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Green Practices in The Hotel Industry: Proposed Implications to The Environmentally Appropriate Programs

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ABSTRACT: This study explores the green practices of the hotel industries in one of the cities in Northern Mindanao, Philippines with the intention of utilizing the findings as basis for the implementation of a proposed environmentally appropriate programs. The study gave emphasis on the participant's extent of awareness and participation towards green practices of the hospitality industry in the city in terms of green energy consumption, water and liquid waste management, air quality management, solid waste disposal management and noise control management. The participants consisted of 88 personnel from the different DOT accredited hotels in Cagayan de Oro City. Based on the findings, the participants are much aware on the extent of their awareness on the green practices on water and liquid waste, green energy consumption, air quality management, solid waste disposal and noise pollution control. Among the green practices variables, air quality management has the highest mean. The participants' extent of participation on the green practices was rated great extent. Among the variables, water and liquid and waste management, air quality management, and solid waste disposal and management got the highest mean rating. While noise pollution control got the lowest mean rating. The test of relationship between the participants' awareness and their extent of participation of the green practices in hospitality industry shows that awareness of the green practices is significantly associated with the extent of practice.

KEYWORDS: Green practices, hotel industry

INTRODUCTION

The issues of the tourism industry specifically on the production of a huge amount of waste and other pollution have always been unbecoming. It is in this regard that the prevalence of environmental issues become the interest of many due to the deterioration of the natural physical environment. Piagran (2005) believes that

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Published by European Centre for Research Training and Development UK tourism can certainly contributes to the environmental degradation. Therefore, it is important to ensure that tourism is well managed and performed through green practices.

Green practices otherwise known as environmentally friendly practices have become familiar to consumers. Cognizant to the increasing number of visitors in Cagayan de Oro City and the consumption of natural resources, environmental problems are also arising. As cited by Xie and Bren (2012) awareness of the environmental issues such as global warming, carbon emissions, toxic substance usage and resource scarcity strengthened policy makers and activists to support the going green practices principles, specifically, among the hospitality sectors.

Around the world, the concept of green tourism is adopted. However in the Philippines, specifically in Cagayan de Oro City, such concept is deemed to be unacquainted. Although, the government and other organizations put a lot of efforts to promote green tourism, this concept has yet to be introduced to some hospitality industry in the city. Nonetheless, the concept demands a lot of investments among hospitality sectors. Given this context, the study seeks to find out the extent of awareness and the extent of participation on green practices of the hospitality sectors in the city.

The findings of the study may be utilized to propose an appropriate program for the players of the industry such as hotels, restaurants and tourism organizations in Cagayan de Oro City to undergird the green tourism advocacy.

METHODS

This study used the descriptive-survey method which identifies the situation and event of the actual and present conditions (Rubin *et al.* 2009). In this study, the extent of awareness and participation of the participants on green tourism are, thus, identified.

The participants of the study are the supervisors and entry level employees of the different selected and accredited hotels by the Department of Tourism (DOT) in Cagayan de Oro City. Survey questionnaire using the likert scaling were given personally to participants understudy. The questionnaire were adapted from the Green Practice survey of Sun-Hwa Kim (2005), Hotel sustainability survey instrument of Rathore *et al.* (2009) and from the research questionnaire on Adoption of green practices in hospitality and tourism industry of A.M.A. Fadhil (2015) and the survey questionnaire on green practices of the DOT. All of these instruments were restructured to examine the aspects of green practices in the hospitality industry. The data were retrieved by the researchers and were processed using the appropriate statistical treatments.To ensure the internal consistency of the items in the questionnaires it was subjected to a reliability test. For the said test, the researcher selected 35 participants from a Business hotel in the city. For its internal consistency, the test revealed that the instrument has very high reliability results to which the

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Published by European Centre for Research Training and Development UK computed values were computed between 0.90 to 0.93 and the most acceptable range for the reliability measure is between 0.70 to 0.99.

RESULTS

The results of the study are presented in the tables that follow.

Table 1.	Frequency, Percentage, and Mean Distribution of Participants' Extent
of A	wareness towards Green Practices ("Green" Energy Consumption)

