



Sustainable Development Goals (SDGs) Contribution of the Project

Project Overview

The proposed project involves the production and supply of approximately 10,200 tonnes of biomass briquettes annually. These briquettes are designed to replace conventional fossil fuels such as coal, furnace oil, and firewood, which are commonly used by industries and institutions for thermal energy applications.

By substituting fossil fuels with clean, renewable biomass briquettes, the project aims to:

- Promote sustainable and renewable energy adoption.
- Reduce reliance on carbon-intensive fuels.
- Support environmental, social, and economic development in alignment with the United Nations Sustainable Development Goals (SDGs).

SDG Contributions and Impacts

SDG 13 – Climate Action (Mandatory)

Impact: Amount of GHG emissions avoided or sequestered.

- **Estimated Annual Average Impact:** 13,652 GS VERs (tonnes of CO₂e avoided).
 - **Explanation:** The displacement of fossil fuels with biomass briquettes significantly reduces greenhouse gas emissions, contributing directly to climate change mitigation.
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SDG 12 – Responsible Consumption & Production

Impact: Quantity of material recycled.

- **Estimated Annual Average Impact:** 10,200 tonnes.
 - **Explanation:** The project utilizes agricultural residues and other biomass waste that would otherwise be discarded or burned, promoting circular economy principles and sustainable resource use.
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SDG 8 – Decent Work and Economic Growth

Impact: Job creation and employment quality.

- **Estimated Annual Average Impact:** 10 Full-Time jobs.



- **Explanation:** The project generates employment opportunities in manufacturing, logistics, and operations, with fair and safe working conditions, contributing to sustainable economic growth in the local community.
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SDG 7 – Affordable and Clean Energy

Impact: Renewable energy share in total final energy consumption.

- **Estimated Annual Average Impact: 153,000 GJ per year.**
 - **Explanation:** Biomass briquettes provide a reliable, renewable, and affordable alternative to fossil fuels, increasing the share of clean energy in industrial energy consumption.
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SDG 5 – Gender Equality

Impact: Proportion of women in managerial positions.

- **Estimated Annual Average Impact: 50%** of managerial positions held by women (FTE basis).
 - **Explanation:** The project promotes gender-inclusive hiring and leadership development, empowering women in managerial and decision-making roles.
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SDG 3 – Good Health & Well-Being

Impact: Reduced air pollution improves health.

- **Estimated Annual Average Impact: 13,652 tonnes of CO₂e** worth of air pollutant reduction.
 - **Explanation:** By replacing fossil fuels, the project reduces particulate matter and other harmful pollutants, improving air quality and public health for workers and surrounding communities.
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Conclusion

Through these measurable impacts, the project not only supports climate change mitigation and environmental sustainability but also delivers tangible social and economic benefits. By addressing multiple SDGs, it contributes to building a resilient, inclusive, and sustainable future for the local community and beyond.