

Biomass Assessment

Scope Of Work

Feasibility Assessment of project

Biomass
Availability

Technical
Viability

Financial
Viability

Risk
Assesment

Feedstock/Biomass Availability

- Biomass Types, Specifications, and Technical Parameters for Power Plant within a 50 km Catchment Area
- Seasonality of Crops and Its Impact on Biomass Availability
- Storage Options for Biomass/Pellets and Their Shelf Life, Including Stacking, Packing, and Dressing Additional Factors Affecting the Availability of Biomass Feedstock and Pellets
- Evaluation of suitable logistics modes (Trucks/Trolleys etc.) keeping in mind the plant location, Stock points and estimated volume requirements; cost effectiveness, throughput capability, and associated challenges of such options
- Safety Practices Required During the Storage, Transportation, and Handling of Biomass and Pellets

Site Selection

- Choosing the right physical location and site for a biomass pellet plant is crucial for its operational efficiency, cost-effectiveness, and overall success.



Technical Viability

- Identification of Suitable and Proven Technology for Pellet Manufacturing
- Evaluating the Option of Setting Up a Briquetting or Pelletization Plant Near the Biomass Source or Plant Vicinity
- Comparison of Biomass Pellet Quality for Each Option
- Based on the available raw materials, it is necessary to determine the appropriate process flow for Pelletization



Financial Viability

- Cost of biomass feedstock delivered to the manufacturing plant, including breakdown, for different sourcing and transportation options
- Estimated expenses for establishing a Pelletization plant, maximizing use of available/preferred resources
- Costs associated with project setup, encompassing equipment acquisition, infrastructure development, and operational expenditures
- Analysis of cost-effectiveness and challenges related to these investment options

Risk Assessment

- Risk Identification and Mitigation Strategies



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