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e-Newsletter of the International Institute for Energy Conservation (IIEC)

Top Stories



Founder Rob Pratt to Lead IIEC as Chairman

Robert L. Pratt, who founded the International Institute for Energy Conservation (IIEC) in 1984 and served as its first Chairman from the organization's inception through 1994, was elected unanimously by the board of directors of IIEC to be its Chairman once again. Mr. Pratt has been engaged with IIEC as an active board member throughout its 22 year history. He takes over from Dr. Peter du Pont, who will continue to serve on IIEC's newly formed advisory council.

As the IIEC nears its 25th Anniversary, Mr. Pratt's return as Chairman represents an important milestone in its persistent and passionate pursuit of energy conservation in the developing world, specifically through the establishment of innovative financing mechanisms to break through traditional barriers and move toward implementation of "massive energy efficiency" programs and investments that address the growing challenges of energy security and climate change. His vision of a massive scale up of efficiency in the developing world capitalizes on IIEC's approach in catalyzing the implementation of energy efficiency and renewable energy initiatives through its unique network of local professionals working on the ground in its regional offices.



Dr. Peter du Pont



Robert L. Pratt

Mr. Pratt is currently Senior Vice President of the Henry P. Kendall Foundation, where he leads the Foundation's climate change and energy program. By initiating major climate programs in New England through the implementation of "massive energy efficiency," distributed generation, and demand response, along with transportation initiatives, the Foundation hopes to demonstrate that significant greenhouse gas emissions can be reduced in the short to mid-term. Mr. Pratt formerly served as Director of the Massachusetts Technology Collaborative's Renewable Energy Trust (RET), the \$250 million fund through which he developed a series of innovative programs designed to promote the use of clean energy technologies, green building and schools, and build investment in the state's renewable energy industry. Mr. Pratt is the Chairman Emeritus and a member of the advisory board of the American Council On Renewable Energy (ACORE), the Treasurer and a member of the board of the Alliance to Save Energy (ASE), and a member of the board of the Clean Energy States Alliance (CESA). Prior to directing the Renewable Energy Trust, Mr. Pratt was the founder, Chairman and CEO of Energia Global International, Ltd. (EGI), one of the leading renewable energy companies in Latin America. Founded in 1991 as a startup, EGI (now Enel Latin America) became a major company in the region, with hydroelectric, wind energy, and electricity distribution assets in Costa Rica, Guatemala, El Salvador and Chile. Mr. Pratt received an MPA from the John F. Kennedy School of Government at Harvard University, a JD from Georgetown University Law Center, and a BA in government with high honors from Wesleyan University.

After thirteen years of service at IIEC, ten as a project manager and Asia Regional Director, and three as Chairman of the Board, Peter du Pont is now focusing on his professional work in Asia. In late 2006, he joined the U.S.-based International Resources Group (IRG) to head up a new US-funded program, the ECO-Asia Clean Development & Climate Program. The regional program, funded by the U.S. Agency for International Development, is based out of Bangkok and works with Asian governments and corporations to address climate change by promoting policy and market interventions that help scale up investments in clean energy. Dr. du Pont is also Adjunct Professor in Energy & Environmental Policy at the Joint Graduate School of Energy & Environment in Thailand, and continues to collaborate closely with former IIEC colleagues in the region.

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Removal of Small Hydropower Market Barriers in India



Advisory Panel Meeting in New Delhi, India

The panel is a flexible and dynamic group of acknowledged experts from the U.S. hydropower industry, U.S. government agencies, the Indian small hydropower industry and the Indian central and state government agencies, and the first meeting of the advisory panel was held in November 2006 in New Delhi.

The team has also organized state focused round table consultations in the state of Uttaranchal in October 2006. Consultations with stakeholders in the states of Maharashtra and Himanchal Pradesh are also in the pipeline. The groups focused on the policy issues, finance mechanisms, and technical barriers to achieving the significant addition of small hydropower capacity identified by the Government of India as necessary to meet growing energy demand and a critical need for peaking power. It is anticipated that the recommendations collectively made by the panel and the state group will constructively inform the debate on issues of concern at the national and state level in both the public and private sectors. For more information on US Small Hydropower India Program, please contact Dolly Jain at djain@iiec.org.

The International Institute for Energy Conservation has partnered with The US Hydropower Council for International Development (US Hydropower) to analyze market barriers to small hydropower development with member companies who are actively developing projects in India. The team is conducting an on-going policy dialogue with developers and other stakeholders to discuss investment and development issues which they are currently facing, particularly in the small and medium sized hydropower projects.

