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11		Ishmae	el Mensah	
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19	Abstract			
21	of hotels in the Greate	er Accra Region (O	management practices am GAR) of Ghana. Existin	g literature on hotels'
23	Using the stratified san	npling method, a s	ded the theoretical under ample of 52 hotel mana stionnaires on the study. A	agers from the various
25	using the chi-square met	hod supported the f	act that larger hotels (Th vironmental management	ree to five star) were at
27	hotels with environmenta healthy environments.	al policies, such polic	cies were geared towards a	chieving safe, clean and
29	© 2005 Published by El	sevier Ltd.		
31	Keywords: Hotel; Environm	nent, Environmental m	anagement; Recycling; Eco-	riendly practices
33				
25	1. Introduction			
35	Tourism is one of t	he activities that c	lepend heavily on the e	environment. Pristine
37	beaches, warm clima	tes, clean air, dr	amatic landscapes am	ong others promote
39	which it depends, if n	ot properly manag	tial of destroying the ged, a classic case of "1	killing the goose that
41	lays the golden egg.	in the words of P	Pigram (1995, p. 19) "T	ourisin can certainly
43	<i>E-mail address:</i> aprakof	@yahoo.com.		
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- contribute to environmental degradation and be self-destructive. It also has the 1 potential to bring about significant enhancement of the environment".
- 3 Evidence available suggests that tourists are becoming increasingly concerned about the environment of destinations they intend to visit. For instance, the Conde
- 5 Nast Travellers' magazine conducted a readers' poll in September 1996, which revealed that 95% of travelers are concerned with the environmental conditions of 7 their destinations (Moffitt and Engeldrum, 1997). This has led to calls from
- governments, local residents, Non-governmental Organizations (NGOs), consumers 9 and the tourism industry for more sustainable tourism practices. Hotels also occupy
- a central place in the tourism industry worldwide, accounting for 31% of tourist
- 11 expenditure in 1998 (WTTC, 2000). Also, as the more tangible manifestation of tourism development, their impact on the environment cannot be underestimated. It
- 13 is therefore heartwarming that they are responding to these calls and concerns, culminating in initiatives such as the International Hotels Environment Initiative
- 15 (IHEI), an alliance between 11 international hotel chains, who in 1993 accepted a manual spelling out a comprehensive campaign to advance environmental 17
 - performance in the hotel industry.

Within the hotel sector, the areas of concern for the environment include recycling 19 of waste, waste management, clean air, energy and water conservation, environ-

- mental health, maintenance of permits such as building permits and compliance with 21 legislation, purchasing policy and environmental education. Ghana's nascent and
- growing tourism industry has experienced a steady growth in hotels but it is not 23 exactly known how these hotels are embracing the concept of environmental management, within the context of sustainable tourism development.
- 25 There is the need for background information on environmental practices in Ghana's hotel industry which will serve as a basis for fashioning out an
- 27 environmental management program for the sector. Such information will also help hotel managers, the government and the Ghana Tourist Board to adopt and initiate
- 29 appropriate environmental management programs aimed at safeguarding the environment and thereby making the hotels more internationally competitive. This 31 will also augment the national efforts at safeguarding the environment.
- It is in this light that this work seeks to find out the environmental management 33 practices among the hotels in the Greater Accra Region (GAR), which has the
- greatest concentration of all the various categories of hotels in Ghana to permit a
- 35 fair analysis. Also, the results of this study can be used to draw inferences on hotels in other regions of the country. The objective of this study is to determine the
- 37 environmental management policies and practices of hotels in the GAR. The study also seeks to compare the level of adoption and implementation of environmental 39 management practices among different categories of hotels in the region.
- 41

2. Ghana's hotel industry and the environment

43

Ghana is located along West Africa's Golf of Guinea, close to the Equator and is bordered by Togo, Cote D'Ivoire and Burkina Fasso. It has a population of 45

