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Small Firms, Big Impact: Exploring
Sustainability Drivers in Textile SMEs through
Reporting, Risk, and Leadership

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Small Firms, Big Impact: Exploring Sustainability Drivers in Textile SMEs through Reporting, Risk, and Leadership

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Abstract

This research examines the pathways through which climate change reporting (CCR), stakeholder pressure (SP), and managerial climate risk perception (RP) affect sustainable business performance (SBP) in Pakistan's textile industry, situating green strategic alignment (GSA) as an intermediary and top management climate commitment (TMCC) as a moderating force. A structured questionnaire elicited responses from a sample of 320 firms, with the resulting dataset subjected to the PROCESS macro using 5,000 bootstrapped resamples. Empirical evidence confirms that CCR, SP, and RP each exerts a positive and statistically robust influence on SBP. Mediation analysis (Model 4) indicates that GSA exerts partial mediation: the alignment of strategic green objectives enables the effective translation of both exogenous and endogenous climate signals into performance gains. Moderation analysis (Model 1) establishes that the moderating influence of TMCC is confined to the CCR–SBP link, whereas TMCC does not alter the strength of the GSA–SBP association. Collectively, the independent, mediated, and moderated pathways accounted for 61% of the variance, affirming that integrated climate reporting, purposeful alignment, and resolute leadership commitment are critical levers for sustainable performance. The findings advance the sustainability and governance literature by operationalising a regression-based bootstrapping framework, thereby providing both theoretical substantation and concrete, implementable guidance for managers in climate-sensitive sectors.

Keywords: Climate Change Reporting; Sustainable Business Performance; Green Strategic Alignment; Top Management Climate Commitment.

INTRODUCTION

Climate change is one of the most pressing issues facing the world today, necessitating immediate action from businesses to mitigate their economic, environmental, and social impacts (Sunanda et al., 2024). Pakistan, for instance, is one of the countries most affected by climate change due to its agriculture-based economy and climate-dependent industries, such as textiles and manufacturing (Gbolarumi, Wong, & Olohunde, 2021). However, the textile and apparel industry, which serves as the backbone of Pakistan's economy, is under pressure from society as well as international buyers and regulators to adopt more sustainable practices. This industry is responsible for nearly 60% of the country's export revenues and also provides jobs for millions of people (Kumari & Taggar, 2024). Although the industry operates in a highly energy-intensive and resource-consuming manner, its integration of climate considerations into

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business practices is relatively low, which in turn subjects it to reputational, operational, and compliance risks related to climate change (Huang et al., 2024).

Integrating climate concerns into corporate reporting is seen as one of the better methods for increasing an organization's transparency and accountability. Global reporting initiatives, such as the Global Reporting Initiative (GRI) and the Task Force on Climate-Related Financial Disclosures (TCFD), have prompted firms to report on climate-related risks and sustainability activities. In Pakistan, however, climate-related corporate reporting remains largely voluntary, compliance-oriented, and fragmented, resulting in a trust deficit among investors and stakeholders (Zhang, He, & Shen, 2024). This is most pronounced in the textile industries, where export market competitiveness is increasingly shaped by buyers' sustainability and value chain sustainability benchmarking (Abbade et al., 2023).

Stakeholder Pressure (SP) has become one of the leading forces driving climate change action within corporations. International buyers, along with regulatory institutions, consumers, and even non-governmental organizations (NGOs), have begun to pay more attention to the practices of corporations and urge them to adopt climate change mitigation practices, curb net emissions, and comply with global sustainability targets (Li, 2024). This issue is particularly pertinent to Pakistan, where climate change responsiveness is a competitive necessity, as textile exporters are being audited for sustainability compliance by multinational corporations (Memon et al., 2022). Both approaches, proactive and reactive, have their risks. Inadequate responsiveness to climate change issues poses a risk of losing market access. In contrast, proactive adaptation augments legitimacy, stakeholder confidence, and long-term survival (Saleem et al., 2020).

Risk Perception is another crucial factor affecting how an organization approaches sustainable development. How climate change is viewed as a potentially serious risk—regardless of supply chain disruptions, narrowing regulations, or public relations—affects corporate action (Liu, Zhang, & Zhou, 2023). In the context of the energy crisis, scarcity, and increasing compliance in the Pakistani textile industry, climate risk is also created; managerial understanding is the key difference between offensive compliance branding and strategic climate change integration (Leonidou, Christodoulides, & Katsikeas, 2023).

Green Strategic Alignment (GSA) shows how closely firms' SP, Integration of Climate Issues into Corporate Reporting (CCR integration), and managerial RP align with climate change imperatives, and how these correlate with SBP (Zhang, Chen, & Wu, 2024). Embedded sustainability enables firms to go beyond climate gestures to achieve tangible and measurable improvements in the triple bottom line (TBL). In the case of Pakistan, with its textile industry, there is a lack of cohesive sustainability efforts, and the initiatives taken are fragmented, short-sighted, and lack measurable long-term impact (Hussain et al., 2023).

