Investment Promotion
in Energy Efficiency and Renewable Energy Projects
under ESCO Fund

By

Energy for Environment Foundation; E for E
Presentation Outline

- About E for E
- E for E’s Services and Experiences
- ESCO Fund and its facilities
- Project Approval Process under ESCO Fund
- Verification and Monitoring for ESCO Fund Projects
About E for E

- An independent not-for-profit organization, founded in 2000

- Missions:
  - To support both government and private sectors in renewable energy as well as energy and environment conservation
  - To promote power generation from renewable energy and other alternatives by providing policy recommendations to the government and providing financial/technical assistance to project developers and financial institutions
  - To publicize information and demonstrate technologies on renewable energy and energy conservation
  - To distribute knowledge, strategies and innovations pertaining to renewable energy including energy and environment conservation, and to organize the projects awarded from ENCON Fund

- E for E’s services: Technical Advisory, Financial Advisory, Information & Outreach Service and Policy Study
E for E’s Organizational Structure

- **Board of E for E (9)**
- **Chief Executive Director**
- **Deputy Chief Executive Director**

**External Consultants**

**Project Management Office (6)**
- Executive Secretary (1)
- Secretary (1)
- Accounts Officer (1)
- Project Accountant (1)
- Administrative Assistant (1)
- Administrative Clerk (1)

**Technical Cell (6)**
- Project Operation Manager (1)
- Senior Technical Advisor (2)
- Technical Officer (3)

**Information and Outreach Cell (2)**
- Senior Information Officer
- Information Officer (1)
- IT Assistant (1)

**Policy Cell (2)**
- Senior Policy Analyst (1)
- Policy Analyst (1)

**Financial Cell (2)**
- Senior Financing Advisor
- Project Financing Advisor (1)
- Project Financing Analyst (1)
E for E’s Services

Service Cells

- **Technical Cell**
  - Providing technical advisory services such as technical feasibility studies of the RE power plants and EE projects, technical trouble-shooting services and any other services in the course of the project development.

- **Financing Cell**
  - Providing financial advisory services including sources of fund, seeking projects for the keen investors, the financial feasibility studies, and preparing financial proposals of RE and EE projects.

- **Information & Outreach Cell**
  - Providing right information on RE, EE, and general energy issues to the specific target groups and general public, providing energy issues relating articles for media and the website and also organizing community relations program for energy project development.

- **Policy Cell**
  - Providing advisory services about policies and regulations concerning the RE and EE projects and the revision of rules and policy framework to the policy makers.

Business Activities

Service Package

- **RE and EE Project Consultancy Service**
- **Knowledge Service**
- **RE and EE Policy Development**
**Policy Study**
- Study on Guidelines to promote power generated from wind and solar energy
- Study on improvement of the regulations for the purchase of power generated from Renewable Energy
- Study and analysis to determine “Adder” for the purchase of power generated from Renewable Energy
- Study on Load Forecast Project, for EPPO
- Study on guidelines for implementation of Power Development Fund of the Energy Industry Act 2007 for OERC

**Technical Study**
- Study on strategic plan of RE Development and Investment for PEA’s subsidiary and Feasibility Study on RE projects for PEA
- Technical Feasibility Study on Renewable Energy Power Plants and energy efficiency projects
- Working as the Independent Engineer to monitor the construction of RE power plant
  - Giving 2nd Opinion on Technical aspect on feasibility study for finance institution

**UNDP/GEF Project**
*Removal of the barriers to biomass power Generation and co-generation in Thailand (2000-2007)*

**Financial Study**
- Study on guidelines of risk management of biomass power project development
- Provide financial feasibility Study and Giving 2nd Opinion on financial feasibility study on power plant project
- Manage the ESCO Fund for DEDE to promote investment in EE and RE projects

**Information Services**
- Conducting Renewable Energy Analysis and Implementing Project Activities in Mae Hong Son for UNJP
- Implementation of the “Green Energy Mechanism” (raise fund from private sector to help people in remote area by RE)
- Biomass Resource Study
- Organization of seminar/training on “renewable energy” for Ministry of Energy, Media and Financial Institution
linkage to Government Agencies and other stakeholders

- Staff have work experience in Ministry of Energy and related Government Agencies and understand about the Government process and administration.

