Research on the Relationship between Operational Efficiency and ESG Performance: A New Perspective for Continued Growth

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Abstract: This paper summarizes the current research status on the relationship between enterprise operation efficiency and ESG (environmental, social and corporate governance) performance. Through literature review and analysis, it is found that enterprises' active attention to ESG factors can often promote the improvement of their operational efficiency. First, ESG measures such as optimizing environmental management, strengthening social responsibility fulfillment and improving corporate governance structure can help enterprises reduce production costs, improve the efficiency of resource utilization, and enhance market competitiveness. Second, companies with strong ESG performance often gain a higher level of market recognition and social trust, thus increasing their brand value and sales revenue. In addition, excellent ESG performance can also attract and retain excellent people, and improve employee satisfaction and productivity. However, it should be noted that not all studies were able to draw consistent conclusions, and some studies found a positive association between ESG performance and operational efficiency. Therefore, future research need to deeply explore the relationship between different factors to better understand and explain the impact of ESG performance on their operational efficiency and provide more effective strategic and practical suggestions for sustainable development.

1. Introduction

As the global community becomes increasingly aware of sustainable development, companies need to focus not only on their own economic performance, but also on their performance in environmental, social and corporate governance, namely ESG (environmental, social and corporate governance) performance. ESG performance not only affects the social image of corporate responsibility, but also directly or indirectly affects the business performance of enterprises. In this context, more and more studies begin to explore the relationship between corporate ESG performance and its operational efficiency. This paper aims to review and analyze the current research status on the relationship between enterprise operation efficiency and ESG performance.
First, this paper will review past research results to explore whether ESG factors can promote their operational efficiency. Secondly, this paper will analyze the theoretical basis and explanation mechanism of the relationship between ESG factors and operational efficiency in different studies, in order to deeply understand the correlation between the two. Finally, this paper will summarize the shortcomings of existing studies and give forward prospects and suggestions for future studies. Through the research of this paper, we hope to have a more comprehensive understanding of the impact of ESG performance on their operational efficiency, provide more effective strategic guidance and more practical advice, and promote sustainable development and long-term value creation.

2. Definition and measurement indicators of operational efficiency

Operation efficiency is an important part of the core competitiveness of an enterprise, which involves the performance level of an enterprise in production, management, resource allocation and other aspects. In short, operational efficiency can be understood as the output level that an enterprise can obtain at the same resource input, or the resource input required at the same output level. This means that improving operational efficiency can not only reduce the production cost of the enterprise, but also improve the production efficiency and enhance the market competitiveness of the enterprise, so as to achieve a higher level of economic growth. In practice, we often use multiple indicators to measure and evaluate operational efficiency. The first is the productivity index, which reflects the quantity or value of products produced by an enterprise at a unit of time or unit cost. High productivity means that companies can generate more output with less resources, thus improving efficiency. The second is the cost efficiency index, which measures the relationship between the cost paid by the enterprise in the production and business activities and the output obtained. Low cost means that companies need less resources to achieve the same output, thus increasing efficiency. In addition, the asset utilization efficiency index is also an important measure, which evaluates the effective use of assets by enterprises. Improving asset turnover rate and return on assets can effectively improve operational efficiency. However, the improvement of operational efficiency is not only the pursuit of reducing the quantity and cost of production, but also the focus on quality and customer satisfaction. Therefore, quality and customer satisfaction indicators are also one of the important indicators to evaluate operational efficiency. High-quality products and services can increase customer satisfaction and loyalty, thus promoting market share growth and achieving a higher level of operational efficiency. For enterprises, improving operational efficiency is not only to improve productivity, but also the key to improve competitiveness and sustainable development ability. Therefore, enterprises need to continuously optimize the production process, improve production efficiency and reduce costs; strengthen resource allocation and management, and improve the efficiency of asset utilization; focus on quality and customer experience, and increase the added value of products and services. Only in this way, the enterprise can remain invincible in the fierce market competition and achieve the goal of sustainable growth and long-term development.