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- 1 18,912,079 over a land area of 238,000 square kilometers (Ghana Statistical Service, 2002). Tourism constitutes Ghana's third major export commodity after minerals
- 3 and cocoa. Visitor arrivals moved from 145,750 in 1990 to 399,000 in 2000. During the same period, revenues from international arrivals increased from \$81 million to
- 5 \$386 million (Ghana Tourist Board (GTB), 2000). Among the tourism resources that make Ghana attractive are a rich and diverse cultural heritage, pristine beaches,
- 7 colonial slave castles, attractive tropical weather, a friendly and sociable people as well as wildlife and vegetation.
- 9 The hotel sector in Ghana has also experienced a rapid growth in the 1990s in response to tourism growth and also with the advent of the Economic Recovery
- 11 Program and the Structural Adjustment Program (ERP/SAP) in 1986 by the erstwhile Provisional National Defense Council (PNDC) government. The number
- 13 of licensed hotels has risen from 350 in 1990 to 1169 in 2002 as shown on Table 1. However, the distribution of hotels among the regions has not been even. From
- 15 Table 2, about 20% of the rooms were located in the Ashanti Region and 12% in the Western Region. The GAR has the largest number of hotels, approximately 34% of
- 17 all rooms, including all the four- and five-star hotels in 2001 (Ghana Tourist Board (GTB), 2002). The growth of hotels has not been without effects on the environment.
- 19 The Daily Graphic of 18th February, 1998 reported of the Golden Tulip Hotel discharging sewerage into a drain in front of the Alliance Française building. Some
- 21 hotels have also been built on waterways, causing flooding to outlying communities. Also, floods in Accra washed away part of Secaps Hotel at the Tetteh Quarshie
- 23 roundabout in 2001, because it was located on a waterway (Accra Mail, 17th October 2001).
- There have also been increasing concerns about the environmental problems posed by these hotels as noted in the 1996 Tourism Development Plan for the GAR,
- 27 that sewage and solid waste disposal is a problem in some hotels. The plan recognized that there could be pollution of rivers, lakes and coastal water from
- 29 sewerage outfall lines, and of ground water by seepage of waste materials from improper development of sewerage and solid waste disposal systems in hotels and
- 31 other facilities.
- 33
- 35 Table 1

N	lumber	of	hotel	rooms	and	beds,	1990-2002	
---	--------	----	-------	-------	-----	-------	-----------	--

7	Year	Number of hotels	Number of rooms	Number of beds
0	1990	350	5682	8576
9	1993	587	8578	12112
	1996	703	10391	13791
1	1998	730	10879	14289
	2000	992	13641	17558
3	2001	1053	15453	19648
5	2002	1169	16180	21442

45 Source: Ghana Tourist Board (GTB), 2002.

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1	Table 2
	Distribution of hotel rooms in Ghana by regions 1995-2001

3	Region	Year									
5		1995	1996	1997	1998	1999	2000	2001			
_	Greater Accra	3231	3928	4752	5125	4317	5874	5211			
5 7 Greater 7 Ashanti Eastern 9 Western Central 11 Brong A Volta Norther 13 Upper I Upper V	Ashanti	1506	2037	2207	1867	2004	2264	2214			
	Eastern	726	732	744	536	688	666	1029			
,	Western	970	1177	1006	936	731	1007	1576			
	Central	618	679	513	726	821	1108	1458			
11	Brong Ahafo	597	810	584	405	907	1057	1179			
11	Volta	401	550	567	669	685	799	784			
	Northern	212	213	254	283	393	434	485			
13	Upper East	136	151	133	155	141	188	226			
	Upper West	121	114	161	177	209	244	291			
15	Total	8518	10391	10921	10879	10896	13641	15453			

Source: Ghana Tourist Board (GTB), 2002.

