



Modern Green Hotels Initiatives from Guests Perspective

 Katarzyna Szczepańska-Woszczyna

 Faculty of Applied Sciences, WSB University, Dąbrowa Górnicza, Poland

 Anuphat Thirakulwanich

 Faculty of Applied Sciences, WSB University, Dąbrowa Górnicza, Poland

 Faculty of Applied Sciences, WSB University, Dąbrowa Górnicza, Poland

 Faculty of Business and Technology, Stamford International University, Thailand

 Sebastian Kot

 Faculty of Management, Czestochowa University of Technology, Poland

Faculty of Management, Częstochowa University of Technology, Poland Faculty of Economics and Management Sciences, North West University, South Africa

Received: 30 January 2024. Revision received: 5 April 2024. Accepted: 24 April 2024

Abstract

The green hotel concept has generated interest among researchers and policymakers due to the increasing environmental and green practices awareness. In Thailand, the Green Leaf Certification is used to indicate the eco-friendly status of a hotel. It contains all or most aspects covering environmental policies such as waste management, energy, and water efficiency, procurement of hotel supplies, air and water quality, noise pollution, hazardous material management, ecological impact, collaboration with community and local administration, etc. The research explored a different perspective on modern green hotel initiatives by analyzing real-life guests' perspectives, adopting a survey research design method. Green Leaf-certified hotels in the Central region of Thailand were selected using a convenience sampling technique. Primary data was obtained from hotel guests using a structured online questionnaire hosted on Google Forms. A sample of 375 respondents completed the online questionnaire. The data was analyzed through discussions and multiple regression analysis for the quantitative data. The results indicated that modern green hotels in the Central region of Thailand have adopted various green initiatives to be recognized as green hotels. Among them are Green Leaf Certification, recycling, organic food, food waste composting program, bioextract production program, water conservation and energy savings, and prohibition of smoking. The results indicated that green practices (green hotel practices, green consumption, and green innovation) positively and significantly affect guest perspectives (guest satisfaction and guest loyalty). The study concludes that green hotel initiatives help hotels comply with the green regulations and monitoring bodies pushing the hospitality sector towards green initiatives, increase guest satisfaction, especially the green champions, improve guest loyalty, and boost hotels' competitiveness and market share.

Key Words: Green hotels, guests perspective, green initiatives, environmental protection, green consumption, green hotel practices

JEL Classification: Z32, Q57

Reference: Szczepańska-Woszczyna, K. ., Thirakulwanich, A., & Kot, S. (2024). Modern Green Hotels Initiatives from Guests Perspective. *Journal of Tourism and Services*, 15(28), 285–304. https://doi.org/10.29036/jots.v15i28.768

Introduction





Sustainability and the deterioration of natural resources are alarming issues and become very hot topics in last decade (Folgado-Fernandez et al., 2023). To overcome these issues, everybody needs to take some responsibility (Vavrova, 2022). In this regard, sustainable tourism practices of hotels in the tourism industry can signal their responsible behavior regarding these issues in the long term (Devkota et al., 2023). Adopting green practices is an important trajectory for the hotel industry and critical to ensuring long-term green initiatives (Yenidogan et al., 2021; Hoang et al., 2023; Saura et al., 2023). According to the Sustainable Travel International report, the hotel and tourism sector accounts for approximately 8% of the total carbon emitted globally (Huang & Tang, 2021; Leal Filho et al., 2023), with hotels and lodging alone accounting for approximately 6% of the total global emissions (Gössling et al., 2023; Jones et al., 2014). This emission results from various activities that emit CO2, including water heating, laundry, electricity, etc. These activities are carried out for the comfort and amenable experience of the guests but at the expense of the environment. Therefore, moving towards green practices is paramount and a critical strategy for minimizing waste and consumption of resources. Lee and Cheng (2018) indicate that in addition to improving the environment, going green would enhance brand loyalty, save money, and improve the hotel's performance.

Sustainable hotels are businesses that are actively involved in significantly reducing negative environmental impact by adopting and using green best practices such as supplies, products, services, logistics, and maintenance (Assaker, 2020; Zielińska & Bačík, 2020; Zhou et al., 2022). The vital element of green technology revolves around reducing waste, energy conservation, and water consumption. Han et al. (2020) assert a global wave in the hotel industry of rolling out many green initiatives, including solar power installations, brilliant showers, and waste management. Green practices are critical to going concern in the business environment and are crucial to achieving growth and guest satisfaction (Dang-Van et al., 2023). With the increased environmental awareness and concerns, consumers are seeking green businesses and are willing to pay more for eco-friendly products and services. In addition to appealing to the public, going green would see hotels save many expenses by reducing energy and water consumption (Antonova et al., 2023; Barakagira & Paapa, 2023; Cheng et al., 2022; Merli et al., 2019).

Consumers are paying increased attention to environmental issues and accepting green practices (Androniceanu et al., 2023, Kement et al., 2023). This concern has fostered hotel management's adoption of strategies to transform their businesses towards green practices. Therefore, these businesses implement various strategies to accelerate green digital transformation processes in their operations (Streimikiene, 2023). In this transformation processes, businesses benefit from some digital technologies such as big data analytics, block chain technologies, internet of things, artificial intelligence and machine learning (Krajcik et al., 2023). By using these technologies firms develop their innovation capabilities that improve their financial sustainability as well (Civelek et al., 2023a). Organizations such as European Commission also stimulate green digital transformation activities of businesses by providing financial supports (Civelek et al., 2023b). Dodds and Holmes (2016) observes that this is an excellent opportunity for hotel management to leverage the opportunity for the advantage of their businesses. Moving green has tremendous value to hotel firms, which is not only 'the right thing to do' but also the 'smart thing to do' as far as improved business performance is concerned. In addition, going green is an effective strategy for boosting the competitiveness of the hotels, increasing the market share, and, most importantly, attracting the guests segment aware and concerned about environmental protection (Verma & Chandra, 2018a; Yi et al., 2018). This is because, according to Hsiao et al. (2014) and Xu and Gursoy (2015), there is a significant connection between attracting and retaining greenconscious guests and adopting and implementing a wide range of green practices such as renewable energy sources, waste recycling, water conservation and obtaining green practices certification.

The interest in green practices has triggered a wide range of research into the context. Most studies have investigated green hotel practices and consumer intentions (Chen & Peng, 2023; Merli et al., 2019; Dang-Van et al., 2023; González-Viralta et al., 2023; Teng et al., 2018; Verma & Chandra,





2018b; Wang et al., 2023). The various studies have also used respondents' perceptions as a data source for the study findings and the resultant conclusions. From the critical literature review, no studies have addressed the green hotels guests perspectives. Thus, this will enhance the management implications and theoretical literature from an environmentally conscious standpoint. The study results will offer valuable insights into the pros and cons of the green hotel concept as perceived by guests.

2. Literature review

2.1 Concept of green hotel

Environmental researchers have shown growing interest in green hotels, also known as ecohotels, due to the greater environmental protection awareness in the hospitality industry. From the postulations of the Green Hotel Association (2014), green hotels imply "establishments that provide guests with comfortable, healthy, and natural lodging along the basic principles of environmental protection, sustainable management, and minimization of environmental impact." Owing to the growing interest, numerous hotels are progressively adopting eco-friendly practices due to their manifold benefits, including improved operational efficiency, a competitive advantage, and enhanced financial performance (Barakagira & Paapa, 2023; González-Viralta et al., 2023; Jones et al., 2014). There are also various problems arising from the effect of hotels and tourism on the environment. Hotels adopt environmentally friendly practices to minimize environmental harm and increase their market share (Abdou et al., 2020; Aman Kassim, 2023; Kularatne et al., 2019). Today, people who seek to travel to book lodgings and hotels are interested in the hotel's ratings and stars attained by the public and the certification of environmental sensitivity of the facility (Aman Kassim, 2023; Tiwari & Mishra, 2023). Sadig et al. (2022) indicated that green hotels are nature-oriented, environmentally focused, and environmentally friendly in using materials, water, and energy, focusing on reducing their negative environmental effects. Romppanen (2010), supported by Astawa et al. (2021) and Kerdpitak (2019), suggests that green hotels prioritize adherence to environmental conservation principles and environmentally friendly practices throughout the supply chain process to safeguard the environment. These operations aim to reduce the adverse environmental effects and offer their guests healthy food, environment, and facilities. They invest in environmentally friendly facilities, organic food, processes, and equipment to benefit guests and employees (Han & Yoon, 2015; Lin et al., 2023; Yu, 2022).

