Sustainable Energy for All (SE4ALL)

27/11/12
Paris
Presentation

- Introduction
- Status of Energy Access
- SE4ALL Value Proposition
- Progress So Far
- Work Program
- WB/ESMAP Role in SE4ALL
- Conclusion
Sustainable Energy for All (SE4ALL)

A Global Initiative of UN Secretary General

1b electricity
2.5b clean cooking

Universal energy access (electricity and modern cooking fuels)

Double the global rate of improvement in energy efficiency

Double the renewable energy share in global energy mix

1.4% to 2.8%

15% to 30%
Electricity access deficit (2010)

1.14 billion without electricity access

Top 15 Countries with the lowest electrification rate (2010)

% of Population

- Mozambique
- Tanzania
- Uganda
- Madagascar
- Burkina Faso
- Sierra Leone
- Papua New Guinea
- Rwanda
- Niger
- Malawi
- Central African Republic
- Burundi
- Liberia
- Chad
- South Sudan

Number of people (m)

- Pakistan
- Philippines
- Madagascar
- Afghanistan
- Mozambique
- Myanmar
- Uganda
- Sudan
- Kenya
- Tanzania
- Ethiopia
- Bangladesh
- Nigeria
- India

828 Million people without access

Solid fuel use (2010)

2.77 billion people still use solid fuels (biomass and coal)

Top 15 countries with lowest rate of NSFU (2010)

Business-as-usual will not lead to universal access

SE4ALL value proposition

Unparalleled convening power

Ability to mobilise the boldest commitments

Shared commitment by partners ensuring coordination

Capacity to leverage large-scale investments

Large and rapidly expanding knowledge network
Vision to action

- Vision
- 3 Objectives
- 11 Action Areas
- High-impact opportunities
- Initiatives
### SE4ALL action areas

#### Sectoral Action Areas

- **A** Modern cooking appliances and fuels
- **B** Distributed electricity solutions
- **C** Grid infrastructure and supply efficiency
- **D** Large scale renewable power
- **E** Industrial and agricultural processes
- **F** Transportation
- **G** Buildings and appliances

#### Enabling Action Areas

- **W** Energy planning and policies
- **X** Business model and technology innovation
- **Y** Finance and risk management
- **Z** Capacity building and knowledge sharing

*Each action area has several high impact opportunities to be pursued as part of country/regional actions and other initiatives.*
## Key accomplishments up to Rio+20

### Pre-Rio+20
- Technical Report on Clean Energy (RE/EE)
- Rapid assessment reports on 20 countries
- Preliminary concept notes on RE/EE high impact scale up opportunities
- 14 country missions to initiate engagement
- Resource mobilization (e.g. EC Commitment)

### At Rio+20
- Formal launch of SE4ALL Action Agenda
- Launch of knowledge management network (2010 status report; tracking methods)
- Over $50 billion in commitments from more than 100 countries and companies and agencies

Efforts on to declare a **Sustainable Energy Decade** (2012-22)
SE4ALL country action process

Country Opt-In
- Exchange of letters
- Identified ministry focal point
- Initial dialogues
- Cross-sectoral/multi-stakeholder buy-in

Stock-taking & Gap Analysis
- Situation analysis & stock taking & gap analysis
- Potential high impact opportunities for scaling up and acceleration
- Multi-stakeholder consultations, verification, and identification of potential partners

National Action Plans & Programs
- Nationally tailored goals
- Development of a portfolio of investment programs (national/regional)
- Enabling frameworks
- Capacity building
- Matchmaking/identification of multi-stakeholder partners
- Resource mobilization
- Monitoring & accountability frameworks

Implementation & Monitoring
- Investment and implementation
- On-going capacity building
- Monitoring and feedback
- Knowledge sharing

2-3 months
6-18 months
10-20 years
Guiding principles for access goal

- Country-led design and implementation based on clear commitment and demonstration of buy-in
- Two-track strategy: electrification and modern cooking fuels
- Technology-neutral approach: programs and technologies (incl. RE/EE) to be customized to specific scale-up needs
- Implementation by various stakeholders: governments, private sector, civil society
- Focus on enabling environment to attract private investment
- Program to leverage other initiatives like SREP, Energy+, EUAE-P, etc.
Illustrative targets for SE4ALL (2013-15)