- Having and establishing the stakeholder networks during the study and consultancy experience in RE and EE Project since E for E founded in 2000, such as network with Government Agencies/ Financial Institutions/ Private Funds/ International Organizations/ Education Institutions/ Project Developers/ Machinery and Equipment Suppliers / Academic / Energy Service Company/ Private Sector involving in Energy Business etc.
Policy instruments to promote energy efficiency and renewable energy

- Oil Shortage Prevention and Alleviation Act
- Energy Conservation Act 1992
- Industrial Product Act
- Electricity Generating Authority Act (amendment 1992)
- Energy Industry Act 2008
- TGO
- Oil Fund
- Price incentive for biofuels
  - Soft loans
  - DSM bidding
  - ESCO venture capital fund
  - Investment subsidy
  - Technical assistance
  - Building codes
  - Labelling for buildings
- Standards for appliances
- Labelling
- Utility DSM program
- SPP/VSP regulation
- Adder to normal tariff
- Permits for CHP/DG/RE
- CDM, carbon trading
About ESCO Fund

- Established by Department of Alternative Energy Development and Efficiency (DEDE), under the financial support from Energy Conservation Promotion Fund (ENCON Fund)

- Size of Fund: 500 MB (1st Phase: October 2008 – September 2010)

  Managed by TWO fund managers appointed by DEDE

  - Energy for Environment Foundation (E for E) managed 250 MB
  - The Energy Conservation Foundation of Thailand (ECFT) managed 250 MB

- Size of Fund: 500 MB (2nd Phase: October 2010 – September 2012)

  - E for E has managed 300 MB
  - ECFT has managed 200 MB

- Aim to encourage investment in energy efficiency and renewable energy projects in Thailand
ESCO Fund Objectives

- To foster energy service business
- To stimulate private investment in energy efficiency and renewable energy projects
- To facilitate private sector in reducing energy cost and accessing to revenues from carbon credit
- To increase private sector’s confidence in developing EE and RE projects
- To enhance financial institution’s confidence in providing loan for EE & RE projects
- To encourage energy savings as well as lessen dependence on energy imports
Targets of ESCO Fund

- **Primary Targets:**
  - SMEs including business, service, and industrial sectors especially those in energy intensive industries
  - Investors from both domestic and foreign
  - Energy Service Companies (ESCO) as co-investors, project developers, or technical partners.

- **Secondary Targets:**
  - Financial Institutions as partners providing loan for the project participants
  - Credit Guarantee Agencies e.g. insurance companies
ESCO Fund (2nd Phase)

Energy Conservation Promotion Fund (ENCON Fund)

500 Million Baht

ESCO Fund Investment Committee

Fund Managers:

1. E for E (300 Million Baht)
1. ECFT (200 Million Baht)

ESCO Venture Capital
Equity Investment
Equipment Leasing
Carbon Credit Facility
Technical Assistance
Credit Guarantee Facility
Equity Investment

- **ESCO Fund**
  - Owner / ESCO

- **Re/ EE Project**

- **Sub-contractor**
  - Equipment
  - Installation / Maintenance

- **Co-Investment**

- **Dividend/Return**

**ESCO Fund Owner / ESCO**

**RE/ EE Project**

**Sub-contractor**

- Investment in Energy Efficiency and Renewable Energy Project
- Size of Equity: 10%-50% of total investment cost but limited to 50 MB per project
- Not as a Majority Shareholder
- Return: annual dividend in the proportion of investment
- Investment period: 5 – 7 years or until owner ready to share buy back, or find a new strategic partner, or list in SET/MAI, but limited to 7 years
- Exit Price: “Put Option” and “Call Option” or “Market price”
- BOD-seat is needed
ESCO Venture Capital

