging/ radio

Tier 2 – General lighting, television & fan

Tier 3 – Tier 2 & low-power appliances

Tier 4 – Tier 3 & medium-power appliances

Tier 5 – Tier 4 & high-power appliances



* Tiers of access are drawn from the Sustainable Energy for All initiative’s Global Tracking Framework.



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WWW.ENERGYACCESS.ORG



INFO@ENERGYACCESS.ORG



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THE ENERGY ACCESS PRACTITIONER NETWORK

GOALS:

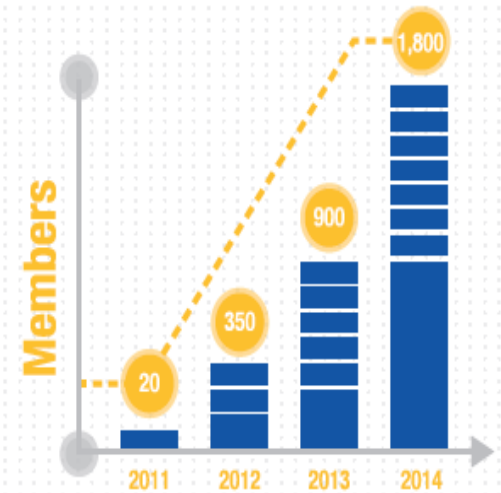
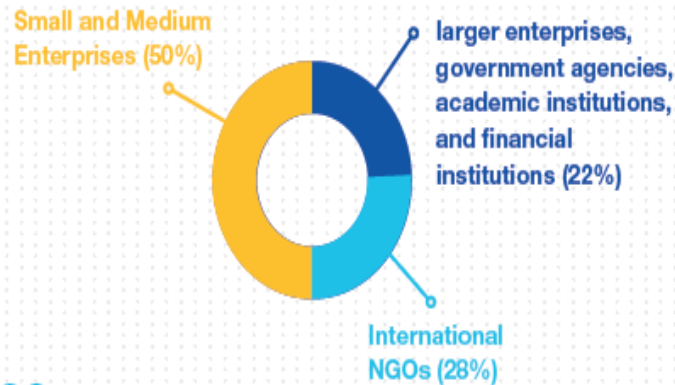
- PROMOTE NEW TECHNOLOGIES AND INNOVATIVE FINANCIAL & BUSINESS MODELS,
- PROVIDE A PLATFORM TO CONVENE AND CONNECT A RANGE OF STAKEHOLDERS AROUND NEW PARTNERSHIPS,
- FACILITATE THE DEVELOPMENT AND ADOPTION OF QUALITY STANDARDS.

AT A GLANCE

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

ACHIEVING UNIVERSAL ENERGY ACCESS BY 2030.

- **OVER 2,000 MEMBERS,**
BASED IN 85 COUNTRIES AND
OPERATING IN 170 COUNTRIES.

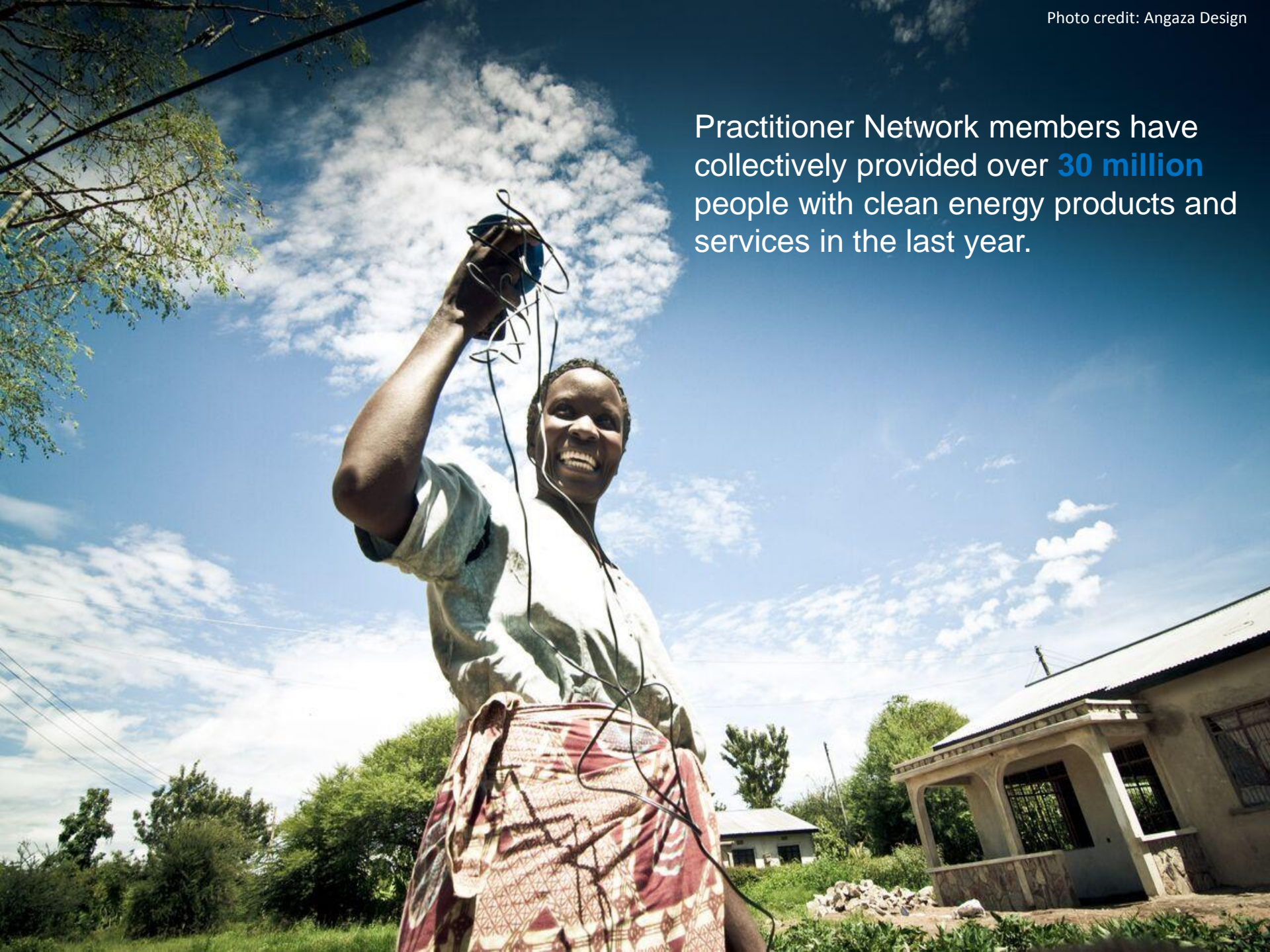


○ VALUE

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.



MOVING FORWARD

INNOVATORS ARE CONSTANTLY ENTERING THE ENERGY ACCESS MARKET WITH NEW IDEAS, FINANCE MECHANISMS AND IMPROVED TECHNOLOGIES, BUT THEY NEED ADDITIONAL FUNDING.



RAPIDLY EVOLVING MARKETPLACE:

Over half of respondents have been operational for **less than 5 years**.

EVIDENCE OF SUCCESS:

40% of respondents that have been operational for less than 5 years reported **growing their annual revenues to \$1-5 million**.

ONGOING NEED:

75% of respondents reported that funding was **the biggest bottleneck to improved delivery, installation, and ongoing maintenance**.

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



Photo credit: SolarAid & Solar Nexus International



Join us!

