

Exploring the moderating effects of incidental emotions on rewards for encouraging hotel guests' towel reuse behavior

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Exploring the Moderating Effects of Incidental Emotions on Rewards for Encouraging Hotel Guests' Towel Reuse Behaviour

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All respondents in this study gave their informed consent prior to participating in the study.

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Abstract

Promoting sustainable practices to hotel guests, such as towel reuse, can help reduce the hotel industry's environmental impact and raise awareness about the importance of environmental conservation. However, little is known about how hotel guests' incidental emotions that arise incidentally (not intentionally induced) influence the effectiveness of rewards in promoting sustainable behaviour. This study adopts the Appraisal Tendency Framework (ATF) to examine the interaction effect of incidental emotions (hope vs. fear) and reward certainty on tourists' pro-environmental behaviours. The study employs a 2x2 between-subject experimental design (Incidental emotions: hope vs fear) x (Reward types: certainty vs uncertainty). The findings show that there are significant interaction effects of incidental emotions and (un)certain monetary rewards on guests' towel reuse behaviour. The research has both theoretical implications for research on reward types and incidental emotions and practical implications for designing and implementing rewards to encourage pro-environmental behaviours.

Keywords: Incidental emotions, Hope and fear, Reward certainty and uncertainty, Pro-environmental behaviour

1 2 3 1. Introduction 4 5

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9
10 Tourists are becoming more aware of the importance of pro-environmental behaviour and
11 taking steps to reduce their environmental impact and promote sustainable tourism while
12 travelling (Casado-Díaz et al., 2020; Su and Li, 2022). Some tourists are increasingly aware of
13 the importance of recycling and waste reduction, such as bringing reusable water bottles and
14 shopping bags to reduce waste. Other tourists stay in eco-friendly accommodations, such as
15 hotels implementing green initiatives to reduce environmental impact (Ban and Ramsaran,
16 2017). Hotel companies have also implemented various green initiatives and energy-saving
17 interventions (e.g. energy-efficient lighting or water-saving measures) to reduce their
18 environmental impact (Wang et al., 2023). For example, the Marriot International hotel chain
19 introduced the “Make a Green Choice” program to encourage towel reuse (Marriot International
20 Inc., 2019). Hence, innovative energy-saving interventions can influence hotel guests’ pro-
21 environmental behaviours by providing them with tangible ways to contribute to environmental
22 conservation.
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25 While the hospitality and tourism sector contributes significantly to nations’ economic
26 development, there are growing concerns about the negative environmental impacts (e.g. waste
27 generation and carbon emissions due to increased tourism activities or increased water
28 consumption due to guest needs and cleaning) caused by the operations and activities in the
29 sector (McKercher, 1993; Mikayilov et al., 2019). Researchers in hospitality and tourism have
30 attempted to investigate how tourists’ can be motivated to be more environmentally responsible
31 in their sustainable behaviours (Ahmad et al., 2020; Miller et al., 2015; Tonge et al., 2015).
32 Prior studies applied various behavioural models to understanding the impact of social and
33 psychological factors that influence tourists’ pro-environmental behaviours (Table 1). Loureiro
34 et al. (2022) suggested that understanding tourists’ emotions in pro-environmental behaviours
35 is one of the emerging areas to be investigated in future studies. Emotions are one of the core
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3 building blocks in the hospitality and tourism fields to construct experiences and influence
4 people's choice behaviours (Bastiaansen et al., 2019; Tuerlan et al., 2021). On a valence-based
5 approach, emotions are specific psychological states (i.e. positive or negative) triggered by
6 individuals' subjective experiences and cognitive appraisals of an event or situation (Wyer et
7 al., 2019). In other words, individuals' thoughts and interpretations of the event or situation can
8 lead to different emotional responses that can be either positive or negative. When predicting
9 future outcomes in goal attainment, hope is regarded as a positive anticipatory emotion, whereas
10 fear is represented as a negative anticipatory emotion (Harvey & Victoravich, 2009;
11 Lagomarsino & Lemarié, 2024).
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There are two concepts of the role of emotions in decision-making and judgement: integral and incidental emotions. Integral emotions are directly associated with consumer judgement being made in product choices (Poels & Dewitte, 2019), pro-environmental behaviours (Sun & Trudel, 2017), vacations (Prayag et al., 2017) and hotel services (Ali et al., 2016). For example, guests feel good when served by friendly and helpful hotel staff. Incidental emotion is developed from a separate and unconnected event or situation (e.g., a magnificent landscape or worn-out decoration). Still, such unrelated emotions can also influence individuals' decisions (Achar et al., 2016). People often are unaware of being influenced by incidental emotions. Such emotions can influence decisions in the short term and become the basis for future decisions. Although studies on integral emotions in consumer behaviours are prolific, studies on the effect of incidental emotions on judgements and choices have been underexplored (Lerner and Keltner, 2000).

Rewards and incentives for individuals can encourage pro-environmental behaviours (Bolderdijk et al., 2018; Steg & Vlek, 2009). Rewards have been widely studied to attract and retain customers (Nastasoiu & Vandebosch, 2019). Previous studies have investigated the role of rewards in motivating customer behaviours that often focus on customer loyalty (Nastasoiu

& Vandenbosch, 2019), and referrals (Ryu & Feick, 2007) and reviews on products/ services (Wang et al., 2018). Furthermore, rewards and incentives are often regarded as effective tools to encourage desirable behaviours (e.g. behaviours in tax incentives for electric cars and pricing-based energy tariffs) (Gärling & Schuitema, 2007; Mahmoodi et al., 2021; Steg & Vlek, 2009). However, these studies only focused on fixed or guaranteed rewards where individuals are assured of receiving specific rewards or incentives upon completing a desired action. Limited understanding has been gained of how reward certainty and uncertainty (i.e. guaranteed or chance-based) influence pro-environmental behaviours, particularly in the hospitality and tourism context. The nature of reward certainty and uncertainty can contribute to understanding customer decision-making and behaviours.

