



SUSTAINABLE
ENERGY FOR ALL

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Energy Access Practitioner Network

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Sustainable Energy for All Initiative

1.3 billion people worldwide are without access to electricity, and a billion more have only intermittent access. **2.8 billion** people lack access to clean cooking solutions.

In response, the UN declared 2012 as the **International Year of Sustainable Energy for All** and UN Secretary-General Ban Ki-moon launched a new initiative in 2011 by the same name, calling on governments, businesses, and civil society to make commitments to action to accomplish **three objectives** by 2030:

 ENSURING
universal access
TO MODERN ENERGY
SERVICES.

 DOUBLING THE GLOBAL
RATE OF IMPROVEMENT IN
energy efficiency.

 DOUBLING THE SHARE OF
renewable energy
IN THE GLOBAL
ENERGY MIX.



Sustainable Energy for All -High Impact Opportunity Areas

Eight areas have been identified based on their ability to make an immediate impact towards reaching the initiative's three objectives. They are:

- **Modern cooking appliances and fuels**
- **Large-scale renewable power**
- **Transportation**
- **Distributed electricity solutions**
- **Industrial and agricultural processes**
- **Buildings and appliances**
- **Grid infrastructure and supply efficiency**
- **Energy and women's health.**

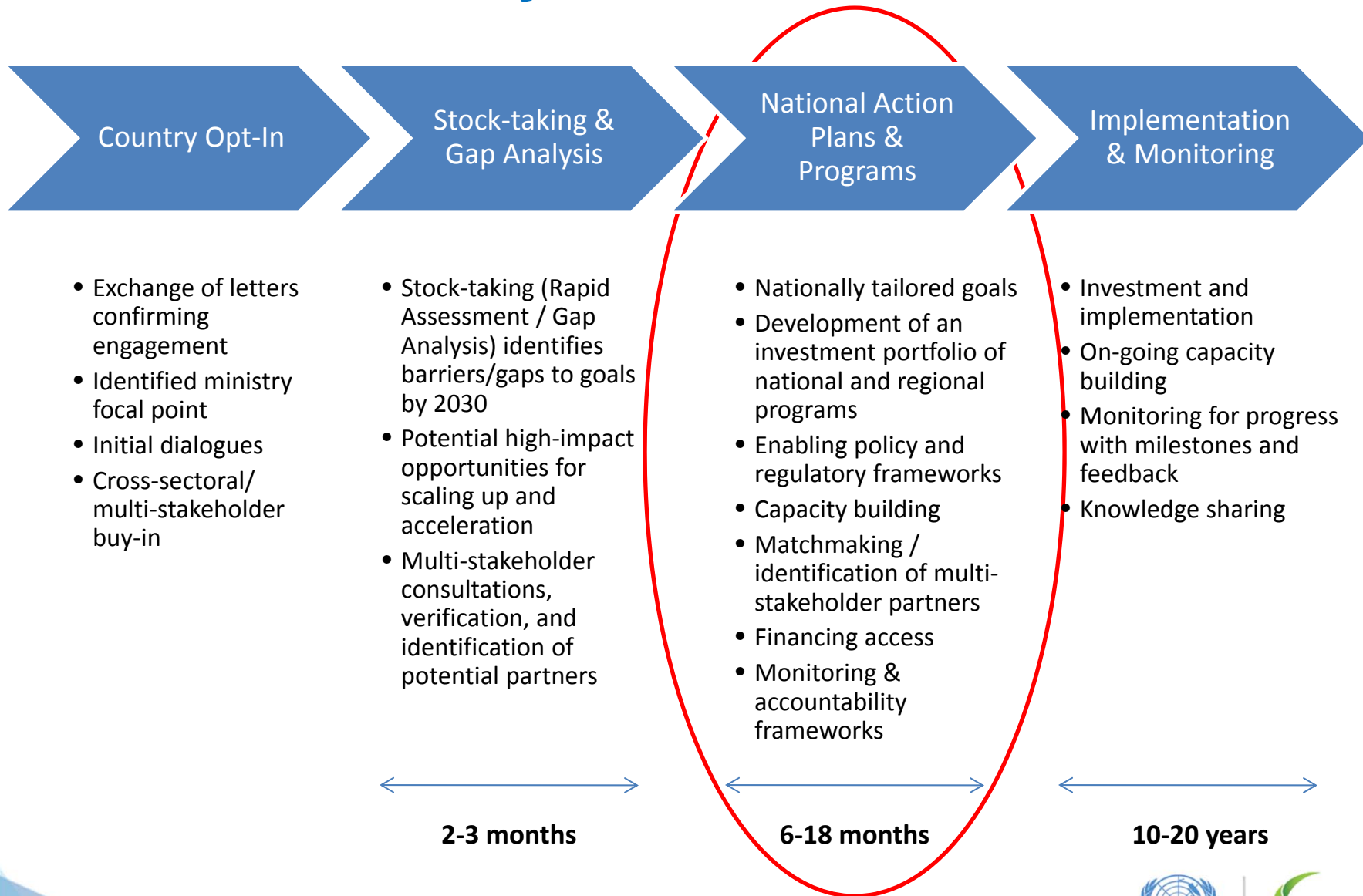


Commitments to Date

- **65 developing countries** are now working with the initiative so far.
- At Rio+20 strong commitments mobilized **from over 100 private sector, government and civil society organizations, totaling over \$50 billion dollars** over the lifespan of the initiative.
- Commitments to support energy access will **provide more than 1 billion people with access to modern energy** during the lifespan of the initiative.
- **New public-private partnerships** are forming on transport, energy efficiency, clean cooking, and finance.



Country Action Process





UNF Energy Access Practitioner Network

- As part of Sustainable Energy for All, UNF launched a global **Energy Access Practitioner Network** in 2011. Rapid growth to more than 900 members from over 600 organizations representing 150 countries .Open access for energy service delivery entities and investors.