The persistence of climate initiatives in Pakistan suffers from a deficit in sustained executive direction that has resisted meaningful amelioration, even when articulated under the framework of Top Management Climate Commitment (TMCC). As Johnson and Lee (2021) observe, the emergent economy has long operated in a milieu defined by absent—rather than

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merely incomplete—institutional and regulatory constructs, thus skewing strategic vision away from the sustainability imperative. Subsequent evidence (Naseem et al., 2022) confirms that the resultant dialytic dynamic is anchored less in rigorous external accountability than in ad hoc, frequently unchallenged, personal declarations by corporate and state leaders. Such rhetorical constructs, however, are circumvented by an unwillingness to subject policy commitments to the stakeholder-validation tests that are essential for consummate organizational buy-in. The empirical literature identifies an additional, nested constraint: the managerial levies invoked in the name of climate resilience fail, across the board, to secure the requisite structural embedding and cross-lateral alignment necessary for substantive organizational and infrastructural pivot (Glover et al., 2014; Rahman et al., 2023).

Ultimately, these factors peak at SBP, which is measured in economic, ecological, and social terms. For Pakistan's textile industry, SBP is no longer a voluntary corporate social responsibility; rather, it is a mandate for global compliance benchmarking, regulatory compliance, and controlling corporate expansion (Iqbal et al., 2022). This study enhances the understanding of enabling factors of sustainability-oriented transformation in emerging market firms by examining the impact of top management climate commitment on the CCR integration, SP, managerial RP, and GSA relationship with SBP.

LITERATURE REVIEW AND SUPPORTING THEORIES THEORETICAL FOUNDATIONS

The current study is grounded in three theoretical perspectives: Stakeholder Theory, Institutional Theory, and the Resource-Based View (RBV). Stakeholder Theory proposes that firms have responsibilities not only to corporate owners but also to wider definitional groups, such as customers, regulators, employees, and society as a whole (Freeman, Harrison, Phillips, & Parmar, 2021). In terms of climate change, there is an escalated stakeholder expectation for firms to incorporate environmental issues into their strategy and reporting practices (Fernando & Lawrence, 2014).

The role of coercive, normative, and mimetic forces as corporate environmental practices is covered under institutional theory (DiMaggio & Powell, 1983). Firms from emerging markets, such as Pakistan, often face weak enforcement of regulatory requirements; hence, stakeholder and institutional forces become critical in climate-responsive strategies (Barney, 1991).

This RBV perspective is integrated with the latter in terms of firm-specific resources and capabilities, as well as managerial perceptions, alignment, strategy, and leadership, which are attributed to competitive advantage and sustainable performance (Dubey et al., 2019). In addition to climate risk mitigation, strategically climate-responsive firms can build operationally embedded climate-related strategies and unique capabilities that foster long-term sustainability outcomes.

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HYPOTHESES DEVELOPMENT

Integration of Climate Issues into Corporate Reporting and Sustainable Business Performance

The integration of climate-related corporate reporting (CCR) has emerged as an increasingly central element of corporate governance within Pakistan and its tightly monitored economic corridors. Situated beyond the existing layers of regulation, the strategic embedding of climate disclosures within governance frameworks and corporate social-responsibility programs increases market transparency, augments the ability of stakeholders to appraise climate risks, and builds stakeholder trust—a cumulative effect that solidifies the standing of the State Bank of Pakistan and comparable oversight institutions (Khan et al., 2023). Evidence marshaled by Fatemi et al. (2021) indicates that both the Global Reporting Initiative and the Task Force on Climate-related Financial Disclosures posit that enterprises which embed climate considerations into their disclosure protocols enjoy superior strategic positioning, competitive edge, and legitimization. The textile and garment sector of Pakistan, composed predominantly of firms that have repeatedly drawn ire on account of environmentally deleterious processes, therefore confronts a decisive commercial opportunity; thorough cognitive integration of climatereporting requirements and best practices could serve not only to advance operational sustainability objectives, but could also reinforce international competitiveness by harmonizing local reporting frameworks with globally recognized standards (Orazalin & Mahmood, 2019).

In addition, integration of climate, carbon, and resource (CCR) considerations transcends mere regulatory adherence; it positions sustainability as an instrumental resource for identifying and responding to foreseeable hazards and latent market prospects. Empirical analysis demonstrates that enterprises aligning climate management and reporting with operational activities are appreciably more prone to attract overseas purchasers, capital sources, and end-users for whom responsible supply-chain provenance is an equity consideration. Given that Pakistani textile exporters are, through widening sustainability criteria of foreign purchasers, experiencing intensifying scrutiny, CCR integration is projected to preserve twenty-to thirty-year accrued reputation. Subsequently, CCR integration confers enhanced organizational legitimacy, optimizes stewardship of physical and intangible assets, and secures multilateral confidence in corporate governance, thereby supplying a sound condition for long-range strategic forecasting and for producing reliable corporate reports (Rashid & Jabeen, 2024). **H1:** The integration of climate issues in corporate reporting positively impacts Sustainable Business Performance.

