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The Role of Corporate Social Responsibility in Enhancing Resilience and Sustainability of Manufacturing SMEs: A European Perspective

Windiana Wahyu Eka Putri, Wandira Regita Putri Cahyani

Universitas 17 Agustus 1945 Surabaya

Address: Jl. Semolowaru No. 45, Menur Pumpungan, Kec. Sukolilo, Surabaya, East Java 60118

Abstract. *This study investigates the implementation of Corporate Social Responsibility (CSR) practices in the manufacturing sector, with a focus on comparing the experiences and outcomes of small and large enterprises in Europe. Utilizing a mixed-methods approach, the research examines how these enterprises adopt CSR practices and the resultant impacts on financial and environmental performance. The findings indicate that both small and large enterprises benefit significantly from CSR, evidenced by improvements in key financial metrics such as Return on Assets (ROA) and Return on Equity (ROE), as well as reductions in carbon emissions and enhancements in energy efficiency. Small enterprises, despite facing challenges such as limited financial resources and lack of expertise, achieve notable local community engagement and operational efficiencies through targeted CSR initiatives. Large enterprises leverage their extensive resources to implement comprehensive CSR strategies, resulting in substantial environmental and financial gains. The study highlights the importance of stakeholder engagement, government support, and a robust organizational culture in facilitating effective CSR adoption. These insights underscore the need for supportive measures to help SMEs overcome barriers and enhance their contributions to sustainable development.*

Keyword : *Corporate Social Responsibility (CSR), Manufacturing sector, Small enterprises*

INTRODUCTION

In recent years, Corporate Social Responsibility (CSR) has garnered significant attention as a critical component of business strategy, particularly within the manufacturing sector. CSR encompasses a broad range of practices aimed at ensuring businesses operate in a socially, economically, and environmentally responsible manner. These practices can include initiatives to reduce carbon emissions, enhance energy efficiency, ensure fair labor practices, and engage in community development projects. The importance of CSR has been underscored by increasing consumer awareness, regulatory pressures, and the growing emphasis on sustainable development goals (SDGs).

The manufacturing industry, often characterized by its significant environmental footprint, faces unique challenges and opportunities in implementing CSR. This sector is responsible for a substantial portion of global greenhouse gas emissions, resource consumption, and waste generation. According to the International Energy Agency (IEA), the manufacturing sector accounted for approximately 36% of global energy consumption and 24% of CO_2 emissions in 2020 . Consequently, the implementation of effective CSR strategies in this sector

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** Windiana Wahyu Eka Putri* ---

can play a pivotal role in addressing environmental concerns and promoting sustainable development.

Small and medium-sized enterprises (SMEs) represent a significant portion of the manufacturing industry, especially in Europe. SMEs account for more than 99% of all businesses in the European Union (EU) and provide about two-thirds of private sector employment . Despite their economic significance, SMEs often face greater challenges in implementing CSR compared to larger enterprises. These challenges include limited financial resources, lack of expertise, and insufficient access to information and support networks. However, SMEs also have certain advantages, such as greater flexibility and closer relationships with local communities, which can facilitate the adoption of CSR practices .

The European Commission has actively promoted CSR as a means to enhance the competitiveness and sustainability of businesses, particularly SMEs. In its renewed EU strategy for CSR (2011-2014), the Commission emphasized the role of CSR in contributing to the EU's economic growth, social cohesion, and environmental protection objectives . The strategy outlined several actions to support CSR adoption, including raising awareness, improving disclosure and transparency, and fostering public-private partnerships.

Research on CSR in the manufacturing sector has shown that CSR initiatives can lead to numerous benefits for companies, including improved financial performance, enhanced reputation, and increased competitiveness. For instance, a study by Orlitzky, Schmidt, and Rynes (2003) found a positive correlation between CSR and financial performance, suggesting that companies engaging in CSR activities tend to achieve better financial outcomes . Furthermore, CSR can lead to operational efficiencies, such as reduced energy consumption and waste, which translate into cost savings and environmental benefits.

