



Enrich Forum on Sustainable Development 2015

“Harnessing Clean Energy for Sustainable Development”

September 17, 2015

Hotel Cambodiana
Phnom Penh, Cambodia

Introduction

Energy has been recognized as a human basic need that must be fulfilled to achieve sustainable development. In brief, sustainable development is not possible without sustainable energy and policies to meet energy’s demand affect sustainable development effort in various ways.

In Cambodia, energy is a critical development challenge. Today, only 35% of the total population has access to grid electricity, leaving millions of rural population in the dark. Imported diesel fuel accounts for 90% for domestic electricity production and the electricity price is one of the highest in the world.

Energy shortage could hinder Cambodia’s economic growth and shy potential investors away. Promoting clean energy is one of the effective ways to address the problems. Renewable energy from the sun, water, wind and biomass can help reduce Cambodia’s dependence on the imported fossil fuel, contribute to mitigate climate change and increase electricity access.

The good news is Cambodia has huge untapped clean energy potentials. Thanks to its rich waterway, Cambodia has the second highest hydropower potential in the lower Mekong basin. So far only 10.3% of the total 10,000 MW has been exploited. While large dams can have negative effects on the environment and people, mini, micro, and pico hydropower projects are safer and more environmentally friendly. The estimated capacity of these small-scale dams is about 300 MW with present installed capacity of just 1.87 MW.

With plenty of sunshine, Cambodia’s weather is favorable for solar energy generation. The technical potential of solar power is 65 GWh per year but only about 2 MW of solar power has been installed so far. Thanks to the decrease in cost of solar technology, the local market is now emerging. As of today more than 20 companies in Cambodia have been importing and selling solar products.

Wood-fuel serves about 85% of the total energy demand and is used for domestic cooking but currently is not used for electricity generation. Biomass has great potential as a fuel substitute and reduce diesel fuel consumption by up to 75%. An abundant amount of agricultural residue and the rapid growth of the agroindustry have resulted in growing biomass resources which can be exploited for power production.

Wind power is one of the least explored renewable resources in Cambodia. Wind speeds of at least 5 meters per second are available for electricity generation in the southern parts of the Tonle Sap River and coastal regions. The total electrical capacity from wind turbine is estimated at 3,665 GWh per year.

While Cambodia has large resources availability, harnessing such resources is met with a number challenges. First, the awareness of clean energy remains low. The information on benefits of using clean energy is still limited. Secondly, there is a high risk perception among financiers and project developers. This couple with the lack of supportive policies from the government has led to a low investment in this sector. Thirdly, the technology to harness clean energy is still costly and is not readily available in the country.

In 2003 the government introduced the Renewable Energy Action Plan (REAP) and the Rural Electrification Master Plan (REMP) to promote renewable energy development and utilization. Import taxes on solar PV components, biomass, and solar water heating components have also been reduced substantially. However, the progress has been slow.

The objectives of the Forum

- Review the progress of clean energy development in Cambodia
- Explore the options to further promote clean energy investment
- Provide the opportunity for companies to pitch their business idea to potential/customers investors
- Offer a networking opportunity for clean energy project developers and financiers

Target Participants:

70 people from different stakeholder groups will be invited to join the Forum

- Government: Ministry of Mines and Energy, Ministry of Environment, Ministry of Industry, EdC, REF, EAC, National Council for Sustainable Development
- Development Partners: ADB, IFC, AFD, UNIDO, UNDP, JICA, USAID, Asia Foundation
- Financial Institution: ANZ Royal, FTB, TPC, Chamroeun Microfinance, Deloitte
- Energy Companies: Kamwork, Khmer Solar, Star 8, Solar Partner Asia, CominKhmer, Good Neighbors, Picosol Cambodia, SGFE, NRG Solution, Entrepreneurs du Monde
- Energy NGOs: GERES, SNV, NBP, Nexus,
- Research and Academic Institution: CDRI, RUPP, Zaman University
- Media: Cambodia Daily, Phnom Penh Post, Khmer Times, VOA,

Expected Outputs

- Increased awareness on clean energy development
- Increased understanding on the financing options available for clean energy project
- Established network with relevant stakeholders
- At least 5 prospective projects and 5 potential financiers identified

Medium of communication

The conference will be conducted in English. Simultaneous Khmer translation is provided.

