Effects of Green Transformational Leadership on Green Creativity and Pro-Environmental Behavior of Employees through Mediating Role of Environmental Commitment in Hotel Industry of Islamabad, Pakistan



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DEDICATION

To My Parents

Your support lifts me up, and your encouragement fuels my strength.

To My Siblings

You all are my favorite chapter in life, creating sparkling memories together. Forever grateful for this amazing adventure with each of you.

To My Supervisor

Your confidence in my work and motivating comments consistently enhance my skills. I am grateful to be learning under your guidance, and it brings me immense joy.

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Sana Shoukat

ABSTRACT

This study investigates the connection in-between Green Transformational Leadership (GTL), green creativity, pro-environmental behavior, and environmental commitment within the hotel industry, focusing on front-line employees in Islamabad, Pakistan. Applying a quantitative approach, the research aims to offer a detailed understanding of these relationships. A positivist research philosophy guides the quantitative research type, using a deductive approach to test hypotheses based on existing theories. Purposive sampling of 107 front-line employees from three-to five-star hotels affiliated with the Pakistan Hotels Association is utilized, promoting diversity. The study utilizes questionnaires to measure key variables and underlines responsible and clear research practices. This complete research design ensures a detailed examination of the impact of GTL on individual employees, contributing to a detailed understanding of the hotel industry's eco-friendly practices.

Keywords: (Green Transformational Leadership, Green Creativity, Pro-Environmental Behavior, Hospitality, Pakistan, Environmental Commitment)

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CHAPTER-01

INTRODUCTION

1.0 Background of the Study

Hospitality, beyond its role as a growing business sector, clearly contributes to human well-being and the global economy. In 2022, the industry made a direct economic contribution of approximately USD 40 billion, and a proposed contribution of around USD 68 billion by 2027 in global gross domestic product. However, the sector struggles with critical concerns raised by stakeholders including pressure groups, environmental activists, and governments, particularly about environmental sustainability. The #Onlyoneearth campaign, supported by the United Nations Environmental Program, highlights the importance of collective action from individuals, governments, businesses, and corporations. Particularly, environmental sustainability for hospitality is also a key focus of the United Nations' Sustainable Development Goals (SDGs) under climate action SDG 13, the hospitality industry is responsible for about 1% of global carbon emissions and has been required to reduce emissions by 66% by 2030 and 90% by 2050, relative to 2010 levels (Aprill & O'Neil, 2019; Dagnachew & Hof, 2022). Later, with ongoing efforts to eliminate single-use plastics, their frequent use remains a challenge. Similarly, Water which is an essential factor for hotel operations requires careful consideration (Han & Hyun 2018). Furthermore, the hospitality industry relies heavily on the natural world, and it poses a threat to endangered species poses a challenge. However, securing a sustainable future for the hospitality industry requires a crucial focus on balancing economic growth with environmental responsibility.

In recent years, the hospitality sector in Pakistan has demonstrated a significant role in the nation's economic development, with an acceptable average growth rate of 5.0% in hotel establishments over the last five years. However, facing challenges such as the recent pandemic and floods (Manzoor, Wei, Asif, Haq, & Rehman, 2019), the sector contributed substantially with 7.1% to the country's GDP, driven by a rise in tourism. However, the economic value of Pakistan's hotel industry falls behind other service sectors due to environmental concerns, focusing on the need for a greener approach.

The hotel industry's direct impact on environmental issues includes water, waste, and energy with implications for the overall environmental balance. Moreover, the sector's key degrading

contributions include intensive usage of water, electricity, and energy consumption (Abdou, Hassan, & El Dief 2020). Recent research highlights the potential threat raised by hotel industry policies if not managed with environmental considerations in mind (Legrand, Chen, & Laeis, 2022). Furthermore, in response to environmental challenges, the hospitality industry is increasingly motivated to address environmental issues, giving rise to the concept of "green creativity." This involves not only adopting sustainable and environmentally friendly practices but also promoting innovative solutions that align with the Sustainable Development Goals (SDGs). By adopting a culture that prioritizes green and efficient practices, the industry not only benefits the environment but also makes significant contributions to both national and global sustainability objectives. Moreover, implementing environmentally friendly measures, like saving energy, reducing waste, and using renewable resources, can particularly decrease a hotel's carbon footprint. These practices not only bring environmental advantages but also improve the hotel's image, draw in environmentally aware travelers, and increase revenue. The positive impact of these green initiatives holds the broader economy by generating employment, supporting local businesses, and encouraging sustainable tourism. Thus, this can contribute to positive growth in the country's GDP.

1.1 Problem Statement

In Pakistan's growing hotel industry, the focus on green creativity, pro-environmental behavior, and sustainable practices becomes crucial. Despite the industry's contribution to the country's economy, environmental concerns maintain globally. Issues like waste, energy use, and water consumption highlight the need for a shift to greener practices.

The hotel industry in Pakistan, while experiencing growth, faces enlarged challenges due to environmental issues. Abdou et al. (2020) highlight the environmental impact of high water, electricity, and energy use, declined by potentially harmful policies. Responding to these challenges, "green creativity" emerges as a proactive approach, involving not only eco-friendly practices but also innovative solutions aligned with global sustainability goals, including the United Nations' Sustainable Development Goals (SDGs).

The literature highlights the essential role of leadership in guiding organizations toward ecofriendly practices. Green transformational leadership, known for encouraging commitment to the environment among employees, stands out. While current research recognizes the positive impact of green transformational leadership on employee creativity across various industries, there is a noticeable gap in understanding the complex change specific to the hospitality sector. The hospitality industry, operating within a unique framework defined by different challenges, customer expectations, and environmental responsibilities, stands apart from other sectors. Despite the general acknowledgment of leadership's positive influence on creativity, there remains a lack of clarity into how environmental commitment, especially crucial in environmentally sensitive industries like hospitality, acts as a mediator in this relationship.

This gap is established for several key reasons. Firstly, the hospitality industry's distinct characteristics, emphasizing customer experience and its direct impact on environmental resources (Kandampully, Zhang, & Jaakkola, 2018; Kwon, & Boger, 2021), demand a detailed understanding that existing studies, while laying a foundation, lack in clarity to the hospitality context. Additionally, the importance of employees being committed to the environment is increasing, especially in the hospitality industry (Pham, Tučková, & Phan, 2019; Cop, Alola, & Alola, 2020). It is critical to figure out how employees' dedication to the environment influences the relationship between leadership and creativity. The lack of this information makes it challenging to create specific plans for promoting eco-friendly practices in hotels.

Moreover, in the hospitality industry, where customer satisfaction and positive stakeholder relationships are dominant, the importance of environmental commitment as a mediator becomes even more significant (Úbeda-García, Claver-Cortés, Marco-Lajara, & Zaragoza-Sáez, 2021). It influences not only internal processes but also external perceptions and relationships with environmentally conscious guests, setting it apart from other sectors. The understanding of the mediating role of environmental commitment holds crucial policy implications within the hospitality industry. It can inform decisions shaping sustainable practices, employee training programs, and leadership strategies adapted by the unique needs of hotels. Such understandings contribute not only to environmental protection but also to economic growth within the industry.

