



August 2004

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

## Editorial

### Dear Friends,

This is the first electronic issue of **e-notes**, a newsletter that IIEC started in hard-copy format for the international energy conservation community in the early nineties. During the late nineties, when IIEC was merged into another organization, **e-notes** disappeared. Throughout the merger, we continued to get questions from our friends in the community about IIEC's activities and **e-notes**. In mid-2003, IIEC re-established itself as an independent not-for-profit NGO, and we thought it would now be an appropriate time to resume e-notes in an electronic format.

Starting with this issue, we will send **e-notes** to all our friends and supporters every three months to keep them informed about the exciting activities that IIEC is involved in through its offices in Rio de Janeiro, Johannesburg, Mumbai, New Delhi, Bangkok, Manila, London, and Washington. The first provides examples of how things have changed in IIEC with the changes in both the markets and the nature of the organization (e.g., 95% of IIEC's staff comprises local experts based in our developing-country offices). And those of you who have been associated with the organization for a long time will recognize a characteristic IIEC trait -- a certain excitement about innovative approaches toward energy conservation.

While we expect this first issue of **e-notes** to reach a number of our friends, we hope that they will forward the email to other friends in the community around the world. Specifically, we would very much appreciate it if you could forward this to members of the IIEC Alumni ... former Board members, clients, funders, staff, interns, and well-wishers... so that they can tell us their whereabouts by emailing their coordinates to [Alumni@iiec.org](mailto:Alumni@iiec.org).

There is also additional impetus for resuming **e-notes** -- this year marks the 20th anniversary year of the organization. We are planning to hold a reception for our friends in the Washington, DC area on the evening of 28 October. Details will follow on our new website at [www.iiec.org](http://www.iiec.org). Meanwhile, if you are planning to be in the DC area, RSVP to [Reception2004@iiec.org](mailto:Reception2004@iiec.org) and let us know.

Best personal regards,

Peter du Pont, PhD.  
Chairman

## Top Story



### Celebrating 20 Years of Sustainable Energy Development

IIEC was founded in 1984 with an innovative initiative to promote energy-efficiency in the steel industry in China. From these humble beginnings, IIEC has expanded to become an international non-profit organization with offices on five continents (Washington DC, London, Rio de Janeiro, Johannesburg, Mumbai, Delhi, Bangkok, and Manila) staffed by dedicated teams of local energy professionals. To celebrate the 20th anniversary of its founding, IIEC will be hosting a reception on the evening of Thursday 28 October 2004 from 17:30 to 21:30. The reception will be open to all in the sustainable energy community. It will feature a panel discussion with members of the energy community, including a number of notable IIEC alumni now working in various national and international energy agencies.

## Other Stories



### Bangalore's Efficient Lighting Program



Official Mascot for BESCOM's Efficient Lighting Program

As a part of the Energy Conservation and Commercialization II (ECO II) project, IIEC has been working in the Indian states of Karnataka and Maharashtra in the implementation of market driven demand-side management (DSM) Programs.

One of the most exciting and challenging programs to be undertaken by the Bangalore Electricity Supply Company Ltd (BESCOM) is an energy efficient lighting program for residential and small commercial customers. If successful, BESCOM will be the first state utility in India to implement a large-scale lighting program in partnership with the private sector. The IIEC Project team is assisting with the program design which has several unique features - several lighting technologies (CFLs and 36W FTLs), manufacturers warranty and collection of lamp costs in installments through BESCOM's billing system.

The initial program will target 1.68 Million customers in the Bangalore Urban District. Following program monitoring and evaluation, BESCOM hopes to expand the program to all six districts of its distribution network covering nearly 3.9 Million customers. In addition to providing financial benefits to its domestic customers, the program will provide significant system benefits to BESCOM including peak demand reduction, improvement in load factor and power quality.

BESCOM and IIEC have conducted several meetings with all stakeholders (lighting manufacturers, suppliers, retailers, financial institutions) and formally issued Invitation for Bids (IFB) from lighting suppliers on 12 June 2004. The bids will close on 14 July 2004 and the program will be launched in September 2004.

**Nitin Pandit, PhD.**  
President



### Transforming Bricks for Development



**Signing of MOU (Left to right): Peter du Pont, IIEC Board Chair; Nitin Pandit, IIEC President; Quintin Booysen, Managing Director of Hydraform International; and Mike Foster of Hydraform South Africa.**

IIEC's Bricks for Houses program was undertaken with a Development Marketplace award from the World Bank's Small and Medium Enterprises (SME) Global Capacity Building Facility (GCBF). The program aims to introduce non-conventional brick-making technology to transform the housing market in South Africa. The envisioned market transformation will be achieved through **strengthening of SMEs** in local brick-making technology in order to access mainstream housing practices and activities in South Africa.

