Sustainable Supply Chain Management: Insights from Australia’s Firms

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Abstract

While the sustainable supply chain is an emergent area of interest, the literature provides little guidance on how best to carry out sustainable supply chain management. The purpose of this paper is to provide hints to businesses on how best to approach the challenge of developing a sustainable supply chain. Hence, the case studies method is undertaken to explore how Australia’s companies that are prominent worldwide for their sustainability performance have approached the challenge of managing sustainability in their supply chain. This study finds that sustainability action plans and governance tools that rightly reflect requisites for suppliers, diverse evaluation means to measure the suppliers’ performance, and regular reviews of sustainable supply chain management practices and policies enable businesses to manage sustainability in their supply chain. The study contributes to the literature by providing a best practice model from the findings to provide practical guidance to businesses.

Keywords: sustainability, supply chain management, Australia

1. Introduction

The transformation of conventional supply chain management (SCM) into sustainable supply chain management (SSCM) creates enormous pressure on companies to make adjustments to their existing supply chain to meet the sustainability requisites (Busse et al., 2017). Sustainable supply chain management is a management process that incorporates the two fields of SCM and sustainability (Beske & Seuring, 2014). SCM is the assimilation of major business processes, which delivers products, services, resources, and information from suppliers to consumers that add value for consumers and other stakeholders (Lambert & Cooper, 2000), and sustainability is conceptualised by its principles and dimensions (economic, environmental, and social) for the welfare of businesses, environment and social systems for a sustainable future (Mc Loughlin, 2018). Hence, Ahi and Searcy (2013, p. 339) define sustainable supply chain management as “the creation of coordinated supply chains through the voluntary integration of economic, environmental, and social considerations with key inter-organisational business systems designed to efficiently and effectively manage the material, information, and capital flow associated with the procurement, production, and distribution of products or services in order to meet stakeholder requirements and improve the profitability, competitiveness, and resilience of the organisation over the short- and long-term.”

Firms that desire to enhance the sustainability in their supply chains need to be more proactive in monitoring their suppliers across a range of business activities and entail a greater strategic promotion of performance on sustainability to enable coordination across manufacturing, distribution, and marketing activities (Beske et al., 2014; Hassini et al., 2012). Busse et al. (2017), Fahimnia et al. (2017), and Govindan et al., (2015) argue that businesses with a formal line to monitor sustainability practices in their supply chain experience performance advantages, greater engagement with all stakeholders, and improved corporate reputation. While several researchers have highlighted the significance of integrating sustainability into the businesses’ purchasing decisions (Fahimnia et al., 2017; Govindan et al., 2015; Ahi & Searcy, 2013), the research offers not much guidance on how best to achieve this goal. Therefore, the objective of this paper is to find out in what ways Australia’s firms that are well-known worldwide for their sustainability performance respond to the opportunities and challenges related to pursuing sustainability in the supply chain. The present study, hence, seeks to explore the following research question: How do Australia’s companies that are renowned for sustainability...
performance take up sustainability in their supply chain? This study contributes to the literature by providing a common practice model for SSCM, which can also be followed by the other companies as exemplary.

The remainder of the paper is structured as follows. The next section outlines an overview of relevant literature on sustainable supply chain management, the third section draws the research method, while the fourth section provides the research findings. Concluding remarks, limitations, and scopes for further research are made in the fifth section.

2. Literature Review

Due to the increasing globalisation of the world economy, constructing, managing and interacting within the supply chain has turned out to be a challenging task (Genovese et al., 2017). While traditional supply chain management mostly focuses on the economic outlooks, sustainable supply chain management is linked with the assimilation of the environmental and social objectives along with the economic objective (Tseng et al., 2015; Wittstruck & Teuteberg, 2012). Fahimnia et al. (2017), Govindan et al. (2015), and Glover et al. (2014) find that the businesses that embrace sustainable activities have competitive advantages and long-term economic benefits. The economic perspective of SSCM focuses on the incorporation of sustainability criteria in such a way that profitability is achieved with efficient management of the environment and social resources (Carter & Easton, 2011). Hence, Ortas et al. (2014) and Carter and Rogers (2008) focus on the embracing of environmental and social measures along the lines of the firm’s economic objectives.

