

Proposal for Consulting Services

for Project Development of Biomass Pellet(Non – Torrefied & Torrefied) Production Facilities

Executive Summary

This proposal outlines the consulting services offered for the development of biomass pellet production facilities. Our consulting services aim to provide expert guidance and support throughout the project lifecycle, ensuring efficiency, sustainability, and profitability. The scope of our consulting services includes feasibility studies, design and engineering advisory, procurement advisory, project management support, and training.

Project Objectives

- Provide expert consulting services to support the establishment of biomass pellet (Non – Torrefied & Torrefied) production facilities.
- Ensure that the project meets environmental and regulatory standards.
- Optimize production efficiency and cost-effectiveness through expert advice.
- Offer comprehensive training and support to operational staff.

Consulting Services Scope of work for Non – Torrefied Pellets

1. Feasibility Study

- Conduct market analysis and feasibility studies.
- Evaluate potential sites for optimal location.
- Assess environmental impact and sustainability.

2. Design and Engineering Advisory

- Provide guidance on detailed engineering designs.
- Advise on plant layout and machinery integration.
- Recommend advanced technology for optimal production.

3. Procurement Advisory

- Offer advice on sourcing high-quality machinery and equipment.
- Provide guidance on logistics and supply chain management.
- Recommend suppliers and vendors for raw materials and equipment.

4. Project Management Support

- Oversee project planning and scheduling.
- Monitor project progress and ensure adherence to timelines.
- Implement quality control measures throughout the project.

5. Training and Support

- Develop training programs for operational staff.
- Create operation manuals and maintenance guides.
- Provide ongoing technical support and advice.

Consulting Services Scope of work for Torrefaction Technology

- Conduct market analysis and feasibility studies for torrefaction projects, considering potential revenue from torrefied biomass and by-products.
- Assess the environmental impact, including emissions and carbon offset potential, and examine opportunities for carbon credits and other sustainability incentives.

Design and Engineering Advisory

- Provide guidance on detailed engineering designs, focusing on torrefaction technology, process integration, and energy recovery from syngas.
- Advise on plant layout and machinery integration, ensuring optimal handling of by-products like biochar, syngas, and VOCs to maximize operational efficiency.
- Recommend advanced technologies to optimize production, including innovations that capture, utilize, and monetize by-products (biochar, VOCs, syngas).

Procurement Advisory

- Offer advice on sourcing high-quality machinery and equipment specific to torrefaction technology, ensuring the plant can handle both torrefied biomass and by-products.
- Recommend suppliers and vendors for raw materials, equipment, and technologies related to both primary and secondary products (biochar, syngas).

Project Management Support

- Oversee project planning and scheduling to ensure that the torrefaction plant can efficiently produce both torrefied biomass and by-products.
- Monitor project progress and ensure adherence to timelines, with an emphasis on integrating by-product handling systems for biochar, VOCs, and syngas.
- Implement quality control measures throughout the project to ensure that both the main product (torrefied biomass) and by-products (biochar, VOCs) meet market standards and can generate additional revenue streams.

Project Timeline

- **Days 1-30 : Feasibility Study**
- **Days 31-60: Design and Engineering Advisory**
- **Days 61 -90: Procurement Advisory**
- **Days 91 -180 : Project Management Support**
- **Days 180-210 Training and Support**

Risk Management

- **Identify potential risks early in the project.**
- **Develop mitigation strategies for each identified risk.**
- **Implement a robust monitoring and reporting system.**

Our consulting services for biomass pellet production facilities are designed to provide the expertise and support needed to ensure a high-performing, sustainable, and profitable operation. We are committed to delivering comprehensive consulting services, from initial planning to project completion, ensuring the