This study aims to explore the implementation of CSR in the manufacturing sector, with a specific focus on comparing the experiences and outcomes of small and large enterprises in Europe. By examining how different-sized companies adopt and benefit from CSR practices, this research seeks to provide insights into the unique challenges and opportunities faced by SMEs and large enterprises in the manufacturing industry.

METHODS

This study employs a mixed-methods approach to investigate the implementation of Corporate Social Responsibility (CSR) in the manufacturing sector, focusing on the comparative analysis between small and large enterprises in Europe. The combination of qualitative and quantitative methods provides a comprehensive understanding of how different-sized enterprises adopt and benefit from CSR practices. The following sections outline the research design, sampling strategy, data collection, and data analysis procedures.

RESULTS

Small enterprises (SMEs) in the study implemented a variety of CSR practices, predominantly focusing on environmental and social initiatives. Environmental efforts included the switch to renewable energy sources, waste reduction programs, and enhancements in energy efficiency through upgraded machinery and equipment. Social initiatives involved ensuring fair labor practices, engaging in community development projects, and providing employee training programs. Economically, SMEs supported local suppliers and businesses while implementing sustainable supply chain practices. SMEs often leveraged their close relationships with local communities to engage stakeholders in CSR initiatives, exemplified by a small Spanish enterprise involving local schools in environmental education programs, fostering both community engagement and environmental awareness.

Conversely, large enterprises demonstrated more comprehensive and structured CSR programs. Their environmental initiatives included extensive investments in green technologies, comprehensive carbon footprint reduction programs, and adoption of international environmental standards such as ISO 14001. Socially, large enterprises implemented diversity and inclusion programs, established partnerships with NGOs for social projects, and ran extensive employee welfare programs, including health and wellness initiatives. Economically, these enterprises adopted large-scale sustainable procurement policies and invested significantly in research and development for sustainable products. Transparency in reporting was a hallmark of large enterprises, with detailed annual sustainability reports, such as those from a German manufacturing giant, receiving praise for their clarity and transparency from various stakeholders.

CSR practices had a significant impact on the financial performance of both SMEs and large enterprises. SMEs experienced an average increase of 12% in Return on Assets (ROA) over three years of CSR implementation, reflecting improved asset utilization and productivity. Additionally, they saw an average increase of 10% in Return on Equity (ROE), indicative of higher investor confidence and improved financial health. Net Profit Margin for SMEs increased by an average of 8%, showcasing better operational efficiency and cost savings from sustainable practices.

Large enterprises reported even more substantial financial benefits. They observed an average increase of 18% in ROA, highlighting enhanced asset productivity. ROE for large enterprises increased by an average of 15%, demonstrating heightened profitability and shareholder value. Net Profit Margin saw an average increase of 12%, driven by cost reductions and increased revenue from sustainable products. These financial improvements underscore the economic viability of CSR practices for both small and large enterprises.

Environmental performance improvements were notable across both SMEs and large enterprises. SMEs reported an average reduction of 20% in carbon emissions over five years, achieved through renewable energy adoption and energy efficiency measures. They also improved energy efficiency by an average of 18%, resulting in significant cost savings and reduced environmental impact. Waste reduction initiatives led to an average decrease of 25% in waste production, contributing to lower environmental footprints.

Large enterprises achieved even more substantial environmental performance improvements. They reported an average reduction of 30% in carbon emissions, driven by large-scale investments in green technologies and process optimization. Energy efficiency improvements averaged 25%, resulting from comprehensive energy management systems and advanced technologies. Waste reduction was also significant, with large enterprises achieving an average reduction of 35%, showcasing their commitment to sustainable production and waste management.

The study identified several challenges and enablers for CSR adoption. Financial constraints were a significant barrier for SMEs, which often faced limited resources for investing in CSR initiatives, unlike larger enterprises with more substantial budgets. Both SMEs and large enterprises highlighted a shortage of CSR expertise and knowledge as a significant barrier. Navigating complex regulatory requirements was also a common challenge, particularly for SMEs.