17

The pressures on hotels in the GAR to adopt sound environmental management 19 practices come essentially from government via its institutions like the Environmental Protection Agency (EPA), GTB and Accra Metropolitan Assembly (AMA). 21 This is unlike in the developed world where consumers and NGOs are at the forefront. EIA is mandatory for hotels with more than 40 rooms, before they 23 commence business. As part of the requirements for the issuance of license by the GTB, hotels are supposed to submit environmental permits from the EPA. The EPA 25 provides the environmental permit only after the hotel has submitted an EIA to them. According to the Quality Assurance Department of the GTB, since it is a 27 prerequisite for the issuance of licenses, for those hotels which are required to, comply with this regulation. However, the environmental management expected of 29 these hotels tends to end after they have been issued with environmental permits by the EPA and licenses by the GTB. To address the problem of abuse of the 31 environment by hotels in the GAR, there is the need to first, know if the hotels have environmental policies and are engaged in some form of environmental management 33 practices.

35

37 3. Literature review

Worcester (1994) reports that environmental management, which emerged in the 1980s, is a new and vital aspect of management, which will be adopted by an
increasing number of firms by the 1990s. EPA of Ghana defines Environmental Management as "the process by which the collection of policies, structures,
resources, systems and processes are brought to interplay for the achievement of clearly defined environmental policy directives" (EPA Newsletter, 1997). Some writers have defined environmental management from the standpoint of Environmental for the standpoint of Environmental management from the standpoint of Environmental for the

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- 1 mental Management Systems (EMS) (Middleton and Hawkins, 1998; Faulk, 2000). Middleton and Hawkins (1998) describes EMS as relating to the conduct of existing
- 3 day-to-day business operations and is a useful label for the range of programs undertaken by a public or private sector organization to protect, enhance or reduce
- 5 its impact on the environment. It is a corporate approach usually based on auditing procedures, which involves setting objectives, measurable targets; a detailed program
- 7 and a monitoring and evaluation process (Hunter and Green, 1995). For the purpose of this study, environmental management is defined as a continuous process adopted
- 9 through management decisions, by which a hotel's activities are monitored and appropriate programs and activities devised to reduce the negative environmental
- 11 impacts.

Environmental Management in hotels started in the form of initiatives by various associations and activities which begun when the Prince of Wales launched the IHEI

- in 1993. In 1994, 16 hotel groups in the Asia Pacific Rim also formed the first
 Regional Chapter—the Asia Pacific Hotels Environment Initiative (Chan and Lam, 2001). In the same year, the Hotel and Catering Institute Management Association
- 17 participated in Green Globe, an environmental management awareness program initiated by the WTTC. Also in 1997, the Caribbean Alliance for Sustainable
- 19 Tourism (CAST) was born to undertake collaborative environmental activities and initiatives within the hotel and tourism sector (Hotel Online, 2002). Individual hotels
- 21 like Novotel, Ibis Homebush, Grecotel, Ramada Renaissance Hotel, Fairmont Hotels and Resorts among others are aggressively pursuing environmental
- 23 initiatives. In Hong Kong alone, a survey conducted in 1992 found that about 30% of hotels have launched environmental programs with varying degrees of
- 25 success (Barlett, 1992). Environmental management issues that have been of concern to the hotel industry have been recycling of waste, waste management, energy
- 27 savings, water conservation, compliance with legislation, purchasing policy and environmental education (Zhao and Merna, 1992; Forte, 1994; Kotler et al., 1999;
- 29 Middleton and Hawkins, 1998).

Waste management and energy savings have been critical concerns in environmental management in hotels. A survey carried out by the American Hotel and

- 31 mental management in hotels. A survey carried out by the American Hotel and Motel Association (AH&MA) revealed that Hotel managers rated reduction of
- 33 energy consumption as well as waste management through recycling to be their most important concerns (Stipanuk, 1996). For example, at Kingfisher Bay Resort and
- 35 Village (KBRV), in Queensland Australia, waste is separated, compacted and sent to the mainland (Faulk, 2000). The Statler Hotels has also installed a refuse chute that
- 37 deposits trash directly into a refuse room. The refuse is then separated and the paper balanced and sold (Stipanuk, 1996).
- 39 <u>Chan and Lam (2001)</u> on the other hand believe that the thrust of the green campaign in the hospitality sector focused mainly on energy savings as evidenced by
- 41 the number of hotels engaging in energy-saving measures which range from the use of compact fluorescent bulbs to shutting down unused appliances. The Saunders
- 43 Hotel for instance uses thermopane windows to reduce energy costs (<u>Patterson</u>, 1995). The Intercontinental Hotel also purchased a capacitor bank to reduce energy
- 45 consumption with a return of investment of 18 months (Faulk, 2000) and in the case