3. Overview of the ESG indicators

The ESG indicator is an important indicator system to measure the performance of enterprises in the environment, social and corporate governance, and it is widely used to evaluate the sustainable development and social responsibility of enterprises. These indicators can not only reflect the financial performance of an enterprise, but also assess its performance in environmental protection, social responsibility and governance structure, providing a basis for investors, stakeholders and the public to have a comprehensive understanding of corporate performance. First, environmental
indicators mainly focus on the impact of enterprises on the natural environment and their ability of environmental management. This includes data on corporate carbon emissions, energy consumption, and water resources utilization. The improvement of environmental indicators means that enterprises pay more attention to environmental protection, and have taken a series of measures to reduce environmental pollution, improve the efficiency of resource utilization, and promote the development of low-carbon economy. In addition, environmental indicators also include the environmental management system, environmental policy and environmental risk management, and evaluate the standard degree and maturity of enterprises in environmental management. Secondly, social indicators focus on the performance of enterprises in the performance of social responsibility, including the impact on employees, consumers, suppliers, communities and other aspects. These indicators usually include data on employee benefits, employee training and development, product quality and safety, and community investment and development. The improvement of social indicators means that enterprises pay more attention to the protection of employee rights and interests and welfare, actively fulfill social responsibilities, establish good cooperative relations with various stakeholders, and promote social fairness and stable development. Finally, the corporate governance indicators evaluate the internal governance structure, the supervision of the board of directors and the corporate transparency. These indicators usually include data on corporate governance structure, independence of the board of directors, internal control system, protection of shareholders' rights and interests, etc. The improvement of corporate governance indicators means that enterprises pay more attention to the soundness of internal management and supervision mechanism, improve the scientificity and transparency of decision-making, protect the rights and interests of shareholders and stakeholders, so as to improve the stability and sustainable development ability of enterprises. To sum up, ESG index is an important standard to evaluate enterprise performance, which comprehensively considers the performance of enterprises in environmental, social and corporate governance. Through the evaluation and monitoring of these indicators, investors and stakeholders can have a comprehensive understanding of the performance of enterprises, which helps to promote enterprises to actively fulfill their social responsibilities and achieve the sustainable development goals. Therefore, ESG index has become an important tool to evaluate the long-term value and sustainability of enterprises, and has attracted the attention and attention from more and more stakeholders[2].

4. Study on the relationship between operational efficiency and financial performance

The relationship between operational efficiency and financial performance has long been a hot topic in business management and academic research. Operational efficiency refers to the efficiency level of an enterprise in production, sales, capital operation and other aspects, while financial performance is the performance of an enterprise in financial aspects, including profit growth, return on assets, cash flow, etc. In theory, improved operational efficiency should directly or indirectly affect the financial performance of enterprises, as more efficient operations often mean lower costs, higher revenue, and more efficient use of assets. First of all, from the perspective of cost control, improving the operating efficiency can reduce the production cost and operating cost of an enterprise, and thus improve the gross profit margin and net profit margin. For example, by optimizing the production process, improving the production efficiency, controlling the logistics costs and other means, enterprises can reduce the production cost of each unit product, so as to improve the profit level. In addition, more efficient operations can also reduce waste and loss, save resources, further reduce costs, and improve profits. Second, from the perspective of revenue growth, improving operational efficiency can also promote sales growth, thus increasing corporate revenue and profits. For example, improving product quality and service level can enhance
customer satisfaction and loyalty, promote repeat purchases and word-of-mouth communication, thus expanding market share and increasing sales revenue. In addition, more efficient operations can also accelerate the product launch and market response speed, seize market opportunities, increase market share, and further promote sales growth. In addition, from the perspective of asset utilization efficiency, improving operational efficiency can also improve the asset turnover rate and return on assets, so as to increase the return on assets and cash flow of an enterprise. For example, by optimizing inventory management, speeding up capital turnover, and improving the efficiency of asset utilization, enterprises can reduce the asset idle rate, improve the level of asset profit, and enhance the cash flow and solvency. However, it is important to note that not all operational efficiency improvements can translate directly into improvements in financial performance. Sometimes, companies may need to invest more capital or resources in the short term to improve operational efficiency, which may temporarily increase costs and have a certain negative impact on financial performance. In addition, the industry environment, market competition level and management level of the enterprise will also affect the relationship between operating efficiency and financial performance (Table 1). Therefore, going deep into the relationship between operational efficiency and financial performance needs to consider the combined impact of multiple factors to better understand and explain the correlation between the two.