2.2 Green hotel practices and guests perception

Guests are increasingly concerned about environmental protection in today's social environment and are willing to engage in green consumption (Chua et al., 2023; Gomes et al., 2023; Reddy et al., 2023). Tourists and guests prefer to stay and spend in green hotels and purchase green products. This is because green consumption is considered an essential concern and aspect of the consumer's values, beliefs, behavior, and needs (Aich & Omrane, 2022; Damigos, 2023; Merli et al., 2019; Wang et al., 2023). Various studies have found that many guests have a positive perception, are attracted to and choose to stay at green hotels, and remain loyal to them (Nimri et al., 2020; Assaker, 2020). If guests observe some green practices within a hotel, they may consider that the hotel will fulfill their desires regarding environmental protection. The convergence of these interests motivates clients to consider returning to the hotel (Assaker, 2020; Puciato et al., 2023). In other words, green hotel practices influence the perceptions and behaviors of guests. This led to the development of the following hypotheses:

H1: Green Hotel Practices significantly influences guests Satisfaction. *H2:* Green Hotel Practices significantly influences guests Loyalty.





2.3 Green consumption and guest perception

Green consumption implies the consumption behavior associated with zero, minimal, or reduced effects on the environment (Pekersen & Canöz, 2022). The practices and behaviors associated with green consumption include patronizing hotels because of their associated natural surroundings, consuming organic food, purchasing eco-friendly products and services, recycling, and using biodegradable items such as packaging and shopping bags (Johnstone & Tan, 2015; Wandosell et al., 2021). From a guests perspective, it involves purchasing products and services that conserve the environment to add value to society, such as clean water, clean air, energy efficiency, and personal resource conservation (Haws et al., 2014; Nguyen et al., 2020). Shanahan et al. (2019) aver that customers in tune with nature typically enjoy nature-based activities to rejuvenate their bodily and psychological well-being. Engaging with nature can foster mental well-being and positive emotions by alleviating stress and anger. Green hotels strategically showcase picturesque natural landscapes in their promotional campaigns to evoke a sense of tranquility and environmental harmony (Barton & Rogerson, 2017; Franco et al., 2017; Wu, 2021). Kusa et al. (2023) are of the view that green consumption in hotels entails energy efficiency technologies such as LED lighting, water conservation such as water reuse systems, and waste management such as paper and plastic recycling. These practices influence the way guests perceive and value the hotels. From this perspective, the following hypotheses were developed:

H3: Green consumption in hotels significantly influences guests satisfaction. *H4:* Green consumption in hotels significantly influences guests loyalty.

2.4 Green innovation initiative

Green innovation implies the measures and strategies undertaken by a facility to mitigate the unfavorable effects of its products and services on the environment (Rahimizhian et al., 2021). It emphasizes using improved processes, technologies, systems, products, and management methods focused on environmental conservation (Barakagira & Paapa, 2023; Li et al., 2017). Green innovation could be considered in three concepts – processes, products, and organization. Innovation in process and product involves a combination of environmental objectives, productive efficiency, and quality products (Ahmed et al., 2023; Asadi et al., 2020). Chi (2011) states that a firm's competitive advantage is directly linked to the environment. A hotel facility implementing an environmental innovation strategy that conserves and preserves the environment increases its competitive advantage through enhanced guest loyalty (Abdou et al., 2020; Barakagira & Paapa, 2023; Saputra et al., 2022). Through their green operations, products, and processes, visible green businesses have a high potential to encourage guests to repeat their patronage of the hotel facility. This is especially so for guests who value the environment and are green-oriented (Acamporaet et al., 2022; Filimonau et al., 2022; Jaroenwanit et al., 2021; Lin et al., 2023). This led to the development of the following hypotheses:

H5: Green innovation initiative in hotels significantly influences guests satisfaction.

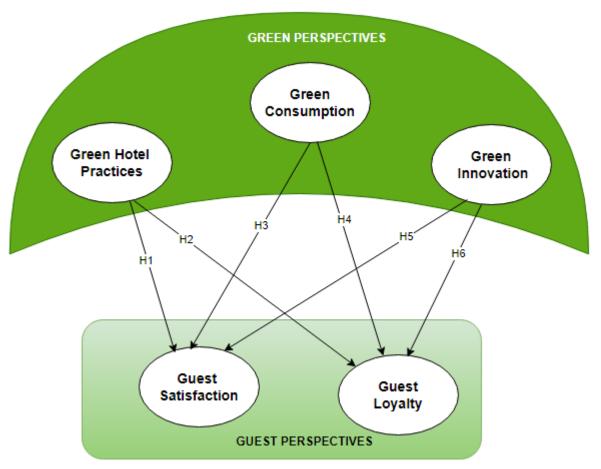
H6: Green innovation initiative in hotels significantly influences guests loyalty.

The conceptual framework was developed from the literature review above and the development of hypotheses. The independent variables comprised green hotel practices, green consumption, and green innovation. The dependent variables comprised guest satisfaction. The relationship between the variables is represented in Figure 1.





Figure 1. Conceptual framework



Source: Compiled by the authors on the basis of the research results.

3. Methods

3.1 Research design and population

This research population adopted the quantitative survey research designs which has been utilized and validated in several related studies (Bouras & Sofianopoulou, 2023; Huan et al., 2019; Liu, 2021). The aim was to evaluate the green practices, products, and services and the resultant effects on the guests perspective—the quantitative design involved statistically analyzing primary data collected from respondents. Based on the research design adopted, the study population were visitors to green leaf certified hotels. The key consideration in the choice of green hotels was the availability of the Green Leaf Foundation trademark to indicate the hotel's compliance with green practices values as indicated on the website of the Green Leaf Foundation (2023). The Foundation was established by the Board of Environmental Promotion of Tourism Activities (BEPTA) to promote tourism through the Green Leaf Program; ensuring hotels adhere to environmental management and awards the Green Leaf Certificate ranging from 1 to 5 leaves, 5 denoting the most practiced hotel in environmental management (Green Leaf Foundation, n.d.). Convenience sampling was used to limit the study





to hotels in the central region in Thailand, which according to the Green Leaf organization had 69 green certified hotels (Green Leaf Foundation, 2023).

3.2 Data and scale development

The primary data was collected using a structured questionnaire hosted online using Google Forms, designed using a 5-point Likert Scale. The researchers disseminated it on social media to collect the questionnaires from the guests who have actually stay at the certified green leaf hotels in the central region of thailand. Respondents were required to select the option before proceeding further to ensure, they have stayed at one of the properties to give our their opinion. The personal information of the repondents were maintained confidential throughut the study. The data collection period was from Febuary 1, 2023 to September 30, 2023. A total of 427 responses were collected, which upon cleaning, a 375 responses were used for the analysis. The questionnaire contained items for each latent variable (green hotel practices, green consumption, green innovation, guest satisfaction, guest loyalty) obtained from the previous studies. Scales were modified in the context of certified green leaf hotels criterion established by TAT to be recognized as Thai green hotels. The questionnaire was translated in Thai langauge to determine the green visitors guests perspective in thailand. The 'green hotel practices' were measured using six items previously validated in prior studies (Merli et al., 2019; Preziosi et al. (2019). Green consumption was measured using five variables obtained from Haws et al. (2014). Green innovation latent variable was measured using five items obtained from Huang et al. (2016). Guest satisfaction latent variables were measured using six items obtained from previous studies (Lai & Hitchcock, 2016, 2015). The guest loyalty variable was measured using five items borrowed from Chi (2011), Xu and Gursov (2015), Han et al. (2011), and Han and Kim (2010).

