

Abdelhady, S., Borello, D., Shaban, A., & Rispoli, F. (2014). **Viability Study of Biomass Power Plant Fired with Rice Straw in Egypt**. Energy Procedia, 2014, vol. 61, pp. 211-215.

ABSTRACT

This paper investigates the potential of rice straw for producing energy in Egypt. It is estimated that about 3.1 million tons/year of rice straw are disposed by burning directly in the open field causing environmental problems. The present study was undertaken to assess the performance of rice straw power plant to specify the amount of the power, and GHG mitigation relative to the disposal rice-straw in energy production. The results indicate that rice straw can provide an annual net electric energy output of 2,447 GWh/year. The plant can reduce CO₂ emissions of (1.2 M ton CO₂/year).