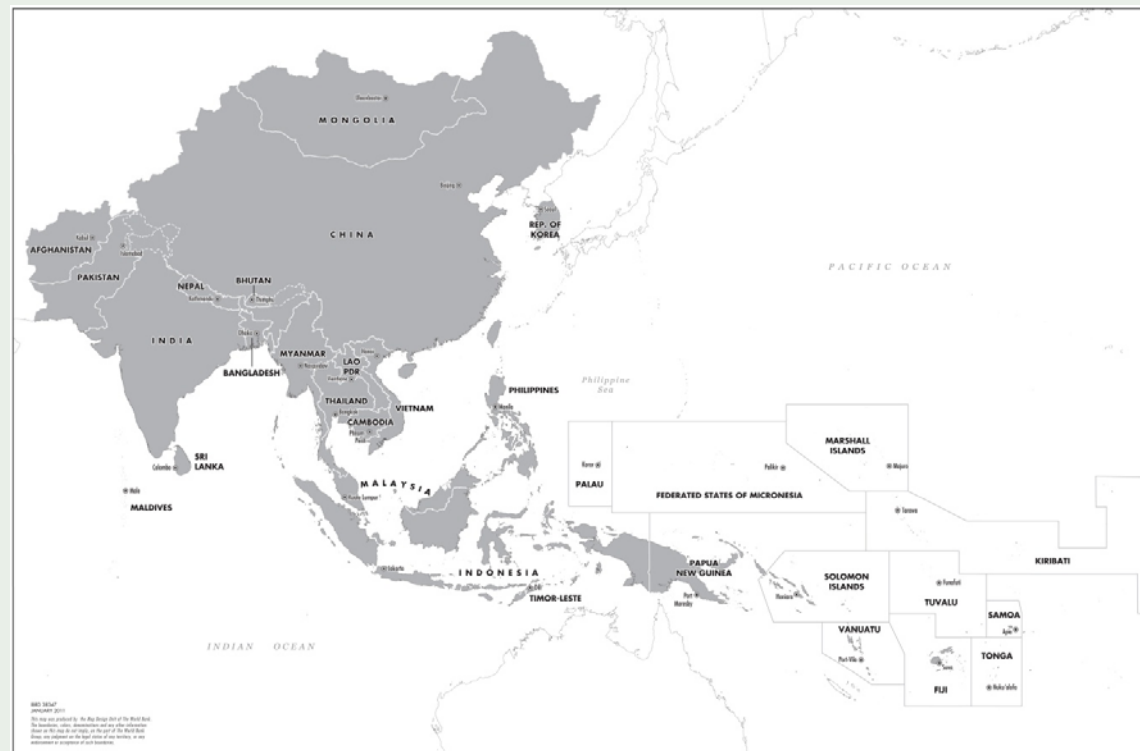


Asia Sustainable and Alternative Energy Program (ASTAE)



Consultative Group Meeting *Washington, February 28, 2013*

Charles Feinstein,
ASTAE Manager, East Asia Water and Energy Unit



ASTAE Session Agenda

1. ASTAE Portfolio Overview

Charles Feinstein, *ASTAE Manager*

2. Challenges and pipeline in South and East Asia Regions

Jyoti Shukla, *SAR Manager*/ Charles Feinstein, *EAP Manager*

3. Examples of ASTAE-supported activities

- Regional, EAP Clean Stove Initiative, *Dejan Ostojsic*
- Pakistan, Renewable Energy Scale-up Strategy, *Leiping Wang*
- Vietnam Cumulative Impact Assessment on Small Hydropower, *Franz Gerner*
- Nepal, Hydro and Renewable Energy Program, *Jie Tang*
- EAP Energy Gender Action Plan, *Helene Carlsson Rex*