Range Interpre .51-4.00 Very Much .51-3.50 Much A .51-2.50 Moderately .00-1.50 Not Av Total Overall Mean Indicators et of awareness programs/activities to fa policy or a regulation on: aging the use of local produc um purchase of 20%) and 30 % rs within the region; and	h Aware Aware y Aware ware s on environmental cts such as food	Freque 16 61 9 2 88 Mean 3.19	3.1083 0.5341 Interpretation Much Aware	% 18.18 69.32 10.23 2.27 100
.51-3.50 Much A .51-2.50 Moderately .00-1.50 Not Av Total Overall Mean Interpretation SD Indicators t of awareness programs/activities on for the staff on of a policy or a regulation on: aging the use of local produc um purchase of 20%) and 30 % rs within the region; and	Aware y Aware ware s on environmental cts such as food	61 9 2 88 Mean	0.5341 Interpretation	69.32 10.23 2.27 100
51-2.50 Moderately .00-1.50 Not Av Total Overall Mean Interpretation SD Indicators et of awareness programs/activities ton for the staff on of a policy or a regulation on: aging the use of local produc um purchase of 20%) and 30 % rs within the region; and	y Aware ware s on environmental cts such as food	9 2 88 Mean	0.5341 Interpretation	10.23 2.27 100
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et of awareness programs/activities on for the staff on of a policy or a regulation on: aging the use of local produc um purchase of 20%) and 30 % rs within the region; and	cts such as food		_	SD
ton for the staff on of a policy or a regulation on: aging the use of local produc um purchase of 20%) and 30 % rs within the region; and	cts such as food	3.19	Much Aware	
on of a policy or a regulation on: aging the use of local produc um purchase of 20%) and 30 % rs within the region; and		5.17		0.81
aging the use of local produc um purchase of 20%) and 30 % rs within the region; and				0.81
um purchase of 20%) and 30 % rs within the region; and				
rs within the region; and		• • • •		0.00
	across all organic	3.00	Much Aware	0.90
	anadahla aya 1 se	2.07	Maral Assess	1.01
environmentally friendly and biode		3.07	Much Aware	1.01
e of green seal certified sustainable		216	Much Aware	0.07
ls and equipment such as laundr oths and dual motor vacuum cleane		3.16	Much Aware	0.87
			Much awara	
	its for twice a year	3.10		1.03
		3,11	Much Aware	0.95
	roperty			1.03
		3.14	Much Aware	0.79
	lews of outdoors in			
		3.08	Much Aware	0.83
		2 27	Much Awara	0.77
		5.52	WINCH AWale	0.77
	tisement boards to	3.14	Much Aware	0.85
		_		_
6	of high wattage	3.05	Much Aware	0.90
	r energy to useful	3.08	Much Aware	0.86
0.		2.50		0.00
	ater and electricity	3.17	Much Aware	0.86
		2.02	Much Aware	
v energy saving report. monthly w	ater saving report,	3.02		0.91
	ent growth of bacteria electronic key card in guestrooms e of automatic sensor lighting on pr e of energy star rated equipment su etc. on of access to natural light and vi ly occupied spaces including o functions rooms, laundry areas, an of appropriate temperature in b , kitchen, etc.) on of energy-saving friendly rem such as: guest rooms and advert age clients to save energy use of Compact Fluorescent Emitting Diode (LED) instead escent lamps se of solar panels to convert sola s of electrical energy ling of energy consumption both w ry location ling of environmental activities of	electronic key card in guestrooms e of automatic sensor lighting on property e of energy star rated equipment such as: refrigerator, etc. on of access to natural light and views of outdoors in ly occupied spaces including offices, conference functions rooms, laundry areas, and kitchen. of appropriate temperature in back of the house kitchen, etc.) on of energy-saving friendly reminders in strategic such as: guest rooms and advertisement boards to age clients to save energy use of Compact Fluorescent Lamp (CFL) or Emitting Diode (LED) instead of high wattage escent lamps the of solar panels to convert solar energy to useful s of electrical energy ling of energy consumption both water and electricity	ent growth of bacteria5.10ent growth of bacteria3.11electronic key card in guestrooms3.11e of automatic sensor lighting on property3.00e of energy star rated equipment such as: refrigerator, etc.3.14on of access to natural light and views of outdoors in ly occupied spaces including offices, conference functions rooms, laundry areas, and kitchen. (of appropriate temperature in back of the house (kitchen, etc.)3.32on of energy-saving friendly reminders in strategic such as: guest rooms and advertisement boards to age clients to save energy use of Compact Fluorescent Lamp (CFL) or Emitting Diode (LED) instead of high wattage so of electrical energy3.08s of electrical energy ry location3.08ing of energy consumption both water and electricity ry location3.17	ent growth of bacteria3.10electronic key card in guestrooms3.11with a selectronic key card in guestrooms3.11e of automatic sensor lighting on property3.00with a selectronic key card in guestrooms3.00with a selectronic key card in guestrooms3.11with a selectronic key card in guestrooms3.14with a selectronic key card in guestrooms, laundry areas, and kitchen.3.08with a selectronic key card in guestrooms, laundry areas, and kitchen.3.32with a selectronic key card in guestrooms and advertisement boards to3.14with a selectronic key card in guestrooms and advertisement boards to3.14with a selectro save energy3.05with a selectro selec

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Table 1 presents the participant's extent of awareness towards the green energy consumption. The mean rating shows that the participants rated the Green practices on green energy consumption as 3.1083 which is interpreted as much aware. Among the 88 participants 16 or 18.18% rated very much aware, 61 or 69.32 % rated much aware, 9 or 10.23% is moderately aware and 2 or 2.27% in not aware. The lowest mean rating is item 2.1 and 6. It stated that the used of local products are being encourage and the use of automatic sensor lighting in the property. The highest mean rating is item no. 9 which states that they set an appropriate temperature in the hotel with a mean of 3.32.Generally, the area of green energy consumption was rated as much aware among the participants. This would imply that personnel in the selected hotels are aware of these green practices on the green energy consumption. The result of the study is similar to the study conducted by Rusiana (2015) where results show that only the energy efficiency practices were fully implemented by most of the De luxe hotel because of its direct impact in reducing cost and in minimizing environmental destruction.

	Range	Interpretation	Frequency	%		
5		Very Much Aware	23	26.14	4	
	2.51-3.50	Much Aware	42	47.73		
	1.51-2.50	Moderately Aware	23	26.14		
	1.00-1.50	Not Aware	0	0.00		
		Total	88	100)	
	0	verall Mean		3.042		
	In	terpretation				
		SD		0.6603		
		Indicators	Mean	Interpretation	SD	
l	Implementatior guestrooms	n of the towel and linen reuse program in	ⁿ 3.16	Much aware	1.04	
2	Utilization of machines	minimal water usage for the laundry	у			
3	Utilization of ra	ain water for reuse	3.03	Much aware	0.7ϵ	
4	The use of native consumption	ve plants for landscaping to minimize water	2.80	Much aware	0.76	
5	plumbing fixtu	f "low-flow" (controlled flow) indoo res in bathrooms (toilets and shower heads inks) to reduce water use		Much aware	1.05	
5		ecycling of waste water	2.84	Much aware	1.10	
7		ave Water" signs in kitchen and back office	e 2.97	Much aware	1.01	
8	Installation of game and grease cont	grease trap system in the kitchen, restauran aminated area	t 2.95	Much aware	0.97	
)	0	aste water treatment system suitable for the	e 3.01	Much aware	1.01	
10		a of the maintenance plan of sanitary ware equipment, including the checking of leal		Much aware	0.77	

