Indian Journal of Ecology (2019) 46(3): 672-676

Manuscript Number: 2899
NAAS Rating: 4.96

Assessment of Energy Potential of Muskmelon Crop for Power Generation

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Abstract: The present study has focused on *Cucumis melo* crop for biomass power generation. The maximum agri-residues of 391.1 tons ha^{-1} were available in the district of Kapurthala and the minimum for Moga i.e. with the power potential of 0.1615 MW and 0.1635 MW respectively. The calorific value increased after the grinding process, leading to an increase in the overall potential and efficiency of the fuel. The maximum increase in the calorific value of root after grinding was because of less dust particles, less ash and more combustion. Hence, grinding is the better option to increase the energy utilization of the crop.

Keywords**:** Biomass, Energy, Potential, Muskmelon