In response to the need to find solutions to the market barriers that hamper investment and development of small hydropower in India, the program has formed an Advisory Panel of Experts on Small Hydropower Development in India which will serve as a resource and a network to solve problems as they arise.



Biofuel for Rural Electrification in Cambodia

With financial support from the ESMAP program of the World Bank through the Global Village Energy Partnership (GVEP) Action Program Fund - GAPFund, IIEC is working with local partners in Cambodia to assess the feasibility of a new sustainable business model of biofuel-based off-grid rural electrification. IIEC also will assess the use of biofuels as substitute fuels for diesel in conventional generation. In Cambodia, about 85% of 15 million people (in 2.7 million households) still live in rural areas, and less than 10% of which have access to quality electricity supply. Most rural people rely on electricity services from small stand-alone grids operated by Rural Electricity Enterprises (REEs) and rechargeable car-batteries. It is estimated that there are more than 600 REEs and 1,500 commercial battery-charging stations throughout Cambodia. These businesses are operated by local entrepreneurs using diesel generator sets and the grids are constructed from materials locally available. Considerable system losses due to poor design and construction in combination with rising diesel oil price make poor rural communities in Cambodia face some of the highest electricity costs in the world at an average of more than US\$0.50 per kWh.



Biofuel Rural Electrification Inception Meeting in Phnom Penh, Cambodia

IIEC aims to complete the assessment in mid-2007 and recommendations on sustainable biofuel-based rural electrification solutions will be submitted to the Cambodian government. The business models will support community development activities associated with biofuel production, e.g. from Jatropha, and utilization. The project was officially commenced with an inception meeting organized in Phnom Penh on December 18th, 2006. The meeting was attended

by representatives of key government agencies, NGOs, REEs, and academic institutes. The inception meeting also formed a project advisory committee to support the project implementation and ensure that the outcomes will suit well with the Cambodian context. For more information, please visit the project website at www.bio2power.org or contact Sommai Phon-Amnuaisuk at sphonamnuaisuk@iiec.org.

Other Stories



Eco-housing Gains Market Acceptance and Bank Support in Maharashtra, India

The Eco-housing program, initiated in the Western Indian city of Pune with USAID support in the last two years, has successfully addressed the factors influencing the scale-up of sustainable housing development. Policy and market interventions led by IIEC in the first phase, have helped accelerate the adoption of energy efficient technologies and practices in the residential sector and have set the stage for expansion of the program at a national level.



The rating and certification system, developed around the Eco-housing assessment criteria, has helped build a significant momentum for sustainable construction practices in the regional market. Policy support both at the local and State level, tax rebates by the urban local body as well as specific housing mortgage products played a decisive role in scale-up of the program. Bank of Maharashtra (BoM) a leading nationalized bank in India announced a 0.25% rebate in interest rate on housing loan for Eco-housing projects. The Eco-housing certification has received an encouraging response from developers and two demonstration projects by private developers are already underway. After the successful customization of the assessment criteria to Mumbai city, several Municipal Corporations in Maharashtra have initiated the adoption of the Eco-housing program.

Building on this success, the second phase of the program will see the development of the Sustainable Building Technology Center (SBTC), and geographic scale-up supported by sensitization and capacity building of stakeholders in the Eco-housing supply chain. A significant achievement of the program is the commitment of over 3 acres of land by the Pimpri Chinchwad Municipal Corporation (PCMC) for the development of the SBTC. The SBTC will function as a hub to demonstrate, display, educate and test alternative construction techniques, eco-friendly products and technologies. For more details on this initiative, visit www.ecohousingindia.org or please contact Mahesh Patankar at mpatankar@iiec.org



Thai Stakeholders Discussed Strategy to Rebuild Solar Thermal Market in Thailand



Solar Thermal Industry Stakeholder Roundtable Meeting in Bangkok, Thailand

More than 30 participants from public and private sector participated in the roundtable meeting held on December 14, 2006, in Bangkok, Thailand, to discuss issues on government policy, equipment supply, quality and market potential for solar thermal in Thailand. The meeting was divided into 2 sessions; the morning session was designed for decision makers and policy and research related institutions such as Department of Alternative Energy Development and Efficiency (DEDE), Energy Efficiency Institute Thailand Foundation (EEIT), National Science and Technology Development Agency (NSTDA), UNIDO, King Mongkut's University of Thonburi (KMUTT), Silpakorn University, and School of Renewable Energy Technology, Narasuan University. Participants agreed that the potential in energy saving and peak demand reduction in the evening hours are attractive and

should be further emphasized to the high level decision makers. Although, currently there is no direct support for solar thermal from the Thai government, large solar thermal systems are eligible for the available Government's Revolving Loan Fund.