- Primarily private sector members – many SMEs, venture backed & large corporates as well as projects. Also private investors, government, institutional members and NGOs delivering energy services.





UNF Energy Access Practitioner Network

- Focus on catalyzing market-based sustainable energy applications, **emphasizing mini- & off-grid solutions and supporting energy service delivery at country level.**
- Knowledge network, innovative business & financial models, advocacy for appropriate regulatory and policy environments for off-grid. Operates as “network of networks”.
- Serves *inter alia* as a source of potential deal flow to impact investors focusing on emerging markets renewable energy opportunities.



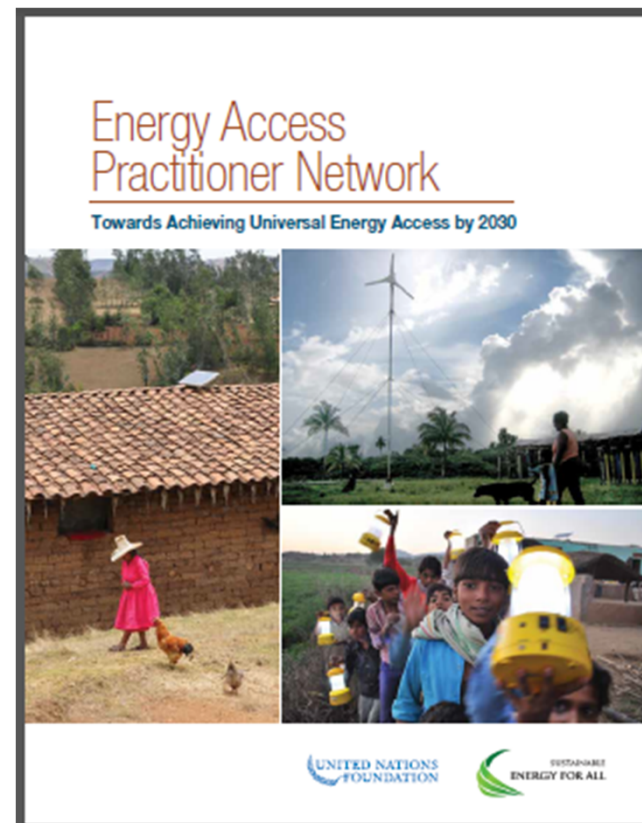
Working Groups

- **Mini/micro grids**
- **Finance & Investment**
- **Standards**
- **Supply Chain & Entrepreneurship**
- **Social Protection & Humanitarian Issues**
- **Energy & Agriculture**
- **Energy & Health**



Practitioner Network Recommendations

- Based on input from its working groups, the Practitioner Network released a set of recommendations on ***Achieving Universal Energy Access by 2030***, at the Rio+20 summit.
- The report identifies **five areas** of particular importance for scaling up energy access:
 - ✓ understanding the market
 - ✓ improving policy and regulatory frameworks
 - ✓ facilitating finance
 - ✓ advancing mini and micro-grids
 - ✓ improving standards and testing



Recommendations for Advancing Mini/Micro-grids

- Understanding plans by governments and other stakeholders to **avoid targeting areas planned for grid extension**.
- Identifying low reliability or under-served energy areas.
- Creating **standardized power purchase agreements** to simplify administrative procedures and enhance market transparency.
- Conducting **feasibility studies** for new rural community planning as part of the zoning and permitting processes.
- Developing **standardized templates** that developers can use in project design and development.
- **Promoting clean energy options** in mini-grid development.



