Energy solutions for sustainable development

Seminar, Monday 2nd June, 2014; 13.00-16:00

Venue: (Learning Theatre, KTH, Brinellvägen 68)

Background:

Access to electricity and clean energy is indispensable for the development of society. Access to clean energy is instrumental for supporting economic activities, improving health and education, protecting the environment, generating overall welfare. According to the IEA, some 1.3 billion people lack electricity and 2.6 billion depend on biomass for cooking, mainly in Asia and Africa. Therefore, improving energy access and energy affordability is an important issue in the global development agenda which has received increasing attention.

Energy and Climate Studies (ECS) at KTH has done research on the topic of energy access since 2007. ECS research is interdisciplinary and has a systems approach, linking issues related to energy technology and policy, climate change, and sustainable development. Projects have been carried out in different countries of the world. At the division of Heat and Power (EKV) at KTH, new technological solutions are being developed to provide energy and water services in developing regions.

In Bangladesh, the utilization of low grade solid fuels and arsenic contaminated water in many regions has led to alarming health problems and environmental degradation. Together with Grameen Shakti and SCARAB, ECS and EKV are evaluating the feasibility of a small-scale, biogas based poly-generation scheme for providing access to clean energy in the form of cooking fuel and electricity, as well as arsenic-free drinking water. The objective is to generate three high-value services at the same time, using low value resources such as animal dung and organic waste.

This seminar discusses the results of the study done at KTH. Grameen Shakti, our local partner, will share its experiences in disseminating new technologies and promoting energy access in Bangladesh.

Invited participants

Participants from KTH (project team and researchers), Bangladesh Embassy, Swedish International Development Cooperation Agency (SIDA), Swedish Environment Institute (SEI), Royal Swedish Academy of Sciences, Swedish Energy Agency (SEA), Grameen Shakti- Bangladesh, SCARAB Development AB, Swedish biogas companies, researchers from various universities.

Registration

Registration for this seminar is free. If you are interested to attend this seminar please confirm your participation before **25th May 2014**. You can send a confirmation email at brijesh.mainali@energy.kth.se

Program

Chair: Professor Semida Silveira, Head of the division of Energy and Climate Studies, KTH

Time	Activity	Presenter
13:00-13.30	Registration/Tea Coffee	
13.30-13.45	Welcome by the chair Semida Silveira	Prof. Semida Silveira, KTH
13.45-14.00	Poly-generation technology and its application in Bangladesh	Mr. Ershad Khan, KTH
14.00-14.15	Developing poly-generation as an alternative to meet rural energy services in Bangladesh	Dr. Brijesh Mainali, KTH
14.15-14.30	Application of membrane distillation in developing countries: Creating Synergy with energy projects	Mr. Aapo Sääsk, SCARAB
14.30-14.40	Discussion round	All
14:40-15.00	Experiences of Grameen Shakti in disseminating new technologies and promoting energy access in Bangladesh	Dr. M S Islam, Grameen Shakti
15:00-15.20	Bioenergy for promoting sustainable development	Prof. Arnaldo Walter, UNICAMP, Brazil
15.20-15.30	Discussion round	All
15.30-15.40	Wrap Up	Prof. Semida Silveira, KTH
15.40-16.00	Mingling with Sandwich	All

Contact information:

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