Echoing Wang et al.'s (2023:1363) call to examine more "mechanisms driving different kinds of hotel pro-environmental behaviours, such as... towel reuse", this study aims to fill the gap by investigating the interplay effects of incidental emotions (hope and fear) and reward certainty and uncertainty on tourists' pro-environmental behaviours. Although there is a general understanding of how emotions influence pro-environmental behaviours, there is still a need to delve deeper into the specific effects of incidental emotions, like anticipatory emotions of hope and fear, about the predictability of rewards in hospitality and tourism. More research is required to understand the underlying mechanisms through which these emotions impact decision-making and tourists' responses. There are different forms of pro-environmental behaviours in hospitality behaviours. This study focused on towel reuse because it helps lower carbon footprint and reduce the operational costs of accommodation providers (Cvelbar et al., 2017). The results of this study are expected to provide insights to businesses and marketers for designing effective strategies for encouraging pro-environmental behaviours.

The following section will summarise the theoretical background and the proposed hypotheses. The methods section will describe the research design, materials and data analysis

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3 method adopted in this study. The findings of this study will then be presented, followed by a
4 discussion of the theoretical and managerial implications of the study. Finally, the research
5 limitations and conclusions are provided.
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10 **2. Theoretical background**

11 **2.1 Pro-environmental behaviour in the hospitality industry**

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13 Pro-environmental behaviour refers to actions taken by individuals or organisations to reduce
14 their negative impact on the environment and promote sustainability (Wesselink et al., 2017).
15 This includes conserving energy and water, reducing waste, using environmentally friendly
16 products, engaging in sustainable transportation practices, and supporting environmental
17 initiatives and policies (Thomas & Sharp, 2013). Studies on pro-environmental behaviours in
18 the context of hospitality are related to the 3Rs: recycling, reusing (e.g. linen and towels),
19 reducing (e.g. unnecessary water usage or daily room cleaning) (Table 1). In the context of
20 reusing, Gössling et al.'s (2019) study confirmed that using the comprehensive message is
21 more effective in increasing hotel guests' intention to reuse towels and linens than using the
22 existing standard and simplified messages. Budovska et al.'s findings (2020) ratified that the
23 Theory of Planned Behaviour (TPB) variables affected hotel guests' intention to reuse towels.
24 Similarly, Nosrati et al. (2023) adopted the value-attitude-behaviour (VAB) model to
25 investigate the relationship between cultural and individual values on pro-environmental
26 behaviours. Using the same VAB model, Wang et al. (2023) examined how altruistic,
27 biospheric and egoistic values influence attitude and energy-saving behaviours in three
28 different types of hotel guests (i.e. leisure, business and extended-stay residents). In the context
29 of water conservation, Han and Hyun (2018) confirmed that cognitive and normative factors
30 significantly influence water conservation intention. Han et al. (2020) further added the
31 affective determinants of anticipated feelings of pride and guilt in understanding customers'
32 waste reduction and water-saving intentions. In addition, Chan et al. (2022) reported that the
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monetary incentive approach was the most effective approach to influencing linen reuse intention. However, there is a gap in examining the effectiveness of reward certainty (e.g., guaranteed price discounts) or uncertainty (e.g. chance-based price discounts) to motivate hotel guests' sustainable behaviours. As Yang and Thøgersen (2022:217) commented, "The relative effectiveness of economic incentives and appeals to promote environmental responsibility still needs further investigation". Addressing this gap, this study adopts the Appraisal Tendency Framework (ATF) to examine the interaction effect of the incidental emotions of hope and fear and reward certainty and uncertainty on tourists' pro-environmental behaviours.

Table 1: Recent studies of Pro-Environmental Behaviours (PEB) in the Hospitality Context

Author(s) & Year	Theory & Independent variables	Moderator(s)/Mediator(s)	Dependent variable	Key findings
Han and Hyun, (2018)	Biospheric value, Environmental concern, Willingness to sacrifice for the environment, Personal norm Descriptive social norm	---	Water conservation intention	Intention to water conservation in hotels are significantly influenced by tourists' biospheric value, environmental concern, willingness to sacrifice for the environment, personal norm, and descriptive social norm.
Gössling et al., (2019)	Normative appeals: standard, simplified, and comprehensive messages	----	Actual Behaviour on Towel Reuse and Linen Reuse	The comprehensive message can increase both towel and linen reuse than the existing standard and simplified messages.
Han et al., (2020)	Cognitive determinants: Environmental value, concern and awareness	Mediators: Anticipated feelings of pride and guilt, moral norm Moderator: Involvement of green behaviour	Intentions to waste reduction and water saving	The cognitive, affective and normative factors influence significantly on customers' waste reduction and water saving intention.
Budovska et al., (2020)	Theory of Planned Behaviour (TPB): Attitude, Subjective norm, Perceived behavioural control, Past behaviour	Moderator: Message framing: Injunctive, Descriptive, Combined normative, Standard	Intention to Reuse Towels	Attitude, subjective norm, and perceived behavioural control positively influence hotel guests' intention to reuse towels. Past behaviour has direct and indirect effects on TPB variables. No statistical difference in 4 messages

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Chan et al., (2022)	Message Framing: Standardized approach, Normative approach, Non-monetary Incentive approach, Incentive approach		Linen reuse intention	The findings revealed that the monetary incentive approach was the most effective approach to influence linen reuse intention.
10 11 12 13 14 15 16 17 18 19 20 21 22	Nosrati et al., (2023)	Value-Attitude- Behaviour (VAB): Perceived hedonic value Perceived utilitarian value	Moderators: cultural values Mediator: Attitude toward tourism	Pro- Environmental Behaviour	The perceived hedonic and utilitarian values have positive influence on attitude toward tourism and pro-environmental behaviour.
23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44	Wang et al., (2023)	Value-Attitude- Behaviour (VAB): Altruistic values Biospheric values Egoistic values Place attachment	Mediator: Attitude and personal norm	Energy-saving Behaviour	Both altruistic and biospheric values have positive impact on energy- saving behaviours while egoistic values have a negative role.