STAKEHOLDER PRESSURE AND SUSTAINABLE BUSINESS PERFORMANCE

According to stakeholder theory, in order to be viewed as legitimate and survive in the long run, a firm sould attend to stakeholders such as customers, obtained the right permits, dealt with advocacy groups, NGOs, and investors (Aguinis & Glavas, 2012). SP has been termed as a major factor with regards to corporate sustainability. Evidence suggests that companies having robust SP are more inclined to adopt climate policies, curb emissions, pursue green innovations, and attain positive socio-economic results (Delmas & Montes-Sancho, 2011). In the Pakistani textile industry, global buyers and NGOs actively engage in the monitoring of environmental

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compliance, illustrating the impact of SP on environmental sustainable corporate practices (Jamali, 2010).

Research shows that businesses dealing with international supply chains are more responsive to sustainability pressure than companies concentrating on the domestic market (Wang et al., 2016). In every developing country including Pakistan, stakeholders' perceptions, in the absence of effective law enforcement, often drive companies towards engaging in sustainable adopting practices (Wang, 2016). Sustainable practices (SP) in turn, enhance the innovation SP, adherence to regulation SP, and proactive SP which together strengthen the strategic business planning (Sustainable Business Performance).

H2: SP for Climate Action positively influences Sustainable Business Performance.

MANAGERIAL CLIMATE RP AND SUSTAINABLE BUSINESS PERFORMANCE

The influence of climate change on an organization's approach to environmental management is determined by how its managers perceive the risks of climate change related to their sector. In the field of upper echelons of a firm theory, the managers' comprehension of frames and their cognitive context of a risk is entirely congruent with the firm's strategic choices (Abbas et al., 2022). It is argued that managers are likely to integrate sustainability within the strategic business framework if climate risks are material to the business, thereby augmenting the firm's long-term value (Chatterjee & Fan, 2022). As for Pakistan, the textile sector is facing challenges related to climate change, including water scarcity, power shortages, and flooding. In this regard, RP is essential for fostering resilience and achieving sustainability (Hambrick & Mason, 1984).

Regarding Pakistan, a country with weak regulatory enforcement, the recognition and perception of climate risks, particularly by corporate managers, tend to become the foremost drivers of climate action, improving the firm's performance and competitive advantage. The manager's perception of climate risks (RP) dictates the firm's investments in adopting cleaner technologies, diversifying supply chains, and eco-innovation (Kolk & Pinkse, 2019). The managers who can perform effectively in relation to risk are proactive in responding to the strategic pressures and opportunities the firm faces. Hence, these managers can outperform on all three layers of the sustainability bottom line.

H3: Managerial Climate RP positively influences Sustainable Business Performance. Mediating Role of GSA

GSA (GSA) signifies the degree to which companies incorporate ecological factors into their strategies, plans, and performance indicators. While CCR Integration SP and RP offer external and internal nudges, the actual achievement of sustainable business results often demands some degree of cohesiveness at the level of strategy (Fernando et al., 2019). It has been documented that high GSA firms tend to have better environmental management systems, pursue greener innovations more actively, and better align with sustainability targets, all of which improves sustainable performance (Jamali & Karam, 2018).

GSA aids the Pakistani textile sector with international attention in the performance gap brought forth by external pressures. When strategy and operations are unaligned with the

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climate, external expectations run the risk of existing as little more than form without meaning as described (Orazalin, 2022). Research on emerging market economies shows the negative impact of the lack of strategic alignment as a mediating factor in the successful derivation of sustainability-oriented outputs, e.g., reporting and RP (Singh et al., 2022). Therefore GSA aids in easing the intent—outcome disconnect for Pakistani firms.

H4: GSA mediates the relationship between of CCR Integration, SP, and RP) and Sustainable Business Performance.

Moderating Role of Top Management Climate Commitment

Top Management Climate Commitment is critical to an organization's effectiveness and impact in relation to sustainability initiatives. For emerging economies like Pakistan, where institutions are lax in enforcement, around corporate governance, leadership commitment is frequently decisive in bringing about change (Du & Kim, 2021; Fernando & Wah, 2017). It has been documented that strong top management commitment to climate goals (via resource commitment, strategic communication, and integration of climate goals into corporate culture) greatly enhances the relationship between sustainable corporate activities (GSA) and sustainable corporate performance (Iqbal et al., 2020).

TMCC is essential in the textile industry because sustainability has long-range horizons and entails a significant upfront investment. It has been shown that strong commitment at the top drives employee buy-in, cross-silo collaboration, and executional coherence in climate strategies (Khan & Qian, 2022; Mackey et al., 2015). Otherwise, strong managerial commitment may lead GSA to be limited to mere window dressing. As such, TMCC's decisive impact is that sustainability strategies are integrated into the organization's operations, resulting in tangible progress in economic, environmental, and social performance.

H5: The relationship between GSA and Sustainable Business Performance is positively moderated by Top Management Climate Commitment.