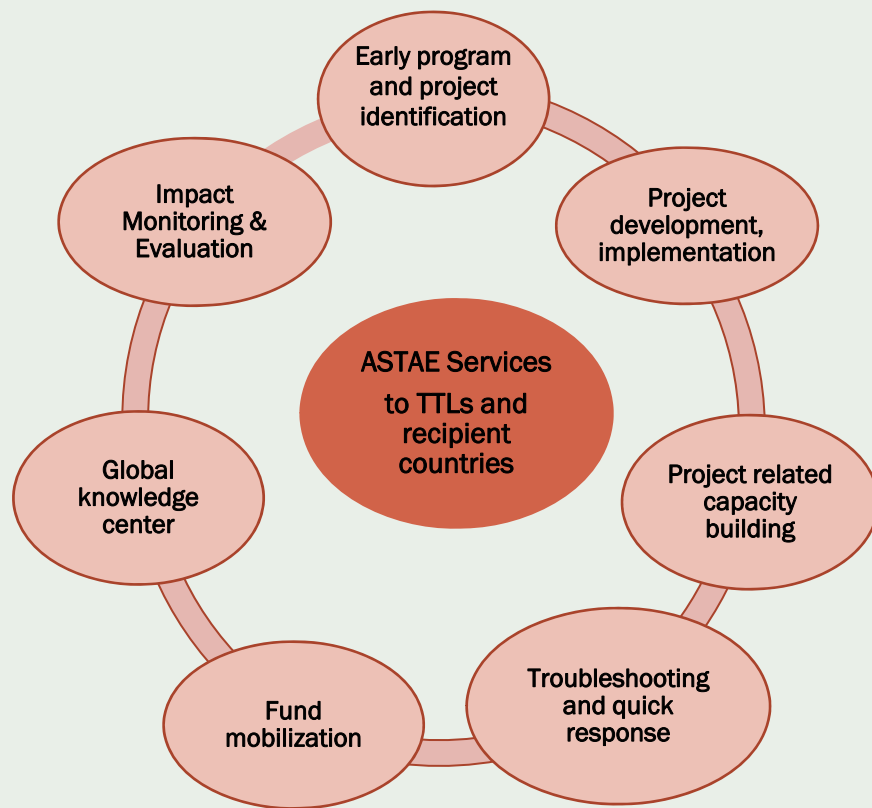
4. Discussion and Wrap-up

ASTAE in a Nutshell

- Created in 1992, ASTAE has been instrumental in transforming the World Bank East Asia and Pacific portfolio towards Sustainable Energy.
- Embedded in East Asia unit to maximize operational impact , it covers South and East Asian client countries and funds Bank and Recipient executed activities.
- ASTAE works in close cooperation with ESMAP and other World Bank Trust Funds.
- Progress on ASTAE's Three Pillars is monitored through Impact Indicators:
 - Renewable Energy ⇒ New MW and GWh renewable energy
 - Energy Efficiency ⇒ Avoided GWh through energy efficiency
 - Access to Energy ⇒ Number of connections or improved stoves
 - ↳ three Pillars Result in avoided CO₂ emissions
- ASTAE works across sectors, taking into account health, gender and other social, environmental and poverty dimensions as appropriate.
- Current Donors include The Netherlands, Sweden and the United Kingdom. Past donors included Canada, Finland, Japan, Switzerland and the United States.

Funding Services that Leverage Investments

ASTAE provide targeted support to Bank Teams in EAP and SAR that lead to increased and improved Bank projects and catalyze change towards sustainable energy at the country level. For example, FY07 – 11 Business Plan period, every dollar allocated by ASTAE leveraged US\$223 in World Bank–related loans/grants to sustainable energy.