2.2 The Appraisal Tendency Framework (ATF)

Emotions play a vital role in driving consumption within the tourism and hospitality industry (Le et al., 2020). People's evaluations often involve both cognitive and emotional appraisals in their decision-making process (Achar et al., 2016). Encountering different social and physical environments (e.g., feeling loved/ neglected or experiencing sunny/ stormy weather), people perceive and react differently to identical information depending on whether they are in a positive or negative mood (Kim et al., 2010; Van Lange et al., 2011). The Appraisal Tendency Framework (ATF) proposes that "each emotion activates a cognitive predisposition to appraise future events in line with the central appraisal dimension that triggered the emotion" (Lerner & Keltner, 2000, p. 477).

One of the emotions under the ATF framework is incidental emotions which refer to people's experiences derived from a separate and irrelevant situation unrelated to the other situation (Lerner & Keltner, 2000). Despite the unrelatedness of these two events, the incidental emotion developed from the previous unconnected situation influences and transfers to the subsequent judgements and behaviours of discrete topics (Achar et al., 2016). Incidental emotion can impact how individuals process and respond to information. Individuals may develop incidental emotions from dispositional effects or past events that can influence their

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3 decision-making (Garg et al., 2005; Wyer et al., 2019). For instance, consumers who just
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5 watched a horror movie and experienced the emotion of fear will subsequently influence their
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7 product evaluation or perception of risk-taking when purchasing a lottery ticket. People
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9 sometimes are unaware of the impact of the incidental event on their subsequent decision-
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11 making (Lerner et al., 2007). Incidental emotions have been widely studied in consumer
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13 research in terms of product evaluations (Kim et al., 2010), brand preferences (Dunn & Hoegg,
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15 2014; Venkatraman et al., 2012), risk perception (Ferrer & Ellis, 2021) and advertisements
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17 (Poels & Dewitte, 2019).
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22 Incidental emotions can be important in an individual's attitudes and behaviours towards
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24 the environment in unexpected ways. Research has shown that incidental emotions can have a
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26 significant impact on pro-environmental participation (Ibanez et al., 2017). Positive emotions,
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28 such as awe or happiness, have been found to increase people's willingness to engage in pro-
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30 environmental behaviours. Negative emotions, such as anger, can also motivate individuals to
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32 take action towards environmental issues. However, incidental emotions in relation to reward
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34 (un)certainty (e.g. cash rebates, vouchers or discounts) in pro-environmental participation
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36 receive limited attention. This study will focus on the incidental emotions (i.e., fear and hope)
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38 that interplay with guaranteed or chance-based monetary rewards (i.e. reward certainty and
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40 uncertainty) to identify the effective incentive to encourage people's pro-environmental
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42 behaviours.
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45 **2.2.1 Fear**

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48 Fear is a negative anticipatory emotion responding to the current or anticipated dangerous or
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50 frightening situations in which people potentially feel threatened (Dunn & Hoegg, 2014;
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52 LaTour & Rotfeld, 1997; Longmire et al., 2021). Under the Appraisal Tendency Framework
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54 of emotional and cognitive appraisals in judgement and choice, incidental fear can elicit
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56 people's feelings of uncertainty when they perceive unstable and uncontrollable situations
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(Lerner & Keltner, 2001). Subsequently, people make choices that help them ease off their negative feelings and attempt to gain more control over the situation (Moulard et al., 2012). For example, using a framing manipulation of a hypothetical scenario of “Asian disease problems”, Lerner and Keltner (2001) participants who experienced fear from an irrelevant event (i.e., incidental fear from the scenario) decided not to put too much risk in gambling situations when they feel pessimistic about the out-of-control situation. Similarly, in the context of financial decision-making, the incidental emotion of fear manipulated by a horror movie exposure made participants sell stocks earlier to minimise the monetary loss as the simulated stock market has the characteristics of high uncertainty and low controllability (Lee & Andrade, 2011). Likewise, Dunn and Hoegg (2014) found that consumers who experienced fear-induced events had a stronger emotional attachment to brands as a coping mechanism for affiliation. Longmire et al.'s (2021) study on materialism also concluded that people with incidental fear believe that possessing more goods can gain ‘strength in things’ and reduce uncertainty in an adverse situation. These studies of anticipatory fear in different contexts show that individuals with the incidental fear emotion consistently make their certainty judgments and choices to reduce risk in an attempt to gain more control over the situations.

2.2.2 **Hope**

Hope is a positive anticipatory emotion based on the anticipation of desirable outcomes (Cavanaugh et al., 2015; Wyer et al., 2019). Olsen et al. (2021) found that hope is a significant determinant of youth participation in a volunteer tourism program. In marketing, Revlon founder Charles Revson (1906-1975) once said, “In the factory, we make cosmetics. In the drugstore, we sell hope” (Maclaran & Chatzidakis, 2022). People purchase cosmetics, hoping to become more beautiful or sign up for a gym membership, expecting to be healthier in the future. As Lazarus (2006, p. 16) described, hopeful people are ‘yearning for better and believing the wished-for-improvement is possible.’ Hope has a future orientation that makes people

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3 willing to take a chance and stay optimistic about attainable outcomes. In light of the temporal
4 focus of events, Lerner and Keltner (2000) suggested that the same valence of positive emotions
5 can have different cognitive appraisals of certainty. While the feelings of happiness and pride
6 are derived from present and past events that have happened (i.e., certainty), hope is evoked
7 from the expectation of future events that are uncertain but attainable to have a positive outcome
8 (Smith & Ellsworth, 1985; Winterich & Haws, 2011). Averill et al.'s (1990) study also showed
9 that college students' hope diminished when the anticipated event occurred, and the expected
10 outcome had been confirmed.
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13 In the goal-congruency dimension, people with hope stay optimistic and believe that good
14 outcomes could occur in a positive environment and undesired outcomes could be prevented in
15 a negative situation (MacInnis & De Mello, 2005). As Chew and Ho (1994:268) contended,
16 'hope is experienced when there is enjoyment in delaying the resolution of uncertainty often
17 involving a potential gain'. The incidental emotion of hope may also induce self-control
18 motivation to achieve favourable outcomes (Wyer et al., 2019). For example, Winterich and
19 Haws's (2011) study on unhealthy food consumption reported that respondents in the hopeful
20 condition chose to consume less unhealthy food to attain better health. These studies imply that
21 consumers with the anticipatory emotion of hope are willing to take risks in uncertain situations.
22 While there are studies on hope in the marketing context, little research has addressed how the
23 incidental emotion of hope influences consumers' judgment on choices in their behaviour
24 (Poels & Dewitte, 2008). Understanding the anticipatory emotion of hope can help to develop
25 more effective strategies for promoting and encouraging pro-environmental behaviours (He et
26 al., 2022).
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2.3 Reward Certainty and Uncertainty

29 Reward certainty and uncertainty are based on the concept of certainty effect in prospect theory
30 ranging from certain to probable (i.e. random or by chance) in probability (Kahneman and
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Tversky, 2013). Rewards are one of the most effective promotional tools used in marketing to influence buying behaviours (Goldsmith & Amir, 2010; Shi et al., 2021; Zou et al., 2022). Companies use rewards as incentives to induce purchase decisions or change purchase behaviours (e.g., use a particular credit card to collect more rewards). Generally, rewards can be classified as certainty and uncertainty incentives (Shen et al., 2015). The valued reward at certainty refers to a definite value of the incentive (such as bonus, premium, price or discount) that consumers know a guaranteed incentive that they will receive. Reward uncertainty is a chance-based random incentive (e.g., lucky draws, contests or instant-win games) that consumers will not know the exact value of rewards they obtain beforehand. There is a risk involved in unpredictable and unknown rewards that consumers may have a chance to win the highest prize or nothing. Consumers may feel apprehensive and lose control of chance-based and uncertain rewards with insufficient reward information (Zou et al., 2022).

Previous studies examined the effectiveness of reward certainty and uncertainty in relation to risk aversion and suggested that reward uncertainty might not be as effective in sales promotion as reward certainty (Kimball 1993; Shen et al. 2015). The perception of risk plays a significant role in influencing consumers' choices of rewards (Shen et al., 2019). In the seminal work of Kahneman and Tversky (1979), they concluded that people who are averse to risks would be less interested in uncertain rewards as they want to be sure of what they receive. In addition, Laran and Tsilos (2013) posited that consumers with an emphasis on their cognitive decision-making process tended to avoid taking risks. Hence, consumers' purchase intention decreased when they were offered rewards that were not guaranteed (i.e., not knowing the exact value of the reward beforehand). However, reward uncertainty can be desirable for consumers with a positive state of affective emotion as they perceive the unpredictable nature of rewards as full of possibilities in the outcomes (Goldsmith and Amir, 2010). Despite rewards often used

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3 in promotion in consumer marketing, studies on incidental emotions (i.e., fear and hope)
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5 influencing consumers' judgement on reward certainty or uncertainty receive limited attention.
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8 It has been argued that research should consider specific emotions (e.g., hope and fear)
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10 rather than emotions in general, as specific emotion influences certain customers' choice
11 judgements (Winterich & Haws, 2011). Much academic research on reward uncertainty
12 reported that consumers with positive feelings found reward uncertainty enjoyable and were
13 willing to take the risk for unknown outcomes (Lee & Qiu, 2009; Zou et al., 2022). However,
14 the underlying mechanisms that the specific anticipatory emotions influence reward certainty
15 and uncertainty remain largely underexplored.
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18 To respond to the call to examine the interplay of conditions and reward certainty and
19 uncertainty (Goldsmith & Amir, 2010; Su et al., 2018), this article aims to explore the
20 effectiveness of specific anticipatory emotions (i.e., fear and hope) under reward certainty and
21 uncertainty. It is expected that people with the emotion of fear are motivated to choose
22 guaranteed rewards (i.e. reward certainty) because of the pessimistic risk perception (Achar et
23 al., 2016). They prefer to avoid risk to reduce uncertainty and gain a feeling of control over a
24 situation. In contrast, people with the emotion of hope feel more optimistic and positive about
25 anticipated future events and regard chance-based rewards as possibilities. Hence, we proposed
26 the following hypotheses:
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29 **Hypothesis 1:** A fear-framed condition compared with a hope-framed condition will be more
30 effective in eliciting strong participation intention in pro-environmental promotion when paired
31 with reward certainty.
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34 **Hypothesis 2:** A hope-framed condition compared with a fear-framed condition will be more
35 effective in eliciting strong participation intention in pro-environmental promotion when paired
36 with reward uncertainty.
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3. Methods

3.1. Study Context

Hong Kong is one of the key tourist-generating markets in Asia Pacific (Guillet et al., 2011).

The hectic lifestyle and high-density living environment play a role in motivating residents to actively seek leisure activities as a break from their relentless pace of life (Guillet, Law & Leung, 2012). Staycations have gained popularity during the COVID-19 pandemic mainly due to the travel restrictions; this drives people to stay in the city and spend their vacations close to home (Muritala, Hernández-Lara, & Sánchez-Rebull, 2022; Zhang et al., 2021).

