The ECO-Asia - USAID Asia Clean Energy Policy and Regulatory Exchange
A Short Review

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JREF, Tokyo, September 2011
Asia Clean Energy Policy and Regulatory Exchange: At a Glance

Objective
• Develop a regional platform for information exchanges, discussion, and planning that leads to more effective design and implementation of clean energy policies, regulations, and programs in Asia
• Coordinate closely with other initiatives and efforts to maximize synergies (multilateral and bilateral).

Expected Outcome
• New and improved policies, regulations, and programs for clean energy

Outputs:
1. Annual Regional Workshop at the Asia Clean Energy Forum (with ADB in Manila)
2. Knowledge Portal that captures key developments and documents related to clean energy policy
3. Reports on case studies, success stories, and macro policy impacts
4. National workshops to facilitate design and implementation of new and improved policies, regulations and programs
5. Workshops to develop the capacity of Asian journalists to report on clean energy policy issues
Asia Clean Energy Policy and Regulatory Exchange: Activities

Activities of the ECO-Asia Regional Team

- Develop CE policy matrix
- Present CE policy matrix to national and regional stakeholders
- Share case studies and identify key areas for regional discussion
- Focused discussion and research at national and regional levels
- Development of new or improved policies and regulations
- Develop capacity of journalists to report on clean energy policy issues
Policy Roundtables in 2010

- Philippines: 23 March
- China: 26 April
- India: 4 May
- Vietnam: 11 May
- Thailand: 13 May

Key Objectives:
- Present the concept of “The Matrix” – Get comments, adjust
- Consult on priorities for EE and RE policies/regulations
- Initiate plans for national/bilateral/regional workshops in late 2010
**Types of Policy, Regulation, Program**

**General Categories**

Energy Sector Regulation
- Electricity Regulator
- Other (non-Electricity)

RE Policy Development
- National
- Regional/Local Support

Dedicated RE Agencies
- National
- Regional/Local

Quantitative National RE Targets
- General RE
- By Technology

**Regulatory Instruments**

- Renewable Portfolio Standard
- Net Metering
- Feed-in Tariff
- Integrated Resource Planning
- Penalties/Sanctions
- Minimum Energy Performance Standards
- Energy Performance Labeling
### Market-Based Instruments
- Fiscal Incentives (i.e. tax incentives)
- Grants/Subsidies
- Carbon Credits under CDM
- Carbon Credits under Voluntary Markets
- Renewable Energy Certificates
- Energy Production Payments

### Other Types of Instruments
- Education
- Information
- Technical Assistance
- Technology Transfer
- Pilot/Demonstration Projects
- Workshops/Conferences
- Partnerships/Twinning
- Public Recognition / Awards
- Certification/Rating
## Public-Sector RE Programs

- Buildings
- Transport
- Purchasing Requirements for RE Products
- Pilot/Demonstration Projects

## Technology- or Sector-Specific RE Programs

### Solar

- PV
- Thermal
- Centralized Solar Power

### Biomass/Biogas

- Wind
- Micro/Mini Hydro
- Geothermal
- Waste to Energy
Main Overarching Request: What works, what doesn’t?

- Evaluations (impact and process) of instruments
  Not just case studies → analytical “assessments”

Potential Topics for Assessment Reports
- Demand Side Management (DSM) in Thailand
- Banks role in energy efficiency financing
- Decoupling profits from electricity sales
- Feed-in tariff micro hydro power (FiT) in Indonesia
- Solar thermal program in Thailand
- Energy Auditing program in Thailand
- Minimum Energy Performance Standards (MEPS) in Korea
- Etc.