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- 1 of the KBRV, architectural design and use of fluorescent bulbs allow for minimal energy consumption (Faulk, 2000).
- Environmental Management has also been targeted at reducing wastage of water
 and improvement of water quality partly because the hotel industry is greatly
 affected in terms of water availability and quality and will face difficulty in
- alleviating over-consumption and to deal with cost of water and water conservation
 (Zhao and Merna, 1992). One of the Novotel and Hotel Ibis Homebush Bay in
 Sydney Australia reduced its portable water consumption by 50% through a dual-
- 9 piping system (Hotel Online, 2002). As a result of cost savings waste management and energy and water savings have become popular environmental management

11 practices (Hawkes and Williams, 1993; Forte, 1994; Hotel Online, 2002). In spite of the growing popularity of environmental management in hotels, only

- larger hotels have been found to be at the forefront of environmental management (Wahab and Pigram, 1997; Mauforth and Munt, 1998; Alvarez Gil and Cespedes
- 15 Lorente, 2001). Mauforth and Munt (1998), claim that this is due to the fact that small- and medium-scale accommodation companies do not have the capital
- 17 resources or internal arrangement structure to conduct environmental management. Facility age, chain affiliation and stakeholder environmental pressure have also been
- identified as impacting on hotels' environmental practices.
 According to Aragón Correa (1998) and Fineman and Clarke (1996), most of the
- 21 studies on corporate environmental management have been done on large firms due to the assumption that there is a direct relationship between size and environmental
- 23 management. Alvarez <u>Gil and Cespedes Lorente (2001)</u> are of the view that large firms are exposed to considerable environmental pressure from stakeholders because:
- 25 their environmental impact is more visible; it is easier to control centralized sources of pollution than dispersed units and large firms are regarded as industry leaders and
- 27 thus constitute models to imitate. Also, large firms have economies of scale in the reuse, recycling or valuation of waste (Andersen, 1997). Looking at the relationship
- 29 between environmental management and chain affiliation, Alvarez Gil and Cespedes Lorente (2001) are of the view that the functions carried out by hotel chains that
- 31 refer to transfer of knowledge are extremely important for environmental protectionrelated matters. Hotel chains take advantage of the successful practices of individual
- 33 units and distribute it among members of the chain (Darr et al., 1995). However, no such study has been conducted in Ghana, accounting for the paucity of data on
- 35 environmental management practices of hotels in the country. It is therefore hypothesized that there is no relationship between hotel category/class and adoption
- and implementation of environmental management practices by hotels in the GAR.
- 39
- 4. Analysis
- 41
- 4.1. Methods of data collection and analysis
- 43

Data for this study was collected from both primary and secondary sources. 45 Primary data was obtained by means of questionnaires. The data on environmental

7

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- 1 management practices was collected from a sample of hotel managers in the GAR. The target population comprised all hotel managers in the GAR as at February
- 3 2003. The GTB list of 486 licensed hotels in the GAR for 2002 served as the sampling frame.

5 The questionnaire for hotel managers was intended to elicit information on their environmental management practices. The four-page questionnaire was categorized 7 into three modules. Module A was on environmental management practices and questions on managers' perception of environmental management, including