 Table 2 Frequency, Percentage and Mean Distribution of Participants' Extent of

 Awareness towards Green Practices (Water and Liquid Waste Management)

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Conduct of annual cleaning of potable water tanks and monthly testing of water quality to prevent water contamination and reduction of waste water generation through automatic sensor faucets, automatic sensor flush
 3.41 Much aware 0.77

Table 2 shows the extent of awareness towards green practices on water and liquid waste management. The overall mean is 3.042 which is interpreted as much aware. Of the 88 participants, 23 or 26.14% is very much aware of the green practices on water and liquid waste management, 42 or 47.73% is much aware,23 or 26.14 is moderately aware and 0% is not aware. Among the items, no. 11 was rated as the highest mean of 3.41 rating implying that the participants are aware of the conduct of annual cleaning of potable water tanks and testing of water quality. However, among the items, item no.2 with a mean rating of 2.80 indicating that the use of native plants for landscaping may minimize water consumption has the lowest rate. This would reinforce the study of Yusof *et al.* (2013) where the use of rain water to minimize water consumption is rarely applied.

	Range	Interpretation	Frequency	%		
	3.51-4.00	Very Much Aware	31	35.2	3	
	2.51-3.50	Much Aware	38	43.18		
	1.51-2.50	Moderately Aware	18	20.45		
	1.00-1.50	Not Aware	1	1.14	Ļ	
		Total	88	100)	
	O	verall Mean		3.2159		
	In	terpretation				
		SD		0.5571		
		Indicators	Mean	Interpretation	SD	
_	Implementation property for indoc	of No-Smoking policy throughout t		Much aware	0.63	
	Placement of gree indoor air	en live plants on property for the quality	of 3.20	Much aware	1.01	
5		ve humidity at certain level to prevent t e.g. 35-60% in FL)	he 3.00	Much aware	0.86	
		measures to reduce carbon emissions fro units, exhaust fans, refrigerators, cooki e like		Much aware	0.78	
5	The use of low-e harmful toxins in	mitting carpets and adhesives to minimi its indoor air	ze 2.93	Much aware	0.98	
,	The use of biodeg	radable cleaning products	3.02	Much aware	1.12	
'	restaurants to ensu	purifiers in guest rooms, banquet halls a ure guests and staff are exposed to clean at	ir 3.25	Much aware	0.65	
5	and ventilation	ing design that allows passage of natural	3.20	Much aware	0.58	
		ng and maintenance of equipment and hor generators and air conditioning systems,		Much aware	0.69	
0	1 *	ly dusting and vacuuming of all so	oft 3.28	Much aware	0.91	

 Table 3 Frequency, Percentage and Mean Distribution of Participants' Extent of

 Awareness towards Green Practices (Air Quality Management)

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Published by European Centre for Research Training and Development UK Table 3 presents the frequency, percentage and mean distribution of participant's extent of awareness towards green practices on the air quality management. The overall mean indicated a mean of 3.2159 which is interpreted as much aware. From the items, the highest mean is 3.63 which indicated the implementation of no-smoking policy throughout the property for indoor air quality. This would imply that the participants are aware of the Republic Act on no smoking policy of the country and the R.A. Act 8749 Clean Air Act. The lowest mean is item no. 5 with a mean rating of 2.93 which stated the use of low-emitting carpets and adhesives to minimize harmful toxins in its indoor air.

Awareness towards Green Practices (Solid Waste Disposal and Management)							
	Range	Interpretation	Freque	ncy	%		
	3.51-4.00	Very Much Aware	31		35.23		
	2.51-3.50	Much Aware	47		53.41	l	
	1.51-2.50	Moderately Aware	9		10.23	10.23	
	1.00-1.50	Not Aware	1		1.14		
		Total	88	88 100			
	Ov	verall Mean			3.21123		
	Int	erpretation					
		SD			0.621867		
		Indicators	Μ	ean	Interpretation	SD	
l		t for the involvement of hotel staff					
		ise, recycling, waste segrega	tion and 3	.16	Much aware	1.0	
	composting pro						
2		n through public announcement or					
		courage hotel guests in the reuse,	recycling, 3	.05	Much aware	0.9	
_		egation program					
3			shampoos, 3	.07	Much aware	0.9	
		nd toilet papers, if not reused					
4 -		wastes before they are recycled		.26	Much aware	0.8	
5		equate recycle bins for waste recyc	U	.22	Much aware	0.7	
5		reusable cloth napkins, glass of	cups, and 3	.11	Much aware	0.9	
7		rather than disposable ones solid waste materials like alumin					
/		astics, paper, metals and glass bottl		.94	Much aware	1.0	
8		of paperless policy including					
)		vare or system such as: Ecopy, ema		.18	Much aware	0.8	
)		friendly alternatives to packaging		.07	Much aware	0.9	
, 10		aff in the principles of food s		.07	Which a ware	0.9	
10	hygiene hand si		arety and				
10.1	Hand washing	ten us.	3	.26	Much aware	0.8	
10.2	Correct food sto	orage		.40	Much aware	0.7	
10.3	Food handling	hugo		.35	Much aware	0.7	
10.3	Service of food	items		.28	Much aware	0.8	
11		of the following to reduce food w		0	mun umure	0.0	
1.1	Proper food sto			.41	Much aware	0.7	
11.2	Food handling			.31	Much aware	0.8	
11.2	Service of food			.32	Much aware	0.8	
12		of ecologically-based pest control	Inracticas				
	to identify and		3	.20	Much aware	0.90	

Table 4 Frequency, Percentage and Mean Distribution of Participants' Extent of Awareness towards Green Practices (Solid Waste Disposal and Management)

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Table 4 shows the frequency, percentage and mean distribution of the participant's extent of awareness towards green practices on solid waste disposal and management. The findings show an overall mean rating of 3.21 which interprets as much aware. It also shows that out of 88 participants, 47 or 53.41% is much aware of the green practices on solid waste.31 or 35.23% is very much aware, 9 or 10.23% is moderately aware and 1 or 1.14 is not aware of the green practices. Among the indicators the highest mean rating is 3.40 which indicates that the participants is much aware of the correct food storage in the hotel. However, the lowest mean rating is 2.94 on the recycling of solid waste materials like aluminum cans, cardboards, plastic paper metals and glass bottles. The result is in consonance with the study of Yusof and Jamaludin (2012) where it stated that some hotels do not use recycled materials and products in their operation because it is expensive and the quality is not good.