Recommendations for Facilitating Investment and Finance

Enterprise Financing

- Train financial institutions in **risk and rewards in off-grid energy enterprise lending**, structuring lending packages for end user clients and training loan officers on energy loans.
- Conduct **early stage innovation funding** that supports advances in technologies, business models, and financing approaches to enhance capacity of entrepreneurs to deliver off-grid energy services.
- Increase **working capital or operating liquidity** for energy access enterprises unable to raise capital from private streams due to high perceived risk.
- Create **information portals and events** for energy enterprises, focusing on financing.



End User Financing

- Identify key end-user finance groups and provide **training and capacity building** for personnel to promote off grid energy lending.
- Work with microfinance organizations to add **energy lending to strategic priorities**. Ensure appropriate incentive structure and strong processes so energy lending can grow to scale.
- Create **regional/global funding facilities** from which MFIs, local banks, credit unions etc. could on-lend. Create **loan/risk guarantee funds** to provide retailer/supplier credit and promote community-based financing solutions.
- Conduct **consumer awareness campaigns** targeting the energy poor to boost consumer confidence and increase credit uptake.

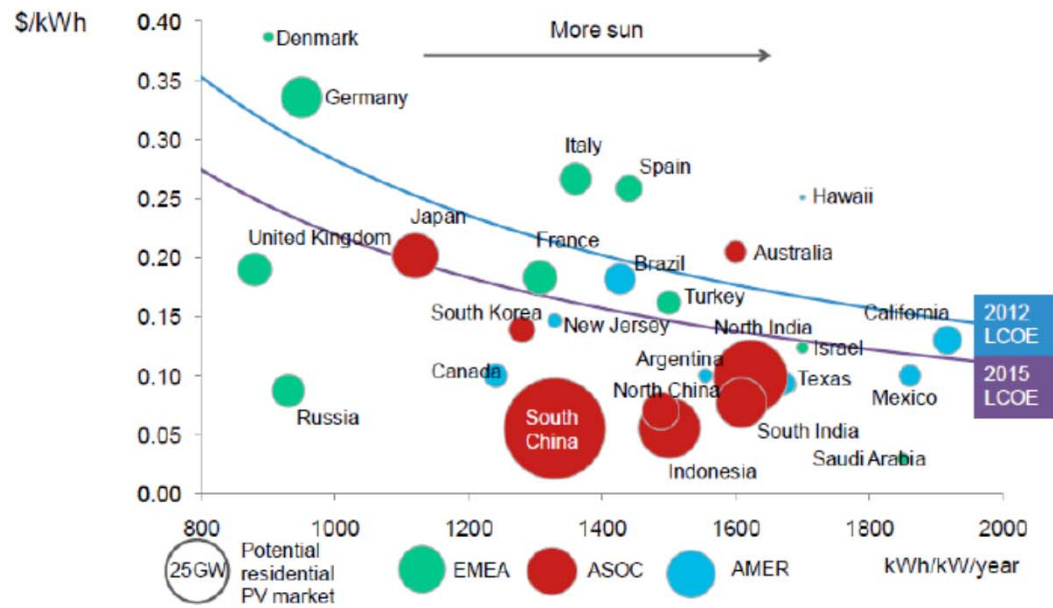


Market-based Solutions to Reach the Base of the Pyramid

- **Consumer Financing:** Azuri Technologies' innovative “pay as you go” scratch-card rental system across Africa
- **Supply Chain:** Econet Solar links existing cell phone supply chains with the sale of cell phone chargers and lights in Southern Africa
- **Customer focus:** SELCO India's tailored packages of customized product, service and consumer financing
- **Product range:** Buksh Energy offers grid-tied PV, village-level solar solutions and small-scale solar lighting in Pakistan



The bigger picture: Solar PV – Towards Reaching Grid Parity



Average PV module prices have fallen by **nearly 75%** in the past three years. Solar power is now competitive with daytime retail power prices in a number of countries, thus effectively **achieving grid parity**. In addition solar PV is a cost effective solution for reduction of diesel usage, for small businesses, health care settings and industrial applications.

Source: BNEF, Reconsidering the Economics of Photovoltaic Power, May 2012.



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