CONCEPTUAL MODEL

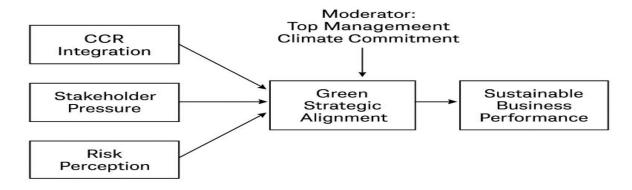


FIGURE 1. CONCEPTUAL FRAMEWORK

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RESEARCH DESIGN AND METHODOLOGY RESEARCH DESIGN

This investigation was carried out in Pakistan's textile and apparel sector, an export-led industry whose pronounced exposure to climatic shocks and growing regulatory scrutiny poses substantial systemic risk (Ali & Haq, 2021; UN OCHA, 2022; Vogt & O'Rourke, 2023). Given the sector's intrinsic dependence on extensive water and energy inputs, as well as geographically dispersed value chains, the setting provides a compelling backdrop for assessing the mediating roles of climate disclosure, stakeholder vigilance, managerial risk cognition, green strategic congruence, and executive climate dedication in the explanation of sustainable operating performance.

Primary data were elicited from enterprises listed on the Pakistan Stock Exchange (PSX) and the Pakistan Textile Exporters Association (PTEA). Employing purposive sampling, data were secured from executive-level respondents with responsibility for sustainability oversight. Of a total of 500 firms approached, 320 usable surveys were returned (64% response), adequately representing small, medium, and large organizational categories.

A rigorously designed questionnaire, subjected to pilot testing with sustainability scholars and industry veterans to enhance semantic clarity and contextual relevance, was delivered through both face-to-face and electronic channels. Instrument content covered organizational and respondent characteristics (firm size, age, export orientation, managerial role) alongside psychometric scales gauging climate-change disclosure (CCR), stakeholder scrutiny (SP), managerial risk appraisal (RP), green strategic coherence (GSA), top executive climate intention (TMCC), and the composite sustainable business performance (SBP) index.

MEASUREMENT INSTRUMENTS

The current investigation applies widely recognized analytic instruments within Pakistan's textile and apparel field, basing item responses upon a five-point Likert design (Hair et al., 2017). Climate-related financial reporting (CRFR) disclosure was appraised according to the original TCFD standard (2017) supplemented by subsequent elaborations, while stakeholder pressure (SP) was captured by a concise four-indicator scale (Buysse & Verbeke, 2003; Delmas & Toffel, 2008). Managerial perception of climate risk (MPCR) was operationalized via a five-variable scale (Haigh & Griffiths, 2009; Gao & Bansal, 2013), and strategic alignment (SA) was addressed by the five-indicator instrument adopted from the literature (Aragón-Correa & Sharma, 2003; Nidumolu et al., 2009). Top management's sustainability commitment was proxied through the overlapping conceptions of both Egri & Herman (2000) and Waldman et al. (2006). The focal dependent variable, sustainable business performance, appeared operationalized using Elkington's formative triple-bottom-line model (1997) together with a seven-item measure (Epstein & Roy, 2001; Singh et al., 2020), thus maintaining attention across the economic, environmental, and social dividend spheres. Contextual modification of original instruments was conducted to uphold methodological rigor and reinforce linkage with extant literature according to Podsakoff et al. (2003).

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RESULTS RESPONDENT PROFILE

Data were obtained from senior executives employed by textile and apparel enterprises operating in Pakistan. The respondent pool comprised sustainability managers, chief financial officers, heads of operations, and managing directors, thereby guaranteeing that participants possessed deep familiarity with their respective firms, the organization's climate reporting procedures, and overarching sustainability strategies. The demographic breakdown shows that the respondents included 74% men and 26% women, which portrays the ongoing changes in the Pakistani textile industry's managerial gender gap, with women starting to gain prominence in the fields of sustainability and finance. The respondents in the 30- to 40-year age group were the majority (46%), followed by those in the 41- to 50-year age group (28%), as well as those under 30 years (18%), and only 8% were over 50 years. This suggests that the sector is characterized by mid-career professionals who prioritize disclosure and sustainability. The educational background included the majority with postgraduate degrees (62%), 32% with bachelor's degrees, and 6% with professional diplomas, illustrating the sample's high education and ability to be reliable respondents. The sample population included respondents with 29% as sustainability or CSR managers, 26% as finance or accounting managers, 22% as operations managers, and 23% as senior executives or directors, demonstrating balanced representation from financial and non-financial fields.

In terms of respondents' firm size, 36% represented large firms with over 500 employees, 44% were part of medium firms with 101 to 500 workers, and 20% were from small firms with less than 100 employees. Concerning firm age, 40% of the firms had been in operation for over 20 years, 33% from 11 to 20 years, and 27% for less than 10 years, indicating a mix of longstanding firms and relatively newer entrants. Additionally, owing to the export-oriented nature of the textile industry, 71% of the firms surveyed were export-focused while 29% served predominantly domestic customers. Overall, the diverse respondent profile emphasizes the reliability of the data in reflecting the reality of Pakistan's textile industry.