As a viable alternative for urban dwellers seeking relaxation and rejuvenation, this study examines the pro-environmental behaviours of staycation guests in Hong Kong. In light of the recent Product Eco-responsibility (Amendment) Bill 2023, which prohibits hotels from providing complimentary disposable toiletries and in-room plastic bottled water to guests, this study focuses on guests' voluntary pro-environmental practices, such as towel reuse, within the context of staycations. The findings would provide valuable insights into consumer sustainable behaviour and offer significant implications for the local hospitality industry's sustainability efforts and environmental initiatives.

3.2. Research Design

A 2 (Incidental emotions: fear vs. hope) \times 2 (Rewards: certainty vs. uncertainty) between-subjects experimental design was employed. The study was conducted through an online survey. With the specification of desired respondent characteristics (e.g., gender, age, and education), the respondents were recruited through a marketing research agency. The respondents were randomly assigned to one of the four conditions.

Prior studies generally employed two different approaches to induce incidental emotion. The first method involves utilising an autographical emotional memory task (Dunn & Schweitzer, 2005; Jin & Atkinson, 2021) in which respondents are asked to write a personal

experience related to the target emotion. The second approach involves exposing participants to materials designed to evoke the desired emotion, such as reading a paragraph or watching a video (Dunn & Hoegg, 2014; Longmire et al., 2021). The second method was used in this research as it allows for more consistency and control, reducing potential variations that might arise from personal experiences. The materials were selected and pre-tested by a small sample (i.e. 30 respondents, approximately 10% of the total sample) via the marketing research agency to check the wording and the logical flow of the survey sequence. In the incidental fear condition, respondents' fear emotions were induced by reading an article originally from The Sun that was translated by a local newspaper AM730 *Woman, 21, shared a shocking photo of a mouth ulcer she ignored for months that turned into cancer* and a 2.5-min movie trailer for the horror movie *Halloween Kills, Trailer*. Given their intense and unsettling content, these materials are well-suited to elicit fear effectively. Respondents assigned to the incidental hope conditions were asked to read an article from BBC News, *Why We Should All Hold On to Hope* and a 2.5-minute video on the poem *And the People Stayed Home* by Kitty O'Meara that offers an optimistic view of the future about the pandemic. During the pandemic, when many people were experiencing significant challenges and a lack of social interaction, these materials provided a sense of reassurance and encouragement. The positive contents of these materials could effectively enhance feelings of hope in the prevailing sense of hardship. In addition, each respondent was asked to read one of the following messages about guaranteed or chance-based random rewards (i.e. reward certainty or uncertainty). The reward was set at USD12.80, which aligns with the average room rate in Hong Kong of USD110 (Statista, 2023). This amount represents a 12% discount that is consistent with early bird and loyalty offers typically provided by hotels in the industry. This incentive level is considered appropriate to effectively encourage participation without compromising the pro-environmental intentions of the customers.

Reward Certainty

Imagine you are on vacation and stay at the same hotel for three consecutive nights. The hotel is running a promotional program in which customers will get a cash rebate of USD\$12.8 if they do not request a new towel daily (i.e., reusing the towel).⁷

Reward Uncertainty

Imagine being on vacation and staying at the same hotel for three consecutive nights. The hotel is running a promotional program in which customers will get a cash rebate of USD\$0 or USD \$12.8 if they do not request a new towel daily (i.e., reusing the towel). The amount of cash rebate will be randomly determined by the computer.⁷

In line with the research ethics, with consent, respondents were granted 2 minutes to read through the news article; after 2 minutes, they were allowed to move to watch the video. After the whole video was played, the respondents were allowed to proceed with an online survey section that requested to complete an online survey, including manipulation checks, dependent variables, and demographic questions.

3.3. Measures

Manipulation check questions. Respondents' understanding of fear-hope framing was assessed via eight 7-point scales adapted from the study of Feldman and Hart (2018) and Watson and Clark (1994). The items are presented as "*The newspaper article/video clip makes me feel afraid/jittery/hopeful/optimistic*". Meanwhile, two 7-point items were used to measure the understanding of certainty-uncertainty framing, "*The above scenario describes that, if customers did not request a new towel every day, they would get an instant cash rebate of USD\$12.8 / cash rebate of USD\$0 or USD\$12.8.*"

Dependent variables. Participants were required to indicate their intention was measured by three 7-point items, which were adapted from the study on pro-environmental behaviour by Wan et al. (2017): "*How likely are you to reuse hotel towels?*"", "*How willing are you to reuse*

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3 *hotel towels?"*, *"How motivated are you to reuse hotel towels?"* (1=not at all, 7=very much; α
4 = .933).
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7 8 **3.4. Data Collection and Analysis** 9

10 Data was collected through the online panel services of an international marketing research
11 agency, *Kantar Group*. The target respondents are people in Hong Kong aged 18 or above who
12 have stayed at a local hotel over the past two years as Hong Kong people enjoyed a staycation
13 in a hotel without leaving the city during COVID-19. The study recruited respondents who had
14 completed a staycation at hotels and focused on their individual pro-environmental behaviours.
15
16 The sample included guests with diverse purposes for their stay, and this approach allows us
17 to capture and understand individual experiences across a wide range of staycation contexts.
18
19 The data collection was conducted between January and February 2022. During this period,
20 the city imposed stringent travel restrictions, including the flight ban from many overseas
21 countries. The minimum sample size required for each study was estimated using G*Power 3.1
22 software (Faul et al., 2009). For this study, having four experimental groups, using a two-tailed
23 test of significance at the 5% level, under a power of 95% and an estimated medium effect size
24 of 0.25, at least 279 respondents should be recruited in total. Finally, 350 valid responses were
25 collected for the analysis, fulfilling the sample size requirement. Manipulation checks were
26 performed using one-way ANOVA to compare the difference between the fear vs hope
27 conditions and the reward certainty vs reward uncertainty conditions. To test the hypotheses,
28 we employed a general linear model (GLM) analysis using SPSS 28.0, along with pairwise
29 comparisons. A two-way ANCOVA was conducted to examine the main and interaction effects
30 of incidental emotions and reward (un)certainty on guests' intention to reuse towels. This
31 approach allowed us to control for potential covariates related to demographic differences and
32 better understand how incidental emotions and reward (un)certainty influenced pro-
33 environmental behaviour.
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4. Findings

4.1. Respondents' Profile

A total of 350 Hong Kong respondents recruited by a market research agency participated in the study (177 males and 173 females) with a mean age of 40.41 (SD = 12.129). Their education level ranged from secondary (23.1%) to post-secondary (18.0%) and degree or above (58.9%) (Table 2). The respondents were randomly allocated to one of the four experimental conditions. The N for each condition ranged from 87 to 88. The sample size of 350 exceeds the minimum requirement determined by prior power analysis as described in Section 3.4. This ensures sufficient statistical power to support the findings of this study.