The afternoon session focused on the private sector, for an in-depth dialogue about the market potential and quality issues. Ten solar companies had voluntarily provide their annual sale for the estimation of market potential for solar water heater in Thailand. In 2005, the sale of solar system was approximately at 6,000 m² (area of collector) and expected to increase at 25% annually. For more information, please visit the project website at www.soltherm-thailand.net or contact Sirikul Prasitpianchai at sprasitpianchai@iiec.org.



Standard, Labeling and Certification Initiative to Strengthen the Thai Photovoltaic Industry

IIEC with support from the EU-Thailand Economic Co-operation Small Projects Facility (SPF) commenced the implementation of project entitled Photovoltaic Standardisation, Certification and Labelling for Thailand in December 2006. The project aims at introducing a quality structure for solar photovoltaic (PV) systems, components and installations in Thailand. The project inception meeting was held on the 1st of December at the Intercontinental hotel, Bangkok, with participation from EU representative and stakeholders from the Thai PV Industry, including Thai PV manufacturers (Solartron, Bangkok Solar, Sharp, Siam Solar and Electronics and Ekarat), Government agencies (Department of Alternative Energy Development and Efficiency, Thai Industrial Standard Institute, National Science and Technology Development Agency) and test laboratories (CES).



Photovoltaic Standardization, Certification and Labeling Project Inception Meeting in Bangkok, Thailand

The Thai PV industry has acknowledged that poor installation is one of the major causes of the PV system failure in Thailand, particularly in the Government Solar Home System Program, and improvement of installation practice and other supporting factors such as product quality is vital to the sustainable growth of the industry. With proper standard, labeling and certification schemes in place, the Thai PV stakeholders and consumers can mutually benefit from better product and system quality as well as longer service lifetime. In the inception meeting, the Thai PV stakeholders agreed in principle that through this project, IIEC should further coordinate this initiative to improve PV system quality in Thailand. For more information, please visit the project website at www.pvthailand.org or contact Sirikul Prasitpianchai at sprasitpianchai@iiec.org.



Removal of Financial Barriers to Efficient Lighting Investment in the Philippines

IIEC has recently won a sub-contract entitled, "Business Financing Capacity Building" under the [Philippine Efficient Lighting Market Transformation Project \(PELMATP\)](#). The project is implemented by the Department of Energy and funded by UNDP-GEF. IIEC's work under the sub-contract will contribute towards creating business opportunities in energy efficient lighting systems (EEL) financing and removing the financial barriers to widespread utilization of EEL in the Philippines. It aims to increase the capacity of local financial institutions to provide financing assistance program on EEL system projects. IIEC's work will commence on January 2007 and is expected to complete by early June 2007. For more information, please contact Lei Dealino at adealino@iiec.org.



IIEC and the Clinton Climate Initiative to Help Address Global Warming



IIEC and the Clinton Climate Initiative (CCI) of the William J. Clinton Foundation (WJCF) have formed a partnership to Help Address Global Warming

The Clinton Climate Initiative (CCI) of the William J. Clinton Foundation (WJCF) and IIEC have formed a partnership to support implementation of programs that directly result in substantial greenhouse gas emissions reductions with measurable results to help address issues of global warming. WJCF-CCI and IIEC have entered into a Memorandum of Understanding in October 2006 to set forth a long term working relationship between two parties. The partnership aims to accelerate

greenhouse gas emission reductions through the global influence of the former President Clinton and IIEC's experience in developing innovative and pragmatic approaches on energy conservation and efficiency. For more information, please contact Dr. Nitin Pandit at npandit@iiec.org.



A New Member in IIEC India

IIEC is pleased to announce that Ravi Mani has joined IIEC India as senior project manager. Ravi Mani has an environmental studies, engineering and MBA background and is also a LEED Accredited Professional by USGBC. He has over fifteen years management consulting and industry experience in North America, Europe and Asia in diverse industries - energy and environment, manufacturing and logistics.

Ravi's experience in renewable energy solutions, climate change, and energy efficient building design comes from senior leadership roles in IT Power India Pvt. Ltd. (Pondicherry, India), Inspiration (Cochin, India), and Sustainable

Design Consulting (SilverSpring, MD, USA). Prior to that his experience in manufacturing and logistics industries in reputed firms like McKinsey and Deloitte and Touche was primarily in the area of strategy and operations - strategic planning, corporate finance, supply chain management, and Total Quality Management (TQM). Ravi is currently engaged in business development and project management activities related to IIEC service areas including Demand-Side Management, Sustainable Habitat, Climate Change, Energy Efficiency Pollution Prevention (E2P2), Renewable & Distributed Energy and Water & Energy Nexus.

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