Biomass Power Plants in India

Akalta
Location: Chhattisgarh
Operator: KVK Energy & Infrastructure Ltd
Configuration: 1 X 20 MW
Operation: 2005
Fuel: rice husk, coal
Boiler supplier: ??
T/G supplier: ??
Quick facts: This plant is in Janjgir Champa Dist and cost Rs 46.45 crore. KVK has a 10yr power purchase agreement with Chhattisgarh SEB.

Malavalli
Location: Karnataka
Operator: Malavalli Power Plant
Configuration: 1 X 4.5 MW
Operation: 2001
Fuel: bagasse, agricultural waste
Boiler supplier: ??
T/G supplier: Triveni
Quick facts: The project is a joint development of Ambience Management Services Pvt Ltd and the Kamataka Renewable Energy Department.

Samalkot Mill
Location: Andhra Pradesh
Operator: Nava Bharat Ventures Ltd
Configuration: 1 X 9 MW
Operation: 1998
Fuel: biomass
Boiler supplier: Thermax
T/G supplier: Shin Nippon

Satya Maharshi
Location: Andhra Pradesh
Operator: Velcan Energy India Ltd
Configuration: 1 X 7.5 MW
Operation: 2004
Fuel: cotton stick, rice husk
Boiler supplier: ISGEC John Thompson
T/G supplier: Alstom, VA TECH
EPC: Arena T&D
Quick facts: Electricity is sold under a 10yr contract to Aptransco. The plant cost €7.5mn and was financed through a consortium of four Indian banks including Andhra Bank, Corporation Bank, Sindh Bank and State Bank of India.

Thoothukkudi
Location: Tamil Nadu
Operator: Ind-Barath Energies Ltd
Configuration: 1 X 20 MW
Operation: 2006
Fuel: biomass
Boiler supplier: Walchandnagar
T/G supplier: Hangzhou
Quick facts: This is India's first biomass power plant with advanced steam conditions of 105 ATA/525C. The main fuel is Juliflora supplemented with pulse stalk, cotton stalk, cane trash, and coconut shells with a requirement of about 1.50 lakh tpa. Commercial operation was in May 2006 and the plant is running at 75% PLF. All output is sold to Tamil Nadu Electricity Board (TNEB) under a 15yr PPA. The project cost Rs 71.91 crore. Ireda Ltd and other banks extended a term loan of Rs 50.34 crore and MNRE provided an interest subsidy of Rs 1.83 crore. The air-cooled condenser system came from China.