

Analisis Sustainable Development Goals (SDGs) 12 Terhadap Kinerja Lingkungan PT Pupuk Indonesia

Dewa Wahyu Aryanta¹, I. B. Ketut Bayangkara²

^{1,2}. Faculty of Economics and Business, Universitas 17 Agustus 1945 Surabaya, Indonesia

E-mail: dewaarya240@gmail.com

Received: April, 2025; Accepted: April, 2025; Published: June, 2025

Permalink/DOI:

Abstract

This study analyze the implementation of Sustainable Development Goal (SDGs) 12 responsible consumption and production on the environmental performance of PT Pupuk Indonesia (Persero). Using a descriptive qualitative approach and thematic analysis, data were collected from sustainability reports and official company documents. The findings reveal that the company has incorporated SDGs 12 principles into its policies and operations through ISO 14001 certification, Green and Gold PROPER ratings, a decarbonization strategy toward Net Zero Emissions by 2060, and 3R-based waste management programs. The company also applies GRI-based sustainability reporting to ensure transparency and good governance. The study concludes that PT Pupuk Indonesia has taken concrete and progressive steps in supporting SDGs 12, although there is still room to enhance sustainable strategies in the future.

Keywords: SDGs 12, sustainable consumption and production, PT Pupuk Indonesia, environmental performance, sustainability reporting

INTRODUCTION

Sustainable development has become a global agenda promoted by the United Nations through the Sustainable Development Goals (SDGs), consisting of 17 main objectives. One crucial goal is SDG 12: Responsible Consumption and Production. This goal emphasizes the importance of efficient use of natural resources, waste reduction, and the adoption of sustainable production practices to minimize negative environmental impacts. As a state-owned holding company in the fertilizer and petrochemical industry, PT Pupuk Indonesia (Persero) plays a strategic role in supporting national food security while addressing environmental sustainability challenges. In its energy and chemical-intensive production processes, the company is required to not only pursue operational efficiency but also consider environmental and social aspects in accordance with the principles of SDG 12.

Based on this background, this research aims to provide an overview of SDG 12 implementation on environmental performance at PT Pupuk Indonesia. Using a descriptive analysis approach, this study examines the extent to which the company has integrated responsible consumption and production principles into its policies, programs, and operational practices. The results of this research are expected to

provide deeper understanding of the fertilizer industry's contribution to sustainable development and serve as a basis for future improvement recommendations.

METHODS

This research uses a descriptive qualitative approach to examine the implementation of the 12th Sustainable Development Goal (SDG) concerning responsible consumption and production at PT Pupuk Indonesia (Persero). Data was obtained through document analysis, primarily the company's officially available sustainability reports. This method was chosen because it provides authentic information and reflects the company's official position. Data analysis was conducted thematically by identifying main themes related to SDG 12 through coding processes and in-depth reading. Validity was strengthened through cross-document verification to ensure data consistency and interpretation accuracy.

RESULTS AND DISCUSSION

Based on the analysis of PT Pupuk Indonesia's SDG 12 reports and officially published sustainability reports, the company has implemented various strategic and operational initiatives to support responsible consumption and production. Key findings reflect the company's active engagement with sustainability principles aligned with SDG 12 indicators, including:

Environmental Management and Certifications

PT Pupuk Indonesia demonstrates a strong commitment to sustainable environmental management, evidenced by ISO 14001 certifications across all subsidiaries—including Petrokimia Gresik, Pupuk Kujang, Pupuk Kalimantan Timur, Pupuk Iskandar Muda, Pupuk Sriwidjaja Palembang, Rekayasa Industri, and Pupuk Indonesia Utilitas. These certifications confirm compliance with international Environmental Management System (EMS) standards. Additionally, the company consistently achieved PROPER Green and Gold ratings from the Ministry of Environment and Forestry (KLHK) between 2020–2023, reflecting not only regulatory compliance but also beyond-compliance environmental efforts.

Energy Efficiency and Emission Reduction

To support Indonesia's Net Zero Emissions (NZE) 2060 target, PT Pupuk Indonesia developed a decarbonization roadmap based on a 2010 baseline. The company aims to reduce emission intensity by 91.6% (to 0.083 ton CO₂e per ton urea) by 2060. As part of this strategy, the Director of Portfolio and Business Development has Key Performance Indicators (KPIs) including:

- Carbon emission reductions of 80,000 tons CO₂e (2023) and 100,000 tons CO₂e (2024).
- Achieving industry-average or mid-tier ESG ratings.

Waste Management and 3R Programs

PT Pupuk Indonesia enforces strict waste management systems, ensuring treated wastewater meets regulatory standards before discharge. Solid waste is processed by licensed third-party providers, and waste-handling personnel hold competency certifications. The company actively promotes sustainability awareness through:

- The "Olah Sampah dari Rumah" (Home Waste Processing) program (2023), educating employees and stakeholders on 3R (Reduce, Reuse, Recycle) principles.
- A Sustainability Workshop (July 4, 2024) at Kertabumi Recycling Center, deepening participants' understanding of sustainable waste management.

Transparency and Sustainability Reporting

PT Pupuk Indonesia publishes annual Sustainability Reports (aligned with GRI standards and OJK regulations) on its official website, reinforcing transparency. The company received the 2023 Katadata Corporate Sustainability Award (KCSA) as Governance Champion (Chemical Sector) for:

- High-quality, publicly accessible sustainability reporting.
- Strong Good Corporate Governance (GCG) implementation, emphasizing transparency, accountability, responsibility, independence, and fairness.

CONCLUSION

Analysis of PT Pupuk Indonesia's sustainability reports and corporate publications confirms its strong commitment to SDG 12 (Responsible Consumption and Production). Key achievements include:

- ISO 14001 certifications across all subsidiaries and PROPER Green/Gold ratings, demonstrating compliance with national/international environmental standards.
- A decarbonization roadmap toward Net Zero Emissions 2060, with clear emission-reduction KPIs.
- 3R-based waste management and public education initiatives like "*Olah Sampah dari Rumah*."
- GRI-aligned sustainability reporting and recognition for excellent governance (GCG).

However, enhancing green technology innovation and cross-functional synergies remain critical to driving a more sustainable industrial transformation.

REFERENCE

Indonesia, P. P. (2020). Transformasi Demi Menyuksekan Kedaulatan Pangan Nasional. *Sustainability Report*, 254.

Indonesia, P. P. (2021). Mengembangkan Keberlanjutan Demi Ketahanan Pangan. *Sustainability Report*, 248.

Indonesia, P. P. (2022). Transformasi Industri Lebih Hijau dan Bersih. *Sustainability Report*, 246.

Indonesia, P. P. (2024). Membangun Masa Depan Berkelanjutan. *Sustainability Report*, 277.