



# Sustainability Practices as A Competitive Edge in Five Star Hotels of Delhi: A Study on Manager's Perception



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## Abstract

The study aims to conduct an analysis describing the sustainable strategy available for hotels, evaluating its potential to create competitive advantage and exploring how its implementation influences other actors in the industry specifically and the whole area development generally. For the purpose of this study, Delhi has been chosen with a focus on the Five Star and Five-star Deluxe Hotels of the city. A survey was conducted with the employees working in 15 Five stars and Five-star Deluxe Hotels in Delhi. According to the analysis, the sustainable efforts of the hotel include environmental, social and economic initiatives. The results of the survey highlighted the sustainability practices that are being adopted and the extent of their implementation by these hotels. It also showed the relationship between a hotel's sustainability practices and employees' satisfaction. Furthermore, the study has explored the ability of sustainable efforts to create a unique reputation for the hotel which may enable it to gain a competitive edge. The latter, in turn, attracts the business customers who consider the sustainable hotel as a valuable partner for their own reputation. All in all, as the sustainability practices enhance the profitability, it is considered a source of complete advantage.

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## 1. Introduction

Sustainability is increasingly recognized as a cornerstone of competitive advantage in today's business landscape. This trend is expected to grow. Sustainability is a word that has been much talked about in most sectors of the economy especially in the Hospitality sector. This paper will focus on the holistic sustainable concept, by concentrating

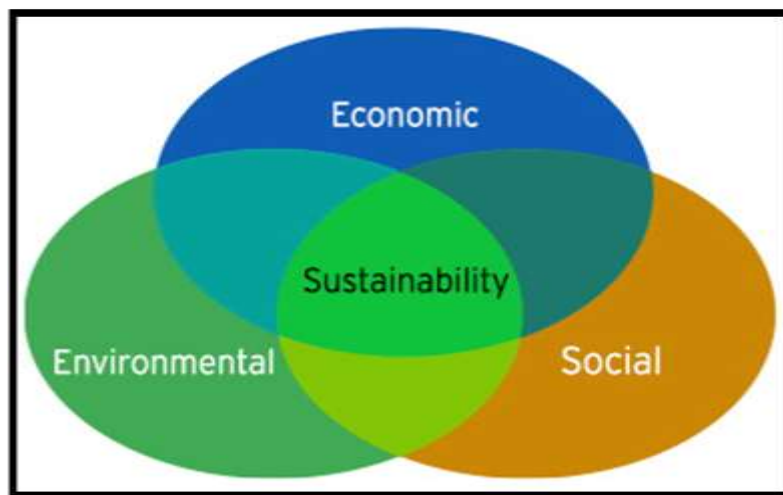
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especially on five-star hotels in Delhi that have to face the problems of limited space available and of being less often considered for performing green practices. This is a reason why most city hotels that decide to follow a sustainable strategy usually have to start at the bottom of sustainable development that accounts for restructured long-term saving plans in energy and resource management.

Specifically in a business environment, sustainability “generally refers to the ability of a company to do business in a fashion that minimizes pollution and reflects careful management of natural resources. (Esty, 2011)” The term ‘Sustainability’ relates to meeting the needs of the present without compromising the ability of future generations to meet their own needs (Brundtland, 1987). This early definition has been applied in business contexts as corporate social responsibility (CSR), the voluntary but near-mandate to contribute to social, environmental and cultural wellbeing along with company profitability (Kotler & Lee, 2004); (Visser, 2010); (Werbach, 2009). In turn, CSR has been rendered more compliant by its translation into ‘triple bottom line’ (TBL) or ‘people, planet, and profit’ rubrics (Elkington, 1998, 2008), designed to track social and environmental progress in addition to wealth creation. In other words, ‘Sustainability’ requires building harmony between environmental, social equity and economic demands - also referred to as the “three pillars” of sustainability. It ensures that we have and will continue to have the water, materials, and resources to protect human health and our environment



#### *Dimensions of Sustainable Strategy*

The last century, mankind has immensely damaged the vast majority of its natural habitat which is still continuing. According to Munier (2005) “...humankind has very effectively managed to squander the earth’s resources, clear-cutting a large amount of 12 existing forests, contaminating the atmosphere, polluting rivers, and even altering our climate.” As a matter of fact, the economy utilizes natural resources to produce. Since our society is entirely dependent on those scarce resources, it must protect them in order to uphold the economy.

