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## SDGs 9: The Role of PT Adhi Karya in Sustainable Infrastructure Development

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### Abstract

Sustainable development is the initial step in improving community welfare. This step will help communities break free from the cycle of poverty. One of the sustainable development programs is the Sustainable Development Goals (SDGs). The SDGs consist of 17 pillars that serve as principles for achieving community prosperity. One of them is the 9th principle, which discusses the industry, innovation, and infrastructure sector. This 9th pillar will enhance services across various sectors of community life, thereby contributing to the realization of a prosperous society. This analysis uses a qualitative descriptive method, in which the researcher examines articles and journals from previous studies. The object of this research is PT Adhi Karya (Persero) Tbk, as the company operates in the infrastructure sector and has contributed significantly to the development of state-owned facilities to improve community welfare.

**Keywords:** *Sustainable Development, Sustainable Development Goals (SDGs), Community Welfare*

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### INTRODUCTION

Sustainable development can be defined as humanity's effort to improve quality of life while striving not to exceed the capacity of the ecosystems that support it. In principle, the concept of sustainable development states that the development of the current generation should not compromise future generations by forcing them to sacrifice their social welfare meaning they should not have lower economic, social (including health and education), and environmental well-being than the present generation (Suparmoko, 2020). Sustainable development is a principle of human advancement that simultaneously preserves natural systems, recognizing that society depends on nature and its resources (Prabu & Drajat, 2022). The objectives of sustainable development are outlined in the Sustainable Development Goals (SDGs), which consist of seventeen goals. According to the United Nations, the SDGs are a global collective plan to end extreme poverty, reduce inequality, and protect the planet by 2030. The SDGs are a core part of the 2030 Agenda for Sustainable Development, which aims to promote a more sustainable future. This agenda is designed to address global

challenges such as poverty, inequality, climate change, environmental degradation, and justice (Prabu & Drajat, 2024). This article will focus on SDG 9: Industry, Innovation, and Infrastructure, which emphasizes building resilient infrastructure, promoting inclusive and sustainable industrialization, and fostering innovation.

PT Adhi Karya (Persero) Tbk is one of the companies actively contributing to the nation's Sustainable Development through infrastructure development, as outlined in SDG 9 (Industry, Innovation, and Infrastructure). As a leading construction company in Indonesia, PT Adhi Karya (Persero) Tbk is committed to delivering projects that not only meet national infrastructure needs but also generate sustainable impacts for communities and the environment (PT Adhi Karya (Persero) Tbk, 2024). By integrating sustainability principles into every phase of construction, PT Adhi Karya (Persero) Tbk ensures that all its projects align with Environmental, Social, and Governance (ESG) standards. Through this approach, the company strives to create long-term value for stakeholders while promoting inclusive economic growth and environmental stewardship (PT Adhi Karya (Persero) Tbk, 2024). In its 2024 Sustainability Report, PT Adhi Karya (Persero) Tbk identified key challenges as a leading construction and infrastructure firm, including enhancing energy efficiency, managing construction waste, implementing circular economy principles, complying with increasingly stringent environmental regulations. To address these challenges, PT Adhi Karya (Persero) Tbk has implemented policies focused on green technology innovation, operational efficiency improvement, strengthening sustainability governance. These measures ensure a resilient and responsible business model that aligns with global sustainability standards (PT Adhi Karya (Persero) Tbk, 2024).

## **METHOD**

This study employs a qualitative descriptive method by analyzing and examining relevant articles and journals concerning PT Adhi Karya (Persero) Tbk. The research focuses on the company's role in sustainable development, particularly in achieving SDG 9 (Industry, Innovation, and Infrastructure), which aligns with PT Adhi Karya core business in infrastructure development. The primary data sources for this research include PT Adhi Karya (Persero) Tbk 2024 Sustainability Report and relevant academic journals and articles related to the company. The data collection method involves document analysis and literature review of journals and articles pertaining to PT Adhi Karya (Persero) Tbk.

## **RESULTS AND DISCUSSION**

According to PT Adhi Karya (Persero) Tbk 2024 Sustainability Report, the company has participated in various infrastructure projects across Indonesia. This involvement has significantly contributed to the company's economic performance in 2024. Among the projects undertaken by PT Adhi Karya (Persero) Tbk are the construction of the National Football Team Training Center using volumetric modular systems (an innovative construction technology implemented for the first time in Indonesia), the IKN Toll Road Package 1B (Sepinggan

Airport-Balsam Toll segment), 22 Worker Housing Towers, IKN Toll Road Section 3A (KarangJoang-KKT Kariangau), Balang Island Bridge fenders and Balang Island Bridge II, Sepaku Intake Infrastructure and Transmission Pipeline Network, as well as Land Development for the Core Government Center Area (KIPP) Zone 1B. Beyond these projects, PT Adhi Karya (Persero) Tbk has implemented green construction policies focused on resource efficiency and carbon footprint reduction. The company has begun integrating eco-friendly materials, recycling-based waste management systems, and energy-efficient technologies in its projects.

PT Adhi Karya (Persero) Tbk has implemented digitalization and innovation policies in its operations. To support these policies, the company consistently utilizes Building Information Modeling (BIM) technology to enhance efficiency and reduce material waste. Additionally, its business diversification strategy is strengthened by exploring opportunities in green infrastructure and renewable energy sectors. Through these policies, PT Adhi Karya (Persero) Tbk not only adapts to sustainability challenges but also ensures its competitiveness amid the construction industry's transformation toward ESG (Environmental, Social, and Governance) principles. PT Adhi Karya (Persero) Tbk conducts Corporate Social Responsibility (CSR) activities, with funds allocated to various social assistance programs, including education and training initiatives, public infrastructure development, provision of worship facilities, and disaster relief aid. Through comprehensive mapping, the company ensures that its TJSL (Social and Environmental Responsibility) and CSR programs implemented throughout 2024 align with the sustainable development agenda. Evaluation results demonstrate that these programs have contributed to achieving 12 out of the 17 Sustainable Development Goals (SDGs), reinforcing their positive impact on communities and the environment.

## **CONCLUSION**

As a leading construction and infrastructure company in Indonesia, PT Adhi Karya (Persero) Tbk strives to fulfill its role in achieving SDG 9 by actively implementing the ninth Sustainable Development Goal (SDG), which focuses on industry, innovation, and infrastructure. PT Adhi Karya (Persero) Tbk consistently develops infrastructure that supports the improvement of services across various sectors of community life. This effort is inseparable from the numerous benefits derived from such infrastructure availability. The provision of infrastructure such as roads or bridges provides access to previously isolated communities. Meanwhile, the availability of schools enhances education quality, the construction of healthcare facilities improves public health standards, and the establishment of places of worship enables religious adherents to perform their rituals devoutly. According to the literature review conducted in this research, PT Adhi Karya (Persero) Tbk has played an active role and contributed significantly to national development projects, as well as in realizing community welfare through infrastructure development of facilities that benefit society.

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