TABLE 1. RESPONDENT PROFILE

Variable	Category	Frequency (n=320)	Percentage (%)
Gender	Male	237	74.0
	Female	83	26.0
Age	Below 30 years	58	18.0
	30–40 years	147	46.0
	41–50 years	90	28.0
	Above 50 years	25	8.0
Education	Bachelor's	102	32.0
	Postgraduate	198	62.0
	Professional Diploma	20	6.0
Designation	Sustainability/CSR Mgr.	93	29.0
	Finance/Accounting Mgr.	83	26.0

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	Operations Manager	70	22.0
	Senior Executive/Dir.	74	23.0
Firm Size	Small (<100 employees)	64	20.0
	Medium (101–500)	141	44.0
	Large (>500)	115	36.0
Firm Age	< 10 years	87	27.0
	11–20 years	106	33.0
	> 20 years	127	40.0
Export Orientation	Domestic Market Focus	93	29.0
	Export-Oriented	227	71.0
-			

TABLE 2. DESCRIPTIVE STATISTICS OF STUDY VARIABLES (N = 320)

Variable	Mean	SD	Min	Max
Climate Change Reporting (CCR)	3.72	0.81	1.80	5.00
Stakeholder Pressure (SP)	3.85	0.76	1.90	5.00
Risk Perception (RP)	3.68	0.83	1.70	5.00
Green Strategic Alignment (GSA)	3.90	0.79	2.00	5.00
Top Management Climate Commitment (TMCC)	3.77	0.74	1.80	5.00
Sustainable Business Performance (SBP)	3.95	0.82	2.10	5.00

The descriptive statistics indicate that organizations within Pakistan's textile sector manifest moderately elevated values for all constructs examined. Sustainable Business Performance (M=3.95, SD=0.82) attained the peak mean, implying that the majority of firms regard their performance on economic, social, and environmental criteria as satisfactory. Similarly, Green Strategic Alignment (M=3.90) and Stakeholder Pressure (M=3.85) present robust mean scores, demonstrating that strategic congruence and external exigencies are influential antecedents of sustainability behaviour. Top Management Climate Commitment (M=3.77) and Climate Change Reporting (M=3.72) convey optimistic yet incipient patterns of leadership involvement and disclosure. In contrast, the mean for Managerial Risk Perception (M=3.68) is lower, denoting heterogeneity in managerial evaluations of climate-related hazards. Collectively, these findings confirm an emergent inclination toward sustainability within the sector; however, the data underscore the necessity for augmented leadership engagement, systematic integration of reporting, and fortified risk assessment in order to achieve more uniform performance across constituent firms.

TABLE 3. CORRELATION MATRIX OF STUDY VARIABLES (N = 320)

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Variable	1	2	3	4	5	6	
1. Climate Change Reporting (CCR)	1						
2. Stakeholder Pressure (SP)	.52**	1					
3. Risk Perception (RP)	.49**	.44**	1				
4. Green Strategic Alignment (GSA)	.55**	.46**	.48**	1			
5. Top Management Climate Commitment (TMCC)	.51**	.42**	.47**	.53**	1		
6. Sustainable Business Performance (SBP)	.58**	.50**	.52**	.57**	.49**	1	

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Note. Correlations significant at p < .01.

The correlation analysis reveals uniform positive and statistically significant associations across the set of study variables. Climate Change Reporting (CCR) exhibits a pronounced positive correlation with Sustainable Business Performance (SBP) (r = .58, p < .01), thereby indicating that organizations that practice rigorous and transparent climate-related disclosures perform more favorably in sustainability metrics. Stakeholder Pressure (SP) similarly correlates with SBP (r = .50, p < .01), thereby emphasizing the influence exerted by external stakeholder demands on the sustainability trajectories of firms. Managerial Risk Perception (RP) also maintains a positive relationship with SBP (r = .52, p < .01), suggesting that executives who acknowledge the strategic significance of climate risks foster more robust sustainability policies. Green Strategic Alignment (GSA) presents one of the strongest links to SBP (r = .57, p < .01), reaffirming the hypothesis that strategic coherence with environmental objectives functions as a mediator in the relationship between sustainability initiatives and concrete performance gains. Top Management Climate Commitment (TMCC) shows significant association with GSA (r = .53, p < .01) and SBP (r = .49, p < .01), thus formally endorsing the argument that leadership commitment to climate objectives shapes both strategic direction and realized performance. Collectively, the findings substantiate the integrated nature of the examined drivers—reporting, stakeholder pressures, and managerial awareness of risk, strategic alignment, and leadership commitment— conclusively participating in the elevation of sustainable business performance within the Pakistani textile sector.