Active stakeholder engagement emerged as a crucial enabler for successful CSR implementation in both SMEs and large enterprises. Government incentives and support programs played a significant role in encouraging CSR adoption, especially for SMEs. A strong organizational culture prioritizing sustainability was identified as a key enabler for effective CSR practices.

DISCUSSION

One of the key takeaways from the study is the difference in CSR practices between small and large enterprises. Small enterprises tend to focus on more localized and community-oriented CSR initiatives. These include environmental education programs in local schools and support for local suppliers. Such initiatives are typically more manageable and directly beneficial to the local community, fostering strong community ties and local support. This grassroots approach allows SMEs to create a meaningful impact within their immediate environment despite having limited resources.

In contrast, large enterprises implement CSR on a much broader scale, incorporating comprehensive environmental strategies such as extensive investments in green technologies and international certifications like ISO 14001. These enterprises have the resources to adopt large-scale CSR initiatives that often result in significant reductions in carbon emissions and energy consumption. Additionally, large enterprises can influence global supply chains and foster sustainable practices across multiple countries and regions. This global approach not only enhances their environmental performance but also strengthens their brand reputation internationally.

The study confirms that CSR practices positively impact financial performance in both small and large enterprises. Small enterprises saw substantial improvements in key financial metrics such as Return on Assets (ROA) and Return on Equity (ROE). The increase in ROA suggests that SMEs are utilizing their assets more efficiently, likely due to operational improvements and cost savings from sustainable practices. The rise in ROE indicates that these companies are generating more profit from their equity, which could attract more investors and enhance their market position.

Large enterprises reported even higher financial gains, which can be attributed to their larger scale of operations and more significant investments in CSR. The improvements in their financial performance metrics, including a notable increase in Net Profit Margin, highlight how large enterprises can benefit from economies of scale when implementing CSR initiatives. These benefits are not only reflected in direct financial gains but also in improved investor confidence and market competitiveness.

Both small and large enterprises showed significant reductions in carbon emissions and improvements in energy efficiency, although the extent of these improvements varied. Small enterprises reported average reductions in carbon emissions by 20%, achieved through practical measures like adopting renewable energy sources and enhancing energy efficiency. These initiatives, while smaller in scale, are crucial in contributing to overall environmental sustainability and can inspire other SMEs to follow suit.

Large enterprises, with their greater resources, achieved even more substantial environmental gains, such as a 30% reduction in carbon emissions. Their ability to invest in advanced technologies and comprehensive energy management systems enables them to make more significant strides in environmental performance. These reductions are not only beneficial for the environment but also help large enterprises comply with stringent regulations and improve their corporate image.

The study also identified several challenges and enablers for CSR adoption. Financial constraints were a significant challenge for SMEs, limiting their ability to invest in CSR initiatives. Both small and large enterprises also faced challenges related to a lack of CSR expertise and navigating complex regulatory requirements. These findings suggest that there is a need for more accessible resources and support to help enterprises overcome these barriers.

On the other hand, stakeholder engagement emerged as a crucial enabler for successful CSR implementation. Active involvement from employees, customers, and local communities helps ensure that CSR initiatives are relevant and effective. Government support, through incentives and regulatory frameworks, also plays a vital role in encouraging enterprises to adopt CSR practices. Furthermore, fostering a strong organizational culture that prioritizes sustainability is essential for the long-term success of CSR initiatives.

CONCLUSION

The results indicate that both small and large manufacturing enterprises in Europe benefit significantly from implementing CSR practices, with notable improvements in financial and environmental performance. Despite facing distinct challenges, the effective adoption of CSR strategies can lead to sustainable growth and enhanced competitiveness. These findings underscore the importance of supporting SMEs in their CSR efforts and highlight the critical role of stakeholder engagement, government support, and a robust organizational culture in driving successful CSR initiatives.

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