The environmental perspective in sustainable supply chain management is largely about the protection of the environment that the supply chain is working in. The environmental aspect of sustainable supply chain management involves the goals, action plans, and practices that promote grander environmental responsibility and support eco-friendly knowhow (Min & Kim, 2012). Mota et al. (2015) and Wiese et al. (2012) suggest a few sustainable supply chain management activities that can be incorporated into the business strategies, such as effective product design that utilise reusable and recycled materials, eco-friendly packaging and warehousing, and suitable working conditions. Van Hoof and Thiell (2014) and Darnall et al. (2008), therefore, suggest the firms to act closely with their suppliers to enhance the environmental performance of their production processes and products, and advise their suppliers to take on sustainable measures such as ethical labour practices and sensible utilisation of natural resources. Customers also favour green packaged products and firms’ green procurement strategies in recent times due to the growing environmental worries (Tonelli et al., 2013). Kuik et al. (2011), hence, suggest the firms to adopt sustainability in the supply chain, and classify sustainable supply chain management into 3R’s such as recycle, reuse, and remanufacture for process development, and reduce, recover, and redesign for product design.

The social aspect of sustainable supply chain management is inclusive of society, organisations, and individuals. The social facet of sustainability is one of the most essential facets in sustainable supply chain management as organisations include various stakeholders with different perspectives and goals, and managing this variant sets a challenge to managers (Hall & Matos, 2010). Social sustainability is about the management of social values and justice, human rights, and the welfare of workers, people, and the whole society (Simoes et al., 2014; Sarkis et al., 2010). Social sustainability is directly linked to corporate social responsibility, which brings the idea that a firm should meet the economic, ethical, legal, and other expectations of stakeholders keeping in mind the environmental and societal needs (Sarkis et al., 2010; Defee et al., 2009). Hence, Simoes et al. (2014) and Harms et al. (2013) suggest that the supplier management strategies should involve guiding the suppliers to carry out sustainable supply chain practices and take into account stakeholders’ concerns in the decision-making process.

Gimenez and Tachizawa (2012) also concentrate on a firm’s governance mechanisms that help to implement its sustainable strategies and improve sustainability performance. Formentini and Taticchi (2016) define sustainable supply chain governance as a set of numerous actions to consolidate relationships with the inter-organisational sectors, supply chain actors, activities, and stakeholders to achieve the sustainability goals. Gimenez and Sierra (2013) and Vurro et al. (2009) argue that a collaborative relationship with the suppliers generates the maximum impact in the supplier’s actions for sustainability, and collaborative governance act as a robust means for the promotion of sustainable supply chain management. In a non-collaborative situation, Formentini and Taticchi (2016) suggest imposing a firm’s decisions and set the governance to the supply chain counterparts through the contractual power. The present study, therefore, investigates how Australia’s companies that are prominent worldwide for their sustainability performance have dealt with the economic, environmental, social, and governance issues in their supply chain.
3. Research Method

Since the field of SSCM is relatively new (Touboulic & Walker, 2015), the purpose of this study is to look at how Australia’s companies that are renowned worldwide for their sustainability performance have practiced to take up the sustainability in their supply chain. This study, therefore, employs the case study research method as this research technique focuses on a contemporary phenomenon in a factual context (Yin, 2014).

The Dow Jones Sustainability Australia Index, which is the most cherished independent sustainability ranking system that benchmarks publicly listed firms’ performance across the industry and evaluates what progress they are making in terms of achieving their strategic sustainability goals (Searcy & Elkhawas, 2012), has published the top 10 publicly listed Australia’s companies by sustainability index weight in 2020. Of the 10 companies, the top six companies have been considered for this study as the development of similar findings over multiple cases help to generalise findings. The names of those top six companies, which span different industries are presented in Table AI (see Appendix). Content analysis of secondary information is the key instrument used in this study as this research means has been widely used in examining companies’ practices on sustainability disclosure (Talbot & Boiral, 2015; Bowen, 2009). Hence, the sample of six companies’ annual reports, websites, CSR reports or sustainability reports, and supply chain guides have been used to find out their approaches to sustainable supply chain management.

4. Cross-Case Findings

The study finds that all of the sample case study organisations recognise the value of corporate social responsibility to their supply chain and highlight the need to monitor their suppliers’ sustainability performance. As part of the SSCM strategy, companies’ initiatives include (i) SSCM policy development, (ii) current suppliers’ performance data collection and potential new suppliers’ screening, and (iii) supplier management and development of a code of conduct for them. In the policy documents, companies convey a clear statement of the principles and goals pertaining to SSCM. It includes a guideline for the existing suppliers and methods for weighing new suppliers, which comprise details on requirements for suppliers in the areas of economic, environmental, social, and governance issues.