3.3 Models and data analysis

The data was analyzed using quantitative empirical analysis, where the responses from respondents who are guests in green certified hotels were evaluated in terms of green practices, strategies, initiatives, products, services, and performance. The latent and observant variables and their scales are presented in Table 1. The demographic characteristics of the respondents were evaluated using descriptive statistics. The relationship between the independent and dependent variables was evaluated using multiple regression analysis. Two models were specified as follows:

The first model was the effect of green hotel practices (GP), green consumption (GC) and green innovation (GI) on guest satisfaction (GS).

 $GS = \beta_0 + \beta_1 GP + \beta_2 GC + \beta_3 GI + e$ The second model was the effect of green hotel practices (GP), green consumption (GC) and green innovation (GI) on guest loyalty (GL).

$GL = \beta_0 + \beta_1 GP + \beta_2 GC + \beta_3 GI + e$

To determine the variables, the average of the measurement items was calculated to get single continuous data for each latent variable. The results were presented in tables and discussions, and they formed the basis for developing the study conclusions and recommendations.

| Latent Variables | Items (observed Variables) |
|----------------------|--|
| Green Hotel | This hotel is committed to reducing waste through refillable amenities (e.g., liquid |
| Practices | soap and shampoo) and minimizing single-use items aligned with my values. |
| Abdou et al. (2020); | There is a clear and accessible waste separation system (e.g., recycling bins and |
| Barakagira & Paapa | composting options) that made it easy for me to participate in responsible waste |

Table 1. Latent and observant variables





| (2023); Merli et al. | |
|-------------------------|---|
| (2019) | The hotel transparently communicates about its eco-friendly efforts (e.g., signage |
| | and brochures), which enhanced my understanding of its environmental |
| | commitment. |
| | The hotel has clear guidance on how I could contribute (e.g., towel reuse, energy- |
| | saving options) and empowered me to participate actively in their green initiatives. |
| | The hotel focuses on environmentally conscious activities (e.g., non-polluting |
| | options) and cultural experiences aligned with my desire to explore responsibly and |
| | support local communities. |
| Green Consumption | The hotel has eco-friendly product choices (e.g., recycled paper and organic |
| Arun et al. (2021); | toiletries) that align with my commitment to responsible consumption. |
| Dang-Van et al. | The hotel is focused on minimizing its environmental footprint (e.g., water |
| (2023); Haws et al. | conservation signage, organic garden), which made me feel like my stay had a |
| (2014). | positive impact. |
| | Learning about the hotel's responsible sourcing practices (e.g., local food and |
| | community partnerships) influenced my future purchase decisions. |
| | This hotel exceeded my expectations for a Green stay because it seamlessly |
| | integrated eco-friendly options into every aspect of the experience (e.g., energy- |
| | saving room options and non-polluting activities). |
| | The minor adjustments I made during my stay (e.g., towel reuse and energy-saving |
| | options) felt worthwhile, knowing they contributed to the hotel's green efforts. |
| Guest Satisfaction | This hotel's atmosphere and commitment to eco-friendly practices exceeded my |
| Abdou et al., (2023); | expectations, making my stay enjoyable. |
| González-Viralta et al. | The hotel's green initiatives, like water conservation and energy-efficient appliances, |
| (2023); Lai & | lived up to everything I envisioned for a responsible travel experience. |
| Hitchcock (2016); Lai | |
| & Hitchcock (2015); | Easy-to-follow measures like towel reuse signage and clear information about water |
| Zareh et al. (2023). | usage helped me feel like I was contributing to a positive environmental impact. |
| Zafeff et al. (2023). | The in-room eco-friendly options, like key card controls and energy-saving |
| | appliances, allowed me to reduce my footprint without compromising comfort. |
| | This hotel's dedication to responsible practices throughout my stay, from the |
| | organic garden to the non-polluting activities, truly enhanced my experience. |
| Guest Loyalty | The hotel's environmentally friendly practices (e.g., organic gardens and towel |
| Chen (2015); Chi | |
| (2011), Xu & Gursoy | |
| (2015), Han et al. | responsible lodging choices (e.g., providing refillable water bottles and reusable |
| (2011), Han & Kim | bags). |
| (2010), Kim et al. | The innovative green initiatives (e.g., key card energy control, energy-saving |
| (2009); Zareh et al. | appliances, and natural lighting) set this hotel apart and influenced my preference |
| (2023). | for eco-friendly accommodations. |
| | I actively recommend hotels that seamlessly integrate green practices into every |
| | aspect of the guest experience, like energy-saving options and non-polluting |
| | activities. |
| | This hotel's dedication to environmental responsibility makes it my top choice for |
| | future visits, exceeding other options. |
| Green Innovation | This hotel's commitment to using innovative materials with minimal environmental |
| Performances | impact (e.g., recycled content, biodegradability) impressed me. |
| Ahmed et al. (2023); | The hotel's focus on resource-efficient materials and processes (e.g., rainwater |
| Asadi et al. (2020); | harvesting, greywater reuse) aligned with my desire for responsible travel. |
| Dang-Van et al. | The hotel's dedication to closing the loop with recyclable and compostable |
| (2023); Dinçer et al. | materials (e.g., packaging, organic waste) showcased its commitment to circularity. |
| (2017); Huang et al. | The hotel's innovative strategies for minimizing hazardous emissions (e.g., |
| (2016); Rahmat et al. | bioreactors for odor control) surprised me with their effectiveness. |
| | |





| (2022). | I was impressed by the hotel's ability to transform waste into valuable resources | | | |
|---|---|--|--|--|
| | (e.g., food waste composting and wastewater treatment) through innovative | | | |
| | practices. | | | |
| Source: Modified and compiled by the authors on the basis of the research results | | | | |

Source: Modified and compiled by the authors on the basis of the research results.

4. Results

4.1 Empirical Analysis

In this section, the study's empirical analysis was conducted to evaluate the responses and perspectives of the visitors/guests regarding the green hotel initiatives. The study evaluated the various green practices (green hotel practices, green consumption, and green innovation) from the guests' perspectives (guest satisfaction and guest loyalty). The results are discussed in the following sections.

4.2 Demographic analysis

The demographic analysis of the respondents was analyzed using descriptive statistics. The characteristics evaluated included age, gender, experience, green knowledge, etc, and are summarized in Table 2. The results indicated that male visitors were the majority (55.5%) while females were the minority (44.5%), transgender was the least (6.1%). For the age group, 40 - 49 years were the majority (29.1%), followed by 30 - 49 years (24.5%), then 50 - 59 years (25.3%), then 18-29 years (16.0%), and lastly 60+ (5.1%). For the education level, the majority were those whose highest level was undergraduate (34.1%), followed by those whose college was the highest (28.8%), then followed by those who had postgraduate level (20%) and finally those below college (17.1%). The number of visits to the hotel was also evaluated, where the majority indicated that they had visited the hotel 5 - 10 times (31.7%), followed by those who had visited the hotel 2 - 5 times (28.5%), and those who have visited the hotel more than ten times (20.8%) and finally those that have visited the hotel 0 - 2 times (18.9%).

| Variable | Number (n) | Percentage (%) | |
|-------------------|------------|-----------------------|--|
| Gender | n | | |
| • Male | 196 | 52.3 | |
| • Female | 156 | 41.6 | |
| • Others | 23 | 6.1 | |
| Age Group (years) | n | % | |
| • 18 - 29 | 60 | 16.0 | |
| • 30-39 | 92 | 24.5 | |
| • 40 - 49 | 109 | 29.1 | |
| • 50-59 | 95 | 25.3 | |
| • 60 + | 19 | 5.1 | |
| Education | n | % | |
| Below College | 64 | 17.1 | |
| • College | 108 | 28.8 | |
| Undergraduate | 128 | 34.1 | |
| Postgraduate | 75 | 20.0 | |
| Hotel Visits | n | % | |
| • 0-2 times | 71 | 18.9 | |
| • 2 – 5 times | 107 | 28.5 | |
| • 5-10 times | 119 | 31.7 | |

Table 2. Demographic information of respondents





| • | >10 times | 78 | 20.8 | | | |
|---|-----------|----|------|--|--|--|
| Source: Compiled by the authors on the basis of the research results. | | | | | | |