Table 1: Descriptive statistics of the variables

<table>
<thead>
<tr>
<th>Variable</th>
<th>Sample number</th>
<th>Mean value</th>
<th>Standard deviation</th>
<th>Minimum</th>
<th>Median</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>ROA</td>
<td>2676</td>
<td>0.0640</td>
<td>0.0580</td>
<td>-0.0720</td>
<td>0.0470</td>
<td>0.257</td>
</tr>
<tr>
<td>ESG</td>
<td>2676</td>
<td>2.823</td>
<td>0.425</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>SIZE</td>
<td>2676</td>
<td>24.08</td>
<td>1.320</td>
<td>21.82</td>
<td>23.85</td>
<td>27.93</td>
</tr>
<tr>
<td>LEV</td>
<td>2676</td>
<td>0.487</td>
<td>0.199</td>
<td>0.0770</td>
<td>0.502</td>
<td>0.925</td>
</tr>
<tr>
<td>GROWTH</td>
<td>2676</td>
<td>0.181</td>
<td>0.402</td>
<td>-0.493</td>
<td>0.112</td>
<td>2.783</td>
</tr>
<tr>
<td>IC</td>
<td>2676</td>
<td>6.514</td>
<td>0.139</td>
<td>5.791</td>
<td>6.532</td>
<td>6.760</td>
</tr>
<tr>
<td>DUAL</td>
<td>2676</td>
<td>0.229</td>
<td>0.420</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>FCF</td>
<td>2676</td>
<td>0.0180</td>
<td>0.0870</td>
<td>-0.281</td>
<td>0.0220</td>
<td>0.264</td>
</tr>
</tbody>
</table>

5. Research status of the relationship between operational efficiency and ESG performance

The relationship between operational efficiency and ESG (environmental, social, and corporate governance) performance has always been one of the hot areas of business management and academic research. Over the past few years, an increasing number of studies have shown a close correlation between the operational efficiency of enterprises and their ESG performance. This paragraph will present the current status of research in this field and explore the main findings and conclusions of existing studies. First, studies have shown that companies actively focused on ESG factors often manage to achieve higher levels of operational efficiency. By adopting environmental protection measures, improving employee welfare and safety, and establishing a sound corporate governance mechanism, enterprises can improve the efficiency of resource utilization, reduce production costs, reduce labor costs, and optimize supply chain management, so as to improve the overall operational efficiency. For example, some studies have found that the implementation of environmental protection measures can promote the rational use of resources, reduce energy consumption and waste emissions, and thus reduce production costs and improve production efficiency. Secondly, some studies also show that enterprises with excellent ESG performance tend to gain a higher level of market recognition and social trust, thus improving the brand value and market position of enterprises and further enhancing their operational efficiency. This is because
companies that actively follow ESG tend to be able to build stronger supply chain relationships and
attract more investors and consumers, thus achieving higher levels of sales revenue and market
share. In addition, some studies have found that ESG performance companies are usually better able
to attract and retain excellent people, and improve employee satisfaction and loyalty, thus
improving employee productivity and productivity, and further improving the operational efficiency
of enterprises. This is because ESG excellent enterprises are usually able to provide a good working
environment, broad career development space and competitive compensation and benefits,
attracting a large number of excellent talents to join, and stimulate the work enthusiasm and
creativity of employees. However, it should be noted that not all studies were able to draw
consistent conclusions. Some studies have found that, while companies with good ESG
performance may show higher levels of operational efficiency in some ways, they may not have
significant advantages in others. This may be because different enterprises live in different industry
and market environment, management level and strategic positioning factors, leading to the
inconsistent relationship between ESG performance and operational efficiency. In conclusion, the
current study shows a complex and diverse relationship between the operational efficiency of
enterprises and their ESG performance. While some studies have shown that companies actively
focused on ESG factors tend to achieve higher levels of operational efficiency, not all studies have
reached consistent conclusions. Future studies are needed to further explore the associations
between different factors to better understand and explain the impact of corporate ESG performance
on their operational efficiency[3].