- Venture with Energy Service Company (ESCO): 10% – 30% of registered capital but limited to 50 MB per project
- Not as a Majority Shareholder
- Return: annual dividend in the proportion of investment
- Investment period: 5 – 7 years or until owner ready to shared buy back or find a new strategic partner, or list in SET/MAI but limited to 5 years
- Exit Price: “Put Option” and “Call Option” or “Market price”
- BOD-seat is needed

Remark: Because of Registered Capital of Thai ESCO Company is normally low, so this service is not interesting to ESCO
**Equipment Leasing**

Leasing Contract (< 10 million baht)

- **ESCO Fund**
- **RE/EE Project**

**Producer/Supplier/ESCO**

- Principal and Interest Repayment
- Energy Performance Contract
- Equipment purchase agreement

- Long-Term Leasing Service in Purchasing equipment for energy efficiency and renewable energy
- 100% of equipment cost but limited to 10 MB per project
- Repayment within 5 years
- Interest rate at 4% per annum

**ESCO Co., Ltd** (Energy Service Company)

- Share Saving

**Leasing Contract**

- **ESCO Fund**
- **RE/EE Project**
For large projects, EforE will facilitate project owners in developing CDM and accessing to CER buyer at lower service rate.

For small project, EforE will act as Coordinating/Managing Entity: CME developing programmatic CDM.

Remark: E for E helped to develop a Project Idea Note (PIN) for Solar Power (Korat 1) Co., Ltd., one of ESCO Fund’s co-invested projects.
ESCO Fund provides technical assistance to encourage energy efficiency projects by paying energy audit fee but limited to 100,000 baht per project.

The fee must be reimbursed to ESCO Fund if the recommended energy conservation measures are not implemented.

Remark: Technical Assistance/Energy Audit is mostly complementary service of ESCO Company or Supplier to the customer with free of charge, so this service has been never used.
ESCO Fund guarantees commercial bank for project loans but limited to 10 million baht

Project owner will be charged at 1.75% pa. of guarantee amount

Loans guarantee term not more than 5 years

Remark: - Same principle as the Small Business Credit Guarantee Corporation (SBCG)
- However, according to the risk management principle, fund manager allows the investor to choose one between Equity Investment or Credit Guarantee Facility and **all investors choose Equity Investment.**
Project Approval Process

Approval Process

1. EFE’s Board of Director
   - 15 – 20 days
   - Propose the Project
     - 15 – 30 days
   - Approval/SHA preparation
     - 30 – 45 days

2. DEDE Subcommittee
   - 15 – 30 days
   - Submit an Application

3. Investment Committee
   - Signed contract

Drawdown Process

- ESCO Fund Budgeting
  - From ENCON Fund
  - 500 Million Baht

- Drawdown
  - 45-60 days

Financial Instruments/services

- EQUITY INVESTMENT
- ESCO VENTURE CAPITAL
- EQUIPMENT LEASING
- CARBON CREDIT FACILITY
- CREDIT GUARANTEE FACILITY
- TECHNICAL ASSISTANT

Long government’s process to get project approval is a barrier to ESCO Fund support.
### Primary Conditions for considering the Projects