4.3 Hypotheses evaluation

The first analysis was the effect of Green Practices (GP), Green Consumption (GC), and Green Innovation (GI) on Guest Satisfaction (GS). The results indicated that the r-squared was 0.580, which implied that 58.0% of the variation in guest satisfaction was explained by the independent variables in the model (GP, GC, and GI). In comparison, the remaining 42% was explained by other variables, not in the model (See Table 3). The overall model was significant as the p-value was less than 0.05 F(3, 371) = 171.109, p=0.00. Considering the effect of the variables, green hotel practices were found to have a positive and significant effect on guest satisfaction ($\beta = 0.247$, p=0.000); green consumption was found to have a significant and positive effect on guest satisfaction ($\beta = 0.283$, p=0.000). Similarly, green innovation was found to positively and significantly influence guest satisfaction ($\beta = 0.289$, p=0.000).

| Model Summar | R | R Square | Adjusted R Sc | | or of the imate | | ırbin- atson |
|-----------------|------------|-------------------|---------------|-------------|--------------------|---------|-------------------|
| y | .762ª | .580 | | .577 | .54 | 4171 | 1.950 |
| | | Sum of Squares | df | Mean Square | | F | Sig. |
| ANOVA | Regression | 150.634 | 3 | 50.211 | | 171.109 | .000 ^b |
| | Residual | 108.868 | 371 | .293 | | | |
| | Total | 259.502 | 374 | | | | |
| | | Unstand | dardized | Standardiz | ed | | |
| | | Coeff | icients | Coefficien | ts | | |
| | | В | Std. Error | Beta | | t | Sig. |
| | (Constant) | .738 | .13 | 5 | | 5.450 | .000 |
| Coefficie | GP | .247 | .050 |) | .268 | 4.891 | .000 |
| nts | GC | .283 | .054 | 4 | .307 | 5.288 | .000 |
| | GI | .289 | .044 | 1 | .289 | 6.544 | .000 |

Table 3. First model hypotheses evaluation

Source: Compiled by the authors on the basis of the research results.

The second analysis was on the effect of Green Practices (GP), Green Consumption (GC), and Green Innovation (GI) on Guest Loyalty (GL). The results indicated that the r-squared was 0.670, which implied that 67.0% of the variation in guest loyalty was explained by the independent variables in the model (GP, GC, and GI). In comparison, the remaining 33% was explained by other variables not included in the model. The overall model was significant as the p-value was less than 0.05 F(3, 371) = 251.316, p=0.00 (see Table 4). Considering the effect of the variables, green hotel practices were found to have a positive and significant effect on guest loyalty ($\beta = 0.134$, p=0.002); green consumption was found to have a significant and positive effect on guest loyalty ($\beta = 0.257$, p=0.000). Similarly, green innovation was found to positively and significantly influence guest loyalty ($\beta = 0.454$, p=0.000).

| Model Summary | R | Adjusted R R R Square Square | | Std. Error of the Estimate | Durbin-Watson | |
|------------------|-------------------|---------------------------------|------|----------------------------|---------------|--|
| | .819 ^a | .670 | .668 | .45599 | 2.076 | |





| ANOVA | | Sum of Squares | df | Mean Square | F | Sig. |
|-----------|------------|--------------------------------|------------|------------------------------|---------|-------------------|
| | Regression | 156.70 | 64 3 | 52.255 | 251.316 | .000 ^b |
| | Residual | 77.14 | 40 371 | .208 | | |
| | Total | 233.90 | 04 374 | | | |
| Coefficie | | Unstandardized Coefficients | | Standardized Coefficients | | |
| nts | | В | Std. Error | Beta | t | Sig. |
| | (Constant) | .557 | .114 | | 4.884 | .000 |
| | GP | .134 | .042 | .153 | 3.146 | .002 |
| | GC | .257 | .045 | .293 | 5.693 | .000 |
| | GI | .454 | .037 | .478 | 12.202 | .000 |

Source: Compiled by the authors on the basis of the research results.

5. Discussion

The empirical analysis revealed that the green hotels initiative is an increasing trend, receiving high levels of attention and concern from policymakers, researchers, and players in the hospitality industry. Various organizations have been established whose sole purpose focuses on green initiatives and activities practiced by hotels, such as the Green Leaf Foundation, Global Ecolabelling Network, and Food Before Wasterothers (Han & Yoon, 2015). Additionally, the public is becoming more aware and concerned about green products, sercices and practices. Preziosi et al. (2019) state that green practices by a hotel or resort have become among the consideration factors that contribute to their purchase decisions. As a result, many hotels have implemented 'green' strategies and initiatives to be considered 'green hotels.' This was confirmed by the research findings, where many hotels are working towards being awarded the Green Leaf Certification by the Green Leaf Foundation. The researchers indicated that many hotels have reviewed their operations and policies in Thailand to align with the green trend (Chi, 2011). This involves sourcing local community products, implementing energyefficient equipment, and adopting waste management and recycling policies. This was confirmed by the hotels evaluated. For instance, the sampled green hotel in Bangkok considers green practices to attract guests and gain a competitive advantage. Some initiatives adopted and implemented include energysaving menus, boxed lunch containers made of recycled materials, group purchasing protocols to promote Green Credentials, and Green Globe certification for its property.

Simultaneously, The most of the respondents agreed that green hotels have implemented various strategies, including no smoking in the hotel, an eco-cultural tourism initiative, a health promotion hotel, and blood donations. The research found that green hotel practices, green consumption, and green innovation in the hotels positively affect guest satisfaction and, eventually, their guest loyalty. It implied that practices such as energy-efficient lighting and appliances, water conservation measures, waste reduction and recycling programs, and sustainable sourcing concern the guests. The green consumption aspects include organic food, eco-friendly amenities, and participating in hotel-led green initiatives that would satisfy the guests and eventually make them want to visit such hotels. This confirms Bani-Melhem et al. (2022) argument that when guests actively engage in green consumption practices, it reflects their values and reinforces the hotel's commitment to providing environmentally responsible options. Guests are also concerned and interested in hotels that have innovative technologies to reduce energy consumption and introduce eco-friendly building designs and materials. As Dang-Van et al. (2023) pointed out, these findings indicated that environmental





consciousness by hotels rhymes well with environmental conservation efforts and interests (Androniceanu & Sabie, 2022).

These findings indicate that implementing environmentally friendly practices in hotels, promoting sustainable consumption, and introducing innovative green solutions combined significantly impact guest satisfaction, as observed in the study. This aligns with the perspectives of scholars who argue that adopting environmentally sustainable practices is a viable approach to enhance the hotels' competitiveness, expand their market presence, and, crucially, appeal to environmentally conscious customers (Verma & Chandra, 2018a; Yi et al., 2018). The results show that green hotel practices significantly and positively affect guest satisfaction. It has been proven from prior studies that visitors prefer lodging in environmentally friendly hotels and purchasing eco-friendly products. Green consumption is fundamental to the guests's values, beliefs, behavior, and demands (Damigos, 2023; Wang et al., 2023), as it leaves a positive impression, making tourists attracted to them and entrenching loyalty that leads to greater market share and future growth prospects (Nimri et al., 2020; Assaker, 2020).

Similarly, green consumption was identified as a significant driver of guest satisfaction, demonstrating a positive effect. Guests seeking hotels with natural settings that make them in tune with nature will be motivated to utilize green hotels (Shanahan et al., 2019; Wu, 2021). The findings highlight that green innovation also influences guest satisfaction significantly and positively. While many researchers have studied the aspect of green hotel and consumer behavior, the analysis of specific initiatives and case studies has yet to be explored. This study makes a significant contribution by empirically investigating the effect of green hotel initiatives on guests' behavior in terms of satisfaction and loyalty. More importantly, the study explored real-life case studies of certified green hotels and explored the green initiatives in place. Therefore, the study presents a comprehensive green hotel practical initiative that significantly influences guests' satisfaction and guests' loyalty, enhancing the hotel's market competitiveness and corporate image.

5.1 Theoretical implications

From a theoretical perspective, this study has some implications. Most of the previous studies have focused mainly on the sustainability of the hospitality sector and green energy practices within the hotel sub-sector. There needs to be more studies on green hotel initiatives and their resulting influence on the guests' satisfaction and guest loyalty. Consequently, the study adds to the theoretical literature from that particular standpoint. In addition, the study employed an empirical survey design methodology, specifically evaluating certified green hotels in Thailand. The findings from these viewpoints are anticipated to contribute substantially to recognizing the significance of green innovation and serving as a standard for hotels striving to obtain green certification in Thailand.

