



Sustainable Development Goals under the Role of Smart Modeling and Predictive Analysis in Measuring the Hybrid Product Cost

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ABSTRACT

To enhance the theoretical framework with practical applications, understanding the use of smart modeling (SM) and predictive analysis (PA) in measuring hybrid product costs, improving the company's competitive position in the business environment, and enhancing the achievement of Sustainable Development Goals (SDGs). The study problem was identified through the inefficiency of calculating and measuring product costs using the traditional system, as observed in the study sample company. This was reflected in the difficulty of improving the product to meet customers' needs and desires and achieve the SDGs. The study employs a descriptive-analytical approach to the practical application aspect, based on the financial and cost data from the study sample company. The application of intelligent computing and predictive analytics in the manufacture of hybrid products helps reduce costs and improve productivity. It has a role in achieving SDGs and enhancing product sustainability. To the researchers' knowledge, this study is the first to combine SM, PA, Hybrid Product Cost, and SDGs within a single framework. The scientific and practical value lies in supporting companies with smart tools for planning, improvement, and achieving environmental and social goals.

Keywords: Heater Product; Sustainable Development Goals (7,8,9,12); Traditional System.