<table>
<thead>
<tr>
<th>Conditions for Equity Investment</th>
<th>Conditions for Equipment Leasing</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Technological Reliability</td>
<td>2. Guarantee saving and Equipment Performance Guarantee Contract</td>
</tr>
<tr>
<td>3. Good financial profile of investors and reasonable return of project</td>
<td>3. Reliability of entrepreneurs/company financial statement</td>
</tr>
<tr>
<td>4. Obtaining Government License /Permit for power plant/Community Acceptance or related license according to the regulation</td>
<td>4. Personal Guarantee/ Bank Guarantee</td>
</tr>
<tr>
<td>5. Requirement Documents</td>
<td>5. Requirement Documents</td>
</tr>
<tr>
<td>- Financial Statement for the last three year of Shareholders</td>
<td>- Copy of electricity bill for the last three year of Company</td>
</tr>
<tr>
<td>- Loan/ Credit Facility Agreement or Term Sheet from bank</td>
<td>- Guarantee Saving Agreement</td>
</tr>
<tr>
<td>- Environment and Safety Assessment report or Environment related report</td>
<td></td>
</tr>
<tr>
<td>- Community Acceptance Report or reliable Community Acceptance Plan</td>
<td></td>
</tr>
</tbody>
</table>
Project Verification and Monitoring

Before Develop the Project
- Project Risk Mitigation on Technical, Financial, Environmental and Social Issue
  - Financial Issue: by Financial Feasibility Study and Due Diligence/Credibility of Investor/others source of fund/ Shareholders Structure
  - Technical Issue: by Technical Feasibility Study/ Fuel Potential/reliability of technology and machinery
  - Environmental and Social Issue: by site survey/requiring the IEE, ESA, EIA Study/Requiring Public Acceptance/ Government Regulation/Permit
  - Project Approval determined on risk management and mitigation of all above issues in the appropriate level

During Construction Period
- Construction Performance
  - Following the conditions under the Shareholders Agreement and EPC Contract
  - Requiring Environmental Standard and Public Hearing/Acceptance
  - Site Visitation/Spot Check
  - Construction Performance Report

During Operation Period
- Operation Performance
  - Following the condition under the Shareholders Agreement
  - Manage through the company Board of Director and Shareholders which have a seat for ESCO Fund Representative
  - Company Annual Report/Financial Statement
  - Site Visitation/Spot Check
• EforE is monitored by Investment Committee and DEDE.
• EforE reports the progress, problem, barriers of the project development to Investment Committee and DEDE.
• EforE provides the progress report in every 3 month
There are 6 RE projects awarded the financial support from ESCO Fund phase 1, under Equity Investment instrument, amounting to 124.01 million baht.

<table>
<thead>
<tr>
<th>Project</th>
<th>Location</th>
<th>Type of Power Plant</th>
<th>Technology</th>
<th>Installed capacity</th>
<th>ESCO Fund Co-invest (Million Baht)</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Solar Power (Korat 1) Co., Ltd</td>
<td>Nakhon Ratchasima</td>
<td>Solar Farm</td>
<td>PV (Polycrystalline)</td>
<td>6.1 MWe</td>
<td>40.00</td>
<td>Started COD in 21 Apr 2010</td>
</tr>
<tr>
<td>3. Siam Solar Co., Ltd</td>
<td>Saraburi</td>
<td>Solar Farm</td>
<td>PV (Thin Film: cadmium telluride)</td>
<td>0.9 MWe</td>
<td>39.20</td>
<td>Started COD in 20 Jan 2012</td>
</tr>
<tr>
<td>5. Solar Power (Sakon Nakhon 1) Co., Ltd</td>
<td>Sakon Nakhon</td>
<td>Solar Farm</td>
<td>PV (Polycrystalline)</td>
<td>6.1 MWe</td>
<td>18.90</td>
<td>Started COD in 8 Feb 2011</td>
</tr>
<tr>
<td>6. Plan Ecoenergy Co., Ltd*</td>
<td>Trang</td>
<td>Biomass Power Plant</td>
<td>Gasification (Co- generation)</td>
<td>5.3 MWe</td>
<td>22.07</td>
<td>Under construction and is expected to start COD in end of 2012</td>
</tr>
</tbody>
</table>

* Plan Ecoenergy is awarded financial support (Equity Investment) from ESCO Fund phase 1 amount to 22.07 Million Baht and phase 2 amount to 17.03 Million Baht.
List of projects awarded ESCO FUND Phase 1: Equipment Leasing

There are 9 projects awarded the financial support from ESCO Fund phase 1, under Equipment Leasing instrument, amounting to 64.03 million baht.

