

ADB

ENERGY FOR ALL

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Picture: ADB Pilot Project Cobrador Island, Philippines

ENERGY ACCESS SITUATION IN ASIA-PACIFIC



3.8 Billion
Population in
ADB's DMCs



2 Billion
People without access to
clean cooking



426 Million
People without
access to electricity

Energy for All Initiative established 2008

- **INTERNAL goal:** Increase ADB's investment in energy access projects and enterprises to **scale up access to affordable, modern and clean energy** among the regions poor using **renewable energy** technologies

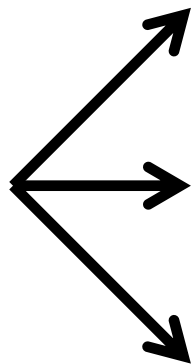
- **EXTERNAL goal: Energy for All Partnership** to develop strategic partnerships and alliances with other stakeholders
 - **2009-15: MET TARGET of providing energy access to 100 MILLION people by 2015**
 - **2015-20: PARTNERSHIP EXTENDED & GOAL INCREASED TO 200 MILLION by 2020**

TRACKING OF OUTPUTS

ACCOMPLISHMENTS IN ENERGY ACCESS 2015

\$1.2
Billion

Energy Access
Investment In
2015*



New connections to
electricity for **300,000**
households



Improved electricity
service to about
3 million households



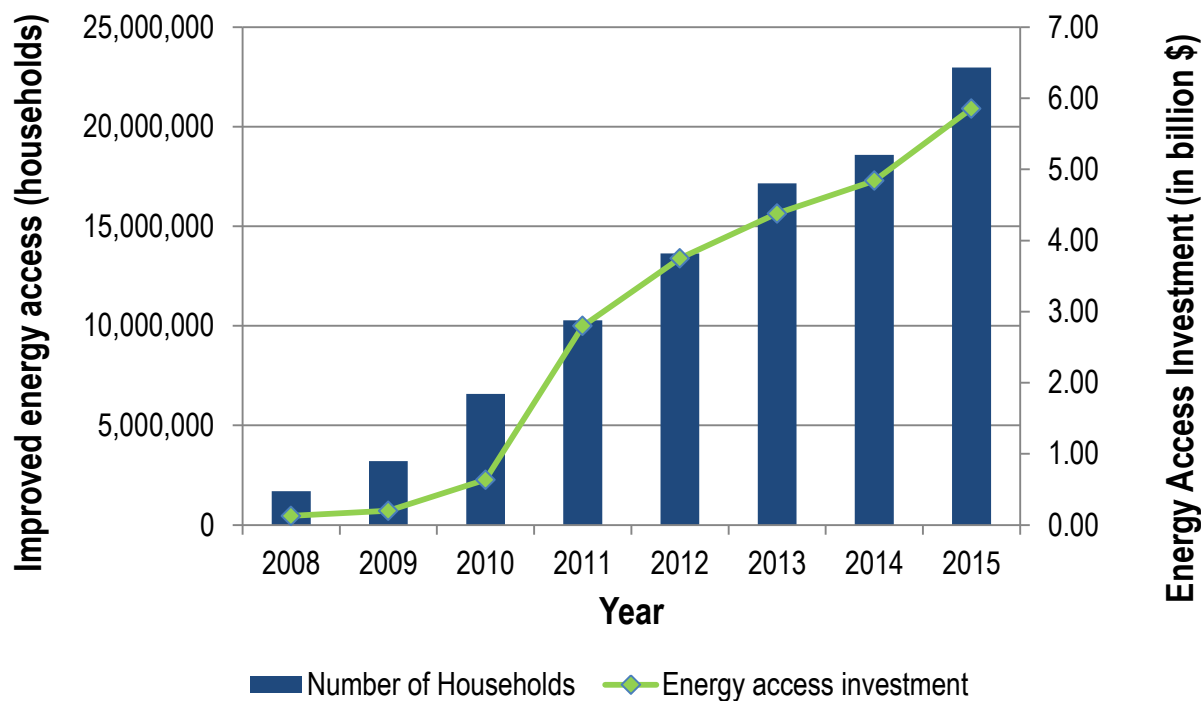
Improved gas or
heating for over **40,000**
households