TABLE 4. DIRECT EFFECTS OF INDEPENDENT VARIABLES ON SUSTAINABLE BUSINESS PERFORMANCE (SBP)

	, · · · /					
Hypothesis	Path	β	t	р	Decision	
H1	$CCR \rightarrow SBP$	0.29	5.87	.000	Supported	
H2	$SP \rightarrow SBP$	0.22	4.91	.000	Supported	
H3	$RP \rightarrow SBP$	0.18	3.74	.000	Supported	

The empirical evidence substantiates that Climate Change Reporting, Stakeholder Pressure, and Risk Perception all exert a positive and statistically significant influence on Sustainable Business Performance. Such findings indicate that firm-level sustainability results are shaped not only by external mechanisms—namely mandatory and voluntary disclosure regarding climate dynamics and by the expectations of various stakeholders—but also by a cognitive internal process wherein managerial interpretation of risk is central.

TABLE 5. MEDIATION ANALYSIS (PROCESS MODEL 4. BOOTSTRAP = 5.000)

IADLL J. WIL	TABLE 5. WEDIATION ANALISIS (FROCESS WODEL 4, BOOTSTRAF - 5,000)						
Hypothesis	Indirect Path	Indirect	95% CI (LL,	Mediation	Decision		
		Effect	UL)	Туре			
H4a	$CCR \rightarrow GSA \rightarrow SBP$	0.11	[0.06, 0.18]	Partial	Supported		
H4b	$SP \rightarrow GSA \rightarrow SBP$	0.09	[0.04, 0.15]	Partial	Supported		
H4c	$RP \rightarrow GSA \rightarrow SBP$	0.10	[0.05, 0.17]	Partial	Supported		

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Bootstrapping results disclose that Green Strategic Alignment exerts a significant mediating influence on the relationships whereby CCR, SP, and RP interact with SBP. Given that the direct paths retain statistical significance, one characterises the mediation as partial. The interpretation warranted is that pressures deriving from both external and internal environments retain a direct bearing upon performance, yet the magnitude of that bearing is notably augmented when the pressures are consonant with the firm's strategic orientation.

TABLE 6. MODERATION ANALYSIS (PROCESS MODEL 1, BOOTSTRAP = 5,000)

Hypothesis	Interaction Effect	β	t	р	95% CI (LL, UL)	Decision
H5a	$CCR \times TMCC \rightarrow SBP$	0.12	2.65	.008	[0.03, 0.20]	Supported
H5b	$GSA \times TMCC \rightarrow SBP$	0.05	1.14	.255	[-0.04, 0.13]	Not Supported

Analysis indicates that Top Management Climate Commitment (TMCC) enhances the positive influence of Climate Change Reporting (CCR) on Sustainability Business Performance (SBP), showing that decisive leadership amplifies the advantages of thorough disclosure. Conversely, the interaction term of TMCC and Governance Strategy Alignment (GSA) in the regression model is not statistically significant, implying that alignment of governance strategy with sustainability objectives is a sufficient and necessary condition for improved SBP, with or without pronounced leadership endorsement.

DISCUSSION

This study offers a more nuanced understanding of the responsive aspects of climate change and Sustainable Business Performance in Pakistan's textile sector. Indeed, the data revealed several interconnected determinants, including climate-related corporate reporting (CCR) integration, sustainability performance (SP) cross-case analysis, managerial climate risk perception (RP), green strategic alignment (GSA), and TMCC, regarding the extent to which a firm responds to the business sustainability challenges. Apart from interdependence and influence, these factors operate in complex and highly unpredictable manners to impact corporate performance sustainability. The most posited elements coming together suggest that the outcomes are driven and shaped by sustainability factors, such as external requirements, stakeholder pressure, institutional demand, and resource configuration, in the form of strategic managerial alignment and leadership commitment. This further substantiates the theoretical integration of Stakeholder Theory, Institutional Theory, and the Resource-Based View (RBV) in explaining, for a growing economy, the response of these firms to the challenges of climate change in achieving sustainable competitiveness.

The integration of CCR is said to improve business performance sustainably, and the study's findings corroborate this assertion. This aligns with Stakeholder Theory, which argues that a firm has obligations beyond those of its shareholders. One of the recent examples is the construction of responsibilities concerning climate change (Freeman et al., 2021; Fernando & Lawrence, 2014). Investors' climate-related disclosures improve accountability, proficiency, and prospective investment confidence (Ahmed & Farooq, 2022; Orazalin & Mahmood, 2019). This, in turn, augments the firm's global market legitimacy. Within the framework of Institutional Theory, the Global Reporting Initiative (GRI) and the Task Force on Climate-Related Financial

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Disclosures (TCFD) have global standards of reporting which, in a dual sense, are both coercive and normative to the disclosures of the textile exporters of Pakistan, forcing them to conform to specific reporting standards (DiMaggio & Powell, 1983; Khan et al., 2022). At the same time, the RBV posits that firms that can develop and organize the attributive capabilities for disclosure can reframe reporting to a compliance burden, and, thus, gain superior sustainable performance and competitive advantage (Barney, 1991; Dubey et al., 2019).