<table>
<thead>
<tr>
<th>Company / Project</th>
<th>Equipment installation</th>
<th>Location</th>
<th>ESCO Fund support (Million Baht)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Forum Plaza Department Store</td>
<td>Chiller</td>
<td>Chonburi</td>
<td>9.630</td>
</tr>
<tr>
<td>2. Century Park Hotel</td>
<td>Solar Water Heating System</td>
<td>Bangkok</td>
<td>3.907</td>
</tr>
<tr>
<td>3. Newsomthai Motor Work Co., Ltd.</td>
<td>Voltage Regulator</td>
<td>Samut Prakan</td>
<td>5.564</td>
</tr>
<tr>
<td>(Automotive part Factory)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Glod marktech Co., Ltd.</td>
<td>SHAW Method of Air Conditioning (SMAC)</td>
<td>Chiangrai</td>
<td>2.204</td>
</tr>
<tr>
<td>(at Hall of opium golden triangle park, Mae Fah Luang)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Central City Tower</td>
<td>High Efficiency Motor</td>
<td>Bangkok</td>
<td>1.695</td>
</tr>
<tr>
<td>(tires factory)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. Golden Crown Plaza Hotel</td>
<td>Variable Speed Drive : VSD</td>
<td>Songkhla</td>
<td>0.434</td>
</tr>
<tr>
<td>8. Asian Hatyai Hotel</td>
<td>Variable Speed Drive : VSD</td>
<td>Songkhla</td>
<td>0.500</td>
</tr>
</tbody>
</table>

ESCO Fund-Phase 1 Summary
- Total projects awarded: 15 projects, amounting to 188.04 Million
  - Awarded under Equity Investment: 6 Projects, amounting to 124.01 Million Baht
  - Awarded under Equipment Leasing: 9 Projects, amounting to 64.03 Million Baht
List of projects awarded ESCO FUND Phase 2: Equity Investment

The present status on ESCO Fund Phase 2 is now extended the approval period for another 6 months so that it will be ended in March 2013. Right now there are 6 RE projects awarded the financial support under Equity Investment instrument amounting to 169.63 million baht.

<table>
<thead>
<tr>
<th>Project</th>
<th>Location</th>
<th>Type of Power Plant</th>
<th>Technology</th>
<th>Installed capacity</th>
<th>ESCO Fund Co-invest (Million Baht)</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Clean Energy 2 Co., Ltd</td>
<td>Chiang Rai</td>
<td>Biomass Power Plant</td>
<td>Steam Turbine</td>
<td>9.0 MWe</td>
<td>40.00</td>
<td>Under development and is expected to start COD in 2014</td>
</tr>
<tr>
<td>2. Boon Chareon Green Energy Co., Ltd.</td>
<td>Suphan Buri</td>
<td>Biomass Power Plant</td>
<td>Gasification (Co-Generation)</td>
<td>5.0 MWe</td>
<td>50.00</td>
<td>Under development and is expected to start COD in 2014</td>
</tr>
<tr>
<td>3. Stepwise Energy Management Co., Ltd</td>
<td>Nakhon Ratchasima</td>
<td>Biogas Power Plant</td>
<td>Cover Lagoon</td>
<td>1.0 MWe</td>
<td>10.00</td>
<td>Under construction and is expected to start COD in 2013</td>
</tr>
<tr>
<td>4. Maejo Community Enterprises</td>
<td>Chiang Mai</td>
<td>Micro Hydro Power Plant</td>
<td>Turgo</td>
<td>35 kWe</td>
<td>1.70</td>
<td>Under development and is expected to start COD in 2013</td>
</tr>
<tr>
<td>5. Krabi Waste to Energy Co., Ltd</td>
<td>Krabi</td>
<td>Biomass 5 MWe+Biogas 1.5 MWe Power Plant</td>
<td>Anaerobic Baffled Reactor+Gasification</td>
<td>6.5 MWe</td>
<td>50.00</td>
<td>Under construction and is expected to start COD in 2014</td>
</tr>
<tr>
<td>6. Plan Ecoenergy Co., Ltd*</td>
<td>Trang</td>
<td>Biomass Power Plant</td>
<td>Gasification (Co-generation)</td>
<td>5.3 MWe</td>
<td>17.03</td>
<td>Under construction and is expected to start COD in end of 2012</td>
</tr>
</tbody>
</table>