This research aims to fill this gap by studying how green transformational leadership influences environmental commitment among hotel employees and, consequently, how this commitment mediates the effects of leadership on both green creativity and pro-environmental behavior.

1.2 Research Objectives

This study aims to investigate the connections between leadership, environmental commitment, creativity, and environmentally friendly actions in the context of hotels. The primary objectives include studying how green transformational leadership (GTL) influences both green creativity (GC) and pro-environmental behavior. Additionally, the study seeks to understand the mediating role of environmental commitment (EC) in the relationships between GTL and both GC and pro-environmental behavior. By achieving these objectives, the research aims to offer detailed knowledge into how leadership practices, particularly GTL, shape eco-friendly actions and creative ideas among hotel staff. Special attention will be given to the mediating influence of commitment to environmental sustainability (EC). The ultimate goal is to provide practical recommendations for promoting sustainable practices, encouraging creativity, and enhancing eco-friendly behavior within the unique context of the hotel industry.

1.3 Research Questions

The research questions explore the complicated action of the relationships between variables. Exploring the impact of green transformational leadership on green creativity, the influence of proenvironmental behavior on green creativity, and the mediating role of environmental commitment in these relationships. The research questions of this study are as following;

RQ1 What is the impact of GTL on green creativity?

RQ2 What is the impact of GTL on pro-environmental behavior?

RQ3 Does environmental commitment mediate the relationship between GTL and GC?

RQ4 Does environmental commitment mediate the relationship between GTL and proenvironmental?

1.4 Contributions

This study contributes significantly to understanding the effects of environmental commitment as a mediator in the relationship between green transformational leadership, green creativity, and proenvironmental behavior within the unique context of the hotel industry in Pakistan. By investigating this mediating role, the research offers valuable understandings supported by realworld evidence. The study addresses a population gap by focusing on the hotel industry, contributing to the limited literature on the specific actions of environmental commitment in this context. Furthermore, the in-depth data collection approach enhances the reliability and applicability of the study's findings, making it a valuable contribution to the existing body of knowledge. The ultimate goal is to not only advance theoretical understanding but also provide practical recommendations for promoting sustainable practices, encouraging creativity, and enhancing eco-friendly behavior in the hotel industry.

1.5 Scope of the Study

1.5.1 Hospitality Industry

In the hospitality sector, there is a noticeable gap in the critical examination of Green Transformational Leadership (GTL) practices, especially within the context of the hotel industry. Developed nations emphasize GTL development, yet limited research exists on its application in hospitality. This research focuses on GTL concerns in the hotel sector, offering a unique perspective. Effective GTL practices are essential for encouraging a positive work environment and promoting eco-friendly behaviors. By concentrating on managerial levels, the study aims to bridge the gap between top and lower management. In hotels, senior executives' support of green creativity signals support for eco-friendly practices, motivating employees to contribute ideas that reduce the hotel's environmental impact. This not only enhances job satisfaction but also aligns with the industry's commitment to sustainability, encouraging an eco-conscious and innovative values.

1.5.2 Unit of Analysis

The research will be conducted at the managerial level, acting as a crucial link between top executives and lower management in the hotel industry of Pakistan. Green creativity promotion by senior executives signifies encouragement for eco-friendly practices and innovation. This managerial approach promotes a positive work environment, making employees feel valued and motivated. Their active involvement in reducing the hotel's environmental footprint, such as energy conservation and waste reduction, enhances job satisfaction and loyalty. This emphasis on the managerial level ensures that the study captures the influential role of leadership in promoting

sustainability, contributing to a more eco-conscious and innovative atmosphere within the hotel industry.

CHAPTER-02

LITERATURE REVIEW AND UNDERLYING THEORY

2.1 Green Transformational Leadership as an Important Source of Green Creativity

Chen (2013) defines green transformational leadership as the capacity of a leader to inspire employees to exceed social norms and attain environmental objectives. Because customers are more worried about the environment and seek out ecologically friendly items, green innovation has grown to be an effective competitive tool (Meidute-Kavaliauskiene, Çiğdem, Vasilis, Vasiliauskas, & Yıldız, 2021). Rational encouragement and promoting inspiration are two strategies used by transformational leaders (Al Ahmad, Easa, & Mostapha, 2019; Kozioł-Nadolna, 2020) to stimulate innovation in their organizations. According to Khan, Amin, and Saif, (2022), transformational leaders can generate creative ideas and motivating their employees to change.

Previous research has shown that GTL has a strong relationship (Naveed Saif, 2014) with organizational innovation (Özgül & Zehir, 2023; Elrehail, Emeagwali, Alsaad, & Alzghoul, 2018). GTL is beneficial in generating new ideas (Singh, Del Giudice, Chierici, & Graziano, 2020), and leaders can promote new ideas by encouraging employees to think through an issue from every aspect (Kremer, Villamor, & Aguinis, 2019). Green transformational leadership will improve an organization's performance and minimize unfavorable consequences that affect the organization's overall performance (Singh et. al. 2020). Additionally, we will identify the most effective green transformational leader trait that will help in determining the employee's green performance. Transformational leadership involves behavioral elements that force customers to think outside the box. The implementation of transformational leadership is crucial in problem-solving from diverse angles (Nyakomitta, 2021; Begum, Ashfaq, Xia, & Awan, 2022).

An important factor in influencing eco-friendly practices in Pakistan's hotel sector is green transformational leadership. Green transformational leaders encourage and inspire their employees to adopt sustainable practices (Rehman & Yaqub, 2021). These leaders inspire their staff to think creatively about implementing eco-friendly solutions into their everyday operations by cultivating a culture of environmental awareness. This strategy encourages innovation and a sense of

responsibility that goes beyond simply following environmental laws. As a result, eco-friendly techniques are being developed within Pakistan's hotel business. The way that hotels address sustainability concerns demonstrate the influence that green transformational leadership has on creative thinking. Green creative thinking is coming up with creative concepts that benefit the community, the environment, and overall corporate operations while simultaneously minimizing harm to the environment (Song & Yu, 2018).

This consequently gives rise to innovative and sustainable concepts that improve the hotel industry's overall green performance in Pakistan. The term "green transformational leadership" describes the process of coming up with new ideas for environmentally friendly goods, services, procedures, or methods that are deemed creative, innovative, and practical (Arici & Uysal, 2022). Previous research in the hospitality sector showed a strong relationship between green transformational leadership and green creativity (Li, Bhutto, Xuhui, Maitlo, Zafar, & Bhutto, 2020; Liu, Wang, Hu, Lin, & Mao, 2020; Al-Ghazali, Gelaidan, Shah, & Amjad 2022).

