

# *Biofuels Presentation*

## **BIOMASS GASIFIERS**

**FOR GENERATING ELECTRICITY FROM WOOD AND COCONUT SHELLS**

by

**Krishna Raghavan**

**Access to Energy Specialist**

**Foundation for Development Cooperation**

**14<sup>th</sup> December 2009 – 9.30 am**

**at Secretary's Conference Room, Dept. of Commerce & Industry, Moale Haus**

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**Krishna Raghavan has over 30 years experience on Renewable Energy technologies.  
He presently works with the "Energy for All Partnership" – E4ALL**

### **TOPICS COVERED**

- 1. Classification of Biofuels**
- 2. Difference between Biogas Digesters and Gasifiers**
- 3. Feedstocks and End-uses**
- 4. Types of Gasifiers**
- 5. Basic design of Gasifiers**
- 6. Gasification Process**
- 7. Gas cooling and cleaning**
- 8. Applications – heating and electricity generation**
- 9. Modes of operation with an engine**
- 10. Co-generation (Combined Heat and Power)**
- 11. Biomass Integrated Gasifier - Gas Turbine Combined Cycle (BIG-GTCC)**
- 12. Waste Heat Unit to produce fuel gas and shell charcoal from coconut shells**

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### **ORGANISED BY:**

**Dept. of Commerce & Industry**

**Regional Center for Technology & Innovation**



**Energy for All Partnership – E4ALL**

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