5.2 Managerial implications

From the managerial perspective, several implications could be highlighted based on the findings of this study. The first is that considering the increasing global environmental awareness and the fact that Thailand is a huge tourist destination, hotels should make a significant effort to adopt and implement green policies, practices, and initiatives within their facilities. These efforts would have threefold beneficial effects. First is compliance with the green regulatory and monitoring bodies pushing the hospitality and tourism sector to green and sustainable. Second would be increased guest satisfaction, especially for Green Champions, and third would be increased guest loyalty. This would have a long-term positive effect on the hotels, which would be increased competitiveness and market share.





In addition, hotels should consider and value environmental consciousness as a form of ethical consideration that enhances their market credibility (Merli et al., 2019). This is through the realization that guests consider not only traditional factors like comfort and amenities in their hotel stay but also environmental consciousness and ethical considerations. This signifies a shift in guests preferences, with guests valuing and rewarding hotels that align with their values related to sustainability and responsible business practices. Further, hotels should consider green practices as a critical strategic orientation. The reason is that green initiatives create emotional connection and guest loyalty. The green initiatives that satisfy the guests are important in creating a deeper emotional connection between the guests and the hotel. When guests feel their values are mirrored by the hotel's commitment to environmental responsibility, it can foster a sense of guest loyalty. Repeat business and positive word-of-mouth recommendations may follow, as guests are likelier to choose and endorse hotels prioritizing sustainability.

6. Conclusion

This study analyzed green hotel initiatives in Thailand and their impact on guests perspectives. Through the examination of Green Leaf-certified hotels with a history of green practices, the research showcased the plethora of green initiatives undertaken by these establishments, ranging from Green Leaf Certification to recycling, organic food offerings, and smoking prohibition. The research adopted a quantitative survey research methodology from 69 green hotels in the central region of Thailand. The research population were guests in the Green Leaf certified hotels, from which 375 respondents were randomly sampled. The research findings have demonstrated that adopting environmentally friendly activities, including eco-friendly practices in hotels, eco-conscious consumption, and innovative green initiatives, has a significant and favorable impact on customer perceptions, especially in terms of guest satisfaction and guest loyalty. These findings are consistent with the growing social focus on environmental sustainability and have significant consequences for the hospitality industry. These implications resonate with the broader shift towards sustainability in the hospitality industry and accentuate the significance of green initiatives in shaping consumer experiences and driving organizational performance. Therefore, this research provides vital knowledge that can influence the future development of the hospitality industry towards a more sustainable and consumer-focused environment.

6.1 Limitations

This study has some limitations that future studies could leverage to improve on. The study was conducted, and data was collected from one region in Thailand. These results may not be representative of the green hotels space in Thailand, as hotels in other regions like the North, East, North East etc. were not taken into account. Future studies may expand the investigation to include other regions. Since the study is from a region in Thailand, it might also be misleading to present the findings are being representative of developing and emerging nations in Asia. However, they still limit generalizability to other undeveloped countries, such as African and developed Western countries. Therefore, comparative studies should collect data and explore green initiatives in other regions, both third-world countries and developed countries, to capture a comprehensive guests perspective regarding green hotel initiatives. Another limitation is response bias from the study respondents. Since the main data was collected online from hotel guests, there is a possibility of response bias, where the participants might have given socially desired answers or overstated their support for green efforts because they were staying in an environmentally friendly hotel. Such influence may compromise the acquired data's precision and dependability, impacting the study's results. The researchers tried to





minimize this by imploring on the respondents to be truthful in their responses, as there are no points scored for being pro or against green hotels.

6.2 Recommendations

The research makes important recommendations based on the findings from the study in order to advance knowledge in understanding diverse perspectives in green hotel efforts and customer perspectives, and also expanding the research scope beyond Thailand. Future research may involve conducting comparative analyses between certified and non-certified hotels, longitudinal studies to monitor changing consumer sentiments, detailed analyses of eco-conscious consumer behavior, crosscultural evaluations, and investigations into effective implementation and employee engagement strategies.

References

- 1. Abdou, A.H., Hassan, T.H. & El Dief, M.M. (2020). A description of green hotel practices and their role in achieving sustainable development. *Sustainability*, 12(22), 9624. https://doi.org/10.3390/su12229624
- 2. Acampora, A., Preziosi, M., Lucchetti, M.C. & Merli, R. (2022). The role of hotel environmental communication and guests' environmental concern in determining guests' behavioral intentions. *Sustainability*, 14(18), 11638. https://doi.org/10.3390/su141811638
- Ahmed, M., Aliane, N., Khababa, N., Abdou, M.Y., & Agina, M.F. (2023). Eco-innovation drivers and their impact on tourism and the hospitality business in Egypt. *Administrative Sciences*, 13(7), 167. https://doi.org/10.3390/admsci13070167
- 4. Ahmed, R.R., Akbar, W., Aijaz, M., Channar, Z. A., Ahmed, F. & Parmar, V. (2022). The role of green innovation on environmental and organizational performance: Moderation of human resource practices and management commitment. *Heliyon*, 9(1), e12679. https://doi.org/10.1016/j.heliyon.2022.e12679
- Aich, P., Bag, S., & Omrane, A. (2022). Key drivers of employee satisfaction and turnover intention: What role does perceived career opportunity play in Indian star-category hotels? *Forum Scientiae Oeconomia*, 10(3), 189–207. https://doi.org/10.23762/FSO_VOL10_NO3_10
- Aman Kassim, M. (2023). Environmental sustainability practices in hotels: From attitudes to implementation case of resort hotels in Bishoftu, Ethiopia. *IntechOpen.* doi: 10.5772/intechopen.109433
- 7. Androniceanu, A., Enache, I.-C., Valter, E.-N. and Raduica, F.-F. (2023). Increasing energy efficiency based on the Kaizen Approach. *Energies*, 16(4), 1930. https://doi.org/10.3390/en16041930
- 8. Androniceanu, A. and Sabie, O.M. (2022). Overview of green energy as a real strategic option for sustainable development. *Energies*, 15(22), 8573. DOI: 10.3390/en15228573
- Antonova, N., Mendoza-Jiménez, J. & Ruiz-Rosa, I. (2023). Determinants of water consumption in hotels: New insights obtained through a case study. *Water*, 15(17), 3049. https://doi.org/10.3390/w15173049
- Asadi, S., OmSalameh Pourhashemi, S., Nilashi, M., Abdullah, R., Samad, S., Yadegaridehkordi, E., Aljojo, N. & Razali, N. S. (2020). Investigating influence of green innovation on sustainability performance: A case on Malaysian hotel industry. *Journal of Cleaner Production*, 258, 120860. https://doi.org/10.1016/j.jclepro.2020.120860
- 11. Assaker, G. (2020). The effects of hotel green business practices on consumers' loyalty intentions: An expanded multidimensional service model in the upscale segment. *International*





Journal of Contemporary Hospitality Management, 32(12), 3787–3807. https://doi.org/10.1108/IJCHM-05-2020-0461

