ENERGY FOR ALL: An Update

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ENERGY ACCESS SITUATION IN ASIA-PACIFIC

- **3.8 Billion**: Population in ADB’s DMC’s
- **426 Million**: People without access to clean cooking
- **2 Billion**: 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**
$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 $400 million in 2014
ACCOMPLISHMENTS IN ENERGY ACCESS 2008-2015

- **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

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

- Improved energy access (households)
- Energy access investment (in billion $)

Graph showing the cumulative impact of ADB's investments from 2008 to 2015.
Project Development Facility (PDF)

- To **increase private sector participation** in delivering modern energy to the poor
- **Offers services to clean energy access entrepreneurs** like
  - Customized mentoring
  - Credit enhancement
  - Investor matching
- **Offers services to investors** like
  - Investment referrals
  - Due Diligence support
  - Risk Sharing Facility

The PDF incubates business models from start-up to sustainability and helps to refine start-ups into bankable investment opportunities.
# PROJECT DEVELOPMENT FACILITY

<table>
<thead>
<tr>
<th>Service</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Projects Sourced</td>
<td>125</td>
</tr>
<tr>
<td>Project Development</td>
<td>70</td>
</tr>
<tr>
<td>Customized Mentoring</td>
<td>14</td>
</tr>
<tr>
<td>Investment Facilitation</td>
<td>35</td>
</tr>
<tr>
<td>Deals Closed</td>
<td>14</td>
</tr>
</tbody>
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## Country Distribution of Investment Closures

- NEP: 14%
- CAM: 7%
- IND: 21%
- PHI: 14%
- BAN: 43%

**Total Investment** - USD 22M

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<table>
<thead>
<tr>
<th>Project Description</th>
<th>Timeline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output-Based Aid (OBA) for Promotion of Solar Home System Pilot (MYANMAR)</td>
<td>Implemented July 2015</td>
</tr>
<tr>
<td>Rural Mini-Grid Project – Gham Power (NEPAL)</td>
<td>Inaugurated March 2016</td>
</tr>
<tr>
<td>Pay-as-you-go Solar Home Systems Pilot (PAKISTAN)</td>
<td>Implementation underway</td>
</tr>
<tr>
<td>Technical assistance/ risk-sharing scheme with OIKO Credit India for issuance of Working Capital Loans (INDIA)</td>
<td>Implementation underway</td>
</tr>
<tr>
<td>Swarm Electrification Pilot Project (BANGLADESH)</td>
<td>Implementation underway</td>
</tr>
<tr>
<td>Off-grid Renewable Energy Demonstration Project (MYANMAR)</td>
<td>Procurement underway</td>
</tr>
<tr>
<td>Dhostekhor Khola Micro Hydropower Pilot Project (NEPAL)</td>
<td>Procurement underway</td>
</tr>
<tr>
<td>Output-Based Aid (OBA) for 100% Energy Access through Promotion of Solar Home System Pilot (NEPAL)</td>
<td>Procurement underway</td>
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</table>
• **Clean Energy**: Installation of 35kW solar power provides 95kWh of electricity/day

• **Strong Business Model**: Private sector/community participation/local bank

• **Strong partnership with government**: collaboration with Alternative Energy Promotion Centre (AEPC)

• **Aggregation**: 3 dispersed remote villages combined in one larger project

• **Economic activity**: Power for households and productive uses

• **Sustainability**: Operation & Maintenance - one person residing on-site serving the 3 villages in case of power supply emergencies
ININAUGURATED MARCH 2016

• **Clean Energy:** 30 kW solar PV plant and hybridizing with diesel gensets

• **Strong Business Model:** Collaboration with local distribution utility (electric cooperative)/replication of business model – Philippines has a large number of isolated grids powered by diesel

• **Strong partnership with government:** collaboration with National Electrification Administration/tapping of financial incentive schemes

• **Economic activity:** Power all households in the island and productive uses (marble industry, boat making)

• **Sustainability:** Operation & maintenance by a electric cooperative
MYANMAR

- **Clean Energy**: Delivery and installation of ~1,000 solar home systems of 3 sizes (30W, 70W, and 110W)
- **Innovative Financial Mechanism**: ADB support through output based aid scheme

PAKISTAN

- Provision of 1,500 Solar Home Systems in off-grid villages in Western Punjab
- **Technology Innovation**: GSM-based remotely controlled metering systems as basis for pre-paid model
- **Innovative Financial Mechanism**: end-consumer financing, rent to own model
- Private sector distribution, maintenance, and customer service in the selected districts
• Piloting of innovative technology (SOLshare box) with interconnection of 225 households to divert excess solar energy from SHS to poor households that cannot afford a SHS of their own

• Establishment of a market place to allow trading of energy between households & piloting of productive use components

• With more than 3.5 million SHS in use in Bangladesh there is high potential for scale up
Credit Enhancement Support:

