Beyond Connections: Energy Access

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What does the energy access challenge involve?

Energy Access Redefined: adequate quantity, available when needed, good quality, reliable, convenient, affordable, legal, healthy and safe
Why do we care about energy access?

Access is a means to many ends

Access to energy is crucial for socio-economic development.
Why think beyond connections?

BEYOND CONNECTIONS MEANS:

- Off-grid solutions
- Quality and quantity of grid electricity
- Upstream electricity projects
- Clean cooking solutions
- Energy for community facilities and productive engagements

Energy access can no longer be understood in terms of number of grid electricity connections.
Measuring energy access: the multi-tiers

Improving attributes of energy supply leads to higher tiers of access.
PROGRESS TOWARD SUSTAINABLE ENERGY: GLOBAL TRACKING FRAMEWORK 2015
Shifting the energy access paradigm

Multiple attributes of energy supply

Multiple locales of energy use

Multiple technologies

People with Energy Access

Multiple socio-economic benefits

Multiple attributes of energy supply

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1.2 billion people live without any electricity
2.8 billion cook with health-damaging solid fuels
1 billion are under-electrified

Another 1 billion are connected to the grid but have only intermittent service

SOURCE: WB, WHO
NOTE: ACCESS NUMBERS IN MILLIONS OF PEOPLE. EA = EASTERN ASIA; SEA = SOUTH-EASTERN ASIA; SA = SOUTHERN ASIA; SSA = SUB-SAHARAN AFRICA; OTH = OTHERS.
Increased energy access leads to **economic growth, poverty reduction, and shared prosperity**

- 600 million people and 10 million SMEs have no access in Africa
- Energy growth is not keeping pace with GDP growth

Source: EU and World Bank Estimates
Economic impact of shortfall

Economic Cost of Power Outages as Share of GDP, 2005

Source: Briceno-Garmendia 2008 and authors’ calculations of own-generation costs based on Foster and Steinbuks 2008.

Note: GDP = gross domestic product.
Thank you