H1: There is a significant relationship between green transformational leadership and green creativity.

2.2 Green Transformational Leadership Shaping Pro-Environmental Behavior in Pakistan's Hotel Industry

Green transformational leadership influences employee voluntary pro-environment behaviors through internal motivations and emotional states (Mi, Gan, Xu, Long, Qiao, & Zhu, 2019; Li, Xue, Li, Chen, & Wang, 2020). Green transformational leaders, in particular, can set an example for workers in their organizations so that they become familiar to a system that can be environmentally conscious (Chen, Chang, & Lin, 2014), exert an idealized influence of environmental protection, advocate for and put environmental protection concepts into practice to create a "role model" effect, and mold behaviors that align with environmental vision. Significantly, in these processes, environmental inspirational motivation may build confidence and passion in workers, encouraging them to consider environmental issues (Robertson and Barling, 2013). This indicates to workers that environmental protection needs to be given priority (Li et al., 2020). Simultaneously, green transformational leaders offer the resources required in the workplace that allow staff members to reach their full potential and enhance their environmental

protection and problem-solving skills through intellectual stimulation related to the environment (Robertson and Barling, 2013; Zhou et al., 2018). According to Robertson and Barling (2017), employees might also get the confidence to take on difficult environmental protection tasks and duties by practicing personal care for the environment.

To be an environmentalist, one needs to understand what is meant by the term "environment." "The sum total of all living and nonliving things in a particular area, especially one considered as influencing the growth or behavior of living things" is the definition of an environment (Dietz, Kalof, & Stern, 2002). It is crucial to take note of this definition since it provides us with guidelines for appropriate behavior in a certain setting. An environmentalist is someone who understands how their actions affect the environment and how they may affect their own health. Being an environmentalist is about being aware of what we do and how we can change the world, not simply about recycling and driving a Prius (Barr, 2004).

Green Transformational Leadership is driving a change in pro-environmental behavior in Pakistan's hotel business. Leaders that take this approach encourage their employees to go beyond traditions and adopt environmentally friendly behaviors. This type of leadership style promotes environmental awareness and creative ways to incorporate sustainability into regular hotel operations. Hotels in Pakistan are leading the way in promoting pro-environmental behavior in the business and reducing their ecological impact by recognizing effective leadership attributes and fostering a commitment to sustainability (Afridi, Javed, Ali, Zafar, & Haider, 2023).

H2: There is a significant relationship between green transformational leadership and proenvironmental behavior.

2.3 The Mediating Influence of Environmental Commitment on the Relationship between Green Transformational Leadership and Green Creativity

Employee environmental commitment is defined as "a frame of mind denoting both a feeling of attachment and responsibility to environmental issues in the workplace" by Raineri and Paillé (2016). Because employee environmental dedication can be used as a gauge to evaluate organizational actions and attitudes, it can be quite essential. According to Grant et al. (2008), environmental commitment helps us understand the relationship between employees and organizations about the environment (Gul, 2015). Although employee environmental commitment is significant and helps green practises flourish, little is known about how it interacts with other green factors within an organization (Paillé & Valéau, 2021).

A few examples of factors that can influence an employee's environmental commitment are their identification with environmental values, their belief in acting in a way that is morally right for the environment, and their awareness of the potential negative effects on the environment of not taking certain actions or measures (Keogh & Polonsky, 1998). Keogh and Polonsky (1998) presented a three-part model to describe how workers demonstrate environmental commitment. The model categories of employee environmental commitment can be produced by the three primary forces— effective, continuous, and normative which result in links of obligation that are rational, felt, and emotional. According to the current research, employees can be regarded as highly devoted to environmental issues when they show that they have environmental intentions, beliefs, and efforts toward achieving environmental goals.

The way that hospitality is provided is changing in Pakistan's dynamic hotel business due to the mediating effect of environmental commitment on the interaction between Green Transformational Leadership and Green Creativity. The way that green transformational leadership and green creativity interact is changing in Pakistan's dynamic hotel industry as a result of the mediating role that environmental commitment plays in this connection. These organizations' Green Transformational Leaders encourage a dedication to environmental responsibility, which causes a change in the mindset of employees (Meraj, Nasir, Shafqat, & Indrees, 2023). This dedication functions as an essential go-between, directing the impact of transformational leaders in the direction of encouraging Green Creativity.

Under the direction of these leaders, employees are actively using their creativity to adopt sustainable practices in addition to following environmental standards. As hotels in Pakistan place an increasing emphasis on being green, environmental commitment plays a mediating role that acts as the center of gravity, guaranteeing that the industry's visionary leadership is translated into tangible eco-innovations (Yousaf, Radulescu, Sinisi, Serbanescu, & Paunescu, 2021). The hotel business in Pakistan is undergoing a creative and environmentally conscious revolution, and environmental commitment plays a crucial mediating role as hotels aim to fit with global sustainability goals. This paradigm improves their overall environmental performance.

H3: Environmental commitment mediates the relationship between green transformational leadership and green creativity

2.4 The Mediating Influence of Environmental Commitment on the Relationship between Green Transformational Leadership and Pro-environmental Behaviour

Environmentalism is a concept that has been discussed recently due to the excessive use of disposable products, environmentally harmful manufacturing processes, and the disruption caused by natural disasters. It advocates and supports the preservation of natural resources and their transfer to future generations (Yue, Sheng, She, & Xu, 2020; Khoaele, Gbadeyan, Chunilall, & Sithole, 2023). The idea of environmental commitment became apparent as a result of interactions between people and the natural environment, which is an essential component of human existence and is commonly linked to one another (Mebratu, 1998).

According to Davis, Green, and Reed, (2009) the concept of environmental commitment is defined by an individual's long-term adaption and psychological attachment to the environment. One of the most important issues for organizations today is natural environmental management, which arose from legislation set by national governments and pressure from people who were very committed to the environment and these problems have a substantial impact on every step of a company's operations (Lindblom & Ohlsson, 2011). Particularly with postmodernism, there has been a rapid change in expectations and wants that has increased production and consumption, which has contributed to the loss of natural resources and environmental damage. However, people who understand the need of preserving natural resources for the continuation of life favour the products and services offered by environmentally conscious businesses (Agrawal, Agrawal, Samadhiya, Kumar, Luthra, & Jain, 2023). Environmentally conscious workers will be employed by companies that produce goods and services thanks to their environmental management systems (Mendis & Welmilla, 2021). This will make it simpler for customers who favour eco-friendly products to find these companies and become devoted customers.

Due to their recent adoption of environmentally friendly practices, hotels which provide services and play a significant role in the tourism industry have come to be recognized as "Green Hotels" (Abdou, Hassan, & El Dief, 2020). To minimize environmental harm, a hotel company that cares about the environment also actively employs green management and marketing techniques and adheres to eco-friendly regulations. However, according to Tanveer, Yusliza, & Fawehinmi, (2023) these methods also allow hotel staff members to improve their views on the environment, leading to more ecologically conscious and conscientious behaviour.