Table 5 Frequency, Percentage and Mean Distribution of Participants' Extent of
Awareness towards Green Practices (Noise Pollution Control)

Awareness towards Green Practices (Noise Pollution Control)							
	Range	Interpretation	Frequency	%			
	3.51-4.00	Very Much Aware	17	19.32	2		
	2.51-3.50 Much Aware		50	56.82	2		
	1.51-2.50	Moderately Aware	18	20.4	5		
	1.00-1.50	Not Aware	3	3.41			
		Total	88	100			
	0	verall Mean		2.9443			
	In	terpretation					
	III	SD		0.7046			
		Indicators	Mean	Interpretation	SD		
1	The use of plan	ts and equipment with quieter motors	2.91	Much aware	1.00		
2	Installation of	sound absorbing barriers underneath bath	ⁿ 2.82	Much aware	0.86		
	taps		2.82		0.80		
3	Replacement of	f toilet flush valve with quiet flush tanks	2.83	Much aware	0.96		
4		dows with good insulation	2.88	Much aware	0.94		
5		sound proofing of public areas with musi-	° 2.99	Much aware	0.90		
		sing acoustic walls, ceiling, and carpets		Widen uware	0.70		
6		sound limiters in the music amplification	¹ 3.02	Much aware	0.96		
_	system						
7		gaskets, drop seals and automatic doo			0.02		
		rance doors to guest rooms and conference	e 2.89	Much aware	0.92		
0	rooms	once other then alore alors to make a	-				
8	-	ones other than alarm clocks to wake up	2.97	Much aware	1.02		
9	guests	naximum sound levels for telephones, TVs					
,	-	ems in guest rooms	3.01	Much aware	0.84		
10		naximum sound levels for music systems and	1				
10	TVs in public a		3.14	Much aware	0.90		
	r vs in public a	1000					

Table 5 shows the frequency, percentage and mean distribution of participants' extent of awareness on the green practices on noise pollution control. The overall mean which is 2.9443 which is interpreted as much aware. It also indicated that of the 88 participants 50 or 56.82% is much aware, 18 or 20.45 is moderately aware, 17 or 19.32

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Published by European Centre for Research Training and Development UK is very much aware and 3 or 3.41 is not aware of the green practices. Of the indicators, no.10 was rated highest with a mean rating of 3.14 which states that the setup of maximum levels for music systems and televisions in public areas. This implies that the hotels are aware of the importance of noise control in their function rooms to satisfy customers. On the other hand, indicator no. 2 on the installation of sound absorbing barriers underneath bath taps got the lowest mean of 2.82

Table 6 Summary Table of Participants' Extent of Awareness on the GreenPractices in the Hospitality Industry

	Mean	Interpretation	SD
Water and Liquid Waste Management	3.04	Much aware	0.66
"Green" Energy Consumption	3.11	Much aware	0.53
Air Quality Management	3.22	Much aware	0.56
Solid Waste Disposal and Management	3.21	Much aware	0.62
Noise Pollution Control	2.94	Much aware	0.70

Table 6 shows the summary of the participant's extent of awareness on the green practices on water and liquid waste, green energy consumption, air quality management, solid waste disposal and noise pollution control. Of all the variables, air quality management was rated highest with a mean of 3.22 which means that the hospitality industry in Cagayan de Oro City is very much conscious on the implementation of the Executive Order no.26 on the smoke -free environment. Among the green practices variables, Noise pollution control has the lowest mean of 2.94 indicating that the participant's awareness is limited in terms of noise pollution control. Another study conducted by Orpia (2016) stated that the accommodation sectors are aware on the implementation of proper waste management policies.

	Range	Interpretation	Frequency	<u>%</u>	1	
	3.51-4.00	Very Great Extent	17	19.3		
2.51-3.50 Great Extent			51	57.9	-	
	1.51-2.50	Some Extent	7	7.9545		
	1.00-1.50	No Extent	13	14.7	73	
		Total	88	10	0	
Overall Mean				2.8603		
	Int	erpretation				
		SD	0.8418			
		Indicators	Mean	Interpretation	SD	
L	Conduct of aware protection for the	eness programs/activities on environmenta	¹ 2.75	Great extent	1.0199	
2	Provision of a po	licy or a regulation on:				
.1	encouraging the	use of local products such as food	ł			
	(minimum purch suppliers within t	ase of 20%) and 30 % across all organic he region; and	c 2.7841	Great extent	1.0662	
2.2		ntally friendly and biodegradable products		Great extent	0.9276	
3		seal certified sustainable cleaning products				
		uipment such as laundry products, micro	o 3.0114	Great extent	1.0227	
	fiber cloths and d	lual motor vacuum cleaners				

Table 7 Frequency, Percentage and Mean Distribution of Participants' Extent of
Participation towards Green Practices ("Green" Energy Consumption)

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		ining and D		
4	Regularity of cleaning air conditioning units for twice a year to prevent growth of bacteria	2.9195	Great extent	1.0914
5	Use of electronic key card in guestrooms	2.9091	Great extent	1.1207
6	The use of automatic sensor lighting on property	2.6705	Great extent	1.1815
7	The use of energy star rated equipment such as: refrigerator, copier, etc.	2.8864	Great extent	0.9992
8	Provision of access to natural light and views of outdoors in regularly occupied spaces including offices, conference rooms, functions rooms, laundry areas, and kitchen.	2.9091	Great extent	1.0243
9	Setting of appropriate temperature in back of the house (office, kitchen, etc.)	3	Great extent	1.0505
10	Provision of energy-saving friendly reminders in strategic places such as: guest rooms and advertisement boards to encourage clients to save energy	2.9091	Great extent	1.0682
11	The use of Compact Fluorescent Lamp (CFL) or Light-Emitting Diode (LED) instead of high wattage incandescent lamps	2.7841	Great extent	1.0554
12	The use of solar panels to convert solar energy to useful sources of electrical energy	2.8068	Great extent	1.1332
13	Recording of energy consumption both water and electricity for every location	2.75	Great extent	1.096
14	Recording of environmental activities of the hotel such as: monthly energy saving report, monthly water saving report, monthly information of reducing solid waste quantity	2.6932	Great extent	1.0971

Table 7 shows the result on the frequency, percentage and mean distribution of participants' extent of participation towards green practices on green energy consumption. The overall mean is 2.8603 which is interpreted as great extent. Among the indicators, the highest mean is item no. 2.2 indicating the use of environmentally friendly and biodegradable products. This implies that hotels are using biodegradable and friendly products such as prohibiting the use of plastic bags and the use of styrofore or styrofoam on food. The lowest mean rating among the indicators is 2.6705 on the use of automatic sensor lighting on the property.

Interpretation % Range Frequency 3.51-4.00 Very Great Extent 25 22 43 48.864 2.51-3.50 Great Extent 1.51-2.50 Some Extent 21 23.864 1.00-1.50 2 No Extent 2.2727 Total 88 100 **Overall Mean** 2.9181818 Interpretation SD 0.7479544 Indicators Mean Interpretation SD 1 Implementation of the towel and linen reuse program in 3.0909 Great extent 1.0574 guestrooms Utilization of minimal water usage for the laundry 2 machines 3 Utilization of rain water for reuse 2.9091 Great extent 0.9665

Table 8 Frequency, Percentage and Mean Distribution of Participants' Extent of Participation towards Green Practices (Water and Liquid Waste Management)

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		<u> </u>	<u></u>	
4	The use of native plants for landscaping to minimize water consumption	2.6023	Great extent	0.9534
5	Installation of "low-flow" (controlled flow) indoor plumbing fixtures in bathrooms (toilets and showerheads) and kitchens (sinks) to reduce water use	2.7614	Great extent	1.0504
6	Provision for recycling of waste water	2.7045	Great extent	1.0522
7	Provision of "Save Water" signs in kitchen and back office areas for awareness	3.1023	Great extent	0.9351
8	Installation of grease trap system in the kitchen, restaurant and grease contaminated area	3.125	Great extent	0.8816
9	Provision of waste water treatment system suitable for the size and activities of the hotel	2.9432	Great extent	1.0652
10	Implementation of the maintenance plan of sanitary ware / water saving equipment, including the checking of leak water area	2.875	Great extent	1.0808
11	Conduct of annual cleaning of potable water tanks and monthly testing of water quality to prevent water contamination and reduction of waste water generation through automatic sensor faucets, automatic sensor flush	3.0682	Great extent	1.0699

Table 8 shows the results of the frequency, percentage and mean distribution of the participants' extent of participation towards green practices on water and liquid waste management. Of the 88 participants 22 or 25% rated as very great extent, 43 or 48.86% rated as great extent, 21 or 23.86% rated some extent and 2 or 2.27 was rated no extent. The overall mean of 2.918 is interpreted as great extent. Of the indicators no.7 got the highest mean rating of 3.1023 which is interpreted as great extent indicating the provision of "save water" signs in kitchen and back office areas for awareness. Implying that important signage are being strategically located in the hotel. The lowest mean rating among the indicators is item no.4 indicating the use of native plants for landscaping to minimize water consumption. This is in consonance with the result in Table 2 on the extent of awareness on water and liquid waste management where it also got the lowest rating. This would imply that the extent of awareness could be a motivating factor to influence the behavior of the participant.

	Participati	on towards Green Practices (Air (Juality Man	agement)	
	Range	Interpretation	Frequency	%	
	3.51-4.00	Very Great Extent	26	29.54545	
	2.51-3.50	Great Extent	38	43.18	182
	1.51-2.50	Some Extent	11	12.	5
	1.00-1.50	No Extent	13	14.77273	
		Total	88	10	0
	Overall Mean			2.922727	
	In	terpretation			
		SD		0.859661	
		Indicators	Mean	Interpretation	SD
1	Implementation property for indo	of No-Smoking policy throughout th or air quality	e 3.0568	Great extent	1.0971
2	Placement of gree	en live plants on property for the quality o	f 2.8864	Great extent	1.0767

Table 9 Frequency, Percentage and Mean Distribution of Participants' Extent of Participation towards Green Practices (Air Quality Management)

indoor air

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3	Keeping of relative humidity at certain level to prevent the growth of mold (e.g. 35-60% in FL)	2.6818	Great extent	1.0564
4	Establishment of measures to reduce carbon emissions from air conditioning units, exhaust fans, refrigerators, cooking equipment and the like	2.8523	Great extent	1.0343
5	The use of low-emitting carpets and adhesives to minimize harmful toxins in its indoor air	2.9886	Great extent	0.9884
6	The use of biodegradable cleaning products	2.9205	Great extent	1.1469
7	Installation of air purifiers in guest rooms, banquet halls and restaurants to ensure guests and staff are exposed to clean air	2.8864	Great extent	1.0331
8	Provision of building design that allows passage of natural air and ventilation	2.9545	Great extent	0.9815
9	Regular monitoring and maintenance of equipment and hotel facilities such as: generators and air conditioning systems, to ensure air quality	3.0455	Great extent	1.1132
10	Conduct of daily dusting and vacuuming of all soft furnishings	2.9545	Great extent	1.0818