- Collaboration with OIKO Credit India

- ADB is providing technical assistance and a risk-sharing mechanism to OIKO Credit India to encourage issuance of working capital loans to clean energy companies in India

- The first 2 working capital loans for energy access companies in the amount of USD 750,00 have been disbursed
WORKSHOPS
Energy for All conducts workshops throughout the year to share its expertise in the energy access space (e.g. International Workshop on Best Practices for Energy Access Financing, Biogas Workshop, AFCEF 6)

International Workshop on Best Practices for Energy Access Financing (Nepal)

Workshop: Innovations driving effective growth of biogas sector (Sri Lanka)

6th Asia Forum for Clean Energy Financing (Singapore)
## Energy for All - EVENTS IN 2015/ 2016

<table>
<thead>
<tr>
<th>Date/Place</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2015</strong></td>
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<tr>
<td>27-31 July, Singapore</td>
<td>Asian Regional Workshop on Roadmaps for Energy Efficiency</td>
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<tr>
<td>2 September, Thailand</td>
<td>AFCEF-6 Project Development and Financing Workshop</td>
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<tr>
<td>26-30 October, Singapore</td>
<td>Asia Clean Energy Summit</td>
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<td>26-30 October, Singapore</td>
<td>Renewable Energy Finance Workshop</td>
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<tr>
<td>28 October, Singapore</td>
<td>14th Energy for All Steering Committee Meeting</td>
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<td>17-19 November, Sri Lanka</td>
<td>International Workshop on Small and Medium Scale Biogas: Innovations driving effective growth of biogas sector</td>
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<tr>
<td>7-11 December, Singapore</td>
<td>Integrating Renewable Energy into the Grid Workshop</td>
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<td><strong>2016</strong></td>
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<tr>
<td>29 January 2016, Singapore</td>
<td>6th Asia Forum for Clean Energy Financing (AFCEF-6)</td>
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<td>11-12 February 2016, Indonesia</td>
<td>Bali Clean Energy Forum</td>
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<tr>
<td>22-25 February 2016, Singapore</td>
<td>Renewable Energy for Bankers</td>
</tr>
<tr>
<td>18-22 April, Singapore</td>
<td>Developing Electricity Markets and Reforms Workshop</td>
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E4ALL has produced a number of country and thematic flyers to disseminate knowledge and promote E4ALL goals.

E4ALL has produced:
- A video on the mini-grid pilot in Cobrador Island: [https://www.youtube.com/watch?v=ygkJAIWJsBE](https://www.youtube.com/watch?v=ygkJAIWJsBE)
- In collaboration with South Asia Operations Department, a video on the IDCOL business model: [https://www.youtube.com/watch?v=ixuxa-jEB28](https://www.youtube.com/watch?v=ixuxa-jEB28)
COMMUNICATIONS

TWITTER | @energyforall
• Has 1092 followers and counting
• Reaches an average of 70,000 people in a week

FACEBOOK | Energy for All Initiative
• Has 889 likes and counting
• Reaches up to 2,000 users per week

WEBSITE | www.energyforall.info
• The E4All website is undergoing a complete redesign.
• It will features news, events, case studies and publications from E4All and partners.
ADB, through Energy for All, acts as the regional hub for efforts that contribute to the global Sustainable Energy for All Initiative (SE4All), alongside UN agencies and development partners.
Asia-Pacific Regional Hub (AP Hub) was launched at ACEF 2014

- In March 2016, an SE4ALL Investor and International Workshop on Best Practices and Business Opportunities for Energy Access Financing was held in Nepal co-organized by ADB and Alternative Energy Promotion Center (AEPC)
Support to ADB’s Developing Member Countries in their country action processes

- ADB/ E4ALL has been requested by the Government of Indonesia to finalize the country’s SE4ALL Rapid Assessment and Gap Analysis

- Indonesia’s Country Action Agenda is next to be developed

- The draft Country Action Agenda of Nepal is currently in its final stage
Social Media

The Hub has created social media profiles to reach a wider audience and is also looking into creating awareness raising and educational workshops in the region.

SE4ALL Website & Social Media

- www.se4all.org
- Sustainable Energy for All – Asia Pacific
- @SE4All_AsiaPac
## FOR MORE INFORMATION:

<table>
<thead>
<tr>
<th>ADB’s Energy for All Website &amp; Social Media</th>
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<tbody>
<tr>
<td><a href="www.energyforall.info">www.energyforall.info</a></td>
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<tr>
<td>Energy For All Partnership</td>
</tr>
<tr>
<td>@energyforall</td>
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<tr>
<td>ADB Energy for All</td>
</tr>
<tr>
<td><a href="mailto:secretariat@energyforall.info">secretariat@energyforall.info</a></td>
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<td>Sustainable Energy for All – Asia Pacific</td>
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