It is widely argued where the concept of sustainable development had its beginning, as concern about the society’s impact on the environment was already an issue at the beginning of the 20th century. However, the birth of the sustainable development movement can be associated with the United Nations Conference on the Human Environment in Stockholm in 1972, which was the first major UN conference that had a concern about environmental issues on a global scale as the main agenda (Dauvergne, 2005). After some dramatic events such as the Bhopal Gas tragedy in India in 1984 and the nuclear accident in Chernobyl in 1986, governments worldwide were induced to implement stricter regulations and laws on companies’ behavior towards the environment (Blackburn, 2007).

It has long been known that social responsibility and attitude for sustainability are becoming factors of great importance for businesses across all industries (Porter & Derry, 2012). This is the result of a general increase in awareness of these issues among the public, which subsequently affects the demand for businesses to comply with new standards of practice and accountability (Porter & Derry, 2012). As a result, the initiator of sustainable efforts may become an initial impetus to the sustainable urban development in a city or area (Tryggstad, Georg & Hernes, 2010). The type of business which can play such a role is hotels. In fact, as the hotel represents a building, the success of its

sustainable practices and technologies may cause the spillover effect on its competitors. Historically, hotel owners saw sustainable efforts as expenses for economic performance (Mihalič *et.al.*, 2012). For this reason, attention to “green” technologies was weak before the 21st century (Mihalič *et.al.*, 2012). Today the sustainability is slowly becoming a dominant theme in the hotel industry (Spilanis & Vayanni, 2004). In order to extract benefits from this situation, some hotels started implementation of various “environment-friendly” technologies and their promotion in order to differentiate its offering and, consequently, outperform the competition (Green Building Elements, 2013).

### *Literature Review*

The term ‘Sustainability’ has become a focal point for service organizations nowadays (Porter.T, 2012). The concept of Sustainability encompasses various definitions. According to the World Commission on Environment and Development (Brundtland, 1987), sustainable development ensures the meeting of the present generation needs without compromising the ability of future generations to satisfy their own needs. Sustainability simply implies that a given activity or action is capable of being continued indefinitely (Johnston, 2007). In this paper Sustainability is considered as the “Triple Bottom Line” - People, Profits, and Planet, famously coined by (Elkington, 1994) arguing for the need for a balanced approach to development. “Triple bottom line” approach to integrating people, planet, and profits into all management actions or decisions was further asserted by (Wirtenberg, 2012).

According to (Prairie, 2012), the hotel industry is in the midst of a sustainability awakening. Due to the current state of the environment, businesses and industries have begun to incorporate sustainability practices to meet consumers’ environmental issue concerns, current industry standards, and to create an environment of sustainable development for future generations. This section reviews research on sustainability practices in the hospitality industry.

Hotels have incorporated environmental practices to reduce their impact on the environment probably owing to cost savings, media pressure, laws, or environmental consciousness and awareness. (Revilla, 2001). According to (Jai Rathore, 2009), “Hotels have thoughtfully adopted various operational sustainability practices that help them save a great amount of money but have little to improve energy efficiencies and environment-friendly building designing at the project phase.” (Orie Berezan, 2010) measured the impact of environment hotel practices on Guest satisfaction and the motivating factors for them to pay a higher premium for an environment-friendly room in Hotels in Mexico.

Competitive Advantage in view of (Grant, 2010) represents the company’s advantage over its rivals that helps to earn a persistently higher rate of profit. There is a research gap in the service sector to prove whether or not sustainable service businesses can benefit from sustainability, (Gupta, 2012). The industries in the service sector differ a lot and, hence, have a different reliance on sustainability. According to (Mark Vickers, 2007-2017) sustainability-related best practices often represent competitive advantages for organizations, through a global ethic of “open source”. The best practices are associated with their developers, who receive acceptance and applause that are often used in advertising campaigns to strengthen their brands. Contradictory to this, Sustainability approach is not practiced too widely because it costs too much and so dampens competitiveness.

### *Objectives of the Study*

- a) To find out the prevailing sustainability practices of Five Star Hotels in Delhi.
- b) To study the influence of sustainability practices on the actions of Competing Hotels in Delhi.

## **2. Materials and Methods**

### *Sampling and data collection*

Sample hotels were identified from the highly respected directory of the Ministry of Tourism, Govt. of India and FHRAI that serves as a resource center for business information and maintains relevant databases of hospitality firms. To initiate the sample 15 five star hotels participated in the survey. They represented a mix of employees of the above mentioned hotels and also the guests staying or have stayed with them on sustainability practices. A survey methodology was chosen because it was deemed to be the most efficient way of reaching a large number of respondents, whereas the data required facilitated the use of a mail and self-administered questionnaire with closed-ended questions. Of the total sample, usable questionnaires were returned by 740 respondents that included 375 Hotel Employees and 365 Hotel Guests.

### 3. Results and Discussions

Table 1

Represents the hotels that have been included in the survey which includes leading hotels approved by Ministry of Tourism, Government of India (Tourism, 2016)

5 Star		
S.No	City	Hotel Name
1	New Delhi*	Jaypee Siddharth
2	Delhi	J W Marriott
3	New Delhi*	Park Plaza, Delhi
4	Delhi	Piccadilly Hotels Pvt. Ltd. 5 Star Deluxe
	City	Hotel Name
5	Delhi	Hotel Welcome Sheraton
6	Delhi	Hotel Amanbagh
7	Delhi	Le Meridien New Delhi
8	Delhi	Kempinski Ambience Hotel Delhi
9	Delhi	ITC Maurya
10	Delhi	The Oberoi, New Delhi (Closed for Renovation)
11	Delhi	Hotel Imperial
12	New Delhi*	The Taj Palace Hotel
13	Delhi	The Park
14	Delhi	Radisson Blu Hotel Dwarka
15	Delhi	JW Marriott
16	Delhi	The Lodhi
17	Delhi	The Ashok

Table 2 represents the extent to which hotel applied sustainability management practices to provide more accurate data for decision making, respondents were asked to indicate Importance and Usage of sustainability management practices. Further to structure the discussion of the findings we framed them according to their usage and importance in table 3. Three factors of sustainability management practices items have been identified based on exploratory principal components. Thus, the analysis provides a strong indication that traditional sustainability management practice is alive and well in the sample hotels. Therefore, H1 rejects as there is a significant difference in usage and importance of sustainability management practice in sample hotels.

Table 2

The use of star rated appliances has been ranked highly among practices for sustainability

Sustainability Practices Adopted by Hotels	Mean Square	SD	Sig.
Insulation of appliances and Fixtures to minimize heat gains/losses in your hotel	5.013	3.496	.008
Adequate Natural Lighting in day time	3.033	2.029	.090
LED Lights	4.564	3.667	.006
Reflective window Films	7.206	5.848	.000
Alternate /Renewable energy e.g solar or biomass energy	5.280	3.045	.017
Star rated appliances	1.594	1.150	.333
Motion Sensor lighting/thermal devices	4.676	2.535	.040
Periodical service of equipment	4.225	3.007	.018
Thermostat range limited I occupied rooms	5.485	4.233	.002
Adequate natural ventilation, and shading from trees and other vegetation to cool guest rooms, patios, etc.	5.049	3.135	.015
Low-flow fittings.	3.701	2.527	.040
Dual flush toilets.	13.488	8.759	.000