6. The degree of impact of ESG performance on enterprise operational efficiency

ESG (environmental, social and corporate governance) plays an increasingly important role in
today's business management and investment space. Companies are increasingly aware that, in
addition to economic performance, they need to focus on their performance in environmental
protection, social responsibility fulfillment and good governance. This focus is not only derived
from the moral and moral aspects, but also based on the strategic needs of the long-term sustainable
development and sound operation of enterprises. Therefore, how ESG performance affects the
operational efficiency of enterprises has become a topic of great concern. First of all, the impact of
environmental factors on the operation efficiency of enterprises is self-evident. As the problem of
global climate change becomes increasingly serious, the importance of environmental protection
has become more prominent. Enterprises actively take environmental protection measures, such as
reducing energy consumption, reducing carbon emissions, and improving the efficiency of waste
recycling, which can not only help protect the environment, but also reduce production costs and
improve operational efficiency. For example, by adopting energy conservation and environmental
protection equipment and technologies, enterprises can reduce energy costs and improve production
efficiency; by reducing waste discharge and pollution control, enterprises can avoid fines and legal
litigation risks caused by environmental pollution and reduce operating costs. Therefore, good
environmental performance can not only help enterprises to achieve sustainable environmental
development, but also directly improve the operational efficiency of enterprises. Secondly, social
factors also have an important impact on the efficiency of enterprise operation. The performance of
enterprises in the performance of social responsibility is directly related to its reputation and image
in the market, and then affects its market position and competitiveness. Measures such as actively
fulfilling social responsibilities, paying attention to employee welfare and participating in public
welfare undertakings can not only attract more excellent talents, improve employee satisfaction and
loyalty, but also enhance the trust relationship with customers, suppliers and investors, and enhance
the brand value and market competitiveness of the enterprise. For example, good employee welfare
system and training mechanism can improve employee efficiency and productivity; working with community activities can enhance the recognition and influence of enterprises and provide strong support for market development. Therefore, good social performance can not only help to improve the social image and reputation of enterprises, but also indirectly promote the operation efficiency of enterprises. In addition, corporate governance is also one of the important factors affecting the efficiency of enterprise operations. A sound corporate governance structure and a standardized internal control mechanism can improve the decision-making efficiency of enterprises, reduce operational risks, reduce the waste of resources, and then improve the operational efficiency of enterprises. For example, the establishment of effective board of directors and independent audit committee can strengthen the supervision and management of enterprise decision-making and avoid internal power rent-seeking and corruption; establishing scientific and reasonable incentive and restraint mechanism can stimulate the enthusiasm and creativity of employees and improve the production efficiency of enterprises. Therefore, good corporate governance not only helps to improve the transparency and trust of enterprises, but also can directly promote the operational efficiency of enterprises. To sum up, ESG performance has many effects on the operational efficiency of enterprises, and environmental, social and corporate governance factors all play an important role. Actively paying attention to ESG factors and improving ESG performance can not only help enterprises to achieve long-term sustainable development, but also directly promote the operational efficiency of enterprises and create for enterprises

7. Conclusion

This paper reviews and analyzes the relationship between enterprise operational efficiency and ESG performance, and discusses its importance to the sustainable development of enterprises. Through literature review and analysis, we found the positive impact of ESG factors on their operational efficiency, and presented some theoretical explanations and empirical evidence. However, we also realize that there are still some shortcomings in the current study, such as the limitations of the research methods and the imperfect theoretical framework, which need further research. Future research can be conducted in the following aspects: First, more comprehensive and in-depth research methods, such as mixed methods studies, case studies, can be adopted to reveal the complex relationship between ESG factors and operational efficiency. Secondly, the impact of ESG factors on the operational efficiency of enterprises in different industries and regions can be further explored to obtain more comprehensive and specific research conclusions. In addition, the relationship between ESG factors and enterprise financial performance and market performance can also be deeply analyzed to reveal the influence mechanism of ESG factors on the overall performance of enterprises. In conclusion, through in-depth study of the relationship between enterprise operational efficiency and ESG performance, we can better understand the sustainable development path of enterprises, and provide more effective strategic guidance and practical advice for enterprise managers and decision makers, and promote enterprises to achieve long-term value creation and sustainable development.

References