

ADB's Support for Biogas Programs in Asia

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ADB

Asian Development Bank

Fighting poverty in Asia and the Pacific

ADB



Founded in 1966, ADB is a multilateral development bank serving the developing countries of Asia and the Pacific region

To fight poverty in a region of more than 600 million poor people, ADB is guided by its long term Strategy 2020 which focuses on three development agendas:

- Inclusive economic growth
- Environmentally sustainable growth including climate change
- Regional integration
- In 2011, ADB's total assistance amounted to \$21.72 billion
- 2,900 employees from 59 countries

Asian Development Bank: Energy Policy

ADB's Strategy 2020 is the overarching, long-term strategy towards inclusive, environmentally sustainable growth in the Asia-Pacific region

ADB's energy sector operations are guided by its 2009 Energy Policy which has three pillars:

Extensive support for energy efficiency and renewable energy

Maximizing access to energy for all, especially the rural poor

Promoting energy sector reforms, capacity building, and governance



Energy Poverty In Asia and the Pacific

The **pink** region indicates population density. The **white** region indicates where modern energy is accessible.

Energy poverty is a global problem that demands a **global solution**.

1.9 billion
people in Asia and
the Pacific depend
on burning traditional
biomass for energy***

***IEA, 2011, World Energy
Outlook 2011.

4.1 billion
total population of
Asia and the Pacific*

*UNESCAP, 2010, Statistical Yearbook
for Asia and the Pacific 2009.

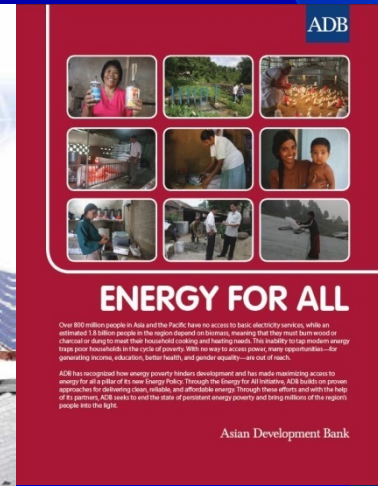
670 million
people in developing
Asia have no access
to basic electricity
services**

**IEA, 2011, World Energy
Outlook 2011.

ADB's response: Energy for All

ADB Energy for All's goals are drawn from ADB's 2009 Energy Policy which sets as one of its pillars: "maximize energy for all, especially for the rural poor."

- Mainstream access to energy for the poor within ADB's operations
- Increase ADB investment in access to energy projects
- Develop strategic partnerships and alliances with other stakeholders



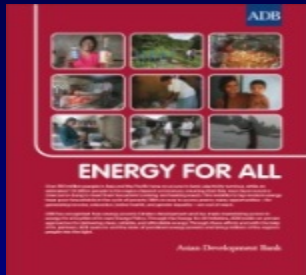
Energy for All

Partnership Structure



Providing energy access to 100 million by 2015

Energy for All Partnership



Knowledge



Capacity building



Project development



Linkage

Multi-stakeholder, regional partnership with a goal of connecting 100 million new people to modern energy by 2015



ADB SUPPORT FOR BIOGAS PROJECTS

PRC: Efficient Utilization of Agricultural Wastes Project

- The project has set up 19 100 biogas digesters, improved 130 920 m² of kitchens, built 305 000 m² of pig shed, 47 700 m² of toilet.
- Construction of 15 large & medium-sized pilot biogas plants, construction of 18 rural markets for agricultural produce, development of over 500 km of rural roads, additional drilling of 113 wells.

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Country	China, People's Republic of
Project Number	33443-013
Project Type or Modality of Assistance	Loan
Financing	Public sector (Sovereign)
Status	Closed
Approval Number	Loan No. 1924
Approval Date	22 Oct 2002
Closing Date	23 Aug 2010
ADB Financing (US\$ million)	33.12

Viet Nam: Quality and Safety Enhancement of Agriculture Products and Biogas Development Project

- Direct financial assistance for the construction of 20,000 household biogas units
- The Project will facilitate construction of about 40,000 household biogas digesters in 16 provinces
- The Project will provide a credit line managed by a number of partner financial intermediaries.
- It is estimated that the biogas component will reduce CO₂ emissions by the equivalent of about 40,000–60,000 tons of CO₂/year and being developed as PoA of CDM

Country	Viet Nam
Project Number	39421-013
Project Type or Modality of Assistance	Loan Technical Assistance
Financing	Public sector (Sovereign)
Status	Approved
Approval Numbers	Loan No. 2513 TA No. 7251
Approval Date	18 Mar 2009
ADB Financing (\$ million)	96.5

Viet Nam: Low Carbon Agricultural Support Project

- Project approved by ADB Board in December 2012
- 36,000 small biogas plants (Up to 50m³), 40 medium biogas plants (50 to 1000 m³) and 10 large biogas plants (More than 1000 m³)
- Plans are afoot to get carbon finance through regulated markets or voluntary markets
- Likely to save about 150,000 tons CO₂e/yr

Country	Viet Nam
Project Number	45406-001
Project Type or Modality of Assistance	Loan
Financing	Public sector (Sovereign)
Status	Approved
Approval Number	Loan No. 2968
Approval Date	12 Dec 2012
ADB Financing (\$ million)	74

Bhutan: Rural Renewable Energy Development Project

- 70 per cent of the country lives in rural area
- Cooking and heating is the main energy requirement
- It has 1.2 t of fuel wood consumption per capita per year which is the highest consumption in the world (and twice as high as Nepal)
- Potential to have 16000 households that can have biogas in Bhutan
- ADB will support pilot domestic biogas plants (1,600 new households through microfinance)
- Total cost of the project US\$2.2 million

For more information:

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