Prioritizing green practices among hotel leaders promotes a sense of dedication to environmental responsibility among their workers. This dedication acts as a bridge, converting the leadership's vision into tangible actions and behaviours that support the creation of a greener hotel environment. In essence, the dedication to environmental values serves as a link between the proenvironmental behaviour culture in the hotel industry and the impact of transformational leadership.

H4: Environmental commitment mediates the relationship between green transformational leadership and pro-environmental behaviour.

2.5 Underlying Theory

The theory guiding this study is the Social Exchange Theory, created by George Homan in 1958. This theory looks at how people evaluate the advantages and disadvantages of their interactions. In simple terms, it suggests that when individuals do something, they expect to get something valuable in return, whether it's something you can touch or just a positive feeling (Cropanzano & Mitchell, 2005). In organizations, this theory helps us understand how leadership styles, especially Green Transformational Leadership (GTL), influence how employees act, like caring for the environment, being creative, and doing things that are good for the environment.

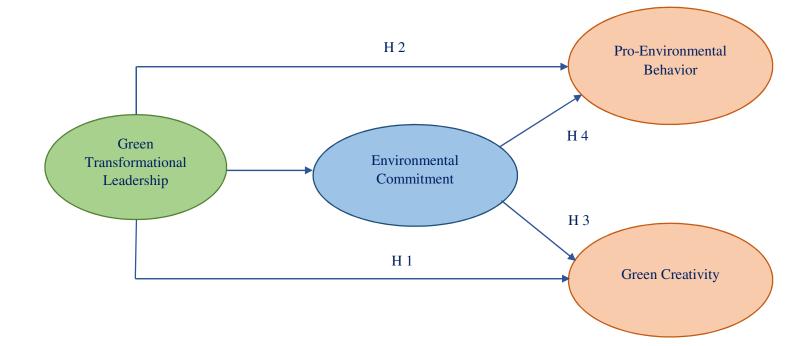
This study is based on the idea that GTL, a leadership style that inspires employees to go beyond normal ways of doing things and achieve environmental goals, creates positive interactions at work (Du & Yan, 2022). GTL, according to Sun, El Askary, Meo, and Hussain, (2022) goes further than regular leadership, encouraging employees to be innovative and creative. This fits with the Social Exchange Theory, where leaders, through GTL, inspire and support employees, expecting them to be more creative and committed in return. Furthermore, employee environmental commitment, as described by Raineri and Paillé (2016), is when employees feel attached and responsible for

environmental issues at work. In the Social Exchange Theory, this commitment is vital, showing the expectations and responsibilities between employees and the organization. Raineri and Paillé (2016), further argued that this commitment helps us understand how employees and organizations feel about the environment, making it important in the context of social exchange and environmental practices.

Furthermore, Social Exchange Theory to see how GTL affects two things: employee green creativity (coming up with new and eco-friendly ideas) and pro-environmental behavior (doing things that are good for the environment). The theory suggests that the positive and give-and-take nature of interactions at work should lead to creative ideas and actions that are good for the environment. Studies by Wikhamn and Hall (2012) and Liu and Qi (2022) support the idea that these outcomes are part of the social exchange process.

In Pakistan's hotel industry, we see how the Social Exchange Theory works. GTL, by inspiring employees to think creatively and be environmentally friendly, starts a positive exchange. Employees, in return, contribute to the organization's goals for sustainability, creating a back-and-forth relationship. The commitment to environmental responsibility, encouraged by GTL, becomes the key that holds this relationship together, making sure it's sustainable and good for everyone involved. Moreover, understanding social exchange in organizations has practical benefits. GTL practices act as positive influences, encouraging commitment, creativity, and environmentally friendly actions. This positive give-and-take, grounded in the Social Exchange Theory, has the potential to make organizations successful, more sustainable, and better for the environment, especially in the hotel industry. In conclusion, the Social Exchange Theory is a strong foundation for looking at how GTL, employee environmental commitment, green creativity, and pro-environmental behaviour are connected in Pakistan's hotel industry. The theory's focus on give-and-take relationships fits well with the way sustainable leadership works, providing a solid framework for understanding and predicting how employees will act in response to GTL, all for the sake of environmental sustainability.

2.6 Theoretical Framework



CHAPTER-03

METHODS AND METHODOLOGY

3.1 Research Design

Abbott and McKinney (2013) argued that the research design serves as the most critical aspect for the entire research process, guiding the collection, analysis, and interpretation of data. In this study, a comprehensive quantitative approach is used and this approach provide a detailed understanding of the relationships between Green Transformational Leadership (GTL), green creativity, proenvironmental behavior, and environmental commitment. The overall goal is to uncover the complex actions within the context of front-line employees working in hotels in Islamabad.

3.1.1 Research Philosophy

The selection of an appropriate research philosophy is crucial as it shapes the researcher's approach to knowledge generation (Crossan, 2003). In this study, a positivist research philosophy is adopted. Positivism emphasizes empirical observation and measurable phenomena, aligning well with the quantitative nature of the investigation. This choice supports the commitment to objective, observable, and reproducible findings, providing a solid foundation for statistical analysis.

3.1.2 Research Type

The research type used in this study is quantitative, promoting the systematic collection and analysis of numerical data. This approach enables the quantification of variables, facilitating statistical examination and contributing to an objective understanding of the research questions (Bloomfield & Fisher, 2019). By employing quantitative methods, the study aims to derive generalizable insights applicable to the broader population of front-line employees in the hotel industry.

3.2 Research Approach

The deductive approach is applied in this study, involving the formulation of hypotheses based on existing theories and literature (Soiferman, 2010). This systematic and structured approach ensures that the research is grounded in established knowledge, guiding the subsequent empirical testing of these hypotheses. The deductive approach is particularly relevant when seeking to examine the relationships between variables and establish causality, as is the case in this investigation.

3.3 Population and Sampling

The study targets front-line hotel staff in Islamabad, recognizing the impossibility of studying the entire population. To ensure meaningful insights, a purposive sample will be chosen, representing diversity within the broader population. The sample size, determined using Morgan's Table (Chuan & Penyelidikan, 2006), consists of 107 respondents, including Pakistani employees from three-, four-, and five-star hotels affiliated with the Pakistan Hotels Association (PHA). Focusing on PHA-affiliated hotels is strategic, offering a cross-section of Islamabad's hotel industry with diverse employee demographics, thus enhancing the external validity of findings.

The research employs nonprobability purposive sampling to investigate environmentally conscious GTL practices and their impact on employees' pro-environmental behavior. This intentional selection allows for the involvement of participants with relevant understandings and experiences. Utilizing a multi-stage technique, three strata are created, and employees are selected using a proportionate sample. Purposive sampling aligns with the research objectives, aiming to explore the experiences and perceptions of front-line employees concerning GTL practices. This intentional selection provides context-specific data, contributing to a deeper understanding of the research questions in a logical manner.