*Up from \$ 400million in
2014

TRACKING OF OUTPUTS

ACCOMPLISHMENTS IN ENERGY ACCESS 2008-2015

**Impact of ADB's investments on energy access
(2008-2015 Cumulative)**



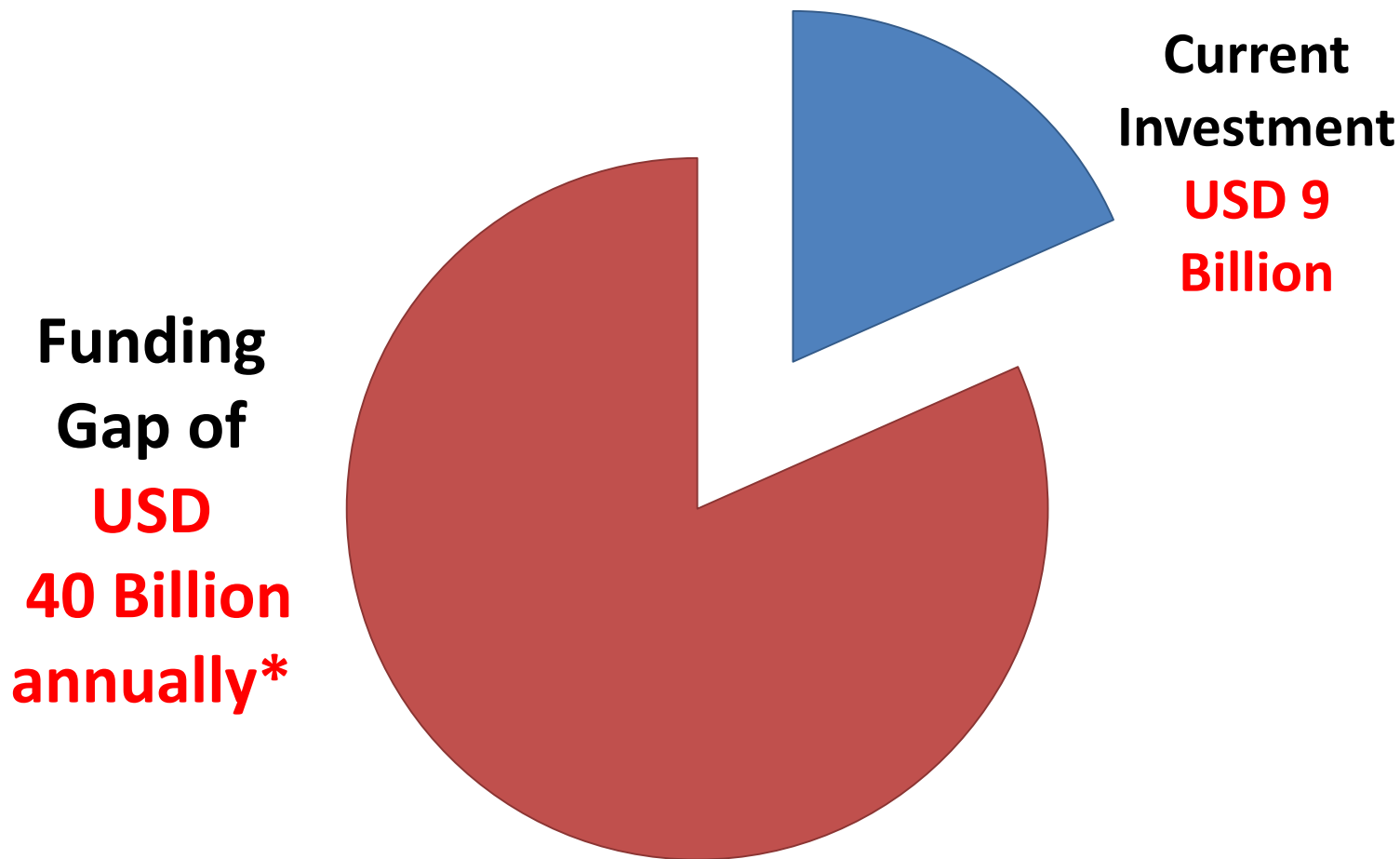
USD 6.4 billion
Total ADB investment
in energy access
(2008-2015)