- Put in place programs/policies to reach 200m (electricity access) and 400m (clean cooking) people
  - Launch large-scale intervention programs in 10 ‘investment-ready’ countries
  - Launch TA programs in 20 ‘opt-in’ countries
  - Initiate ‘high impact’ opportunities in at least 30 countries
    - Expand Lighting Africa model to 30 countries
    - Initiate modern fuels interventions (e.g. LPG) in 20 cities with population >500,000
    - Programs for improved biomass fuel processes (e.g. charcoal) in 30 countries
    - Solar electrification of hospitals in 20 countries
Contribution of WB/ESMAP in SE4ALL

**SE4ALL**

- WB President co-chairs the SE4ALL Advisory Group
- Has been on the core team that launched SE4ALL and currently developing the work program
- WB and IEA joint leads for knowledge management (periodical tracking); Status report to be released in early 2013
- ESMAP launching SE4ALL technical assistance program (S-TAP) at country level in early 2013

**Own Programs**

- $8 b portfolio leveraging $16b; to be doubled
- Rural electrification and access programs in several countries
- Power sector interventions (regional power pools, sector reform, transmission, large scale RE, etc.)
- Household energy programs
  - Africa Clean Cooking Energy Solutions (ACCES)
  - East Asia Clean Stove Initiative
  - Bangladesh Cookstove Program
- Expansion of Lighting Africa
- Global Gas Flaring Reduction (GGFR)
Global Tracking System for SE4ALL goals

WB/ESMAP and IEA in Joint Lead

- Set up a knowledge management network with international partners
- First report to be released in March 2013
- Uses 2010 as the benchmark for future tracking; 20-yr trends analyzed (1990-2010)
- Proposes methodologies for tracking the three SE4ALL goals (under peer review)
- Proposes to bring out SE4ALL tracking report periodically (annual/biennial)
A multi-tier approach to measuring access

**Electricity Access**

<table>
<thead>
<tr>
<th>Attributes of Electricity Accessed</th>
<th>Tier-0</th>
<th>Tier-1</th>
<th>Tier-2</th>
<th>Tier-3</th>
<th>Tier-4</th>
<th>Tier-5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feasible Energy Applications (Indicative)</td>
<td>No Electricity</td>
<td>Electric Lighting + Radio</td>
<td>Multi-Bulb Lighting + Air Circulation, Television</td>
<td>Tier-2 + Air Cooling + Light Mech. Loads</td>
<td>Tier-3 + Refrigeration + Heavy Mech. Loads + Space Heating / Cooling</td>
<td>All applications are feasible</td>
</tr>
<tr>
<td>Likely Energy Supply Technology (Indicative)</td>
<td>No Electricity</td>
<td>Solar Lanterns</td>
<td>Stand-alone Home Systems</td>
<td>Mini-grids with limited supply or Poor Grid Connection</td>
<td>Unreliable grid with limited supply</td>
<td>Reliable Grid with 24-hour Supply</td>
</tr>
</tbody>
</table>

Continuous Spectrum of Improving Energy Supply Attributes including Adequacy, Availability, Reliability, Quality of Supply etc.
SE4ALL Technical Assistance Program (S-TAP)

- To be launched by ESMAP in early 2013 with an initial budget of $15m
- 6-7 countries to be chosen initially @ $2-3m per country
- Implemented through WB operational regions and aligned with IDA programs
- Builds on the existing programs/plans and identify solutions to fill the gaps to reach the universal access goal (incl. focus on RE/EE where appropriate)
- Follows the SE4ALL guiding principles
- **EXPECTED OUTCOMES:**
  - An Investment Prospectus as part of a National Energy Action Program
  - Enabling environment created (policy, capacity, finance, institutions)
Thank You.

Venkata Ramana Putti
pramana@worldbank.org