- Astawa, I.K., Pirzada, K., Budarma, I.K., Widhari, C.I.S. & Suardani, A.A.P. (2021). The effect of green supply chain management practices on the competitive advantages and organizational performance. *Polish Journal of Management Studies*, 24(1), 45-60. https://doi.org/10.17512/pjms.2021.24.1.03
- 13. Bani-Melhem, S., Al-Hawari, M.A., & Mohd. Shamsudin, F. (2022). Green innovation performance: A multi-level analysis in the hotel sector. *Journal of Sustainable Tourism*, 30(8), 1878-1896.
- Barakagira, A., & Paapa, C. (2023). Green practices implementation for environmental sustainability by five-star hotels in Kampala, Uganda. *Environment, Development and Sustainability*, 1-17. https://doi.org/10.1007/s10668-023-03101-7
- 15. Barton, J. & Rogerson, M. (2017). The importance of greenspace for mental health. BJPsych International, 14(4), 79-81. https://doi.org/10.1192/s2056474000002051
- 16. Bouras, D. & Sofianopoulou, S. (2023). Sustainable development assessment of organizations through quantitative modelling. *Sustainability*, 15(11), 8844. https://doi.org/10.3390/su15118844
- Chen, A. & Peng, N. (2023). Antecedents to consumers' green hotel stay purchase behavior during the COVID-19 pandemic: The influence of green consumption value, emotional ambivalence, and consumers' perceptions. *Tourism Management Perspectives*, 47, 101107. https://doi.org/10.1016/j.tmp.2023.101107
- Chen, R. J. (2015). From sustainability to customer loyalty: A case of full service hotels' guests. *Journal of Retailing and Consumer Services*, 22, 261-265. https://doi.org/10.1016/j.jretconser.2014.08.007
- 19. Cheng, Y.H., Chang, K.C., Cheng, Y.S.& Hsiao, C.J.(2022). How Green Marketing Influences Customers' Green Behavioral Intentions in the Context of Hot-Spring Hotels. *Journal of Tourism and Services*, 24(13), 190-208. https://doi.org/10.29036/jots.v13i24.352
- 20. Chi, C. G. Q. (2011). Destination loyalty formation and travelers' demographic characteristics: A multiple group analysis approach. *Journal of Hospitality & Tourism Research*, 35(2), 191-212.
- 21. Chua, B. L., Kim, S., Baah, N. G., Moon, H., Yu, J. & Han, H. (2023). When hospitality brands go green: the role of authenticity and stereotypes in building customer-green brand relationships. *Journal of Sustainable Tourism*, 1-24.
- 22. Civelek, M., Krajčík, V., & Fialova, V. (2023a). The impacts of innovative and competitive abilities of SMEs on their different financial risk concerns: System approach. *Oeconomia Copernicana*, 14(1), 327–354. https://doi.org/10.24136/oc.2023.009
- 23. Civelek, M., Krajčík, V., & Ključnikov, A. (2023b). The impacts of dynamic capabilities on SMEs' digital transformation process: The resource-based view perspective. *Oeconomia Copernicana*. 14(4), 1367-1392. https://doi.org/10.24136/oc.2023.019
- 24. Damigos, D. (2023). How much are consumers willing to pay for a greener hotel industry? A systematic literature review. *Sustainability*, 15(11), 8775. https://doi.org/10.3390/su15118775
- 25. Dang-Van, T., Vo-Thanh, T., Wang, J. & Nguyen, N. (2023). Luxury hotels' green practices and consumer brand identification: The roles of perceived green service innovation and perceived values. *Business Strategy and the Environment*, 32(7). https://doi.org/10.1002/bse.3381
- 26. Dang-Van, T., Vo-Thanh, T., Wang, J., Nguyen, H. V. & Nguyen, N. (2023). Green hotel practices and consumer revisit intention: A mediating model of consumer promotion focus, brand identification, and green consumption value. *Journal of Vacation Marketing*, 13567667231164630.

JOURNAL OF TOURISM AND SERVICES Issue 28, volume 15, ISSN 1804-5650 (Online) www.jots.cz





- Devkota, N,Gajdka, K., Dhakal, K., Klimova, M. & Siwakoti, R.(2023). Promoting Sustainable Tourist Behavior through Promotional Marketing. *Journal of Tourism and Services*, 26(14), 219-241. http://dx.doi.org/ 10.29036/jots.v14i26.512
- Dinçer, F.I., Akova, O., Ertuğral, S.M., & Aydogan, M. (2017). Green innovation practices in hotel enterprises. *Eurasian Academy of Sciences: Social Sciences Journal*, 1, 58-73. http://dx.doi.org/ 10.17740/eas.soc.2017-insemp-4
- 29. Dodds, R. & Holmes, M. (2016). Is there a benefit from being green? Assessing benefits from marketing sustainability by North American hotels. *Journal of Hotel & Business Management*, 5(2), 1–9. https://doi.org/10.4172/2169-0286.1000145.
- Filimonau, V., Matute, J., Mika, M., Kubal-Czerwińska, M., Krzesiwo, K. & Pawłowska-Legwand, A. (2022). Predictors of patronage intentions towards 'green' hotels in an emerging tourism market. *International Journal of Hospitality Management*, 103, 103221. https://doi.org/10.1016/j.ijhm.2022.103221
- Folgado-Fernandez, J.A., Rojas-Sanchez, M., Palos-Sanchez. P.R. and Casablanca-Peña, A.G. (2023). Can Virtual Reality Become an Instrument in Favor of Territory Economy and Sustainability? *Journal of Tourism and Services*, 26(14), 92-117. https://doi.org/10.29036/jots.v14i26.470
- 32. Franco, L. S., Shanahan, D. F. & Fuller, R. A. (2017). A review of the benefits of nature experiences: More than meets the eye. *International Journal of Environmental Research and Public Health*, 14(8). https://doi.org/10.3390/ijerph14080864
- 33. Gomes, S., Lopes, J. M. & Nogueira, S. (2023). Willingness to pay more for green products: A critical challenge for Gen Z. *Journal of Cleaner Production*, 390, 136092. https://doi.org/10.1016/j.jclepro.2023.136092
- González-Viralta, D., Veas-González, I., Egaña-Bruna, F., Vidal-Silva, C., Delgado-Bello, C. & Pezoa-Fuentes, C. (2023). Positive effects of green practices on the consumers' satisfaction, loyalty, word-of-mouth, and willingness to pay. *Heliyon*, 9(10), e20353. https://doi.org/10.1016/j.heliyon.2023.e20353
- 35. Gössling, S., Balas, M., Mayer, M. & Sun, Y. (2023). A review of tourism and climate change mitigation: The scales, scopes, stakeholders and strategies of carbon management. *Tourism Management*, 95, 104681. https://doi.org/10.1016/j.tourman.2022.104681
- 36. Green Hotel Association (2014). Why should hotels be green? Retrieved June 13, 2023, from http://www.greenhotels.com.
- 37. Green Leaf Foundation (2023). Green hotel directory. https://www.greenleafthai.org/en/hotels/
- 38. Green Leaf Foundation (n.d.). About us: save environment low carbon. Retrieved November 30, 2023, from https://www.greenleafthai.org/en/about/
- 39. Han, H. & Kim, Y. (2010). An investigation of green hotel customers' decision formation: Developing an extended model of the theory of planned behavior. *International Journal of Hospitality Management*, 29(4), 659-668.
- Han, H. & Yoon, H., (2015). Customer retention in the eco-friendly hotel sector: examining the diverse processes of post-purchase decision-making. *Journal of Sustainable Tourism*, 23(7), 1095– 1113. https://doi.org/10.1080/09669582.2015.1044535.
- 41. Han, H., Hsu, L. T. J., Lee, J. S. & Sheu, C. (2011). Are lodging customers ready to go green? An examination of attitudes, demographics, and eco-friendly intentions. *International Journal of Hospitality Management*, 30(2), 345-355.
- Han, H., Moon, H. & Hyun, S. S. (2020). Uncovering the determinants of pro-environmental consumption for green hotels and green restaurants: A mixed-method approach. *International Journal of Contemporary Hospitality Management*, 32(4), 1581–1603. https://doi.org/10.1108/IJCHM-04-2019-0354

JOURNAL OF TOURISM AND SERVICES Issue 28, volume 15, ISSN 1804-5650 (Online) www.jots.cz