To assess current suppliers’ performance and screen new suppliers, a questionnaire is used to collect data on their performance. The questionnaire of about 100 questions, which is informed by the Dow Jones Sustainability Index and discussion with sustainability experts, captures information on how suppliers minimise their environmental impacts, and their policies in the other areas of sustainability, such as labour practices, human rights, and community involvement of social aspect of sustainability. Table 1 presents an outline of the different aspects of sustainability contained in the questionnaire where each topic of the questionnaire examines the extent of strategic position, commitment, and resource investment made by the suppliers.

<table>
<thead>
<tr>
<th>Economic</th>
<th>Environmental</th>
<th>Social</th>
<th>Governance</th>
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<tbody>
<tr>
<td>Economic performance</td>
<td>Policies</td>
<td>Diversity</td>
<td>Policies</td>
</tr>
<tr>
<td>Market presence</td>
<td>Targets</td>
<td>Anti-discrimination</td>
<td>Management systems</td>
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<tr>
<td>Industry-specific criteria</td>
<td>Eco-performance</td>
<td>Child and forced labour</td>
<td>Crisis management</td>
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<td></td>
<td>Product stewardship</td>
<td>Human-capital development</td>
<td>Codes of conduct, anti-corruption, and compliance</td>
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<td>Environmental reporting</td>
<td>Quality of working life</td>
<td>Public reporting</td>
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<td>Workplace health and safety</td>
<td>Collaboration with procurer</td>
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<td></td>
<td></td>
<td>Community involvement’s policy, activities and impacts</td>
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The study also finds that all the studied organisations have formed a code of practice that indicates the minimum corporate social responsibility requirements for all of their suppliers and offers a self-compliance template for them. In the four cases, small suppliers are not needed to fulfil the SSCM questionnaire, instead, they are expected to dedicate themselves to the standards required by the code and fill up the self-compliance template. Each year, a sample of suppliers is also audited against the responses to the SSCM questionnaire and the code to assess their actual performance against their policies and management systems, and know how to better use...
resources to support the suppliers to improve their performance on sustainability.

5. Conclusion, Limitations, and Future Research

While the previous studies offer little guidance on how best to pursue the goal of integrating sustainability into the businesses’ purchasing decisions, the present paper’s objective is to provide a guide on how to respond to the opportunities and challenges related to pursue sustainability in the supply chain through adopting strategies of Australia’s firms that are well-known worldwide for their sustainability performance. Following a review of the literature, hence, case studies approach is employed to explore how Australia’s six best companies that are prominent worldwide have incorporated the challenge of adopting sustainability-oriented purchasing strategies. Deriving from the findings, therefore, this paper offers a guide for companies wishing to adopt similar strategies, such as (i) develop sustainability action plans and governance tools that aptly reflect requisites for suppliers, (ii) develop diverse evaluation means to measure the suppliers’ performance and compliance, and (iii) carry out regular reviews of SSCM practices and policies to make improvements where necessary.

It is worth mentioning here that the present study should be read with caution, as it is solely based on disclosures made by companies in the public domain. Further research is, thus, warranted to employ other research methods, and recognise the experiences and thoughts of managers and other stakeholder groups. Future research can also be built on this study by exploring whether these strategies can be generalised across geographic boundaries and businesses.

References


Appendix 1

Table AI. The names of the sample Australian companies and their sectors

<table>
<thead>
<tr>
<th>Australian companies</th>
<th>Sector</th>
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<tbody>
<tr>
<td>BHP Group Ltd</td>
<td>Materials</td>
</tr>
<tr>
<td>National Australia Bank Ltd</td>
<td>Financials</td>
</tr>
<tr>
<td>Westpac Banking Corp</td>
<td>Financials</td>
</tr>
<tr>
<td>ANZ Banking Group</td>
<td>Financials</td>
</tr>
<tr>
<td>Wesfarmers Ltd</td>
<td>Financials</td>
</tr>
<tr>
<td>Transurban Group NPV</td>
<td>Consumer Discretionary</td>
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Source: S&P Dow Jones Indices (2020)

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