* Plan Ecoenergy is awarded financial support (Equity Investment) from ESCO Fund phase 1 amount to 22.07 Million Baht and phase 2 amount to 17.03 Million Baht

Note: Project Status as of September 2012
Right now there are 32 projects awarded the financial support under Equipment Leasing instrument amounting to 125.06 million baht.

<table>
<thead>
<tr>
<th>Company / Project</th>
<th>Equipment installation</th>
<th>Location</th>
<th>ESCO Fund support (Million Baht)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Khao Keaw Farm Co., Ltd. (Pig Farm)</td>
<td>Gas Engine (for Power generation from biogas)</td>
<td>Chanthaburi</td>
<td>1.530</td>
</tr>
<tr>
<td>Thai interknit factory Co., Ltd. (Textile Factory)</td>
<td>LED + T5+ Evaporative Cooling+VSD</td>
<td>Nakhon Pathom</td>
<td>2.140</td>
</tr>
<tr>
<td>Power Innovation Co., Ltd.</td>
<td>Variable Speed Drive : VSD (Jungcelon Phuket Square)</td>
<td>Phuket</td>
<td>3.424</td>
</tr>
<tr>
<td>Pastina Co., Ltd. (Plastic Factory)</td>
<td>LED + T5+ Evaporative Cooling+Heater+Voltage Regulator</td>
<td>Bangkok</td>
<td>3.632</td>
</tr>
<tr>
<td>Power Innovation Co., Ltd.</td>
<td>Variable Speed Drive : VSD (at Platinum Fashion Mall)</td>
<td>Bangkok</td>
<td>1.701</td>
</tr>
<tr>
<td>Power Innovation Co., Ltd.</td>
<td>Variable Speed Drive : VSD (at Ocean Shopping Mall)</td>
<td>Chumporn</td>
<td>0.856</td>
</tr>
<tr>
<td>Royal Benja Hotel</td>
<td>LED</td>
<td>Bangkok</td>
<td>2.436</td>
</tr>
<tr>
<td>Precision Technology Co., Ltd. (Electronics Factory)</td>
<td>LED</td>
<td>Bangkok</td>
<td>1.887</td>
</tr>
<tr>
<td>Lucky Star Cold Storage Co., Ltd.</td>
<td>LED</td>
<td>Samut Prakan</td>
<td>2.791</td>
</tr>
<tr>
<td>Twin Towers Hotel</td>
<td>Chiller + Voltage Regulator + LED</td>
<td>Bangkok</td>
<td>12.651</td>
</tr>
<tr>
<td>Green Panel Co.,Ltd. (Particle Board Factory)</td>
<td>Voltage Regulator</td>
<td>Phetchaburi</td>
<td>9.852</td>
</tr>
<tr>
<td>Siam Save Land Trading Co., Ltd. (Convenient Store)</td>
<td>LED</td>
<td>Ubon Ratchathani</td>
<td>0.841</td>
</tr>
<tr>
<td>Kenmax Co., Ltd.</td>
<td>Voltage Regulator</td>
<td>Samut Prakan</td>
<td>0.631</td>
</tr>
<tr>
<td>Number one Property Co., Ltd. (Apartment)</td>
<td>Fluorasave</td>
<td>Bangkok</td>
<td>0.974</td>
</tr>
<tr>
<td>Number one Land Co., Ltd. (Apartment)</td>
<td>Fluorasave</td>
<td>Bangkok</td>
<td>0.417</td>
</tr>
</tbody>
</table>
## List of projects awarded ESCO FUND Phase 2: Equipment Leasing (2)