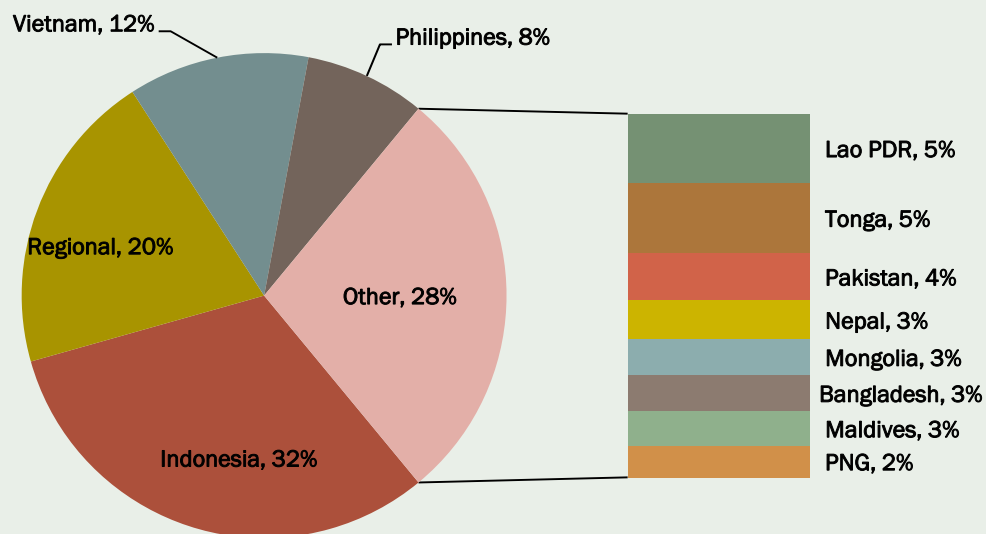
Execution of ASTAE 2012-15 Business Plan

Multi-Donor TF created and activated in July 2012:

- with a budget of US\$24 million over 4 years
- and pledges from the Netherlands, Sweden and the United Kingdom.

As of January 2013:

- US\$17 million have been received
- 28 activities have been approved for a total of US\$7.5 million
- Within these 28 activities, the level of execution is 45% (commitments + disbursements)



Allocations summary	Current levels		Indicative targets	Nb of activities
East Asia	\$ 5,565,000	75%	50%	17
South Asia	\$ 1,890,000	25%	50%	9
Renewable Energy	\$ 3,482,000	47%	50%	20
Energy Efficiency (EE)	\$ 1,203,500	16%	25%	11
Access to Energy (AC)	\$ 2,769,500	37%	25%	20
Regional Work	\$ 1,510,000	20%	20%	5
Cross Sector	\$ 1,000,000	13%	15%	3
IDA countries	\$ 2,575,000	35%	40%	10
Bank Executed	\$ 6,655,000	89%	85%	24
Recipient Executed	\$ 800,000	11%	15%	2

Progress on Indicators Pledged – End FY12

Progress in FY12 largely result from activities funded under last Business plan but that supported Projects that came to Board in FY12:

July 2011: Vietnam, Clean Production and Energy Efficiency Project

July 2011: Indonesia, Geothermal Clean Energy Investment Project

Sept. 2011: China, Energy Efficiency Financing III Project

April 2012: Mongolia, Ulaanbaatar Clean Air Project

April 2012: Pakistan, Natural Gas Efficiency Project

Direct Indicators	Unit	Value Pledged	Value Achieved	Progress %
1. Total World Bank lending catalyzed by ASTAE Activities				
Projects and Program lending	Million US\$	3,200	1,301	40%
2. New capacity and increased generation of renewable electricity				
Renewable energy - Capacity	MW	1,500	0	-
Renewable energy - Generation	GWh/year	3,000	1,208	40%
3. Electricity savings resulting from efficiency improvements				
Energy savings - Capacity	MW eqvt	1,000	350	35%
Energy savings - Generation	GWh/year	2,000	2,820	141%
4. Households with access to modern energy services				
Access to electricity (New)	Household	2,000,000	0	-
Access to electricity (Improved)	Household	1,000,000	0	-
Improved stoves for heating (cooking and space)	Household	5,000,000	175,000	3%
5. Avoided greenhouse gas emissions				
Direct CO ₂ avoided over 20 years	Million tons	200	277	138%
6. Countries benefiting from ASTAE support				
Number of Countries	Country	15	9	60%

