

5TH WORLD BIOENERGY CONGRESS

April 15-16, 2019 | Tokyo, Japan

Managing uncertainties in biomass supply chain management: Case study from India

Vikas Gupta

Hindustan Petroleum Corporation Limited, India

In India, biomass is abundant renewable energy source available in terms of about 500 Million Metric Tonnes (MMT) gross agricultural residues annually with surplus of 120-150 MMT for bioenergy production. India has proposed to setup 12 Bio-ethanol refineries each of capacity 30 million litres per annum PAN India so as to meet the 10% ethanol blending target by 2022, to reduce import dependence of fossil fuels by 10% from current levels by year 2022. Each bio-refinery would need approx. 0.12-0.18 MMT per annum of biomass. In India, biomass is abundant renewable energy source available in terms of about 686 MT gross agricultural residues annually with surplus of 234 MT for bioenergy production. India has proposed to setup 12 Bio-ethanol refineries each of capacity 30 million litres per annum PAN India so as to meet the 10% ethanol blending target

by 2022, to reduce import dependence of fossil fuels by 10% from current levels by year 2022. These bio-refinery would need approx. 120-140 MT per annum of multiple type of biomass. Handling such huge quantum of biomass is itself a challenge and hence biomass assessment and supply chain management is the key feature/tool for the commercialization of bio refinery. Supply Chain Management of Biomass: Characteristic of biomass supply chain is typically comprised of some distinct processes as harvesting, collection, transportation, pretreatment, storage and end use, which is crucial for success of bioenergy production. This paper aims to present framework for the multi-biomass supply chain management with various tools/dimensions to maximize the utilization capacity with minimizing the inputs

Biography

Vikas Gupta is Deputy General Manager (Technical & Sustainability- Biofuels)- Biofuels-Second generation Ethanol bio refinery from lignocellulosic feedstock. Setting up of 4 number of biorefineries totalling 120 million litres capacity per annum. He is doing Technology selection, Design, Execution and Commissioning of biorefineries and Life Cycle Analysis & Sustainability of Biorefineries. He is also Member for formulating policy on high value added products for Biorefineries.

vgupta@hpcl.in

Notes: