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Fall 2023 Volume XIV Issue 5(69)

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ditor in Chief:		Table of Contents:					
Ramona Pîrvu, University of Craiova, Romania		Waste Utilization Potential of Oil Palm Industry in North Kalimantan Province,					
Co-Editor: Cristina Mihaela Barbu , Spiru Haret University, Romania	1	Indonesia Mohamad Nur UTOMO, Ahmad MUBARAK, Sulistya Rini PRATIWI, Najmudin NAJMUDIN Legal Regulation of Civil Liability for Environmental Damage: How Appropriate are	2159				
ditorial Advisory Board: Omran Abdelnaser, University Sains Malaysia, Malaysia	2	Civil Liability Provisions with the Privacy of Environmental Damage? Lana AL-KHALAILEH, Tareq AL-BILLEH, Majd MANASRA, Abdullah ALKHSEILAT, Noor ALZYOUD, Noor AL-KHAWAJAH	2174				
Huong Ha, Singapore University of Social Sciences, Singapore	3	Study the Nexus between Indicators of Surface Water Quality on the Small River for Better Basin Management 21					
Harjeet Kaur, HELP University College, Malaysia		Attracting Investment for Rural Development: Introduction of Organic Agriculture and					
Janusz Grabara, Czestochowa University of Technology, Poland	4	ESG Principles in Kazakhstan Marzhan KUANDYKOVA, Aidos AKPANOV, Santay TLEUBAYEVA, Anuar BELGIBAYEV, Askar MAKHMIDOV, Aigul ATCHABAROVA	2196				
Vicky Katsoni, Technological Educational Institute of Athens, Greece	5	Forty-Seven Years of Environmental Management Accounting Research: A	2207				
Sebastian Kot, Czestochowa University of Technology, The Institute of Logistics and	J	Chetanraj DB, Senthil Kumar JP Accumulation of Heavy Metals in the Needles of Scots Pine of the Seminalatinsk Pre-	2201				
Andreea Marin-Pantelescu, Academy of Economic Studies Bucharest, Romania	6	Irtysh Region and Burabay National Park Botakoz YELKENOVA, Raikhan BEISENOVA, Rumiya TAZITDINOVA,	2242				
Piotr Misztal , The Jan Kochanowski University in Kielce, Faculty of Management and Administration, Poland	7	Zhanar RAKHYMZHAN, Nurziya KARIPBAEVA Identifying Karst Aquifer Recharge Area Using Environmental Stable Isotopes and Hydrochemical Data: A Case Study in Nusa Penida Island	2253				
Agnieszka Mrozik, Faculty of Biology and Environmental Protection, University of Silesia, Katowice, Poland		I Wayan Sandi ADNYANA, Lambok HUTASOIT, Irwan ISKANDAR, MUSTIATIN, Putu Doddy Heka ARDANA					
Chuen-Chee Pek , Nottingham University Business School, Malaysia		Regulatory and Legal Support for the Development of Digital Infrastructure in Rural areas as a Factor in Improving the Level of Sustainable Development and Quality of					
Roberta De Santis, LUISS University, Italy	ŏ	Life of the Rural Population Serikbai YDYRYS, Nazgul IBRAYEVA, Fariza ABUGALIYEVA, Mira ZHASKAIRAT,	2271				
Foggia, Italy Dan Selişteanu, University of Craiova, Romania	9	Alman OVALIYEVA Do Environmentally Responsible Practices in Accommodation Establishments Matter? Lulama NDZUNGU, Carina KLEYNHANS, Antoinette ROELOFFZE	2281				
Lesia Kucher, Lviv Polytechnic National University, Ukraine	10	Development of a Model of Strategic Priorities for Sustainable Development of Rural Areas in Kazakhstan until 2030. Example of the East Kazakhstan Region	2290				
Lóránt Dénes Dávid , Eötvös Loránd University, Hungary		Kalamkas NURALINA, Raisa BAIZHOLOVA, Yergali ABENOV, Dinara MUKHIYAYEVA, Yerkezhan MOLDAKENOVA					
Laura Ungureanu , Spiru Haret University, Romania	11	Investing in Human Capital for Green and Sustainable Development Ansagan BEISEMBINA, Alla GIZZATOVA, Yerlan KUNYAZOV, Takhir ERNAZAROV,	2300				
Sergey Evgenievich Barykin , Peter the Great St. Petersburg Polytechnic University, Russian Federation	12	Nurlan MASHRAPOV, Sergey DONISOV Top Management Support, Green Intellectual Capital and Green HRM: A Proposed Framework for Sustainability	2308				
Omar Abedalla Alananzeh, Faculty of Tourism and Hotel Management, Yarmouk	12	Abdur Rachman ALKAF, Mohd Yusoff YUSLIZA, Amauche Justina EHIDO, Jumadil SAPUTRA, Zikri MUHAMMAD	2000				
Marco Martins, Polytechnic Institute of Tomar, Portugal	13	Human Capital Management Based on the Principles of Green Economy and the Creation of Green Jobs for Sustainable Territorial Development Gulmira RAKHIMZHANOVA, Aigul MAIDYROVA, Ainura KOCHERBAEVA	2319				
Konstantinos Antoniadis, University of Macedonia Thessaloniki, Greece							

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Fall 2023 Volume XIV Issue 5(69)

Editor in Chief: Ramona Pîrvu

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> Omra Malay Huon

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Lesia

Lórár

Laura

Serge Great

Omar

Marco

ona Pîrvu , rsity of Craiova, Romania	14	Integrated Urban Solid Waste Management: Knowledge, Practices, and Implementation Riza Stephanie A. ALFARAS	2328
itor: ina Mihaela Barbu , Haret University, Romania	15	Issues Concerning the Improving Organizational and Legal Support of Victimological Prevention for Environmental Crimes DaurenMALIKOV, Natalya SIDOROVA, Saltanat ATAKHANOVA, Manshuk RAKHIMGUI OVA, Sholpan MALIKOVA, Larissa KUSSAINOVA	2336
al Advisory Board: n Abdelnaser, University Sains sia, Malaysia	16	Management of Bioculture Potential with Environmental Perspective Based on Local Wisdom Trio Beni PUTRA, Thamrin THAMRIN, Zulfan SAAM, Sofvan HUSEIN	2345
g Ha , Singapore University of Social ces, Singapore	47	Analysis of the Environment Impact on the Inclusion of Children with Special Educational Needs	0054
et Kaur, HELP University College, sia	17	Marzhan TURLUBEKOVA, Valeriy BIRYUKOV, Zulfiya MAGRUPOVA, Galiya KISHIBEKOVA, Roza BUGUBAYEVA	2354
sz Grabara , Czestochowa University of nology, Poland		Perception and Awareness of Marine Plastic Pollution in Selected Tourism Beaches of Barobo, Surigao del Sur, Philippines	
Katsoni, Technological Educational te of Athens, Greece	18	Sherley Ann T. INOCENTE, Carlo S. GUTIERREZ, Maria Pia M. SISON, John Roderick V. MADARCOS, Judea Christine M. REQUIRON, Christing Joy M. PACILAN, Shiela Mag M. CAPOX, Joyanna Laigh M. SECOVIA	2367
stian Kot, Czestochowa University of ology, The Institute of Logistics and		Hernando P. BACOSA Role of State Institutions in Protecting the Environment Improving Management	
eea Marin-Pantelescu, Academy of pomic Studies Bucharest, Romania	19	System of the Public Services Yuliya KIM, Serik DARIBEKOV, Laura KUNDAKOVA, Dinar SIKHIMBAYEVA,	2379
Misztal , The Jan Kochanowski rsity in Kielce, Faculty of Management dministration, Poland	20	Gulnara SRAILOVA Interactive Planning as Part of a Territorial Strategy to Develop Tourism Sites Edwin RAMIREZ-ASIS, Abu Bakar Bin Abdul HAMID, Nor Hazila Binti Mohd ZAIN,	2390
eszka Mrozik, Faculty of Biology and onmental Protection, University of a, Katowice, Poland	21	Travels and Sustainable Tourism in Italy. Selected Dilemmas	2398
n-Chee Pek , Nottingham University ess School, Malaysia	22	Safety Management Model of Tourism City Municipalities in Eastern Economic	2406
rta De Santis, LUISS University, Italy Gaetano Santeramo, University of	~~~	Chayapoj LEE-ANANT	2400
a, Italy Selişteanu, University of Craiova, nia Kucher, Lviv Polytechnic National	23	Impact of War on the Natural Preserve Fund: Challenges for the Development of Ecological Tourism and Environmental Protection Anatolii KUCHER, Anna HONCHAROVA, Lesia KUCHER, Mariia BIELOBORODOVA, Liudmyla BONDARENKO	2414
rsity, Okraine it Dénes Dávid , Eötvös Loránd rsity, Hungary	24	Sustainable Development and Environmental Tourism. The Case of Lake Karla – Thessaly, Greece Georgia TRAKALA Aristotelis MARTINIS Georgios KARRIS Charicleia MINOTOLI	2426
i Ungureanu , Spiru Haret University, nia		Achilleas TSIROUKIS	
y Evgenievich Barykin , Peter the St. Petersburg Polytechnic University, an Federation	25	Post-COVID-19 Community-Based Tourism Sustainable Development in China. Study Case of Hebian Village Mingjing QU, Wong Ming WONG	2440
Abedalla Alananzeh, Faculty of om and Hotel Management, Yarmouk rsity, Jordan	26	Predicting the Intention to Implement Green Practices by Small and Medium Sized Hotels in South Africa	2455
Martins , Polytechnic Institute of		FIOCEEU LEIALO MASEDE, OIAWAIE FATORI	

ASERS Publishing http://www.aserspublishing.eu ISSN 2068 – 7729 Journal DOI: https://doi.org/10.14505/jemt

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Call for Papers

Winter Issues 2023

Journal of Environmental Management and Tourism

Journal of Environmental Management and Tourism is an open access, peer-reviewed interdisciplinary research journal, aimed to publish articles and original research papers that contribute to the development of both experimental and theoretical nature in the field of Environmental Management and Tourism Sciences. The Journal publishes original research and seeks to cover a wide range of topics regarding environmental management and engineering, environmental management and health, environmental chemistry, environmental protection technologies (water, air, soil), pollution reduction at source and waste minimization, energy and environmental education and optimization for environmental protection; environmental biotechnology, environmental education and sustainable development, environmental strategies and policies.

Authors are encouraged to submit high quality, original works that discuss the latest developments in environmental management research and application with the certain scope to share experiences and research findings and to stimulate more ideas and useful insights regarding current best-practices and future directions in Environmental Management.

Also, this journal is committed to a broad range of topics regarding Tourism and Travel Management, leisure and recreation studies and the emerging field of event management. It contains both theoretical and applied research papers and encourages obtaining results through collaboration between researchers and those working in the tourism industry.

The journal takes an interdisciplinary approach and includes planning and policy aspects of international, national and regional tourism as well as specific management studies. Case studies are welcomed when the authors indicate the wider applications of their insights or techniques, emphasizing the global perspective of the problem they address.

This issue has a special importance for us, marking a new stage in the history of this journal. So, starting with Issue 5(69), Fall 2023 **Journal of Environmental Management and Tourism** will be published in Open Access system. Journal of Environmental Management and Tourism' articles are published under the <u>Creative Commons Attribution 4.0 International License BB CY</u>, which permits unrestricted use, distribution, and reproduction in any medium, provided the original authors and the source are credited.

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Predicting the Intention to Implement Green Practices by Small and Medium Sized Hotels in South Africa

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Abstract: The study examined the intention to implement green practices by small and medium sized hotels in South Africa by extending the Theory of Planned Behaviour (TPB). Three personal factors namely moral norms, response efficacy and environmental concern were used to extend the TPB. In addition, the study examined if intention predicted the implementation of green practices. A quantitative approach was utilised, and a self-administered questionnaire was used for the collection of data from hotel managers and owners. The Partial Least Square Structural Equation Modelling (PLS SEM) was utilised for the analysis of data and testing of hypotheses. The results of the empirical study indicated that attitude, moral norms and response efficacy have significant positive relationships with green practice intention. In addition, intention is a predictor of the implementation of green practices. The implication of the study is that the extended TPB can help to improve the understanding of the intention to implement green practices by small and medium sized hotels. From a theoretical perspective, the study developed a model on the intention to implement green practices by extending the TPB by three individual factors namely moral norms, response efficacy and environmental concern. Empirically, the study provides a clear understanding of the predictors of the intention to implement green practices.

Keywords: green practices; hotels; theory of planned behaviour; individual factors.

JEL Classification: Q01; Q57; M10; R11.

Introduction

There are serious environmental related problems that the universe is currently facing, and these include air pollution, global warming, acid rain, waste disposal and water pollution (Steg *et al.* 2014). According to Nheta and Tondani (2016), the key causes of global warming are known to be carbon dioxide and other greenhouse gases (GHGs). Even though hotels have positive benefits, they are also linked to extensive natural resource use, significant waste creation, and high greenhouse gas emissions, all which have negative environmental consequences (Alipour *et al.* 2019). Due to rising stakeholder pressure, particularly from governments and customers, hospitality firms have begun to consider issues related to the environment. As a result, hotels are increasingly implementing green measures to decrease their undesirable environmental effects in order attract and retain guests, maintain a competitive advantage, and improve financial performance (Huang *et al.* 2015; Nheta and Tondani 2016). However, many small and medium-sized hotels and lodges, mainly in developing countries, have not taken any initiative to decrease the damage they cause to the environment, regardless of the efforts done by certain parts of the industry (Nheta and Tondani 2016). Although a single small firm does not have the same environmental impact compared to a large firm, their combined effects are bigger than for large firms (Cantele *et al.* 2020). However, some small hotels have started to incorporate environment management into their operation and strategy (Alipour *et al.* 2019).

Green practices have become an important part of environmental research in recent years. According to Alipour *et al.* (2019), currently green practices and sustainability are being considered by many businesses and

industries when running their daily operations. Smith and Perks (2010) assert that the ways to utilise methods, processes and products that will not negatively affect the environment by weakening the natural resources or through pollution are referred to as green practices. Awaysheh and Klassen (2010) describe green practices as the strategies or activities executed by businesses to alleviate the impact of the operation and activities on the environment. There is a need to create a zero net release of carbon dioxide into the atmosphere and for the hospitality sector to go green (Mbasera et al. 2016). Therefore, it is essential to explore the antecdents intention to implement green practices by small and medium-sized hotels. Theoretical models such as the Norm Activation Model (NAM), the Value Belief Norm (VBN) and the Theory of Reasoned Action (TRA) have been used by researchers to examine intentions to carry out green practices in hotels. However, the Theory of Planned Behaviour (TPB) by Aizen (1991) is the most utilised theory for predicting green behavioural intentions and behaviours (Wang et al. 2016). The TPB proposes that an individual's intention to perform a specific behaviour determines whether or not that behaviour is performed. An individual's intention to behave in a certain way is influenced by three elements and these are (1) attitude towards the behaviour (2) subjective norms (3) perceived behavioural control. The TPB argues that intention is a significant indicator in predicting the implementation of sustainable practices (Ajzen 1991; Huang and Ge 2019). Even though the TPB is widely used to explain green behaviour, several studies have improved the theory's explanatory power through additional relevant variables or factors (Chen and Tung 2014). This study extends the TPB by adding three individual factors (moral norms, response efficacy and environmental concern) to develop a predictive model of intention to implement green practices by small and medium sized hotels.

1. Literature Review

1.1. Theory of Planned Behaviour (TPB)

The TPB by Ajzen (1991) is an extension of the Theory of Reasoned Action (TRA) by Ajzen and Fishbein (1980). The TRA argues that intention is a predictor of behaviour. Intention is determined by two factors namely attitude and subjective norms. The TPB shows that an individual's performance of a specific behaviour is determined by his/her behavioural intention to perform the behaviour. An individual's attitude, subjective norms, and perceived behavioural control are the three components linked to behavioural intention (Ajzen 1991). Although TPB has been broadly used to explain green behaviour, numerous studies have improved the theory's explanatory power through additional relevant variables or factors (Chen and Tung 2014).

1.1.1. Attitude and Green Practice Intention

Attitude is the first determinant of behavioural intention. Ajzen (1991) describes attitude as the way that a person makes a positive or negative appraisal of the behaviour in question. Individuals that have a positive attitude as the outcomes of behaviour are favourably appraised and as a result, are expected to take part in a particular behaviour (Yilmaz 2014). Numerous researchers have discovered that attitude is a vital precursor of behavioural intention in different settings like the implementation of the consumption of green products (Yadav and Pathak 2016) and sustainable automobiles (Wang *et al.* 2016). Chan and Hawkins (2010) discovered that attitude positively impacts the intention to implement green practice. However, the study by Chen and Chai (2010) found that attitude is not positively related to green practices are significantly positively related.

1.1.2. Subjective Norms and Green Practice Intention

Subjective norms (SN) evaluate the chance that significant reference groups or persons, for example, family and friends will disapprove or approve of a specific behaviour (Ajzen 1991). Individuals are not influenced by people around them only, but they are also influenced by the groups or individuals that they consult regarding beliefs, behaviours, attitudes, and opinions (Wang and Ritchie 2012). Numerous researchers assert that there is a favourable link between SN and people's intention to conduct a behaviour (Han 2015; Paul *et al.* 2016; Ko and Jin 2017). In addition, prior ecological research proved that there is a positive link amongst SN and the intention to stay in ecological hotels (Suki and Suki 2015), the intention to recycle (Tih and Zainol 2012) and the intention to consume green products (Moser 2015). Conversely, empirical studies by Chen and Peng (2012) and Verma and Chandra (2018) did not find a positive correlation between SN and green practice intention. This means that the results of empirical studies on the relationship between SN and ecological practice intention are inconclusive. Thus, this study proposes that (H2): SN and intention to implement green practices are significantly positively related.

1.1.3 Perceived Behavioural Control and Green Practice Intention

The apparent ease or difficulty of carrying out a behaviour is known as perceived behavioural control (PBC) (Ajzen 1991). In the context of green consumers, Wang *et al.* (2014) conducted a study in China about factors influencing sustainable consumption behaviours and established that the association between PBC and sustainable consumption behaviour is significant and positive. Conversely, Ko and Jin (2017) showed that strong PBC often leads to a greater favourable green clothing products purchase intention. In contrast, Arvola *et al.* (2008) conducted an empirical study and found that there is no association between PBC and the intention to buy sustainable products. This phenomenon can be extended to sustainable hospitality firms. In the context of green hotels, empirical studies by (Chen and Peng 2012; Chen and Tung 2014; Verma and Chandra 2018) found that PBC has a significant positive relationship with the intention to implement ecological practices. It is hypothesised that (H3): PBC and intention to implement green practices are significantly positively related.

1.2 Extension of the TP

The TPB can be broadened by the inclusion of different constructs that can improve the model's predictive power (Ajzen 1991). Chen and Tung (2014) used environmental concern and perceived moral obligation to extend the TPB in a study on consumers' intention to visit green hotels. De Freitas (2018) in a study on consumers' intended behaviour towards selecting green hotels extended the TPB by adding perceived moral obligation, anticipated regret, environmental knowledge, and environmental concern. Wang *et al.* (2018) added two constructs namely environmental concern and perceived consumer effectiveness to the TPB. This study will use three constructs namely moral norms, response efficacy and environment concern to extend the TPB.

1.2.1 Moral Norms and Green Practice Intention

The rules of morality that individuals should follow are known as moral norms (MN) (Machura 2013). Furthermore, based on studies conducted in the context of greening, MN can be described as an individual's desire with regards to their own duties concerning the performance of a particular ecological behaviour as well as the argument that the conduct is morally correct (Ru *et al.* 2019). Various researchers have done empirical reviews regarding the influence of moral norms, and they found a positive association between MN and a person's intention to exhibit ecological behaviour (Han 2015; Bertoldo and Castro 2016; Wang *et al.* 2020). Shalender and Sharma (2021) found that people who have greater personal moral norms have favourable intentions concerning the purchase of electronic vehicles compared to those who do not. It is hypothesised that (H4): there is a significant association between MN and intention to implement green practices.

1.2.2 Response Efficacy and Green Practice Intention

Response efficacy (RE) is the extent of an individual's beliefs about how effective a response is in preventing a threat (Popova 2012). RE refers to situations in which a person is of the opinion that a specific change in response will help to protect them and other people from the threat. The person's belief that an anticipated behaviour will succeed in eliminating threat is referred to as response efficacy (Almarshad, 2017). RE as a cognitive construct is a useful extension of the TPB. According to Ng *et al.* (2018), RE affects the intention to buy electronic vehicles positively and customers tend to reflect about consuming ecological products if they think their behaviour is going to help protect the environment (White *et al.* 2019). Moreover, Pang *et al.* (2021) have discovered that the association between RE and customers intention to purchase organic foods is positive. It is hypothesised that (H5): RE and intention to implement green practices are significantly positively related.

1.2.3 Environmental Concern and Green Practice Intention

Schuitema *et al.* (2013) define environmental concern (EC) as a common understanding and consciousness concerning issues in the environment. Chan and Hsu (2016) indicate that environmental concern has encouraged an increasing niche market, specifically the pro-environmental hotel industry. EC is the result of the hotel industry's attempts to reduce the extreme use of non-renewable resources while also limiting emissions (Ogbeide 2012; Chen and Tung 2014). As a result, hotels have gradually started to accept worldwide environmental initiatives to become more sustainable (Kang *et al.* 2012; Rahman *et al.* 2015). Sang and Bekhet (2015). Paul *et al.* (2016) and Yadav and Pathak (2017) showed that the link between EC and intention to buy certain ecological products is positive. If a hypothesised that (6): EC and green purchase intention are significantly positively related.

1.3 Intention and Actual Green Practices

In the TPB, the determinants of intention are perceived behavioural control, attitude and subjective norms (Ajzen 1991). Behaviour is mainly dependent on intention, and they have a positive relationship (Ajzen 1991). Intention is an important indicator in predicting the implementation of green practices (Yilmaz 2014; Wang *et al.* 2016; Huang and Ge 2019). Thus, it is hypothesised that (H7): intention is significantly positively related to actual green practices.

2. Methodology

The research used the cross-sectional survey method in a quantitative study. The survey method used to obtain data from the respondents was the self-administered questionnaire. The survey was conducted in the Capricorn District Municipality of Limpopo Province, South Africa. The sample frame consisted of all managers and owners of small and medium sized hotels selected from the databases of TripAdvisor, Trivago, and Hotel Grading of South Africa. The owners or managers of the identified hotels were contacted through emails to explain the purpose of the study. Five hundred and seventy hotel owners and managers were contacted, only four hundred and three hotel owners and managers granted permission to conduct the survey. Before the actual data collection, a pilot study was carried out with twelve hotel owners and managers who did not participate in the main survey. Four hundred and three participants who took part in the survey were made up of one hundred and fifteen from micro hotels, two hundred and twenty-nine from small hotels and fifty-nine from medium hotels. Based on the quantitative definition of small, medium, and micro enterprises by the National Small Business Act, 2019, micro hotels have been 0 and 10 employees, small hotels between 11 and 50 employees and mediumsized hotels between 51 and 250 employees. Each participant in the survey was give two weeks to complete the questionnaire. The participants were reminded every week through emails to complete the questionnaire. This process was repeated for two months. The Partial Least Square Structural Equation Modelling (PLS SEM) on the SmartPLS software version 3.0 was used to analyse the data collected in the survey. The question items were developed from prior studies and depicted in appendix one. The items were anchored on the five-point Likert scale with "1" strongly disagree and "5" strongly agree. Appendix one depicts the items used to measure the constructs.

3. Results

3.1 Biographical Details

Five hundred and seventy (570) questionnaires were distributed in the main survey to the respondents and four hundred and three (403) questionnaires returned were found to be usable, whereas 12 were not usable. Therefore, 403 (70.7%) questionnaires were analysed. Table 1 depicts the respondents' bibliographical details.

Biographical Details	Frequency	Percentage
Gender		
Male	218	54
Female	185	46
Age		
Below 20	0	0
21-30	83	21
31-40	91	22
41-50	169	42
51-60	49	12
Above 60	11	3
Level of education		
Pre matric	44	11
Matric	129	32
Post matric	230	57
Level of business status		
Sole proprietor	0	0
Partnership	127	32
Close corporation	145	36
Private	131	32

Table 1. Respondents' biographical details

Journal of Environmental Management and Tourism

Biographical Details	Frequency	Percentage
Number of employees		
0-10	115	28
11-50	229	57
51-250	59	15
Years of operation		
Below 5	54	14
6 to 10	126	31
11 to 15	150	37
Above 15	73	18
Position		
Owner	258	64
Manager	145	36
Source: (authors' data analysis)		

Table 1 illustrates the respondents' details as follows: gender, male (218), female (185). Age, no respondent was below 20 years, 21-30 (83), 31-40 (91), 41-50 (169), 51-60 (49), above 60 (11). The level of education, pre matric (44), matric (129), post matric (230). Level of business status, sole proprietor (0), partnership (127), close corporation (145), private (131). Number of employees, 0-10 (115), 11-50 (229), 51-250 (59). Years of operation, below 5 (54), 6 to 10 (126), 11 to 15 (150), above 15 (73). Position, owner (258), manager (145).

3.2 Partial Least Square Structural Equation Modelling

Hair *et al.* (2019) indicates that to assess the outcomes in PLS-SEM, it is important to evaluate the measurement and structural models.

3.3.1 Measurement Model Assessment

The study follows the requirements for the evaluation of the measurement model with respect to the factor loading, composite reliability, Cronbach's alpha and the average variance extracted (Hair *et al.* 2019). The outcomes shown in table 2 indicate that the loadings have a value more than the required threshold of 0.708. The item loading for all the different variables range from the lowest value of 0.710 to the highest value of 0.966. The Cronbach's alpha value for all the latent variables ranges from 0.740 to 0.947. Composite reliability values are more than 0.80 as shown below in the table. The findings presented in Table 3 also reveal that GPI, GPB, ATGPI, SN, PBC, PEOC, LB, MN, RE and EC have an AVE value of 0.729, 0.904, 0.627, 0.688, 0.789, 0.814, 0.830, 0.655, 0.615 and 0.654, respectively. In addition, each construct's square root of AVE is larger compared to the values in the same column with it as shown by table 3.

Constructs	Item	Loading	Cronbach's alpha	Composite reliability	AVE
Green practice intention (GPI)			0.812	0.889	0.729
ζ <i>γ</i>	GPI1	0.768			
	GPI2	0.902			
	GPI3	0.884			
Green practice behaviour (GPB)			0.947	0.966	0.904
	GPB1	0.931			
	GPB2	0.966			
	GPB3	0.955			
Attitude towards			0.902	0.922	0.627
9.000 p.000 (//////	ATTI1	0.803			

Table 2. Measurement model assessment

Constructs	Item	Loading	Cronbach's	Composite reliability	AVE
	ATT2	0.821	alpha	Tellability	
	ATT3	0.827			
	ATT4	0.746			
	ATT5	0.759			
	ATTI6	0.754			
	ATT7	0.830			
Subjective norms (SN)			0.853	0.898	0.688
· · /	SN1	0.869			
	SN2	0.817			
	SN3	0.878			
	SN4	0.747			
Perceived behavioural control			0.867	0.918	0.789
(PBC)	PBC1	0.879			
	PBC2	0.895			
	PBC3	0.890			
Moral norms (MN)			0.740	0.851	0.655
	MN1	0.837			
	MN2	0.745			
	MN3	0.842			
Response efficacy (RE)			0.822	0.864	0.615
	RE1	0.717			
	RE2	0.903			
	RE3	0.793			
	RE4	0.709			
Environmental			0.914	0.930	0.654
concern	EC1	0.816			
	EC2	0.846			
	EC3	0.798			
	EC4	0.795			
	EC5	0.801			
	EC6	0.801			
	EC7	0.804			

	ATT	EC	GPB	GPI	MN	PBC	RE	SN
ATT	0,792							
EC	0,147	0,809						
GPB	0,248	0,058	0,951					
GPI	0,317	0,179	0,385	0,854				
MN	0,299	0,137	0,231	0,340	0,810			
PBC	0,303	0,147	0,494	0,255	0,392	0,888		
RE	0,124	-0,007	0,052	0,057	0,154	0,046	0,784	
SN	0,312	0,105	0,418	0,252	0,227	0,384	0,070	0,830

Table 3. Discriminant validity

The square root of the AVE is represented by the diagonals.

Source: (authors' data analysis)

3.3.2 Structural Model Assessment

Hair *et al.* (2017) suggest that the structural model can only be measured when the required criteria are met. The requirements of the structural model such as common method bias, the R^2 , the f^2 , the Q^2 and model fit by Hair *et al.* (2019) were met. The model (R^2) explained 41.9% of the variance of GPI. The f^2 obtained in the study ranges from 0.000 to 0.029. The Q^2 obtained in the study is 0.146, and the standardised root mean residual (SRMR) obtained in the study is 0.05. Dijkstra and Henseler (2015) point out that the significance of a hypothesis is tested through bootstrapping. In addition, the value of standardised beta is also utilised to assess the significance of every estimation. Demir *et al.* (2021) indicate that the larger the value of the standardised beta, the larger the effect on the endogenous variable.

Table 4. Structural model

Path	Standardised Beta	T-statistics	Decision
H1 ATT →GPI	0.167	3.070**	Accepted
H2 SN→GPI	0.082	1.429	Rejected
H3 PBC→GPI	0.012	0.231	Rejected
H4 MN→GPI	0.172	3.326**	Accepted
H5 RE→GPI	0.204	2.983*	Accepted
H6 EC→GPI	0.088	1.751	Rejected
H7 GPI→GPB	0.385	4.801*	Accepted

*P<0.01, **P<0.05

Source: (authors' data analysis)

The results of the structural model are represented in table 4. Four hypotheses are accepted. Hypothesis one shows that proposes that attitude towards green practices and intention to implement green practices are significantly positively related is accepted. Hypothesis four that proposes that moral norms and intention to implement green practices are significantly positively related is accepted. Hypothesis five that proposes that proposes that response efficacy and intention to implement green practices are significantly positively related is accepted. Hypothesis seven that proposes that there is a significant positive relationship between green purchase intention and green purchase behaviour is accepted. Three hypotheses are rejected. Hypothesis two that proposes that subjective norms and intention to implement green practices are significantly positively related is rejected. Hypothesis three that proposes that perceived behavioural control and intention to implement green

practices are significantly positively related is rejected. Hypothesis six that proposes that environmental concern and intention to implement green practices are significantly positively related is rejected.

4. Discussion

The study examined the intention to implement green practices by small and medium sized hotels in South Africa through the extension of the TPB. Three constructs namely moral norms, response efficacy and environmental concern. The findings indicated that attitude towards green practices and intention to implement green practices are significantly positively related. This suggests that a favourable attitude towards green practices by owner/manager of a small hotel can affect the intention to implement green practices. The findings are supported by prior empirical studies. Chan and Hawkins (2010) discovered that attitude positively impacts green purchase intention. In addition, empirical findings by Kim and Han (2010) and Chen and Peng (2012) find that attitude and intention to implement green practices are significantly positively related. The findings indicate an insignificant relationship between subjective norms and intention to implement green practices. The findings suggest that the opinions of significant reference groups or persons such as family and friends do not influence managers/owners to implement green practices. The findings are supported by prior empirical studies. Chen and Peng (2012) and Verma and Chandra (2018) find an insignificant relationship between SN and the intention to implement green practices. The findings indicate that the relationship between perceived behavioural control and intention to implement green practices is positive but insignificant. The findings suggest that owners/managers of small hotels may not have the understanding, skills, competence, and resources to implement green practices. The findings of the study by Arvola et al. (2008) found no association between PBC and the intention to buy sustainable products. The findings indicate that moral norms and intention to implement green practices are significantly positively related. The findings are supported by prior empirical studies by (Han 2015; Bertoldo and Castro, 2016; Wang et al. 2020). Shalender and Sharma (2021) indicate that moral norms positively influence intention to adopt green behaviour. The findings indicate that response efficacy is positively related to intention to implement green practices. The findings are supported by the results of prior empirical studies. Ng et al. (2018) find that response efficacy positively affects the intention to purchase electric cars in Hong Kong. Pang et al. (2021) find that the association between response efficacy and customers intention to purchase organic foods is positive. The findings indicate that the relationship between environmental concern and intention to implement green practices is positive but insignificant. The findings of studies by Mainieri et al. (1997) and Bamberg (2003) also find that the relationship between environmental concern and intention to purchase green products is insignificant. The results indicate that intention to implement green practices is a predictor of actual green practices. According to the TPB by Aizen (1991), intention is the predictor of behaviour. The findings are supported by prior studies on the implementation of green practices (Chen and Tung 2014; Yilmaz 2014; Wang et al. 2016; Huang and Ge 2019).