3.4 Unit of Analysis

The unit of analysis in the present research is individual front-line employees working in hotels in Islamabad. The focus on individual front-line employees ensures a detailed examination of their perspectives, behaviors, and responses, providing valuable insights into the impact of green transformational leadership on environmental commitment, creativity, and pro-environmental behavior within the specific context of hotels in Islamabad. Moreover, by narrowing the focus to this specific group, the study aims to capture the complexities of their experiences, perceptions, and behaviors in response to GTL practices. This choice of unit is essential for gaining awareness into the impact of leadership practices on individual employees, contributing to a more detailed understanding of the broader organizational context.

3.5 Measurement Instruments

The measurement instruments used this study play an important role in collecting data that aligns with the research objectives. Questionnaires serve as the primary tool for gathering information from front desk staff in the targeted hotels in Islamabad. These questionnaires are carefully designed to measure the key variables of interest: GTL, green creativity, pro-environmental behavior, and environmental commitment.

The decision to use questionnaires is based on their efficiency in gathering standardized responses from a large sample. The inclusion of a five-point Likert scale, ranging from "Strongly Disagree" to "Strongly Agree," adds a quantitative dimension to the responses. This structured format not only facilitates data analysis but also allows for the comparison of responses across participants.

The GTL questions, consisting of 5 items, were adopted, and credit goes to the questionnaire's author Younis and Hussain (2023). The Pro-environmental behavior questionnaire, comprising 5 items, was sourced from an article penned by Florian Lange and Siegfried Dewitte in 2019. Furthermore, the questionnaire for Green Creativity was adopted from an article which was written by the Jiang, Wang, Lu, Liu, Wang, and Li (2020) and Environmental commitment was borrowed from Shah, Al-Ghazali, Bhatti, Aman, Fahlevi, Aljuaid, and Hasan, (2023).

The research used questionnaires with 5 items each to gather data. The Green Transformational Leadership (GTL) questionnaire measures employees' perceptions of leadership practices, ensuring visibility. The Green Creativity questionnaire assesses creative responses to environmentally conscious leadership. The Pro-environmental Behavior questionnaire measures environmentally friendly behaviors, chosen for its established validity. The Environmental Commitment questionnaire captures individuals' commitment to sustainable practices, based on established frameworks.

3.6 Ethical Considerations

Ensuring research ethics is important for conducting a responsible study. Approval is obtained from senior hotel management before data collection, safeguarding organizational confidentiality and aligning with establishment policies. Similarly, front-line staff members provide their understandings to uphold research ethics. This highlights participants' full awareness of the study's objectives and potential implications, highlighting the voluntary nature of their involvement and assuring the utmost confidentiality of their responses. Ethical considerations are integral to the research design and execution, reflecting a commitment to responsible and transparent research practices. Moreover, the choice of distributing questionnaires personally and via an online portal is made with ethical considerations in mind. Personal distribution allows for direct communication with participants, clarifying any queries they may have. The online portal option caters to the convenience of participants.

3.7 Data Analysis Technique

The research used a comprehensive methodological approach including data collection and analysis. The process involved utilizing various statistical techniques, including Reliability Analysis for all variables, Frequency Tables, and Demographics assessment. Descriptive Statistics, Skewness, and Kurtosis analyses were conducted to understand the distributional characteristics of the data. Additionally, correlation and regression analyses were employed to examine the relationships among the variables. The primary focus of the investigation was to explore the linkages between green transformational leadership (GTL) as the independent variable, environmental commitment as the mediator, and green creativity and pro-environmental behavior as the dependent variable. To achieve this, Smart Partial Least Squares (smart PLS) was utilized. Partial Least Squares Structural Equation Modeling (PLS SEM) software facilitates a comprehensive examination of complex relationships, providing a powerful platform for assessing the connection between variables in the context of our research.

CHAPTER-04

DATA ANALYSIS AND FINDINGS

4.1 Data Analysis and Findings

The study has employed Partial Least Squares Structural Equation Modeling (PLS SEM) to analyze the complex relationships among variables. The focus is on assessing both the measurement and structural models, providing a comprehensive examination of hidden concepts and causal relationships within our research context.

Moreover,

4.2 Skewness and Kurtosis (Normality)

Normality is assessed by analyzing skewness and kurtosis of the sample data, and the aim of assessing normality is to determine whether the data is sourced from normally distributed population. For this study the normality assessment was performed on SmartPLS 4. The results of the sample data demonstrate normal distribution as both the skewness and kurtosis are under acceptable range of +2 to -2 and +7 to -7 (George & Mallery, 2010) respectively. Moreover, it's worth mentioning here that PLS SEM test has capability to not only perform test with normally distributed data, but it can also deal the abnormal data.

Name	Missing	Mean	Median	Standard deviation	Excess kurtosis	Skewness	Cramér-von Mises p value
EC1	0	3.963	4.000	0.655	4.784	-1.381	0
EC2	0	3.981	4.000	0.785	0.401	-0.672	0
EC3	0	3.972	4.000	0.779	0.452	-0.673	0
EC4	0	3.888	4.000	0.777	1.564	-0.890	0
EC5	0	3.925	4.000	0.770	1.925	-0.992	0
GC1	0	4.028	4.000	0.901	2.831	-1.377	0
GC2	0	4.037	4.000	0.916	3.417	-1.553	0
GC3	0	3.869	4.000	0.897	1.000	-0.917	0
GC4	0	4.000	4.000	0.797	2.638	-1.123	0
GC5	0	4.047	4.000	0.890	1.655	-1.141	0
GTL 1	0	3.579	4.000	0.977	0.603	-0.959	0
GTL 2	0	3.598	4.000	0.965	0.842	-1.136	0
GTL 3	0	3.682	4.000	0.973	1.030	-1.052	0
GTL 4	0	3.701	4.000	0.969	0.319	-0.740	0
GTL 5	0	3.617	4.000	1.001	0.188	-0.752	0
PEB2	0	3.757	4.000	0.874	1.654	-1.122	0
PEB3	0	3.963	4.000	0.784	2.112	-1.111	0
PEB4	0	3.907	4.000	0.870	2.382	-1.282	0
PEB5	0	3.953	4.000	0.858	0.744	-0.810	0

Table 01

4.3 Descriptive Analysis

Table 2 below show the descriptive statistics which include minimum and the maximum values describing strongly disagree to strongly agree which are measured on Likert scale, mean values of variables, standard deviation and the Cronbach's Alpha values. Moreover, the descriptive mean values range from 3.635 to 3.996, which represent respondents tilt towards the agree on the Likert scale. Additionally, standard deviation ranges in-between 0.753 to 0.977, and the Cronbach 's alpha values are constant with the acceptable standard metric of 0.700 which shows that the data is highly reliable for further analysis.