Enrich Forum on Sustainable Development 2015

“Harnessing Clean Energy for Sustainable Development”

September 17, 2015
Hotel Cambodiana
Phnom Penh, Cambodia

Final Program

Time	Activity
7:30-8:00	Registration
8:00-8:05	<ul style="list-style-type: none"> • Arrival of guest of honor • National Anthem • (MC by Dr. Luch Likanan, Director of Enrich Institute)
8:05-8:25	<ul style="list-style-type: none"> • Introductory Remark by Heng Pheakdey, Founder and Chairman of Enrich Institute • Welcome Remarks by Julie Chung, Charge d’Affaires, Embassy of the United States of America, Cambodia
8:25-8:50	Keynote Address by H.E. Ken Sereyrotha, Deputy Secretary-General, General Secretariat of the National Council for Sustainable
8:50-9:00	Group Photo
9:00-9:15	Morning Tea Break
9:15-10:30	<p>Panel 1: Clean energy development in Cambodia: opportunities and challenges</p> <ul style="list-style-type: none"> • Overview of Energy situation in Cambodia by Mr. Gnhoung Choumnit, Deputy Director Energy Development Department, Ministry of Mines and Energy • Overview of Renewable Energy in Cambodia by Mr. Toch Sovanna, Director of Department of New and Renewable Energy Ministry of Mines and Energy • Biomass case study by Yann FRANÇOIS, Technical Advisor, Climate and Development Sector, GERES <p>Moderator: Heng Pheakdey, Founder and Chairman of Enrich Institute</p>
10:30-12:00	<p>Panel 2: Financing Clean Energy</p> <ul style="list-style-type: none"> • Clean Energy Financing Partnership Facility (CEFPF), Jan Hansen, OIC (Senior Country Economist), Asian Development Bank • Financing clean energy: the experience Sustainable Green Fuel Enterprise (SGFE) Carlo Figà Talamanca, Manager of SGFE • Clean Energy Financing: Private commercial bank’s perspective by Nicolas Le Clerc, Director, Project & Structured Finance, ANZ Royal Bank • Clean Energy Investment-Equity Investor’s perspective by Arthur Dumas, Investment Manager, Insitor <p>Moderator: Heng Pheakdey, Founder and Chairman of Enrich Institute</p>

12:00-14:00	Buffet Lunch at Hotel Cambodiana
14:00- 15:15	<p>Panel 3: Investing in solar power</p> <ul style="list-style-type: none"> • Why invest in solar energy by Jim Gramberg, CEO, Solar Partners Asia • Solar Microfinance Programme (SMP) by Dennis Barbian, Associate Advisor Renewable Energy Market Development, SNV • Private Financing Advisory Network by Daniel Potash, Chief of Party, PFAN-Asia <p>Moderator: Dr. Romina de Jong, Country director of PicoSol Cambodia, Head of Sustainable/Renewable Energy, Green Business Committee, Secretary of the board of directors, Solar Energy Association Cambodia (SEAC)</p>
15:15-15:30	Afternoon Coffee break
15:30-17:00	<p>Panel 4: Solar power case studies</p> <ul style="list-style-type: none"> • Case #1 by Phil Stone, General Manager of Star 8 • Case #2 by Phalcheat Chheang, General Manager of Khmer Solar • Case #3 by Daniel Pacheco, Founder and Director of NRG Solutions • Case #4 by Arjen Luxwolda, Managing Director and co-founder of Kamworks Solar. <p>Moderator: Richard de Ferranti, Consultant, Mekong Strategic Partners</p>
17:00-17:05	Closing and Wrap Up by Heng Pheakdey

ABOUT THE FORUM

Enrich Forum on Sustainable Development (EFSD) is an annual flagship event organized by the Enrich Institute in cooperation with development stakeholders in Cambodia. EFSD aims to raise public awareness, shape development policy, forge development partnership, create a network of development experts and practitioners and promote research activities for sustainable development. The topic of conference will center around sustainable development issues. Different theme will be selected for each year.

ABOUT THE ORGANIZERS:

Enrich Institute is an independent Phnom Penh-based organization working to promote active citizen engagement through capacity building, research, multi-stakeholder policy dialogue to contribute to green growth and sustainable development. For more information, visit www.enrichinstitute.org

The USAID Private Financing Advisory Network for Asia (PFAN-Asia) is a five-year regional program implemented by Deloitte Consulting LLP. The goal of the program is to mobilize \$1 billion of investment in renewable energy generation projects, energy efficiency programs and clean transportation projects to avoid or reduce greenhouse gas emissions amounting to at least 40 million tons of carbon dioxide equivalent. For more information on PFAN, visit www.cti-pfan.net.