Table 9 shows the frequency, percentage and mean distribution of participants' extent of participation towards Green Practices on Air Quality Management. The overall mean is 2.922727 rated as great extent.Of the indicators, the highest mean rating is item no.1 with a mean of 3.0568 indicating the implementation of no-smoking policy throughout the property for indoor air quality. Implying the strict implementation of the laws governed by the country on the no smoking policy.The lowest mean rating is 2.6818 indicating that keeping of relative humidity at certain level to prevent growth mold is not that extensively practiced.

Table 10 Frequency, Percentage and Mean Distribution of Participants' Extent of Participation towards Green Practices (Solid Waste Disposal and Management)

		Management)			
	Range	Interpretation	Frequency	%	
	3.51-4.00	Very Great Extent	27	30.68	2
	2.51-3.50	Great Extent	41	46.59	1
	1.51-2.50	Some Extent	8	9.090	9
	1.00-1.50	No Extent	12	13.63	6
		Total	88	100	
	(Overall Mean		2.9197861	
]	Interpretation SD		1.0653434	
		Indicators	Mean	Interpretation	SD
1	U	ent for the involvement of hotel staff in waste reuse, recycling, waste segregation and program		Great extent	1.04
2	Communicat activities to e	ion through public announcement or in-house encourage hotel guests in the reuse, recycling gregation program		Great extent	0.92
3		of toiletries such as: soaps, shampoos and toilet papers, if not reused	, 2.85	Great extent	1.01
4		of wastes before they are recycled	2.99	Great extent	1.07
5	00	adequate recycle bins for waste recycling	2.94	Great extent	1.09
6		of reusable cloth napkins, glass cups, and	1 2.84	Great extent	1.07

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	ceramic dishes, rather than disposable ones	-					
7	Recycling of solid waste materials like aluminum cans, card boards, plastics, paper, metals and glass bottles	2.91	Great extent	1.10			
8	Implementation of paperless policy including use of electronic software or system such as: Ecopy, email, etc.	2.84	Great extent	1.04			
9	The use of eco-friendly alternatives to packaging	2.69	Great extent	1.04			
10	Training of staff in the principles of food safety and						
	hygiene hand such as:						
10.1	Hand washing	3.01	Great extent	1.08			
10.2	Correct food storage	3.03	Great extent	1.11			
10.3	Food handling	2.94	Great extent	1.04			
10.4	Service of food items	2.97	Great extent	1.11			
11	Implementation of the following to reduce food waste:						
11.1	Proper food storage	3.03	Great extent	1.10			
11.2	Food handling	2.92	Great extent	1.13			
11.3	Service of food	2.97	Great extent	1.09			
12	Implementation of ecologically-based pest control practices to identify and eliminate pests	2.91	Great extent	1.08			

Table 10 represents the frequency, percentage and mean distribution of participants' extent of participation towards green practices on solid waste disposal and management. Based on the table the overall mean is 2.9197861 which is interpreted as great extent. Among the indicators, item no.10.2 and 11.1 got the highest mean rating of 3.03 which is rated as great extent. It states that the training of staff such as correct food storage and proper food storage is being participated to a great extent. The result of this table is in consonance with the extent of awareness where the proper food storage has the highest mean rating. Again this reinforces the Theory of Planned Behaviour of Azjen (1985) whereby intentions are assumed to capture motivational factors that influences the behaviour, in this case the extent of awareness on the implementation of proper food storage is manifested on the extent of participation. However, the lowest mean rating is 2.69 indicating that the use of eco-friendly alternative to packaging is not extensively participated since according to the study of Z. Yusof (2013) the use of such materials are expensive.

3.51-4.00 Very Great Extent 2.51-3.50 Great Extent 1.51-2.50 Some Extent 1.00-1.50 No Extent Total Overall Mean	17 43 14 14 88	19.3181 48.8636 15.9090 15.9090 100	64 09
1.51-2.50 Some Extent 1.00-1.50 No Extent Total Overall Mean	14 14	15.9090 15.9090	09
1.00-1.50 No Extent Total Overall Mean	14	15.9090	
Total Overall Mean			09
Overall Mean	88	100	
		100	
		2.7364	
Interpretation			
SD		1.0572	
Indicators The use of plants and equipment with quieter mo	Mean	Interpretation Great extent	SD

Table 11 Frequency, Percentage and Mean Distribution of Participants' Extent
of Participation towards Green Practices (Noise Pollution Control)

	Indicators	Mean	Interpretation	SD
1	The use of plants and equipment with quieter motors	2.74	Great extent	1.03
2	Installation of sound absorbing barriers underneath bath taps	2.66	Great extent	0.98
3	Replacement of toilet flush valve with quiet flush tanks	2.65	Great extent	1.05

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_	Published by European Centre for Research Training and Development UK							
4	The use of windows with good insulation	2.69	Great extent	1.07				
5	Insulation and sound proofing of public areas with music entertainment using acoustic walls, ceiling, and carpets	2.67	Great extent	1.07				
6	Installation of sound limiters in the music amplification system	2.67	Great extent	1.10				
7	Installation of gaskets, drop seals and automatic door closers on entrance doors to guest rooms and conference rooms	2.69	Great extent	1.03				
8	The use of phones other than alarm clocks to wake up guests	2.82	Great extent	1.10				
9	The set up of maximum sound levels for telephones, TVs, and music systems in guest rooms	2.83	Great extent	1.04				
10	The set up of maximum sound levels for music systems and TVs in public areas	2.94	Great extent	1.10				

Table 11 represents the Frequency, Percentage and Mean Distribution of Participants' Extent of Participation towards Green Practices on Noise Pollution Control.The overall mean rating is 2.7364 which means that the extent of participation towards noise control pollution is great extent.Among the indicators, item no.10 got the highest mean rating of 2.94 stating that the setting up of maximum sound levels for music systems and t.v. in public areas is applied to a great extent.However, the lowest mean rating is 2.65 indicating that the replacement of toilet flush valve with quiet flush tanks is not extensively participated.

Table 12 Summary Table of Participants' Extent of Participation on the GreenPractices in the Hospitality Industry

	Mean	Interpretation	SD
Water and Liquid Waste Management	2.92	Great extent	0.75
"Green" Energy Consumption	2.86	Great extent	0.84
Air Quality Management	2.92	Great extent	0.86
Solid Waste Disposal and Management	2.92	Great extent	1.07
Noise Pollution Control	2.74	Great extent	1.06

Table 12 shows the result on the summary of the participants' extent of participation on the green practices. Among the variables, water and liquid and waste management,air quality management,and solid waste disposal and management got the highest mean of 2.92. On the other hand noise pollution control got the lowest mean rating of 2.74. The result of the study contradicts the study conducted by Z.Yusof and M. Jamaludin (2013) on the "green approaches of Malaysian Hotels" indicating that among the green practices, it is the sustainable air quality which has the least participation among hotels because of the impact on operational costs.

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Published by European Centre for Research Training and Development UK Table 13 Result of the Test of Relationship between the Participants' Awareness and their Extent of Participation of the Green Practices in Hospitality Industry

		Extent of Participation						
Awareness	Measures	Green Energy Consumptio n	Water and Liquid Waste Management	Air Quality Managem ent	Solid Waste Disposal and Manageme nt	Noise Pollutio n Control		
Green Energy	Correlation Coefficient	.771**	.576**	.524**	.472**	.491**		
Consumptio n	Sig. (2-tailed)	.000	.000	.000	.000	.000		
Water and Liquid	Correlation Coefficient	.598**	.726**	.524**	.549**	.505**		
Waste Management	Sig. (2-tailed)	.000	.000	.000	.000	.000		
Air Quality Management	Correlation Coefficient	.737**	.655**	.787**	.672**	.553**		
	Sig. (2-tailed)	.000	.000	.000	.000	.000		
Solid Waste Disposal and	Correlation Coefficient	.515**	.484**	.507**	.692**	.489**		
Management	Sig. (2-tailed)	.000	.000	.000	.000	.000		
Noise Pollution	Correlation Coefficient	.461**	.430**	.370**	.474**	.640**		
Control	Sig. (2-tailed)	.000	.000	.000	.000	.000		

Table 13 represents the result of the Test of Relationship between the Participants' Awareness and their Extent of Participation of the Green Practices in Hospitality Industry. The test shows that awareness of the green practices is significantly associated with the extent of practice. In this case the null hypotheses is rejected since the extent of awareness with the variables of green practices on green energy consumption, water and liquid waste management, air quality management, solid waste disposal and management and noise pollution control management are significantly associated with the extent of participation. This would imply that the human behaviour is essential in sustaining the participation on the green practices thus, awareness is highly important for the participants to practice. The data therefore, strengthens the theory of Planned behaviour to which this study is anchored to and massive educational campaign awareness must be conducted to sustain the green practices.

DISCUSSION

This current study found that the hotel industry management and staff are much aware of the green practices on water and liquid waste, green energy consumption, air quality management, solid waste disposal and noise pollution control. However, the lowest mean in the rating is the noise pollution control indicating that the participant's awareness is limited in terms of noise pollution control. Of all the variables, air quality management was rated highest which means that the hospitality industry in Published by European Centre for Research Training and Development UK Cagayan de Oro City is very much conscious on the implementation of the Executive Order no. 26 on the smoke -free environment. This reinforces the study of Rahman (2012) stating that legitimization or compliance with the environmental regulation is one of the reasons that forces the lodging industry to exercise green practices in their operation.

Furthermore, the hotel industry management and staff's extent of participation on the green practices was rated great extent. Among the variables, water and liquid and waste management, air quality management, and solid waste disposal and management got the highest mean. On the other hand noise pollution control got the lowest mean rating. This would reinforce the theory of Azjen (2006) on planned behaviour whereby the extent of awareness are assumed to engage the extent of participation. In this case, noise pollution control has the lowest mean rating in the extent of awareness and extent of participation.

In terms of the extent of awareness on green practices and extent of participation, the study found that they are significantly associated with reinforcing once again the theory of planned behavior of Azjen (2006) whereby it stated that the stronger the intention to engage in behaviour, the more likely they perform. Thus, there is an interplay of the different variables in the study as shown in Figure 1.

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Figure 2- Interplay of Variables in the Study

Moreover, the distinctness of green practices in the hospitality industry vary and are associated with different approaches. As cited by Myung (2012) green practices are designed to minimize the impact on the environment by applying environmentally preferred practices to reduce waste and to use sustainable resources and supplies. Green practices are actions that reduce the impact on the environment like eco-purchasing and recycling as postulated by Wolfe (2001).

Rohman, *et al.* (2012) stressed that green practices by hotels are doing business in a way that reduces waste, conserve energy and generally promote environmental health. Another reason for green practices according to I. Rohman (2012) may be competitiveness in terms of going green can improve profitability by lowering of

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Published by European Centre for Research Training and Development UK expenses and another reason may be legitimization which means complying with the environmental regulation mandated by the government.

A study on sustainable tourism practices in the hospitality sector made by J. Eggeling (2010) mentioned that according to Edrogon and Boris (2007) the hotel industry is a key element in the tourism industry and have a crucial position in protecting and preserving the environment because hotels consumed a large amount of water, energy and other sources.