	Min	Max	Mean	Standard Deviation	Cronbach's Alpha
GTL	1	5	3.635	0.977	0.902
GC	1	5	3.996	0.880	0.793
PEB	1	5	3.804	0.886	0.797
EC	1	5	3.946	0.753	0.873

Table 2.	Descriptive statistics and Cronbach's alpha
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4.4 Measurement Model

The study has selected two dependent variables including GC and PEB, and one independent variable was analyzed both the dependent variables. Moreover, environmental commitment is analyzed as mediator for both the relationships.

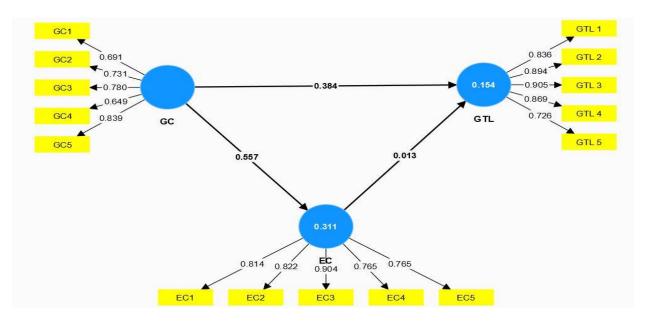


Figure 1

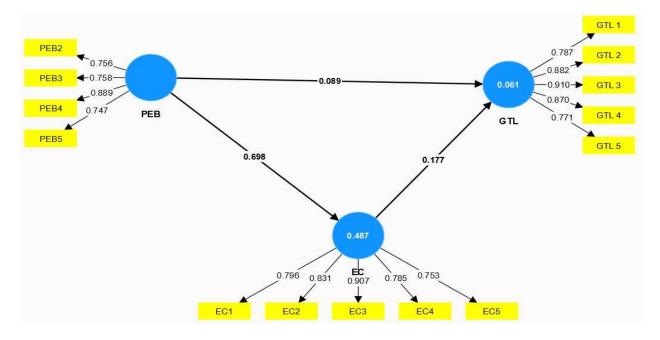


Figure 2

4.4.1 Loadings

Purpose of Outer loadings in structural equation modeling (SEM) is to choose the significance evidence and dimensions of the observed variables are associated with their unseen constructs. Moreover, loadings perform as a coefficient to measure the contribution of each of the variable in assessing the fundamental concepts and show connectivity of the hidden factors they depict. Additionally, to assess the measurement model in structural equation, loading play an important role to evaluate the reliability and validity of model. Owing to this, results collected from the Smart PLS shows that only PEB1 has far lower value that the acceptable par value of 0.700 (Hair, Tatham, Anderson and Black 1998), and based on it PEB1 was removed from further analysis.

		Loadings		
	EC	GC	GTL	PEB
EC1	0.814			
EC2	0.822			
EC3	0.904			
EC4	0.765			
EC5	0.765			
GC1		0.691		
GC2		0.731		
GC3		0.780		
GC4		0.649		
GC5		0.839		
GTL1			0.836	
GTL2			0.894	
GTL3			0.905	
GTL4			0.869	
GTL5			0.726	
PEB1				-0.018
PEB2				0.756
PEB3				0.758
PEB4				0.889
PEB5				0.747

4.4.2 Internal Consistency Reliability and Convergent Validity

In structural equation model composite reliability helps in assessing the overall model fit, though composite reliability is alike concept of Cronbach's alpha, but composite reliability further helps in reviewing and exploring the internal continuity of the model. Moreover, the acceptable minimum value of composite reliability is 0.600 and displayed in below table values for all the variables are above the par acceptable value and resulting in fulfils the criteria of internal consistency reliability. Convergent validity on the other hand helps to evaluate the degree to which a hidden concepts explains the variable of its indicators and as per the results as demonstrated in below table, values of each of the variable is above the acceptable par value of 50%.

Construct	Items	Loadings	Composite Reliability	Average Variance Extracted (AVE)
EC	EC1 <- EC	0.814	0.882	0.665
	EC2 <- EC	0.822		
	EC3 <- EC	0.904		
	EC4 <- EC	0.765		
	EC5 <- EC	0.765		
GC	GC1 <- GC	0.691	0.810	0.549
	GC2 <- GC	0.731		
	GC3 <- GC	0.780		
	GC4 <- GC	0.649		
	GC5 <- GC	0.839		
GTL	GTL1 <- GTL	0.836	0.928	0.720
	GTL2 <- GTL	0.894		
	GTL3 <- GTL	0.905		
	GTL4 <- GTL	0.869		
	GTL5 <- GTL	0.726		
PEB	PEB2 <- PEB	0.756	0.806	0.623
	PEB3 <- PEB	0.758		
	PEB4 <- PEB	0.889		
	PEB5 <- PEB	0.747		

Reliability and Validity Results.

4.4.3 Discriminant Validity

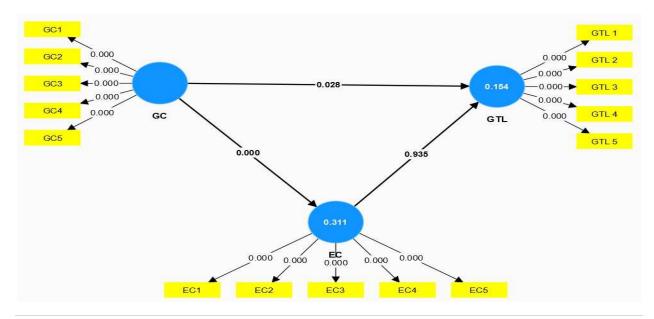
Discriminant validity is crucial to uphold each construct's unique measurability, assuring that different concepts are effectively captured. It is assessed by comparing the square root of AVE with latent variable values, verifying effective discrimination and reinforcing the measurement model's reliability in distinguishing different concepts. The values on the diagonal in the table exceeding others show successful discrimination between constructs.

Moreover, construct validity is evaluated using the Hetereotrait-Monotrait Ratio (HTMT) criterion and the results shows that the values remained low than threshold values of 0.85, which demonstrate discriminant validity between constructs and suggesting strong construct validity. The HTMT test measures the extent to which constructs differ from each other compared to how much they vary within themselves. It ensures that measures of different constructs are truly different, supporting the validity of the dissertation's instruments. This precise analysis provides confidence in the accuracy and reliability of the measurement tools used in the study.

Discriminant Validity					
Hetereotrait-monotrait ratio					
(HTMT)					
GC <-> EC	0.654				
GTL <-> EC	0.253				
PEB <-> EC	0.823				
PEB <-> GTL	0.228				

4.5 Structural Model

The Structural Model in Partial Least Squares Structural Equation Modeling (PLS SEM) serves as a critical tool for evaluating relationships among variables. By examining path coefficients and tvalues, we analyze both direct and indirect connections within the model. Using a two-sided tail ensures a in-depth assessment, considering positive and negative directions for the four variables, including two dependents (PEB and GC), one independent (GTL), and one mediator (EC). The interpretation relies on a threshold t-value of ± 1.64 , indicating significance and guiding hypothesis validation or rejection. Moreover, if T value is greater than 1.64 than the null hypothesis is rejected. Below Figure(s) show the study's structural model, providing a visual representation of intervariable relationships. This illustration helps in understanding the proposed connections, facilitating a generalized understanding of the complex dynamics between Green Transformational Leadership (GTL), Environmental Commitment (EC), Pro-environmental Behavior (PEB), and Green Creativity (GC).





