

BIOMASS RESOURCE ASSESSMENT AND POTENTIAL IN INDIA

NASIR UL RASHEED RATHER¹ & SHEEN MOSES²

¹Doctorate in Renewable Energy, SHUATS, Allahabad, Uttar Pradesh, India.

²Associate Professor, Department of Renewable Energy Engineering, SHUATS, Allahabad, Uttar Pradesh, India.

ABSTRACT

The present study has been taken to access biomass potential in India and its resource assessment. Biomass energy through hybridization, can prove to be a boon to India. Uttar Pradesh has generated highest cumulative biomass based gasifiers and cogeneration units. The rusk husk and sugarcane-based agro-residues undergo biomass gasification and more than 3000 MWe is estimated as biomass power potential in Uttar Pradesh only. States like Tamil Nadu, Maharashtra, Andhra Pradesh and Chhattisgarh have also developed more than 1500 MWe of biomass -based power alone. The state of Jammu and Kashmir has the best potential of biomass in forest residues and horticultural crops. Through innovative business models we can evolve a robust organized biomass market by motivating rural entrepreneurs to take up the responsibility of supplying biomass to processing facilities.

KEYWORDS: Biomass Potential, Cumulative Biomass & Biomass Market

Received: Dec 06, 2017; **Accepted:** Dec 26, 2017; **Published:** Jan 13, 2018; **Paper Id.:** IJCSEIERDFEB20182