A study made by K.Sun Hwa, et.al. On the "Review of Green Research in the Hospitality" (2014) have stated that the implementation of green practices in the hospitality industry may also vary based on the internal organizational functions, financial structure, managerial attitudes and other external variables such as stakeholders pressures and environmental regulations. It was further stated that green practices is a comprehensive term covering issues such as environmental impact which may include aesthetic, cultural, ecological and social.Other issues also include sustainability, resources, management and pollution.

A study by J. Rathore and D. Gawankor (2009) on exploring sustainability in the hotel industry stated that transforming a property green is not an easy task since it involves a lot of teamwork, skills and dedication. It also needs a lot of initial investments by the hotel group. It further stated that while the hotel chains have a basic idea about green practices, they need a specific guidelines to go green in an comprehensible manner.

Therefore, a question on the extent of awareness towards green practices and the extent of participation among hotels has emerged.

Thus, green practices will help in preserving the environment and will help reduce costs in the natural environment, society and economy. Becoming green is a multidimensional process; there are various practices that can be applied when business wants to shift to a green behaviour. The hospitality industry should participate at least in one of "4Rs" – reduction, reuse, recycling, and recovery (Kassaye, 2001). Each of those "Rs" can be achieved through several practices, some of which might serve the purpose of more that one "R". "R" as reduction has a twofold meaning: as a reduction of resource consumption and a reduction of waste.

The greening of the hospitality industry begins because of the many benefits such as the financial benefits, the consciousness on the sustainability of the environment and the changing attitudes of tourist towards sustainable tourism. The researchers believes that in general, what the hospitality industry needs specially in CDO is the awareness of the importance of green practices as well as the strengthening of the practice of green tourism. However, before progress can be initiated, the current status of the hotel industry of CDO needs to be identified and evaluated, which in this case it already has been identified using specific indicators of green practices. According to J. Rathore and D. Gawankor (2009) making a property green is not an easy undertaking website. <u>https://bjmas.org/index.php/bjmas/index</u>

Published by European Centre for Research Training and Development UK and it involves a lot of teamwork, skills, dedication and initial investments by the hotel group. He further stressed that although hotel chains have a basic idea about green practices, they need a specific guidelines to go green in an approachable manner.

The result of the study has pointed out that there is a need for an environmentally appropriate programs that will direct the hotel industry to a green hotel standard guidelines. The program is designed to guide the hotel industry on the application of greening of hotels in the city. This would also help other tourism sectors in the assessment and certification of Green Hotel Standard. The objective of the program is to help the hotel industry of CDO integrate the green practices as a component of their daily operations. It would also help in identifying significant and priority measures for hotels to enable them to implement and ensure sustainability in the environment. To ensure the total implementation of the program as based on the findings.

Findings and Areas of Concern:	Specific Objectives:	Strategy/Indica tion of Practices	Responsibility Center/Docume ntation	Time Frame:	Budget:
1.The extent of awareness towards green practices is only "much aware"	To strengthen awareness on green practices on green energy consumption, water and liquid waste management, air quality management and solid waste disposal and management.	Training and promotion of environmental activities in order to encourage involvement of hotel staff, guests,suppliers to participate in the environmental management practices.	Department heads and list of activities may be documented.	6-12 months	Depending on the appropriate materials to be used.
2. The extent of participation on the green practices in the hospitality industry is rated "great extent"	To formulate an environmental plan on green practices to serve as a guide to hotel personnel.	Create an awareness among personnel on the green practices at the same time monitoring program will be implemented	Department heads and monitoring checklist.	May be done once a month.	Depending on the appropriate materials to be used.
3.The use of green products such as use of	To encourage the use of environmentally	There should be a formulation of the purchasing	Department heads and owners	6-12 months for the installation of all green	Depending on the appropriate materials to be

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				-	
automatic sensor	friendly products	policy in the		products.	used.
lighting,use of	and the use of	hotel industry			
native plants, use	local products.	pursuing the			
of environmental		green			
thermometer to		procurement			
monitor		criteria.			
humidity, the					
use of					
eco-friendly					
packaging and					
the use of quiet					
flush tanks.					
4.Collaboration	To collaborate	The introducing	Hotel Industry	1 to 2 years	Depending on
with the tourist	with the local	of	management and		the appropriate
and hotel guests	tourism	Environmental	staff and the		materials to be
and local	organization on	Protection	Department of		used.
tourism	their existing	Awareness	Tourism		
organizations	green practices	program and	officers.		
-	program and to	implementation			
	collaborate with	of activities.			
	hotel guests to				
	help in the				
	protection of the				
	environment.				
5.Human	. To provide	The provision of	Human	Once a month	Budget for
Resource	training	training	Resource		training
program	programs for the	programs for	Department/		materials
	hotel staff and	management and	Heads		
	management on	hotel staff on			
	the green	green			
	practices.	practices(sustain			
	·	able)			
		environment			
	I		1	1	

Recommendation:

On the basis of the findings and conclusions drawn from the study, it is recommended that the hotel industry, particularly in CDO, shall embark a more aggressive green practices to help in the sustainability of the environment as part of the social responsibility, the hotel industry should consider the implementation of green practices since a lot of benefits will result such as cost saving on the part of the establishment, the hotel and tourism industry considers the implementation of the proposed environmental program formulated as a result of the study, there should be a collaboration on the policy for green practices between the hotel industry and the accrediting organization like the Department of Tourism for better quality of life improvement, this study can also be replicated by other researchers applying this to hospital industries, food manufacturing industries, and even in schools. And future researches may be undertaken and that focused on the socio-economic impact of green practices may be emphasized and studied and "Green Practices" may be integrated in the curriculum of the hospitality management and tourism student

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