

ABSTRACT

The increasing dependence on electricity has led to environmental problems such as air pollution and climate change. In Indonesia, the electrical energy sector is responsible for 14% of carbon emissions, which hinders the achievement of sustainable development goals (SDGs). PT Puncak Jaya Power implemented a waste management program to reduce harmful emissions and support the SDGs, but there is still room for improvement in integrating the SDGs into the company's operations. Green supply chain management (GSCM), which incorporates environmental concerns into supply chain management, is a strategy that can be used to address these environmental concerns.

This research uses several theories to support the analysis, namely, green supply chain management, and sustainable development goals. Green supply chain management is an innovation in the supply chain that considers environmental aspects at every stage. This includes practices such as eco-design, green purchasing, internal environmental management, customer cooperation with environmental concerns, and investment recovery practices. Furthermore, the sustainable development goals, or global goals, present the most comprehensive plan to address some of the world's most pressing challenges. The integration of green supply chain management in the context of sustainable development goals provides a framework to analyze how sustainable supply chain management can contribute to the achievement of these global goals..

This study uses quantitative research methods, data obtained from survey methods by conducting online questionnaires using 125 respondents of PT Puncak Jaya Power employees from the highland operation, support services, technical services and lowland operation departments. This study uses structural equation modeling (SEM) as a technique, using SmartPLS 3.2.9 software with measurement model and hypothesis testing using bootstrapping technique.

Based on the results of the analysis techniques that have been carried out using SmartPLS 3.2.9 software, the findings in this study suggest that all practices of green supply chain management have a positive and significant effect on environmental practices except green purchasing and cooperation with customers. In addition, all green supply chain management practices have a positive and significant effect on community practices except internal environmental management and investment recovery.

Based on the research that has been done, recommendations that can be made for companies are to pay attention and optimize investment recovery and green purchasing because they affect environmental practices and community practices from sustainable development goals at PT Puncak Jaya Power. The findings of this study are expected to provide a new perspective on PT Puncak Jaya Power.

Keywords: *Green Supply Chain Management, Sustainable Development Goals, Energy Sector.*