- 9 environmental policy, and practices. Module B was on the nature of the hotel facility; including hotel classification, ownership type, services offered and staff
- 11 strength. Module C was on the socioeconomic characteristics of hotel managers, such as their age, sex, educational background and income.
- 13 A number of factors were considered in the selection of the sample. This included the number of hotels in each category, cost, time and resource availability. The
- 15 stratified random sampling method was used to select the hotel managers (n = 52)(Table 3). The criterion for the strata was the hotel classification system used by the
- 17 GTB (Fig. 1). As can be seen from Table 3, the strata were four/five-, three-, two-, one-star, guest-house and budget.
- 19 The fieldwork which started in February 2003 lasted one month. Personal calls were made to the randomly selected hotels between 9 a.m. and 5 p.m. each day. Some
- 21 of the hotel managers completed the questionnaires on their own while some were interviewed. Some hotel managers were not co-operative. Others accepted the
- 23 questionnaires but it took quite an effort to collect the completed questionnaires. This was not only time-consuming but also proved expensive in terms of transport
- 25 cost. Some managers also failed to complete the questionnaires, thus necessitating printing of extra questionnaires and random selection of extra managers from other
- 27 hotels in the same category to ensure the sample size of 52 managers was achieved. The chi-square test technique was used to establish if there was a difference in the
- 29 environmental management practices of the various categories of hotels percentages and frequencies were also used to compare the level of eco-friendly practices among
- 31 the hotels. The hypothesis was tested at p < 0.05. The data collected from the field was edited, coded and processed using the Statistical Package for the Social Sciences
- 33

37	Category/class	Total	Sample of hotel managers
39	4–5 Star	4	4
59	3 Star	10	8
	2 Star	59	10
41	1 Star	55	10
	Guest house	73	10
43	Budget	281	10
	Unclassed	4	
45	Total	486	52

35 Table 3 Sample of hotel managers

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8	I. Mensah / Hospitality Management I (IIII) III-III
	1) Category one (Budget/one star)
	i) Budget : Provides the barest minimum of furnishing with no facilities, amenities or guest services.
	ii) One star: Provides basic furnishing and very limited or no facilities, amenities and guest services (Hot and cold water in rooms, central heating etc.)
	2) Category two (Guest house/ two star)
	i) Guest house : Provides good furnishing, facilities, amenities and guest services like a two star rated hotel but has less than eleven rooms.
	ii) Two star : Provides more furnishing and some facilities, amenities and guest services (Breakfast/dining room, TV lounge etc.)
	3) Category three (three star- five star)
	 i) Three star: provides better quality furnishing and a more extensive range of facilities, amenities and guest services (private bath/shower, lounge area, bar, restaurant, staff assistance throughout the day etc.) ii) Four star: Provides superior quality furnishing and a complete range of
	facilities, amenities and guest services (all rooms with bath, direct dial telephone, radio and TV set, individual control heating and air conditioning, full room service, some shops and sports facilities etc.)
	 iii) Five star: Provides deluxe accommodation and marked superiority in the extent and quality of facilities, amenities and guest services (minibar in rooms, 24-hour laundry service, several bars, restaurants and lounges, health club, shopping arcade etc.)
	Fig. 1. GTB's classification of hotels. (Source: Ghana Tourist Board.)
ŀ	SPSS) PC version 8. For easy comparison, the hotels were categorized into three on the basis of similarities in facilities, amenities and services and based on the GTH assification.
	2. Characteristics of hotel categories
С	It is important to identify the characteristics of hotels since this affects their nvironmental management practices. A hotel's legal category and type of dominan purism among its clientele affects its environmental management practices (Alvare
Ē	<u>Sil and Cespedes Lorente, 2001</u>). Some differences emerged in the characteristics of the various categories of hotels Budget/one star, Guest house/two star and three- to five star) as depicted in Table 4 the number of rooms and workers of the hotels increased with an increase in the

45 class/category of the hotels. Most of the hotels were owned by local sole proprietors.

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1 Table 4 Characteristics of various categories of hotels