The study also reaffirms SP's dual role as both an outcome driver and an outcome motivator, while confirming the Stakeholder Theory. Firms exposed to scrutiny by foreign buyers, NGOs, and even formal regulators are more willing to adopt climate change mitigation policies (Reid & Toffel, 2009; Lee & Pati, 2021). In Pakistan, buyers often act as state regulators in circumstances where the government does not exercise effective governance, resulting in inadequate oversight and compliance with sustainability standards across the supply chain (Sial et al., 2018; Qureshi & Kirmani, 2022). This demonstrates how transnational corporations apply coercive iso-principles to improve eco-compliance in areas where local governance is lacking, as explained by the Institutional Theory. In addition, the RBV suggests that eco-compliance pressures and corresponding eco-innovations, along with adaptive capacity, will further enhance the alignment of sustainable performance with competitive advantage.

The results further suggest that sustainability outcomes are significantly shaped by climate risk perception at the managerial level. Via the RBV lens, it is more probable that managers who understand the risks associated with floods, water scarcity, and energy deficits will more actively mobilize firm-specific resources such as clean technologies, adaptive supply chains, and eco-innovations to fortify competitiveness and resilience (Tang & Demeritt, 2018; Chatterjee & Fan, 2022). In Pakistan's climate-vulnerable settings, where weak enforcement in bounding institutions prevails, the lack of external accountability renders managerial cognition as an important intangible asset that shapes firm strategy (Abbas et al., 2022). From the perspective of Institutional Theory, the importance of climate risks as an institutional motivation reflects mimetic inter-organizational movement. Firms, under climate vulnerability, imitate the proactive actions of other organizations considered as peers and are exposed to the same environmental challenges (Amankwah-Amoah et al., 2021). Thus, climate risk perception at the managerial level is a key element that integrates external institutional expectations with internal capability development to fortify performance in sustainability.

The mediating green strategic alignment (GSA) essentially highlights that external pressures, combined with managerial risk perceptions, yield substantial sustainability results only when strategically considered within the organization. This concept is derived from Stakeholder Theory, which posits that to gain legitimacy and survive, a strategy must be aligned with the interests of stakeholders. From the other side of the institutional theory, GSA ensures that climate actions are not mere empty gestures but are profoundly integrated within governance and organizational processes, along with the institutional framework (Jamali & Karam, 2018). From the RBV perspective, GSA is a strategic dynamic capability that integrates

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sustainability with planning, resource mobilization, and performance appraisal, thus converting external pressures into enduring competitive advantages (Fernando et al., 2019).

Finally, the moderating effect of TMCC focuses upon the leadership's stewardship of the value of the GSA in fostering sustainability performance. From a leadership perspective, commitment is a prized, scarce, and difficult-to-copy resource within the organization, as viewed from the resource-based perspective (Barney, 1991; Zia et al., 2023), which enables firms to gain and maintain a competitive edge through climate efforts. In the case of family-owned Pakistani textile firms, the organizational climate is strategically shifted in balance to achieve positive resource alignment in climate stewardship, thanks to the leadership's pledge context. Within the contours of Institutional Better Theory, I can better address the leadership's embedded coercive and normative pressures for compliance within and access to the international marketplace.

The analysis finds that the sustainable business performance in the textile industry is not the outcome of a single result, but rather the outcome of a complex interaction between institutional pressures, stakeholder interplay, and the firm's resources. This suggests that the combination of Stakeholder Theory, Institutional Theory, and the RBV resolves the puzzle of how climate practices are institutionalized, strategically utilized, and reframed as instruments of legitimacy, resilience, and enduring competitive advantage in relation to SDG-13 (climate action).

THEORETICAL IMPLICATIONS

CONTRIBUTIONS TO MANAGEMENT, SUSTAINABILITY AND CLIMATE REPORTING LITERATURE

This research combines the concepts of working capital management and corporate governance under a single umbrella of financial performance, providing the management and sustainability literature with further insights. Earlier research, notably Deloof (2003) and Gill and Biger (2013), pursued either an operational efficiency stream or a governance mechanisms stream. This research finds operational efficiency and governance mechanisms in both competitions, which reinforces the overall enhancement of the firm. The research extends the understanding of cross-financial governance in fostering sustainable business practices by distinctively integrating them with a company's financial performance and climate sustainability reporting. The evidence in particular demonstrates that governance mechanisms that foster climate disclosure accountability and transparency cross-tie with the corporate governance principles of financial information disclosure (Nguyen, Kim, & Ali, 2024). This research contributes to the discussion on effective methods for integrating financial and non-financial reporting to achieve sustainable value creation.

REFINEMENT OR EXTENSION OF RELEVANT THEORIES

The results also contribute to the theoretical developments in corporate finance and governance. From the perspective of Agency Theory, which argues that governance structures resolve conflicts of interest and direct managers to optimize the firm's value (Jensen & Meckling, 1976), the research supports Agency Theory because corporate governance improves the association between working capital management and financial performance. Additionally, the approach to integrating sustainability and climate reporting enhances the Resource-Based View

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(RBV), leading to a better-governed firm that more efficiently manages its capital to gain a competitive advantage not only in financial performance but also in credibility and reputation with stakeholders (Barney, 1991). Hence, the research seeks to contribute to financial management theory in the light of the emerging sustainability paradigm, which emphasizes the importance of effective corporate governance and responsible strategic resource management. This has become increasingly evident in recent corporate practices.