Water recycling practices.	3.179	2.940	.021
Re-use grey water to irrigate lawns etc	1.873	1.442	.220
Sensor fittings in washrooms.	13.594	6.916	.000
Rainwater harvesting for use in laundry etc.	12.650	6.186	.000
Wastewater treatment plant.	2.139	1.628	.166
Reduce, reuse and recycling of waste.	2.332	1.893	.111
In-room linen recycling.	9.291	7.837	.000
In-room amenities recycling	8.018	5.747	.000
Facility for composting of waste.	7.550	7.228	.000
Use of organic cleaning products.	5.563	4.045	.003
Donating left over food.	9.774	3.767	.005
Purchase of hotel supplies from local vendors.	6.213	5.159	.000
CNG/Battery operated Vehicles.	5.297	4.309	.002
Provision of shuttle service for staff pick-up and drop.	12.642	6.731	.000
Hotel's efforts for Workplace safety.	11.915	18.086	.000
Hotel's effort for Work-life balance	8.812	10.834	.000
Life Insurance benefits.	16.240	14.392	.000
Provision of medical benefits.	14.622	10.885	.000
Provision of transportation facility.	4.530	4.621	.001
Provision of Leave Travel Allowances.	5.725	5.754	.000
The hiring of a greater number of local staff over the outstation ones.	4.821	5.807	.000
Hotel's efforts for improving employee satisfaction, morale and retention.	6.392	7.048	.000
The frequency of meetings held to discuss sustainability issues with the employees.	2.378	2.356	.053
Initial orientation programme to educate new join towards sustainable practices.	2.776	4.009	.003
Your participation in Sustainability Practices.	2.684	4.523	.001
Recognition is given for your distinguished achievements towards sustainability.	1.831	2.314	.057
Hotel's initiative to employ people with disabilities.	8.178	8.809	.000
Hotel's initiative for the upliftment of the surrounding areas and communities.	2.081	2.680	.031
Hotel's initiative to assist an NGO or underprivileged segment of society.	7.872	9.780	.000
Hotel's initiative to purchase local products and supplies.	3.660	3.491	.008
Hotel's initiative to support employment generating vocational training programmes.	7.942	6.947	.000
Hotel's initiative to supports traditional art & craft-work.	6.219	4.703	.001
Hotel's initiative to contribute donations to needy organizations.	8.005	6.724	.000
Hotel's initiative to build ties with educational institutes and schools to educate them about sustainability.	5.465	4.366	.002
Hotel's initiative to build strong relations with its stakeholder's.	5.726	5.869	.000
Leads to cost reduction.	4.234	6.244	.000
Leads to increase in Occupancy of the hotel.	3.076	4.205	.002
Leads to increase in Revenue.	6.975	8.441	.000
Leads to higher Average Room Rates than your Competitors.	5.743	7.411	.000
Leads to increase in profits.	5.527	6.570	.000
Leads to improved company/brand image.	6.371	8.001	.000
Involve huge Investments.	6.599	6.571	.000
Results in employee's resistance to change.	8.988	7.932	.000
Results in customer's resistance to adopting them.	13.501	10.060	.000
Not feasible for the firm of this size.	9.241	6.151	.000
Induces stronger compliance to environmental certification standards.	6.296	6.297	.000
Induces stricter compliance with government environmental, legal and economic legislation.	5.697	6.506	.000
Triggers timely audits done to review energy and water usage and waste if any produced.	8.529	9.420	.000

Inspires for the frequent introduction of new energy and labor-saving technologies.	8.657	10.654	.000
Induces greater efforts for cost-savings.	3.247	3.934	.004
Fosters more focus on improving the relationship with the stakeholders including hotel staff, guests, suppliers, local communities etc.	3.228	4.132	.003
Inspires to adopt sustainability methods that improve revenue or cash flow.	4.676	6.795	.000
Prompts more involvement in corporate social responsibility (CSR) initiatives.	5.795	7.472	.000

Table 3 assesses the influence of sustainability practices by hotels on the basis of the demographic profile of competing hotels. The hotels taken in the survey for studying various sustainability practices have been studied on the basis of a number of rooms they have, the age of the hotel and also the type of hotel. The table shows that the type of hotel enterprise has a significant impact on the prevailing sustainability practices adopted among the hotels in the survey.

Table 3  
The type of hotel enterprise

Bi-Variate Correlation on Demographic Variables		Correlations		
		Number of Rooms	Age of Property	Type of Enterprise/Hotel
Number of Rooms	Pearson Correlation	1	-.263**	-.003
	Sig. (2-tailed)		.000	.956
	N	375	374	375
Age of Property	Pearson Correlation	-.263**	1	.163**
	Sig. (2-tailed)	.000		.002
	N	374	374	374
Type of Enterprise/Hotel	Pearson Correlation	-.003	.163**	1
	Sig. (2-tailed)	.956	.002	.004
	N	375	374	375

\*\* . Correlation is significant at the 0.01 level (2-tailed).

#### 4. Conclusion

The findings of this research paper suggest growing awareness, interest and seriousness towards employment of sustainability practices. There is a significant difference in usage and importance of sustainability management practices among competing Hotels. Though this development is significant, there is still work to be done in terms of consolidating the sustainability agenda.

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##### *Statement of authorship*

The author(s) have a responsibility for the conception and design of the study. The author(s) have approved the final article.

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