Table 2 Respondents' Profile

Demographic Variables	Category	Frequency	Percentage
Gender	Male	177	50.6
	Female	173	49.4
Age	18-24	44	12.6
	25-34	76	21.7
	35-44	93	26.6
	45-54	87	24.9
	> = 55	50	14.3
Education Level	Lower Secondary	7	2.0
	Upper Secondary	74	21.1
	Sub-degree	63	18.0
	Degree of above	206	58.9

4.2. Manipulation Checks – Emotion Induction

To evaluate the success of both emotion induction of fear-hope framing manipulations, one-way ANOVA was conducted. As expected, respondents in the induced fear condition rated their emotions triggered by the newspaper article and video as 'afraid' and 'jittery' significantly

higher than those in the hope condition. By contrast, respondents in the induced hope condition rated their emotions elicited by materials as 'hopeful' and 'optimistic' significantly higher. On the other hand, the two items checking the reward (un)certainty also demonstrated the expected difference between the respondents that are assigned to the reward certainty vs reward uncertainty conditions. In sum, both manipulations were successful (Table 3).

Table 3 Manipulation Checks

Manipulation	Condition	Mean	F	Sig.
Checks				
	<i>The newspaper article makes me feel...</i>			
afraid	fear	5.70	617.981	<.001
	hope	2.63		
jittery	fear	5.73	585.523	<.001
	hope	2.62		
hopeful	fear	3.48	101.369	<.001
	hope	4.79		
optimistic	fear	3.09	167.681	<.001
	hope	4.86		
<i>The video clip makes me feel...</i>				
afraid	fear	4.94	355.521	<.001
	hope	2.21		
jittery	fear	4.97	347.318	<.001
	hope	2.16		
hopeful	fear	2.67	317.076	<.001
	hope	5.03		
optimistic	fear	2.58	403.094	<.001
	hope	5.21		
<i>The above scenario describes that, if customers did not request for a new towel every day, they will get an instant cash rebate of...</i>				
USD\$12.8	certainty	6.02	258.385	<.001
	uncertainty	3.13		
USD\$0 or \$12.8	certainty	3.07	198.458	<.001
	uncertainty	5.70		

4.3. Interplay Effect of Rewards and Incidental Emotions

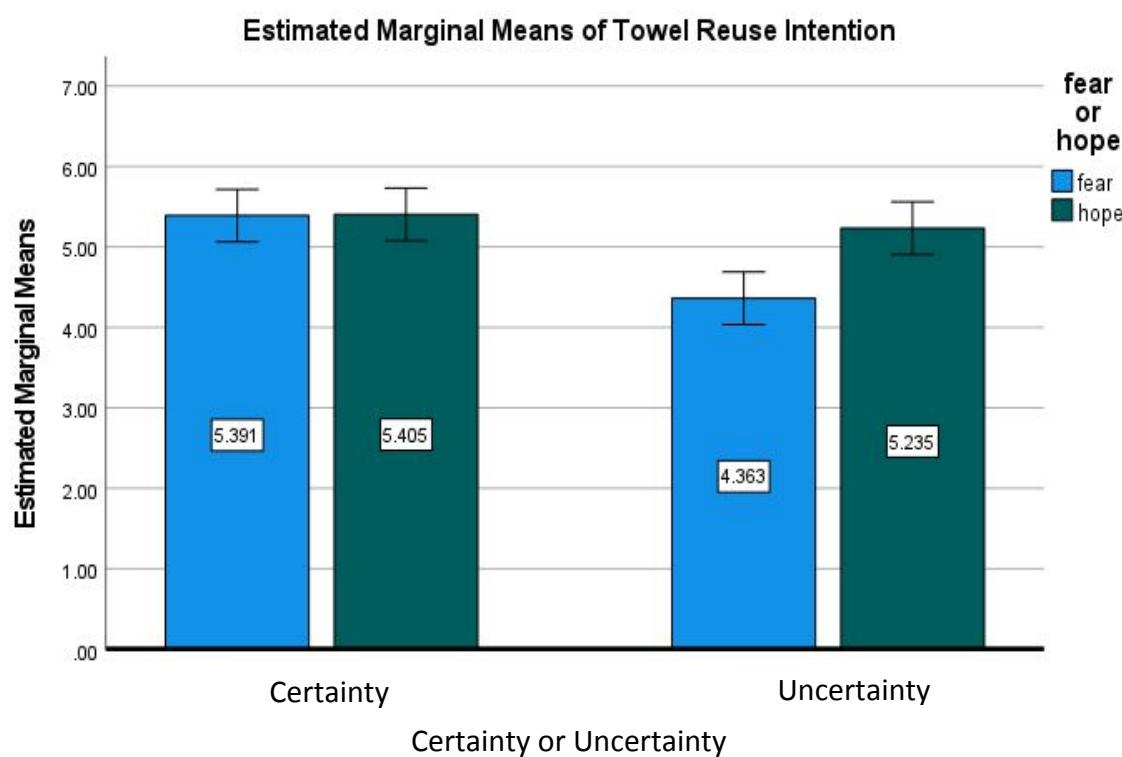
GLM analysis was performed to test the main and interaction effects of incidental emotion and reward (un)certainty on towel reuse intention. The GLM framework provides a flexible and robust approach for analysing data with multiple factors and their interactions, and specifically, it allows for the modelling of relationships between one or more categorical predictors and a continuous dependent variable (Rutherford, 2012). The demographic variables, i.e. gender, age, and education level, were added as co-variates. The results showed that the main effects and the two-way interaction effect significantly influence the respondents' intention to reuse towels during the hotel stay (Table 4).

