

Comparison of Relative Energy Effectiveness of Natural Heating and Cooling Means Compared with Micro-CHP System Operated with Bio-Mass Fuels in Wood Residences for the Southeastern US

SCH Proposal 4

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The scope of this proposed project will be to evaluate the relative effectiveness of a micro-CHP unit run on bio-fuels with both passive energy and conventional mechanical system in residential setting. The particular outcomes of this project are the relative effectiveness of natural energy means compared with micro-CHP system operated with bio-mass fuels. The reductions will be measured as the percentage reduction in total energy costs and as the particular ability of the respective system to maintain a MC 20% or below in all wood and wood products.

PROPOSAL



The MSU Southern Climatic Housing Research Team is a collaborative effort involving Architecture, Civil Engineering, Electrical Engineering, Forest Products, Landscape Architecture, and Mechanical Engineering. The MSU Southern Climatic Housing Research Team is affiliated with the Coalition for Advanced Wood Structures (CAWS) as a partnership with the USDA Forest Service, Forest Products Laboratory in Madison, Wisconsin. CAWS is a partnership between universities, industry and government to advance research for wood structures related to residential, non-residential and transportation uses.

