



News from IEI's Asian Regional Initiative in Bangalore – September 2016

We are committed to our mission of promoting -- initiating, strengthening and advancing -- sustainable energy futures that balance technical and economic efficiency, with environmental protection and social equity. Towards this goal, we endeavour to build local capacity, and to engage both locally and globally, so as to foster the provision of basic energy services and other improved energy-based amenities.

Recently completed projects include:

Integrated Resource Planning (IRP) in India: Based on Indian experiences with power sector planning and the new laws, policies and institutions that have come into place in recent years, the instruments through which IRP could be carried out and the agents (institutions/organisations) who could wield them were evaluated. (<http://iei-asia.org/IEI-IRP-IndiaOptions.pdf>) In addition, the barriers that discourage the adoption of IRP by Indian power distribution companies were assessed, and feasible conditions in which these hurdles could be overcome were identified. (<http://iei-asia.org/IEI-IRP-ElectricityDistributingUtilities-India.pdf>)

Delivering energy services based on farm residues in rural regions – field demonstrations: Cattle-rearing initiated in a shepherd-hamlet enabled earning from milk sales. Simultaneously, the cattle waste was used to fuel biogas generation in digesters built between homes; this provided clean stove-fuel to all homes and improved manure for the crop-fields. (<http://iei-asia.org/IEI-Bangalore-CleanCooking-RuralDevelopment-Report.pdf>) In another village, biogas from the waste of cattle-rearing was used to power a 100%-gas-based engine. The electricity so produced provided lighting, pumping of drinking-water and other services. (<http://iei-asia.org/IEI-Bangalore-DairyWaste-SustainableElectricity-DemonstrationReport.pdf>) In other regions, the stem-wastes from newly established efficient banana plantations were used for generating biogas for stove-fuel on a community-scale and for small clusters of homes. (<http://iei-asia.org/IEI-Bangalore-CropWaste-CookingFuel-DemonstrationReport.pdf>) These demonstrations (shown in the photographs) were selected for financial supported by the Wuppertal Institute for Climate, Environment, and Energy, Germany, through several Rounds of their WISIONS-SEPS programme (www.wisions.net).



We are now commencing the development of *a knowledge pool or database of information that would be useful for implementing sustainable rural energy services* derived from local renewable resources; - - - *to be continued at our next quarterly newsletter.*