Scopus



- **43.** Haws. K. L., Winterich, K. P. & Naylor, R. W. (2014). Seeing the world through GREENtinted glasses: Green consumption values and responses to environmentally friendly products. *Journal of Consumer Psychology*, 24(3), 336–354.
- 44. Hoang, S.D., Dey, S.K., Tuckova, Z. (2023). Exploring the Impacts of Virtual Reality Technology in Sustainable Tourism during the Covid -19", *Transformations in Business & Economics*, 22 (1),65-86.
- 45. Hsiao, T., Chuang, C., Kuo, N. & Yu, S.M. (2014). Establishing attributes of an environmental management system for green hotel evaluation. *International Journal of Hospitality Management*, 36, 197–208. https://doi.org/10.1016/j.ijhm.2013.09.005. https://doi.org/10.1080/09669582.2023.2203406
- 46. Huan, Y., Li, H. & Liang, T. (2019). A new method for the quantitative assessment of Sustainable Development Goals (SDGs) and a case study on Central Asia. *Sustainability*, 11(13), 3504. https://doi.org/10.3390/su11133504
- 47. Huang, T. & Tang, Z. (2021). Estimation of tourism carbon footprint and carbon capacity. *International Journal of Low-Carbon Technologies*, 16(3), 1040-1046. https://doi.org/10.1093/ijlct/ctab026
- 48. Huang, X. X., Hu, Z. P., Liu, C. S., Yu, D. J. & Yu, L. F. (2016). The relationships between regulatory and customer pressure, green organizational responses, and green innovation performance. *Journal of Cleaner Production*, 112, 3423–3433. https://doi.org/10.1016/j.jclepro.2015.10.106
- 49. Jaroenwanit, P., Deeboonmee, S., & Thongthip, W. (2021). The outstanding features of innovative riceberry product influence on purchasing intention of elderly consumers in Thailand. *GMSARN International Journal*, 15, 21-26.
- 50. Johnstone, M. L. & Tan, L. P. (2015). Exploring the gap between consumers' green rhetoric and purchasing behavior. *Journal of Business Ethics*, 132(2), 311-328.
- 51. Jones, P., Hillier, D. & Comfort, D. (2014). Sustainability in the global hotel industry. International Journal of Contemporary Hospitality Management, 26(1), 5–17. https://doi.org/10.1108/IJCHM0-2012-0180
- 52. Kement, Ü., Çavuşoğlu, S., Çalık, I., & Durmaz, Y. (2023). The effects of environmental value and ecological worldview on eco-recreative attitude: an application in Turkey. *Tourism & Management Studies*, 19(2), 7-19. https://doi.org/10.18089/tms.2023.190201
- 53. Kerdpitak, C. (2019). Effect of drivers pressures on green supply chain management performance within the hotel industry. *Polish Journal of Management Studies*, 20(2), 290-299. https://doi.org/10.17512/pjms.2019.20.2.24
- 54. Kim, T. T., Kim, W. G., & Kim, H. B. (2009). The effects of perceived justice on recovery satisfaction, trust, word-of-mouth, and revisit intention in upscale hotels. *Tourism management*, 30(1), 51-62.
- 55. Krajcik, V., Novotny, O., Civelek, M. & Semradova Zvolankova, S. (2023). Digital Literacy and Digital Transformation Activities of Service and Manufacturing SMEs. *Journal of Tourism and Services*, 26(14), 242-262. https://doi.org/10.29036/jots.v14i26.551
- 56. Kularatne, T., Wilson, C., Månsson, J., Hoang, V. & Lee, B. (2019). Do environmentally sustainable practices make hotels more efficient? A study of major hotels in Sri Lanka. *Tourism Management*, 71, 213-225. https://doi.org/10.1016/j.tourman.2018.09.009
- 57. Kusa, R., Suder, M. & Duda, J. (2023). Impact of greening on performance in the hospitality industry: Moderating effect of flexibility and inter-organizational cooperation. *Technological Forecasting and Social Change*, 190, 122423. https://doi.org/10.1016/j.techfore.2023.122423
- 58. Lai, I. K. W. & Hitchcock, M. (2015). Importance-performance analysis in tourism: A framework for researchers. *Tourism Management*, 48, 242-267.

Scopus[®]



- 59. Lai, I. K. W. & Hitchcock, M. (2016). A comparison of service quality attributes for stand-alone and resort-based luxury hotels in Macau: 3-Dimensional importance-performance analysis. *Tourism Management*, 55, 139-159.
- Leal Filho, W., Ng, A.W., Sharifi, A., Janová, J., Özuyar, P.G., Hemani, C., Heyes, G., Njau, D. & Rampasso, I. (2023). Global tourism, climate change and energy sustainability: assessing carbon reduction mitigating measures from the aviation industry. *Sustainability Science*, 18, 983– 996. https://doi.org/10.1007/s11625-022-01207-x
- 61. Lee, W. H. & Cheng, C. C. (2018). Less is more: A new insight for measuring service quality of green hotels. *International Journal of Hospitality Management*, 68, 32–40. ttps://doi.org/10.1016/j.ijhm.2017.09.005
- 62. Li, D., Zheng, M., Cao, C., Chen, X., Ren, S. & Huang, M. (2017). The impact of legitimacy pressure and corporate profitability on green innovation: Evidence from China top 100. *Journal of Cleaner Production*, 141, 41-49.
- 63. Lin, C., Shyu, C. & Li, C. (2023). The greener the hotel, the better operating efficiency it has? A sustainable tourism perspective. *Sustainability*, 15(14), 10927. https://doi.org/10.3390/su151410927
- 64. Liu, C. (2021). Conducting qualitative and quantitative analyses of sustainable behaviour. *Journal of Retailing and Consumer Services*, 60, 102474. https://doi.org/10.1016/j.jretconser.2021.102474
- 65. Merli, R., Preziosi, M., Acampora, A. & Ali, F. (2019). Why should hotels go green? Insights from guests experience in green hotels. *International Journal of Hospitality Management*, 81, 169-179.
- 66. Nguyen, A. T., Parker, L., Brennan, L. & Lockrey, S. (2020). A consumer definition of ecofriendly packaging. *Journal of Cleaner Production*, 252, 119792. https://doi.org/10.1016/j.jclepro.2019.119792
- 67. Nimri, R., Patiar, A. & Jin, X. (2020). The determinants of consumers' intention of purchasing green hotel accommodation: Extending the theory of planned behaviour. *Journal of Hospitality and Tourism Management*, 45: 535–543.
- 68. Pekerşen, Y., & Canöz, F. (2022). Tourists' attitudes toward green product buying behaviours: the role of demographic variables. *Tourism & Management Studies*, 18(4), 7-16. https://doi.org/10.18089/tms.2022.180401
- 69. Preziosi, M., Tourais, P., Acampora, A., Videira, N. & Merli, R. (2019). The role of environmental practices and communication on guest loyalty: Examining EU-Ecolabel in Portuguese hotels. *Journal of Cleaner Production*, 237, 117659. https://doi.org/10.1016/j.jclepro.2019.117659
- 70. Puciato, D., Szromek, A.R., & Bugdol, M. (2023). Willingness to pay for sustainable hotel services as a perspective of pro-environmental behaviors of hotel guests. *Economics & Sociology*, 16(1), 106-122. https://doi.org/10.14254/2071-789X.2023/16-1/8
- 71. Rahimizhian, S., & Irani, F. (2021). Investigating the antecedents of innovative behaviors in the hotel industry of Turkey. *Tourism & Management Studies*, 17(4), 45-56. https://doi.org/10.18089/tms.2021.170404
- 72. Rahmat, N., Daud, M.A.A.M., Ngali, N., & Abdullah, M.K.N. (2022). A review on green practices in hotel industry. *International Journal of Accounting, Finance and Business*, 7(41), 307-316.
- 73. Reddy, K. P., Chandu, V., Srilakshmi, S., Thagaram, E., Sahyaja, C. & Osei, B. (2023). Consumers perception on green marketing towards eco-friendly fast moving consumer goods. *International Journal of Engineering Business Management*, https://doi.org/10.1177_18479790231170962
- 74. Romppanen, J. (2010). Increasing environmental awareness of hotel customers case: A Turkish Eco Hotel. Bachelor's Thesis, Saimaa University of Applied Sciences, Tourism and Hospitality, Imatra Unit of Tourism. Degree Programme in Tourism, Retrieved October 7, 2023, from https://www.theseus.fi/bitstream/handle/10024/21105/Romppanen_Jaana.pdf?sequence=1.