A crucial component of changing the housing market to absorb more SMEs, as well as non-conventional bricks is the development of **business models that will allow SMEs to enter the market** and sustain their market presence through non-conventional brick-making.

IIEC identified a project partner in the form of Hydraform Africa Pty Ltd. Hydraform Africa is the designer and manufacturer of the Hydraform Compressed Earth Block machines which can be used to produce an interlocking compressed earth brick. IIEC and Hydraform formalized their relationship by signing a memorandum of understanding in May 2004 to "increase the participation of SMEs and the uptake of non-conventional bricks in the mainstream housing market". The technology and SME business model will be tested in case study projects, with the first being in Lynedoch village in Cape Town will be the first. The IFC's participation in the development of the village will therefore be extended in the demonstration through the African Project Development Fund's role as the local agent for this World Bank GCBF award to IIEC.



### Transitioning to Renewable Energy: A Framework for Creating an Enabling Environment

Over the course of the last eight months, IIEC with the support of the Heinrich B?ll Foundation, has developed a unique model and strategy for evaluating how Renewable Energy (RE) Policies, Programs and Institutions (PPI) fit into larger economic and energy contexts, described as the Macro and Meso Rings.

The philosophical underpinnings of the model were that many RE PPI do not adequately account for these larger circles of influence and often fail to meet their objectives of RE "mainstreaming". By focusing more on the larger "enabling environment" in which the RE must exist, it is possible to structure these PPI. The graphic which described this relationship was a simple set of rings, like a target, which described each level of influence.

In order to "test-drive" the model and strategic approach, case studies were developed in five countries where IIEC has field offices - Thailand, Brazil, Philippines, South Africa and India. Each author drafted descriptions of the larger economic and energy contexts and then described how one PPI operated within the context of the outer rings.

Starting with a small workshop in January of 2004, HBF and IIEC showcased the model and two of the case studies - Brazil and Thailand. After this dry run, at which the model was well received and validated, a second presentation was made and the paper formally launched at a conference sponsored by the World Resources Institute in Washington DC. Finally, HBF supported a side event at the World Renewable Energy Conference in Bonn, Germany in June 2004 at which the IIEC paper was presented. The response was positive and IIEC is now working on further developing the model into a useful policy development tool.



### Philippines to Launch Green Energy Rating Program

The Philippines will soon have a Green Energy Rating Program (Green E), which will rate and recognize outstanding renewable energy projects implemented in the country based on objective environmental criteria. It will serve as a mechanism to award and provide incentives to project developers and end-users that gave significant and active participation in successful RE projects. Green-E is among the promotional programs that will be developed under the Philippine Capacity Building to Remove Barriers to Renewable Energy Development (CBRED) Project, which is supported by the Global Environment Facility (GEF) through the United Nations Development Program (UNDP) and implemented by the Philippine DOE.

IIEC has been tasked to design the program and to conduct a pilot test of the design by the end of 2004. The design will include the development of the criteria, rating scheme, operating guidelines, monitoring and evaluation protocols, and assistance in the identification and training of the members of the Verification Committee. It will also include a financial plan as well as strategy to promote the program.



### **The ASEAN Regional Energy Labeling Program Makes Progress in Pattaya, Thailand**

More than 40 participants representing twelve economies, mostly ASEAN member countries, attended a regional workshop, "*Moving Forward the ASEAN Standards and Labeling Program: Development of the ASEAN Harmonized Energy Performance Test Procedure for Ballast*", jointly organized by Collaborative Labeling and Appliance Standards Program (CLASP) and the ASEAN Energy Efficiency and Conservation Sub-Sector Network (EE&C-SSN). The regional workshop was held in Pattaya, Thailand on May 27-28, 2004 and was co-sponsored by Australia Greenhouse Office (AGO), Department of Alternative Energy Development and Efficiency (DEDE), Ministry of Energy, Thailand, Electricity Generating Authority of Thailand (EGAT), and US Department of State, United States Agency for International Development (USAID).

The participants reached agreement on several core elements necessary for development of a harmonized procedure for fluorescent lamp ballasts in ASEAN member countries. One recommendation was establishment of a regional working group and corresponding national working committees to coordinate current and future development of the ASEAN S&L program. The participants also discussed a number of issues related to energy performance test procedures for fluorescent lamp ballasts and they agreed that the harmonized standard is vital for the success of the ASEAN S&L program. CLASP will produce a set of common methods for measuring ballast energy consumption efficiency and performance and disseminate the document to relevant technical experts in each member country for review.

For more information, please contact Sommai Phon-Amnuaisuk of IIEC's Bangkok office ([sphonamnuaisuk@iiec.org](mailto:sphonamnuaisuk@iiec.org))