Table 4 GLM Analysis

Variable	Mean Square	F	Sig.	η_p^2
Fear vs. Hope	17.174	7.146	.008	.020
Certainty vs. Uncertainty	31.092	12.937	<.001	.036
Fear vs. Hope * Certainty vs. Uncertainty	16.016	6.664	.010	.019
Control Variable				
Gender	1.344	.559	.455	.002
Age	5.047	2.100	.148	.006
Education Level	5.178	2.155	.143	.006

The main effect of incidental emotions on towel reuse intentions was significant ($M_{Fear} = 4.877$, $M_{Hope} = 5.320$, $F = 7.146$, $p < 0.01$, $\eta_p^2 = 0.02$) in which hope elicited a stronger intention to reuse towel than fear and the effect size of 0.020 indicated a small to medium effect (Cohen, 2013). The main effect of reward certainty was also significant ($M_{Certain} = 5.398$, $M_{Uncertain} = 4.799$, $F = 12.937$, $p < 0.001$, $\eta_p^2 = 0.036$) in which guaranteed reward (i.e. certainty) was more effective in eliciting stronger pro-environmental intention than chance-based random reward (i.e. uncertainty) with a small to medium effect. Furthermore, the interaction effect of

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3 incidental emotion and reward certainty was significant ($F = 664, p < 0.05, \eta_p^2 = 0.019$). The
4 graphical representation of the interaction is shown in Figure 1. The further pairwise
5 comparisons showed that when fear is paired with a guaranteed reward (i.e. reward certainty),
6 the respondents indicated a stronger intention to reuse towels ($M_{\text{Fear-Certainty}} = 5.391$ vs. $M_{\text{Fear-}}$
7 $M_{\text{Uncertainty}} = 4.363, p < .001$). Thus, hypothesis 1 is partially supported. In the reward uncertainty
8 condition, the incidental emotion of fear elicited a weaker intention than hope to reuse towels
9 ($M_{\text{Fear-Uncertainty}} = 4.363$ vs. $M_{\text{Hope-Uncertainty}} = 5.235, p < .001$) and this supported Hypothesis 2.
10 However, no significant difference was found between fear and hope emotions in reward
11 uncertainty conditions.



51
52 **Figure 1** Means of the Four Experimental Conditions
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5. Discussion

Understanding and managing incidental emotions is crucial for businesses in the tourism and hospitality industry, as emotions are often a key factor in decision-making and can significantly influence the overall travel experience (Walls et al., 2011). The Appraisal Tendency Framework (ATF) provides a theoretical foundation for understanding how individuals experiencing a specific emotion activate their cognitive predisposition to assess future events. In particular, the framework explains how individuals' positive/ negative future-oriented incidental emotions (i.e. hope and fear) derived from unrelated or peripheral situations or events will shape their judgement and behaviours. For example, hope as an incidental emotion can arise from hotel guests' positive experiences through greener hotel surroundings (e.g. rooftop gardens and green walls) stimulating the senses of sight, smell and hearing. By eliciting positive future-oriented emotions of hope, hotels can motivate guests with random chance-based rewards (i.e. uncertainty) to promote effective and sustainable behaviours. When offering uncertain rewards, such as lucky draws, respondents in the hope-framed condition have a stronger intention to participate in the towel reuse promotion. The findings suggest that using incidental emotions and rewards can be an effective way for hotels to promote sustainable behaviours among their customers.

5.1. Theoretical Implications

This study advances the understanding of the interplay effects between incidental emotions (fear vs. hope) and reward (un)certainty. The incidental emotions that are unconnected to the situation or context also exert a significant impact on sustainable behaviours (Andrade & Ariely, 2009). Promoting sustainable practices to hotel guests, such as towel reuse, can help reduce the hotel industry's environmental impact and raise awareness about the importance of sustainability and environmental conservation. Using the context of towel reuse during hotel stays, this study contributes to the literature by examining the interaction effects of incidental

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3 emotions and reward (un)certainty. Individuals tend to be more risk-averse when experiencing
4 fear and more risk-seeking when experiencing hope. Hope has the characteristic of future
5 positive orientation: individuals are inclined to take chances for attainable outcomes and be
6 more open to the unknown. When hope is paired with reward uncertainty, it can strengthen
7 individuals' cognitive appraisals of their sustainable behaviours. In other words, chance-based
8 random rewards (i.e. uncertainty) can be desirable for individuals with a positive state of
9 affective emotion (Goldsmith & Amir, 2010). It can also be explained using Hofstede's cultural
10 dimension of "Uncertainty Avoidance", which is related to the degree of acceptance of
11 uncertain or ambiguous situations (Hofstede, 2001). Hong Kong has a very low score of 29 on
12 "Uncertainty Avoidance" compared with other collectivist countries/ regions, such as Japan
13 (92), Korea (85) and Taiwan (69) in Asia (Insights, 2024). People with low "Uncertainty
14 Avoidance" feel more hopeful and comfortable with ambiguity. Hence, they are willing to take
15 risks for unknown outcomes (i.e. chance-based random rewards).