Conclusions and Further Research

The study explored the determinants of intention to implement green practices by small and medium-sized hospitality firms in South Africa by using moral norms, response efficacy and environmental concern to extend the TPB. The findings showed that the effects of attitude, moral norms and response efficacy are significant. The effects of subjective norms, perceived behavioural control, and environmental concern are insignificant. The findings also indicated that intention is an important predictor of actual implementation of green practices. The study makes theoretical, empirical and policy contributions to the research on green practices in hotels. Theoretically, the study demonstrated that personal factors can be used to extend the TPB in the context of the intention to implement green practices by small hospitality firms. Empirically, the study contributes to the body of knowledge on green practices in small hotels. The study suggests some recommendations to improve the implementation of green practices by hotels. To improve attitude, moral norms and response efficacy, hotel owners or managers must have half-yearly workshops so that they can be taught about the importance of living in harmony with the environment and taking care of it. Therefore, it is suggested that green practice should be incorporated as a course in entrepreneurial programmes at institutions of higher learning so that these managers or owners can take them as their subjects or modules, which will prepare them to take care of the environment when running their day-to-day operations. The study had some limitations. The research focused on 403 hotel managers and/or owners in a single province, which limited the findings' generalisability. The study depended on self-reported data owners and managers rather than objective observations. This may lead to bias. The study's cross-sectional survey method cannot be utilised to examine behaviour over a longer period. The study's ability to determine cause and effect is hindered as a result of this limitation. Longitudinal studies focusing on the same concepts will assist in determining the cause-and-effect relationship. New studies should focus on the perception of employees about the green practices in their firms. An examination of the moderating effects of gender and level of education of hotel managers/owners will add to the knowledge on green practices.

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Credit Authorship Contribution Statement

Proceed Lerato Masebe was involved in the conceptualisation, investigation, methodology, software formal analysis, writing of original draft of the study.

Olawale Fatoki was involved in the conceptualisation, administration, supervision, validation, review, editing, visualisation and funding of the study.

Declaration of Competing Interest

The authors declare that they have no competing financial interests or personal relationships that could have appeared to influence the work reported in the paper.

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Appendix: Measures of Constructs

Variable	Survey	Response category	Adapted from	
Green practice intention	 We are willing to implement green practices in our hotel/lodge in the future We intend to implement green practices in our hotel/lodge in the future. We plan to implement green practices in our hotel/lodge in the future. 	Five-point Likert scale 1= strongly disagree 5= strongly agree	Ajzen 1991. Chen and Tung (2014)	
Green practice behaviour	 We have implemented green practices in our hotel/lodge in the past six months. We have implemented green practices in our hotel/lodge in our daily operation. We have implemented green practices in our hotel/lodge on a regular basis. 	Five-point Likert scale 1 strongly disagree. 5 strongly agree	Chen and Tung 2014	
Attitude towards green practices	 I think that implementing green practice in my hotel/lodge is useful to protect the environment. I think that implementing green practice in my hotel/lodge is significant to reduce greenhouse gas emissions. I think that implementing green practice in my hotel/lodge is valuable to reduce pollution. I think that implementing green practice in my hotel/lodge is a wise decision. I think that the implementation of green practice in my hotel/lodge is desirable. I think that the implementation of green practice in my hotel/lodge is pleasant I think that the implementation of green practice in my hotel/lodge is pleasant 	Five-point Likert scale 1= strongly disagree 5= strongly agree	Hua and Wang (2019)	
Subjective norm	 Most people who are important to me think I should implement green practices. Most people who are important to me would want me to implement green practice. People whose opinions I value would prefer that I implement green practices. My friend's positive opinion influences me to implement green practice. 	Five-point Likert scale 1= strongly disagree 5= strongly agree	Chen and Tung (2014)	
Perceived behavioural control	 I think that I am capable of implementing green practice in my hotel/lodge. I have the knowledge and skill to implement green practice in my hotel/lodge. Whether or not I implement green practice in my hotel/lodge is completely up to me. 	Five-point Likert scale 1 strongly disagree. 5 strongly agree	Chen and Tung (2014)	

Variable	Survey	Response category	Adapted from
Moral norm	 I believe it is my moral responsibility to reduce environmental pollution and greenhouse gases emissions. I feel morally obliged to implement green practices irrespective of what others think of me. I take into account environment consequences while I implement a practice. 	Five-point Likert scale 1 strongly disagree. 5 strongly agree	Shalender and Sharma (2021)
Response efficacy	 I am sure that green practice is effective in preventing, conserving and preserving physical and cultural resources. I am sure that green practice will help prevent depletion of animal and plant species. I am sure that green practice will help protect the environment. I am sure that green practice will help prevent threat to safety of present and future human generations. 	Five-point Likert scale 1 strongly disagree. 5 strongly agree.	Fatoki (2021)
Environmental concern	 I am extremely worried about the state of the world's environment and what it means for the future Mankind is severely abusing the environment When mankind interferes with nature, it often produces disastrous consequences The balance of nature is delicate and easily upset Human must live in harmony with nature in order to survive I think that environmental problems are important I think that we should care about environmental problems. 	Five-point Likert scale 1 strongly disagree. 5 strongly agree.	Chen and Tung (2014) Yadav and Pathak (2015)

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