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State-of-the-art of biomass gasification for electricity generation

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Gasification of biomass as primary conversion technology for the generation of electricity using different prime movers has presented serious difficulties in its implementation practice in the past. The paper presents an assessment of the state of the art of the various possible biomass conversion path into electricity including gasification as a primary stage, and their limitations. The most widespread gas cleaning trains characteristics and their results in relation to the quality of gas are shown. The results of some success stories are discussed. It is presented at the historical development of biomass gasification research at the NEST research group at the Federal University of Itajubá in Brazil.

Biography

Electo Eduardo Silva Lora has a Research Productivity Grant from the Brazilian National Research Council. He graduated in Thermal Power Plants by the Polytechnic University of Odessa in 1981 and has a PhD in Steam Generators and Reactors Design from the Polytechnic University of St. Petersburg, Russia (1988). In 2014, he made a stage of Visiting Professor at Washington State University with a Fulbright/CAPES Visiting Scholar grant. He is currently Full Professor at the Federal University of Itajubá and Coordinator of the NEST Research Group. He has published 80 journal articles, 13 books and supervised 17 Doctoral and 47 Master's thesis.

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