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17 Tourists' incidental emotions of fear can also be influenced when they encounter visible
18 signs of negative surroundings (e.g. signs of environmental degradation). Knowing that tourists
19 with fear tend to avoid risk-taking in their decision-making, guaranteed rewards (i.e. certainty)
20 will be a better option to motivate them to participate in pro-environmental behaviours. This
21 fills the gaps by examining the incidental emotions and rewards (un)certainty in the hospitality
22 and tourism sector. By understanding the underlying mechanisms that drive the relationship
23 between incidental emotions and decision-making, researchers can further develop theoretical
24 models to understand individuals' sustainable behaviours, which in turn can inform the
25 development of more effective interventions and policies.

5.2. Managerial Implications

From a managerial perspective, the findings of this study provide insightful recommendations for businesses and managers for designing appropriate rewards for encouraging pro-environmental behaviours. Several strategies that hotels can use to ensure their sustainability initiatives are eliciting the desired incidental emotional responses from guests. For the immediate effect, environmental stimuli within the service scape can arouse incidental emotions (Su et al., 2018), potentially influencing customers' perception in evaluating reward (un)certainty. Hotels can use the design of the physical environment to evoke positive emotions related to sustainability, such as incorporating green spaces, natural materials, and energy-efficient lighting in surroundings to create a sense of calm and well-being. The findings in this study show that hotels can utilise incidental emotions of hope and fear along with guaranteed and chance-based rewards (i.e. reward certainty and uncertainty) in pro-environmental promotions. For example, hotels can induce guests' incidental emotions of hope by sharing and highlighting visions of sustainable initiatives on their official website or social media platforms to create a positive impact on the environment or local community. Maintaining a sense of optimism (even in uncertain circumstances), guests envision hope in future scenarios and, hence, have a high chance to accept uncertain rewards, such as lucky draws or surprise deals, to engage in eco-friendly behaviours. Chance-based rewards as variable promotional costs can reduce marketing expenses while effectively motivating customer behaviours (Goldsmith & Amir, 2010; Rahman & Reynolds, 2019). In addition, when guests perceive cities/ areas that are unsafe or polluted, their incidental emotions of fear might be evoked. In this case, guaranteed rewards, such as fixed price discounts or rebates, would be a more effective incentive for hotels to promote sustainable behaviours.

In addition, hotels can also consider other aspects, such as advertising, digital touchpoints, and digital reward apps, that instil customers' incidental emotions (Kemp et al.,

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3 2021; Straker et al., 2015; Wang et al., 2016). For example, smart hotels have leveraged
4 artificial intelligence and technology to enhance customer experiences, focusing on sustainable
5 operation efficiency (Sinha et al., 2021). Leveraging data analytics in reward apps, companies
6 collect customers' data points on communication messages (i.e. posts) through interactions
7 such as comments, likes, and shares to detect their emotional cues of hope and fear. Based on
8 customers' responses, companies can predict and categorise them into different groups (e.g.
9 hope or fear). They can now adjust incentive strategies that offer a mix of rewards to resonate
10 with their emotional state.
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5.3. Limitations and Future Study

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25 This study confronts limitations that need to be acknowledged for future endeavours. First, this
26 study used the intention to reuse towels as the outcome variable. This is one of the many forms
27 of pro-environmental behaviours in the hospitality and tourism fields. Therefore, future studies
28 can consider measuring and examining other types of pro-environmental behaviours. Second,
29 this study's reliance on self-reported measures may lead to a weak conclusion because of the
30 potential attitude-behaviour gap. Together with self-reported behavioural data, a field
31 experiment measuring actual behaviours is recommended for future research to validate the
32 findings of this study. For example, the study of Nowak et al. (2023) had access to visitors'
33 actual donations as well as self-reported surveys to provide a comprehensive perspective to
34 evaluate the norm nudges in tourists' sustainable behaviours. Third, we recruited participants
35 through a paid online panel service, and all participants were self-selected to participate in the
36 research. The voluntary participation may suggest that participants are already interested in the
37 environmental issue, which, in turn, may result in significant relationships in the end. Fourth,
38 we did not distinguish between respondents staying alone or with others. Future research could
39 explore how these factors may influence pro-environmental behaviour in staycations.
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3 Future studies may consider a more diverse and representative sample for investigation.
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5 In addition to personal emotions, future research may examine social emotions that arise in
6 response to social interactions or situations with others. Taking others' perspectives in the
7 emotional experiences will impact their judgement and behaviours. Furthermore, the types of
8 hotels (e.g., smart, luxury, or chain hotels) or hotels in different regions may have different
9 energy-saving schemes or sustainable promotional strategies (Wang et al., 2023). Future
10 studies may compare companies' strategies or customers' sustainable behaviour in various
11 types of hotels. Future research may also explore how tourists' cultural backgrounds and
12 incidental emotions interact with reward types in promoting pro-environmental behaviours in
13 different countries/ regions. For example, the quality of government providing more
14 sustainable facilities and environments in public areas plays an important role in people's pro-
15 environmental behaviours (Kulin and Johansson, 2021).

30 31 **Conclusions**

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33 The sustainability practices of hospitality and tourism businesses warrant particular attention
34 because of the intense use of resources and potential impacts on the environment (Cerchione
35 & Bansal, 2020). Encouraging pro-environmental behaviours in the hospitality and tourism
36 sector can differ from that in the everyday context (Budovska et al., 2020), as hospitality and
37 tourism businesses are used to provide a hedonic customer experience, which may be the
38 barrier to motivating sustainable consumption. This study offers empirical evidence on how
39 incidental emotions and reward (un)certainty influence the intention to reuse towels in a hotel.
40 Although guaranteed rewards (i.e. certainty) are generally preferable by customers for
41 engaging in pro-environmental behaviours, unknown rewards (i.e. uncertainty) would also be
42 effective when paired with incidental emotions of hope. This study contributes to the literature
43 by advancing the understanding of the interplay effect of incidental emotions and reward
44 (un)certainty. Hotel companies and managers need to consider the feelings elicited by their
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3 service-scape and touchpoints in the hotel customer journey when formulating sustainable
4 activities and the associated rewards.
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