104.5 million
Number of people
who will benefit from
ADB's energy
access investments

CHALLENGES TO UNIVERSAL ENERGY ACCESS

NEED FOR UNIVERSAL ENERGY ACCESS GLOBALLY:

USD 49 billion annually*



*SE4ALL Finance Committee Report 2015

OFF-GRID INVESTMENT REQUIREMENT FOR UNIVERSAL ENERGY ACCESS



- According to IEA estimates in 2011, only about 30% of rural electrification needs are economically met by on-grid electrification
- Out of the remaining 70% of rural electrification, 2/3rd can be economically met by mini-grids and the remaining 1/3rd by off-grid solutions such as SHS

To achieve universal access to energy:

- **More private sector investment**
- **More investment in off-grid electrification**

PROJECT DEVELOPMENT FACILITY (PDF)

**Incubate energy access
business models
from start-up to sustainability
&
help to refine start-ups into
bankable investment
opportunities**

E4ALL IMPLEMENTATION APPROACH

Four Pillars

- **Capacity Building**
 - Services to Energy Access Stakeholders, e.g. Business Model Workshop for Entrepreneurs, RE for Bankers, RE Finance Workshop
- **Project Development**
 - Piloting/ Testing of Business Models
 - Structuring of Pilot Transactions
- **Investment Facilitation**
 - Services to Energy Access
 - Entrepreneurs, e.g. Customized mentoring, investor matching)
 - Investors, e.g. Credit enhancement, Investment referrals Due Diligence support)
- **Knowledge Management**
 - Publication of reports, e.g. SE4ALL Tracking Report, Mini-grid Report, etc.)

PILOTING OF BUSINESS MODELS

Projects	Business Models
Bangladesh: Swarm electrification (SolShare)	Electricity sharing concept where excess energy from solar home systems is diverted to poorer households.
Myanmar: Delivery and installation of Solar Home System in Mandalay Region and Chin State	Clean energy solutions through output-based aid mechanism.
Nepal: Solar mini-grids in rural communities (Gham Power)	Joint investment of private sector company and a community to an energy access project through mini-grid.
Pakistan: GSM-based solar home system	Test the design and operation of GSM-based remotely controlled metering systems as basis for pre-paid model
Philippines: RE hybrid system in Romblon (Korea Energy Agency)	Hybridize existing diesel gensets with RE in an isolated island to reduce government subsidy and provide 24/7 electricity service.
Nepal: Dhostekhor Khola Micro Hydropower Pilot	Power supply for income generating activities to support community infrastructure.
Myanmar: Delivery and installation of Mini-Grids	Incentivizing community investment for upgraded energy services

Join the Energy for All Partnership (2015 -2020):

TARGET:

PROVIDE 200 MILLION PEOPLE with MODERN ENERGY

Requested to submit the number of households/people that your organization has provided with access to energy (yearly)

- **Benefits offered to regular members:**
 - Can be invited as participant/speaker in ADB-conducted or sponsored events
 - Avail of early stage project development support
 - Access to network of partners (incl. investors, technology suppliers, financing institutions)
 - Avail of knowledge sharing of technical innovations, financing mechanisms, etc.
 - Expand coordination, exchange of best practice approaches and strategies for scaling up access to energy

FOR MORE INFORMATION:

ADB's Energy for All Website & Social Media

-  www.energyforall.info
-  Energy For All Partnership
-  [@energyforall](https://twitter.com/energyforall)
-  ADB Energy for All
-  secretariat@energyforall.info

SE4ALL Website & Social Media

-  www.se4all.org
-  Sustainable Energy for All
– Asia Pacific
-  [@SE4All_AsiaPac](https://twitter.com/SE4All_AsiaPac)