<table>
<thead>
<tr>
<th>Company / Project</th>
<th>Equipment installation</th>
<th>Location</th>
<th>ESCO Fund support (Million Baht)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yongsa-nguan Group Co.,Ltd. (Convenient Store)</td>
<td>Voltage Regulator</td>
<td>Ubon Ratchathani</td>
<td>0.355</td>
</tr>
<tr>
<td>Material Plast Co., Ltd. (Plastics Factory)</td>
<td>Voltage Regulator + VSD</td>
<td>Bangkok</td>
<td>2.074</td>
</tr>
<tr>
<td>Power Innovation Co., Ltd.</td>
<td>Variable Speed Drive : VSD (at Amari Orchid Pattaya Hotel)</td>
<td>Chonburi</td>
<td>1.562</td>
</tr>
<tr>
<td>Power Innovation Co., Ltd.</td>
<td>Variable Speed Drive : VSD (at Union Mall)</td>
<td>Bangkok</td>
<td>3.745</td>
</tr>
<tr>
<td>Siam Save Land Trading Co., Ltd. (Phase 2) (Convenient Store)</td>
<td>LED</td>
<td>Ubon Ratchathani</td>
<td>3.351</td>
</tr>
<tr>
<td>Nevada Inn Ubon Ratchathani</td>
<td>Voltage Regulator</td>
<td>Ubon Ratchathani</td>
<td>1.164</td>
</tr>
<tr>
<td>Royal Mekong Nongkhai Hotel</td>
<td>Chiller</td>
<td>Nongkhai</td>
<td>6.636</td>
</tr>
<tr>
<td>Maxwell 1991 Co., Ltd.</td>
<td>Gas Engine for power generation</td>
<td>Nakhon Ratchasima</td>
<td>12.600</td>
</tr>
<tr>
<td>The Emerald Hotel</td>
<td>LED + Voltage Regulator</td>
<td>Bangkok</td>
<td>4.137</td>
</tr>
<tr>
<td>Sea Sand Sun Resort and Spa</td>
<td>LED</td>
<td>Chonburi</td>
<td>1.918</td>
</tr>
<tr>
<td>Apex Plastech Co., Ltd. (Plastics Factory)</td>
<td>Voltage Regulator</td>
<td>Bangkok</td>
<td>2.172</td>
</tr>
<tr>
<td>Kanchana Fresh Pork Co., Ltd. (Slaughter House)</td>
<td>Voltage Regulator+</td>
<td>Ratchaburi</td>
<td>4.166</td>
</tr>
<tr>
<td>Shanghai Mansion Boutique Hotel</td>
<td>Chiller + LED</td>
<td>Bangkok</td>
<td>5.079</td>
</tr>
<tr>
<td>City Complex Pratunam</td>
<td>Chiller</td>
<td>Bangkok</td>
<td>14.924</td>
</tr>
<tr>
<td>Long Beach Cha-Am Hotel</td>
<td>Chiller + High Efficiency Motor + Water Pump + Voltage Regulator + VSD</td>
<td>Phetchaburi</td>
<td>6.611</td>
</tr>
<tr>
<td>Manhattan Hotel</td>
<td>Chiller + Voltage Regulator + Water Pump + High Efficiency Motor + VSD</td>
<td>Bangkok</td>
<td>7.541</td>
</tr>
<tr>
<td>Rong Nam Khang wang singkum Co., Ltd (Ice Mill)</td>
<td>High Efficiency Motor</td>
<td>Chiang Mai</td>
<td>1.257</td>
</tr>
</tbody>
</table>

Note: Project Status as of September 2012
Energy for Environment Foundation (E for E)

99/ 305 Thetsaban Songkhro Road, 
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