Mycle SCHNEIDER  Asia Clean Energy Forum (ACEF)  Manila, 24 June 2010
## Roundtable Participants

<table>
<thead>
<tr>
<th></th>
<th>China</th>
<th>India</th>
<th>Philippines</th>
<th>Thailand</th>
<th>Vietnam</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Participants</strong></td>
<td>18 RE + 4 EE (+ 4 USAID)</td>
<td>7 (+ 4 USAID)</td>
<td>8 (+ 4 USAID)</td>
<td>11 (+ 3 USAID)</td>
<td>11 RE + 14 EE (+ 4 USAID)</td>
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<tr>
<td><strong>Organisations</strong></td>
<td>Academic, Ministry of Agriculture, research institutes, industry, foundation, consultant, NGO</td>
<td>RE Agency, regulator, consultant, industry, NGO</td>
<td>Ministry of Energy, Board of Investment, utility, financing institution, consultant, development agency, NGO</td>
<td>Academics, Ministry of Energy, utility, industry, NGO</td>
<td>Academics, Ministries for RE &amp; Nuclear, Science &amp; Technology &amp; Environment; regulator, state oil &amp; power company, RE industry, World Bank, NGO</td>
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</tbody>
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Mycle SCHNEIDER Asia Clean Energy Forum (ACEF)  
Manila, 24 June 2010

Mycle Schneider Consulting  
Tokyo, September 2011
<table>
<thead>
<tr>
<th>Preselected Workshop Topics</th>
<th>Renewable Energy</th>
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</thead>
<tbody>
<tr>
<td><strong>Proposals on Renewable Energy (RE)</strong></td>
<td><strong>China</strong></td>
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<tr>
<td>• Wind energy development in China (case study)</td>
<td>• Infrastructure and grid issues</td>
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<tr>
<td>• Administrative management for project development and pricing</td>
<td>• Financing mechanism to reduce system costs</td>
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<tr>
<td>• Monitoring and Supervision for RE grid connection</td>
<td>• Incentivizing self-consumption of RE</td>
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<td></td>
<td>• Integration of off-grid RE projects in the main policy framework</td>
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## Preselected Workshop Topics *Energy Efficiency*

<table>
<thead>
<tr>
<th>Proposals on Energy Efficiency (EE)</th>
<th>China</th>
<th>India</th>
<th>Philippines</th>
<th>Thailand</th>
<th>Vietnam</th>
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<tbody>
<tr>
<td>• Energy Service Companies (ESCO)</td>
<td>• Multi-state DSM program</td>
<td>• DSM best practices</td>
<td>• DSM regulations and management</td>
<td>• Standards and Labeling framework</td>
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<tr>
<td>• Cement Waste Heat Recovery (WHR)</td>
<td>• Legal framework for Standards and Labeling</td>
<td>• DSM regulations (decoupling)</td>
<td>• Energy Efficiency Resource Standard (EERS)</td>
<td>• ESCO service and fund</td>
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<tr>
<td>• EE operation modal method</td>
<td>• Revolving fund for ESCO projects</td>
<td>• Standards and Labeling framework</td>
<td>• Standards and Labeling</td>
<td>• Public information</td>
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<td></td>
<td>• Public outreach program for energy consumers</td>
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<td>• Cap &amp; trade for energy saving</td>
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<td>• Capacity building for ESCOs</td>
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<td>• Mandatory building codes</td>
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And Qualified for the Semi-Finals are...

- **In the Renewable Energy Category:**
  - Grid System Issues: China, India, Philippines
  - Feed-in Tariffs: Philippines, Thailand, Vietnam

- **In the Energy Efficiency Category:**
  - Demand Side Management (DSM) Issues: India, Philippines, Vietnam
  - Energy Service Companies (ESCO): China, India, Vietnam
Final Outcome

• Regional Workshop on Feed-in Tariffs at ACEF-2011, Manila

What failed?
• Matrix/Web-Platform development incomplete
• Regulation Design Workshops *not* carried out
• Twinning limited
• Ongoing process interrupted

What worked?
• Excellent use of USAID convening power
• Great motivation and stimulation for regional exchange
• Good tool to co-construct regulation with all stakeholders