PRACTICAL AND POLICY IMPLICATIONS

MANAGERIAL RECOMMENDATIONS

The results of this study have specific implications for non-financial sector management in Pakistan. First, the strengthening of sustainable financial goals alongside practices in working capital management (WCM) as improved financial performance practices remains one of the key elements for gaining market power. High-impact (sustainability, climate-related) disclosure practices, focused on climate targets (Elkington, 1997), strategically complement the dominant achievements in transparency, building accountability for local and international partners. Second, the integration of financial performance and sustainability is an encouragement received by management. Operational effectiveness should not only be achieved in conjunction with revenue maximization. Resources ought to be used efficiently and socially, ethically. In this regard, primary governance action is essential in promoting a responsible culture, where governance tools are established to set limits on financing, ensuring the ethical conduct of financial and climate-sensitive resource management. In this context, managers begin to focus on the set and balanced value criteria in relation to business performance, alongside the rising pressures from market partners.

RECOMMENDATIONS FOR INDUSTRY BODIES (APTMA), BUYERS, AND POLICYMAKERS

The findings also give a set of recommendations to trade associations, customers, and policymakers. To take the example of trade associations, APTMA along with other organizations need to formulate cross-cutting frameworks that harmonize WCM efficiency with WCM performance on sustainability reporting so that firms' global competitiveness and compliance to requirements is achieved. Buyers, especially the foreign ones, need to focus on supplier development programs that assist in governance based financial and climate reporting to achieve supply chain resiliency and reputation sustainability (Kolk, 2016). For policymakers, on the contrary, the challenge is to provide support for WCM reporting frameworks, in the form of tax subsidies, capturable within other limits like access to foreign investment markets for reporting clients, or capture ratios. It is also necessary to design and implement governance-based climate and financial reporting frameworks. Such coordinated actions will not only enhance Pakistan's competitiveness in global markets but also jointly fulfill the global obligations on sustainable development and climate change.

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LIMITATIONS AND DIRECTIONS FOR FUTURE RESEARCH

Like all empirical studies, this research is subject to certain limitations that provide opportunities for future investigation. First, the study primarily focused on Pakistani listed non-financial firms, which may limit the generalizability of findings to other contexts, such as financial institutions or firms operating in different regulatory and cultural environments. Future research could extend the scope to include cross-country comparisons or sectoral analyses, thereby offering broader insights into the interplay between working capital management, corporate governance, sustainability, and financial performance.

Second, the study relied on secondary data and quantitative measures, which, while robust, may not fully capture the qualitative dimensions of managerial decision-making, corporate governance practices, or climate reporting disclosures. Future studies could adopt mixed-method approaches, incorporating interviews or case studies, to provide a deeper understanding of how managers interpret and implement sustainability-driven governance practices in relation to financial outcomes.

Third, the dynamic nature of sustainability and climate-related reporting standards poses another limitation, as frameworks are continuously evolving. This may affect the long-term applicability of the findings. Researchers are encouraged to examine the impact of newly emerging reporting frameworks (e.g., ISSB, TCFD, and CSRD) and their integration with financial performance indicators.

Finally, while the study considered the moderating role of corporate governance, it did not explore other potentially significant moderating or mediating mechanisms such as organizational culture, digital transformation, or stakeholder engagement. Future research could investigate these factors to refine the theoretical understanding further and provide more comprehensive models that explain firm performance in the context of sustainability and climate-related challen

CONCLUSION

This study aimed to investigate the relationship between working capital management and financial performance, while considering the moderating influence of corporate governance and the increasing importance of sustainability and climate-related reporting. The findings contribute to the management and sustainability literature by demonstrating that effective working capital management enhances firm performance, and that this relationship is further strengthened when strong governance mechanisms are in place. Furthermore, the study highlights the importance of transparent reporting and alignment with sustainability imperatives as key strategic levers for enhancing organizational resilience and competitiveness. The theoretical contributions of this research lie in refining the understanding of how corporate governance interacts with financial management practices under the broader lens of sustainability and climate-related disclosure. Practically, the study offers valuable recommendations for managers, industry bodies, and policymakers, highlighting the need for integrated reporting practices, capacity building, and policy incentives that align financial and sustainability objectives.

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Overall, the research offers both scholarly and practical insights, reaffirming that firms capable of strategically managing their resources and embedding strong governance practices are better positioned to achieve sustainable financial outcomes in an increasingly uncertain global environment. By bridging the domains of management, sustainability, and climate reporting, this study advances ongoing debates. It lays the groundwork for future inquiry into the evolving relationship between financial performance and sustainable development.

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