Scopus



- 75. Sadiq, M., Adil, M. & Paul, J., (2022). Eco-friendly hotel stay and environmental attitude: a value-attitude-behaviour perspective. *International Journal of Hospitality Management*, 100, 103094 https://doi.org/10.1016/j.ijhm.2021.103094.
- 76. Saputra, K. V. D., Komala, I. G. A. M. K. & Triyuni, N. N. (2022). Green practice leading to green hotel at Clay Craft Restaurant, Renaissance Bali Uluwatu Resort & Spa. *Journal of Business on Hospitality and Tourism (JBHOST)*, 8(2), 396-402.
- 77. Saura, J.R., Palacios-Marques, D., Ribeiro-Soriano, D. (2023). Online Visitor's Reviews and Their Influence on Sustainable Tourism Businesses: An Applied Analysis of User?Generated Content. *Transformations in Business & Economics*, 22 (2),124-143.
- 78. Shanahan, D. F., Barber, E. A., Brymer, E., Cox, T. C., Dean, J., Depledge, M., Fuller, R. A., Hartig, T., Irvine, K. N., Jones, A., Kikillus, H., Lovell, R., Mitchell, R., Niemelä, J., Nieuwenhuijsen, M., Pretty, J., Townsend, M., Warber, S. & Gaston, K. J. (2019). Nature–based interventions for improving health and wellbeing: The purpose, the people and the outcomes. *Sports*, 7(6). https://doi.org/10.3390/sports7060141
- 79. Streimikiene, D. (2023). Sustainability Assessment of Tourism Destinations from the Lens of Green Digital Transformations. *Journal of Tourism and Services*, 14(27), 283-298. https://doi.org/10.29036/jots.v14i27.651
- 80. Teng, C. C., Lu, A. C. C. & Huang, T. T. (2018). Drivers of consumers' behavioral intention toward green hotels. *International Journal of Contemporary Hospitality Management*, 30(2), 1134-1151.
- 81. Tiwari, V. & Mishra, A. (2023). The effect of a hotel's star-rating-based expectations of safety from the pandemic on during-stay experiences. *Journal of Retailing and Consumer Services*, 71, 103223. https://doi.org/10.1016/j.jretconser.2022.103223
- 82. Umar, M., Khan, S.A.R., Zia-ul-haq, H.M., Yusliza, M.Y. and Farooq, K. (2022). The role of emerging technologies in implementing green practices to achieve sustainable operations. *The TQM Journal*, 34(2), 232-249. https://doi.org/10.1108/TQM-06-2021-0172
- 83. Vavrova, J. (2022). Effects of the COVID-19 Pandemic on Corporate Social Responsibility in the Hotel Industry –Case of the Czech Republic. *Journal of Tourism and Services*, 25(13), 213-229. https://doi.org/10.29036/jots.v13i25.414
- 84. Verma, V. K., & Chandra, B. (2018a). Intention to implement green hotel practices: Evidence from Indian hotel industry. *International Journal of Management Practice*, 11(1), 24-41.
- 85. Verma, V.K. & Chandra, B. (2018b). An application of theory of planned behavior to predict young Indian consumers' green hotel visit intention. *Journsl of Cleaner Production*, 172, 1152–1162. https://doi.org/10.1016/j.jclepro.2017.10.047.
- 86. Wandosell, G., C., M., Alcayde, A. & Baños, R. (2021). Green packaging from consumer and business perspectives. *Sustainability*, 13(3), 1356. https://doi.org/10.3390/su13031356
- 87. Wang, P., Zhang, Q., Weng Wong, P. P. & Wang, L. (2023). Consumers' green purchase intention to visit green hotels: A value-belief-norm theory perspective. *Frontiers in Psychology*, 14. https://doi.org/10.3389/fpsyg.2023.1139116
- 88. Wu, C.H. (2021). Exploring green hotel competitive strategies by using the hybrid method for complex data analysis. *Mathematical Problems in Engineering*, 2021, 9982387. https://doi.org/10.1155/2021/9982387
- 89. Xu, X. & Gursoy, D. (2015). Influence of sustainable hospitality supply chain management on customers' attitudes and behaviors. *International journal of hospitality management*, 49, 105-116.
- 90. Yi, S., Li, X., Jai, T.M., 2018. Hotel guests' perception of best green practices: a content analysis of online reviews. *Tourism and Hospitality Research*, 18(2), 191–202. https://doi.org/10.1177/1467358416637251
- 91. Yu, J. (2022). Exploring recreationist-environment fit hospitality experiences of green hotels in China. *Sustainability*, 14(3), 1850. https://doi.org/10.3390/su14031850





- 92. Zareh, N.O., Nassar, M.A., Barakat, M.M., & Ramzy, Y.H. (2023). Impact of green practices on hotel guests' satisfaction: The role of perceived motives, attributes, and service outcomes. *Pharos International Journal of Tourism and Hospitality*, 2(1), 1-17.
- 93. Zielińska, K. & Bačík, R. (2020). Services delivery in budget hotels for customer satisfaction and loyalty. *Global Journal of Entrepreneurship and Management*, 1(2),1-15. <u>https://doi.org/10.57585/GJEM.020.003</u>
- 94. Zhou, X., Liu, P.F., Luo, X. (2022), "Impact Effects of Digital Technology Application on Quality Tourism Development: Empirical Evidence from China", *Transformations in Business & Economics*, Vol. 21, No 3 (57), pp.52-72.
- 95. Yenidogan, A., Gurcaylilar-Yenidogan, T., & Tetik, N. (2021). Environmental management and hotel profitability: operating performance matters. *Tourism & Management Studies*, 17(3), 7-19. https://doi.org/10.18089/tms.2021.170301

Brief description of Author/Authors:

Prof. Katarzyna Szczepańska-Woszczyna, PhD

ORCID ID: https://orcid.org/0000-0003-0731-8049

Faculty of Applied Sciences, WSB University, Dąbrowa Górnicza, Poland

Email: kszczepanska@wsb.edu.pl

Katarzyna Szczepańska-Woszczyna - is a Professor at WSB University in Dąbrowa Górnicza, Vice-Rector for Science and Education at WSB University, and Dean of the Faculty of Applied Sciences. Author or co-author of 120 publications or excerpts in publications. The Member of the board Excellent Science" at the Ministry of Science and Higher Education (Poland); Member of the Polish Accreditation Committee for the term 2020-2023 appointed by the Minister of Science and Higher Education. Fields of expertise: Innovation management, managerial competencies, sustainable business, leadership, family business, and organisational conditions of innovativeness, which are the relationship between strategy, structure, organizational culture, leadership, and knowledge management. Member of Academy of Management; European Academy of Management; American Marketing Association; EWORA. She is also a member of the editorial and scientific boards of journals: Forum Scientiae Oeconomia scholarly journal (ISSN 2300-5947, Scopus), Cultural Management: Science and Education scholarly journal, published in Berlin, co-published by: WSB University and Logos Verlag gmbh, (ISSN 2512-6962, Scopus)

Anuphat Thirakulwanich, PhD Candidate; Lecturer

ORCID ID: https://orcid.org/0000-0002-8462-8561

Faculty of Applied Sciences, WSB University, Dąbrowa Górnicza, Poland

Faculty of Business and Technology, Stamford International University, Bangkok, Thailand

Email: anuphat.thirakulwanich@student.wsb.edu.pl

Anuphat Thirakulwanich is a technology management consultant and social entrepreneur focusing on green innovation and SMEs. He has a bachelor's degree in Business Administration from Thammasat University in 2015 and an MBA from King Mongkut's Institute of Technology Ladkrabang (KMITL) in 2019. He is currently a doctoral candidate at WSB University, Poland. His research interests are in the intersection of SMEs and green innovation, social entrepreneurship, and technology management. To his credit, he has published academic articles in Scopus and Web of Science-indexed journals, including Springer and Journal of Open Innovation: Technology, Market, and Complexity. He is passionate about the environment and climate change and sees research as the best resource for understanding our environment.





Prof. Dr. Sebastian Kot

ORCID ID: <u>https://orcid.org/0000-0002-8272-6918</u> Faculty of Management, Częstochowa University of Technology, Poland Faculty of Economics and Management Sciences, North West University, South Africa

Email: sebastian.kot@pcz.pl

Sebastian Kot is currently an Associate Professor of management and supply chain management at the Faculty of Management, Czestochowa University of Technology. He has over 25 years of teaching, research, and managerial experience in higher education. He is also an Extraordinary Professor at the North-West University, South Africa. He is a Founder and the Editor of Polich Journal of Management Studies. He is a member of the scientific boards of numerous high-rated journals and international conferences.