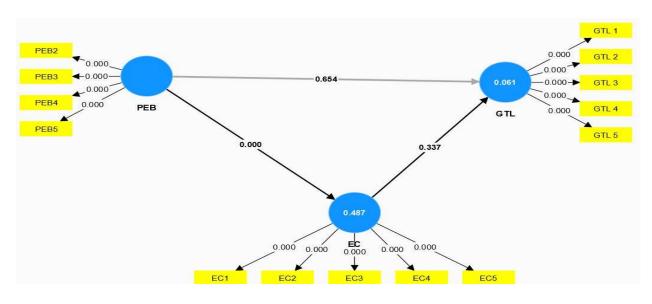


Figure 2

4.5.1 Assessment of Structural Model

Table 5 shows the hypotheses supported in the present study to have a t-value greater than 1.64. Therefore, both direct relationship hypotheses were not supported in the current study. For hypothesis where the direct impact from Green Commitment (GC) on Green Transformational Leadership (GTL) is positively significant (T = 2.193; p < 0.05), and based on these results the hypothesis is supported. However, the second direct hypothesis, which includes Proenvironmental Behavior (PEB) on Green Technology Leadership (GTL) remained insignificant (T = 0.0=448; p > 0.05), and not supported.

Hypotheses Testing Results (Direct Effect)							
	Original sample (O)	Sample mean (M)	Standard deviation	T statistics	2.50%	97.50%	P values
GTL->GC	0.384	0.367	0.175	2.193	-0.026	0.651	0.028
GTL->PEB	0.089	0.079	0.198	0.448	-0.347	0.400	0.654

Hypotheses Testing Results (Direct Effect)

4.5.2 Mediation Analysis

The investigation also explores the indirect impact of independent variables through mediation. To assess mediation, various tests, including the Sobel test and bootstrapping, will be applied to measure the indirect effect of a hidden variable. The selection of the bootstrapping technique is motivated by its suitability for small sample sizes and its effectiveness in multivariate models. Hence, the study utilized bootstrapping (with 5000 subsamples) to evaluate the indirect effect of Technology Adoption. The presented figure above indicates that the mediation (indirect effect) of Environmental Commitment (T = 0.914; p > 0.05) does not support to the mediating influence of Pro-environmental Behavior (PEB) on Green Transformational Leadership (GTL). Similarly, the mediation of Environmental Commitment in relation to Green Creativity (GC) is non-significant (T = 0.075; p > 0.05) concerning GTL. Therefore, both the hypothesis for mediation is not supported.

Original Sample Standard Ρ Т sample 2.50% mean 97.50% deviation statistics values (0) (M) GTL->EC->GC 0.007 0.099 0.075 -0.146 0.248 0.940 0.023 GTL->EC->PEB 0.135 0.914 -0.168 0.123 0.141 0.392 0.361

Hypotheses Testing Results (Indirect Effect)

CHAPTER-05

CONCLUSION

5.1 Discussion on Findings

The research set out to examine the relationships between green transformational leadership (GTL), green creativity (GC), pro-environmental behavior (PEB), and environmental commitment (EC) among front-line employees in the hotel industry in Islamabad. The data collection involved distributing questionnaires to employees in 3-star, 4-star, and 5-star hotels. Subsequently, the collected fresh data went through initial validation and reliability checks to ensure its stability for subsequent regression and correlation analyses. Descriptive statistics and Cronbach's alpha values for the variables GTL, GC, PEB, and EC highlighted their internal consistency. Notably, GTL shows a mean score of 3.635 with a Cronbach's alpha of 0.902, GC scored a mean of 3.996 with a Cronbach's alpha of 0.797, and EC displayed a mean of 3.946 with a Cronbach's alpha of 0.873, indicating satisfactory reliability.

The discriminant validity analysis, assessed through the Heterotrait-Monotrait ratio (HTMT), generally revealed acceptable discriminant validity, as the HTMT values were well below the recommended threshold of 0.85 for most relationships. However, it's worth noting that the HTMT value for the relationship between GTL and EC was relatively low at 0.253, suggesting potential concerns about discriminant validity between these constructs. This finding prompts a closer examination of the conceptualization of GTL and EC or potential methodological detail that may have influenced the results. Overall, while the majority of relationships show acceptable discriminant validity, the lower HTMT value for GTL and EC indicates the need for cautious interpretation, calling for further investigation into the detailed connections between these constructs in the unique context of the hotel industry in Islamabad.

The study's findings explain the associations and mediation outcomes within the explored variables related to Green Transformational Leadership (GTL), Green Creativity (GC), Pro-environmental Behavior (PEB), and Environmental Commitment (EC) in the context of hotels in Pakistan. The analysis of direct relationships reveals a positive association between GC and GTL, supporting Hypothesis 1 (H1). However, H2, which proposed a significant relationship between GTL and

PEB, was not supported. Turning to the mediation hypotheses, H3 and H4 proposed that Environmental Commitment mediates the relationships between GTL and both GC and PEB. Opposite to these hypotheses, the study found no significant mediating influence of Environmental Commitment on either GTL and GC or GTL and PEB, and the indirect effects were nonsignificant. Furthermore, the discussion explores the broader context of sustainable practices in the hotel industry, drawing parallels with earlier research.

The emphasis on utilizing renewable and eco-friendly resources throughout hotel operations is highlighted, not only for environmental benefits like reduced wastage and pollution but also for economic advantages such as cost reduction and savings. Acknowledging the significant impact of these practices on environmental performance at the organizational level, as evidenced by previous studies (Nisar et al., 2021), further demonstrated the importance of environmentally sustainable practices in hotel management. This research holds particular significance for Pakistan's hotel industry, contributing insights into the complicated connections between leadership, environmental commitment, creativity, and eco-friendly behavior. The supported hypotheses and detailed insights contribute to the goal of offering practical recommendations for promoting sustainable practices and enhancing eco-friendly behavior within the unique context of the hotel industry.

5.2 Conclusion of the study

In short, the study found a strong and positive connection between Green Creativity (GC) and Green Transformational Leadership (GTL), supporting Hypothesis 1. Moreover, the non-significant outcomes for hypotheses H2, H3, and H4 in the Pakistani hotel industry illuminate the refined dynamics surrounding Green Team Leadership (GTL), Environmental Commitment, Green Culture (GC), and Pro-environmental Behavior (PEB).

