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Biomass cogeneration with green coconut husk: An analysis of efficiency energy solutions

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The potential identification for use the residue from the green coconut husk for Electricity Generation, including how to storage and collection, must consider a process with efficiency energy solutions. This paper presents an analysis that makes it possible to identify the needs in efficiency energy solutions, to enable the power cogeneration with biomass from the green coconut husk. Initially presents an analysis the composition and characteristics of green coconut husk fiber. We conclude that the green coconut husk fibers have median values of cellulose and high values of lignin, especially when compared with other vegetable fibers. Regarding the mechanical properties, elongation, tensile strength and modulus of elasticity, It is proposed to conduct a more detailed analysis of the fiber characteristics such as age; cellulose type; relationship between cellulose, hemi-cellulose and lignin, among others to determine its use in composite, It is this analysis one of the main fields for technology-based innovation in Brazil, both for the design of the analysis as well as for application of the expected results. Another analysis presented discusses the beneficiation steps of green coconut husk to obtain fiber and powder. We conclude that in several points of the process it is necessary to develop means for treatments and application of waste arising and improvements in production performance, such as a temperature control system, which automatically activates the fuel supply for the process, where the greatest of the consumed electricity is provided by a thermodynamic process that takes advantage the temperature of the exhaust gases.

Biography

Hermes José Loschi holds a BSc in Control and Automation Engineering from Paulista University. He has undergone several Post-graduate studies, focused on wireless network, smart grid, broadcasting, photovoltaic systems applications, energy, biomass and solar tracking. He has published more than 12 papers in reputed journals and has been serving as Editorial Board Member and reviewer of some academic journals and research centers.

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