A positive impact of GC and GTL is important for the hotel industry, showing a way to promote eco-friendly practices and innovation. The link between GC and GTL suggests that when hotel leaders show traits of green leadership, like inspiring a shared vision for eco-friendliness and encouraging creativity, it leads to more green creativity among staff. This is significant for hotel management, suggesting that investing in green leadership could spark a culture of eco-friendly innovation in hotel teams. In the hospitality industry, where people care more about the environment, this positive link between GC and GTL is promising. Hotels led by those who prioritize green leadership may see a ripple effect, with staff more likely to think creatively about being eco-friendly. Practical suggestions from this connection include targeted training for hotel leaders to improve their green leadership skills. Workshops can focus on creating a sense of environmental responsibility, encouraging innovation, and building a workplace culture that values and appreciates green creativity. Also, recognizing and appreciating eco-friendly actions from staff can further encourage this positive link. Additionally, hotel management should think about including environmental goals in their leadership training programs. This proactive step by the hotel industry could help with broader environmental efforts and make them stand out in a market where people care more about eco-friendly choices.

The absence of support for H2 indicates that the anticipated significant association between GTL and PEB did not materialize within the sampled Islamabad hotels, shedding light on potential variations in environmental practices inherent to the Pakistani hospitality sector. The inability to establish Environmental Commitment as a mediator, as postulated by H3 and H4, enriches the findings by underscoring the intricate nature of these relationships. The non-significant mediating impact of Environmental Commitment on both GTL and GC, as well as GTL and PEB, challenges preconceived notions about the direct influence of leadership on environmental outcomes. These outcomes emphasize the complexity of sustainable practices in the local hotel industry, suggesting the presence of unique contextual factors that may moderate the hypothesized relationships.

With an exclusive sample from Islamabad hotels and a robust response from 107 participants, this study provides a localized perspective on the challenges and subtleties involved in promoting environmentally conscious behaviors within the Pakistani hospitality sector. Future discussions may delve deeper into specific industry characteristics, cultural considerations, or regulatory frameworks that contribute to the observed patterns. Such insights pave the way for future research directions, aiming to enhance our understanding of sustainable practices within this specific context and potentially inform targeted interventions for fostering environmental responsibility in the Pakistani hotel industry.

To sum up, the confirmed link between GC and GTL, as found by this study, is important not just for hotels in Islamabad but also gives ideas for practical steps. By encouraging green leadership in

hotel leaders, the industry can build a culture of green creativity, meeting the expectations of people who care about the environment and contributing to a more sustainable future.

5.3 Limitations

This study has some limitations to keep in mind. The group of hotels chosen for the research doesn't represent all types of hotels. We only looked at 3-star, 4-star, and 5-star hotels in Islamabad, and specifically, we chose hotels linked with the Pakistan Hotels Association. So, the findings might not apply to all kinds of hotels.

Another point is that we only talked to front-line employees in hotels; other types of employees weren't included. This means our understanding might be incomplete because we didn't get perspectives from everyone working in the hotels. For collecting information, we only used one method - giving out questionnaires in person. While this way has its good sides, relying only on what people write down themselves could have some issues. We didn't use any other ways or sources to gather information. Lastly, this study focused only on Islamabad in Pakistan. Since Pakistan is still developing, hotels might not be as much of a focus here compared to other industries. So, the findings might not be the same in places where hotels are more important.

These limitations show that we need to be careful when interpreting the study's results. It might not be accurate to apply them to all hotels or other places outside Islamabad. Future research might want to include a broader range of hotels, talk to different kinds of employees, and consider other ways to gather information.

5.4 Recommendations

Future research should address the identified limitations to enhance the generalizability of findings. To overcome the limited hotel representation, researchers could expand the sample to include diverse hotel categories and locations, ensuring a more comprehensive understanding of the industry. Additionally, incorporating perspectives from various employee roles beyond front-line staff would provide a holistic view of the organizational dynamics.

To enhance data robustness, future studies should employ a mixed-methods approach, combining questionnaire data with interviews or observations. This approach would offer richer insights into

the complex relationships between green leadership, creativity, and pro-environmental behavior. Furthermore, extending the research beyond Islamabad to encompass different regions with varying developmental contexts would contribute to a more nuanced understanding of the hospitality industry's eco-friendly practices. Finally, investigating the effectiveness of specific training programs aimed at developing green leadership skills among hotel managers and assessing their impact on fostering a culture of eco-friendly innovation would be valuable. These recommendations aim to address the study's limitations and facilitate the application of findings to a broader hotel industry context.

5.5 Practical and Theoretical Implications

The study's theoretical implications enhancing the understanding of green transformational leadership, green creativity, and their complex connections with the hotel industry. By establishing a positive link between green creativity and leadership, the research contributes to leadership theories, emphasizing the critical role of environmental values in tooling innovation. Practically, the findings suggest that investing in targeted training for hotel leaders to enhance their green leadership skills can stimulate a culture of eco-friendly creativity among staff. This has practical applications in hotel management, aligning with the growing consumer preference for environmentally conscious practices. Implementing such strategies could not only improve the industry's environmental performance but also enhance its competitiveness in a market increasingly driven by eco-friendly considerations.

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APPENDIX

Questionnaire

GREEN TRANSFORMATIONAL LEADERSSHIP SCALE

Dimension: Green Transformational Leadership	SD	D	Ν	Α	SA
My leader provides a clear environmental vision for					
the followers to follow.					
My leader inspires followers with environmental					
plans.					
The leadership encourages the organizational					
members to achieve environmental goals.					
The leadership acts by considering the environmental					
beliefs of the organizational members.					
The leadership stimulates the organizational					
members to think about green ideas.					

GREEN CREATIVITY SCALE

Dimension: Green Creativity	SD	D	Ν	Α	SA
It makes me feel accomplished to engage in green-					
related works.					
It is a great honor for me to engage in green-related					
work.					
I can fluently think about green-related problems.					
I can effectively cooperate with others for green-					
related works.					
I can share green-related knowledge and skills with					
others.					

PRO-ENVIRONMENTAL BEHAVIOR SCALE

Dimension: Pro-environmental Behavior	SD	D	N	Α	SA
I voluntarily carry out environmental actions and					
initiatives in my daily work activities.					
I undertake environmental actions that contribute					
positively to the image of my organization.					
I encourage my colleagues to adopt more					
environmentally conscious behavior.					
I help my co-workers be environmentally friendly at					
work.					
I persuade my organization to purchase					
environmentally friendly products.					

ENVIRONMENTAL COMMITMENT SCALE

Dimension: Environmental Commitment	SD	D	Ν	A	SA
I really care about the environmental concern of my					
organization.					
The environmental concern of my organization					
means a lot to me.					
I feel a sense of duty to support the environmental					
efforts of my organization.					
I feel personally attached to the environmental					
concern of my organization.					
I feel an obligation to support the environmental					
efforts of my organization.					

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