Characteristic	Detail			
		Budget/ 1 star	Guest house/ 2 star	3–5 star
Number of rooms	< 30	80.0	80.0	25.0
	30–59	15.0	10.0	41.7
	90-119		5.0	8.3
	120–149	5.0	5.0	8.3
	150 +			16.7
	Total	100.0	100.0	100.0
Number of workers	< 30	100.0	83.3	41.7
	30–59		5.5	25.0
	60-89		5.6	_
	150 +		5.6	33.3
	Total	100.0	100.0	100.0
Ownership	Local sole proprietor	85.0	50.0	50.0
-	Local partnership	5.0	25.0	_
	Local/foreign partnership	10.0	5.0	41.7
	Local limited liability	-	20.0	8.3
	company Total	100.0	100.0	100.0
Educational background of managers	Secondary	55.0	27.8	16.7
	Post sec.	10.0	16.7	8.3
	Technical/ Vocational	10.0	11.1	8.3
	Polytechnic	20.0	38.9	8.3
	University	5.0	5.6	58.3
	Total	100.0	100.0	100.0
Regular customers	Foreign holidaymakers	10.0	25.0	66.7
	Foreign businessmen	10.0	45.0	75.0
	Local holidaymakers	80.0	40.0	—
	Local businessmen	60.0	35.0	33.3
	Foreign students	15.0	10.0	16.7
	Corporate bodies	_	15.0	16.7
	Total	*175.0	*170.0	*208.4
Promotion media	Brochures/leaflets/fliers	50.0	57.9	100.0
	Radio/TV	5.0	21.1	66.7
	Magazine/newspaper	10.0	15.8	58.3
	Direct mail	25.0	21.1	33.3
	Internet	5.0	26.3	83.3
	Tourist Information Centre	10.0	36.8	41.7
	Personal Contact	65.0	68.4	50.0
	Travel Agency	15.0	21.1	58.3
	Total	*185.0	*268.5	*491.6

45

*Percentage adds up to more than 100 due to multiple responses.

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1 This applied mostly to the Budget/ one star hotel (85%). Also, half of both the Guest house/two star and three-five star category hotels were owned by local sole

3 proprietors. However, a sizeable number of the three-five star hotels (41.7%) were in local/foreign partnerships. Also, the educational qualifications of the managers were 5 somehow related to the category in which a hotel falls. More than half of the

managers of the Budget/one-star hotels (55%) had secondary education while 58.3% 7 of the managers of the three-five star hotels had university education.

The most regular customers of the hotels in the Budget/one star category (80%) 9 were local holidaymakers with 60% being local businessmen. For hotels in the guest house/two-star category, they were foreign businessmen (45%) and local holiday-11 makers (40%). The three-five star hotels had their regular customers being

foreigners; foreign businessmen (75%) and foreign holidaymakers (66.7%). It 13 means that the lower grade hotels are usually patronized by local individuals while the upscale hotels are patronized by foreigners.

- 15
- 17

5. Discussion of findings

19

In terms of environmental policies, 58% of the hotels had environmental policies. 21 Most of the hotels (34.5%) had environmental policies aimed at achieving a safe and healthy environment as shown on Fig. 2. Also, 24.14% of the environmental policies 23 were aimed at providing quality service in a clean environment, while 13.79% of the

hotels with environmental policies aimed at ensuring a clean environment/sanitation. This means that environmental health and sanitation is of paramount concern to

25 the hotels. This is because the topmost three aims were all related to sanitation and 27 healthy surroundings. Most of the hotels maintained high standards of sanitation.

The rooms had Waste baskets that were emptied daily. With the exception of a few 29

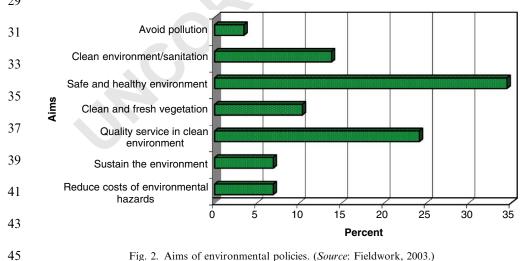


Fig. 2. Aims of environmental policies. (Source: Fieldwork, 2003.)

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- 1 of the budget hotels, all the hotels had underground drains. The floors and walls of the hotels were cleaned regularly with disinfectants and detergents. It appeared the
- surroundings of the hotels; especially the frontages were of more concern to the hotel managers. Most of the hotels (especially the guest houses and Star-rated hotels) had
 enhanced their outer surroundings with flowers and other plants that were watered
- regularly to keep them green and fresh.

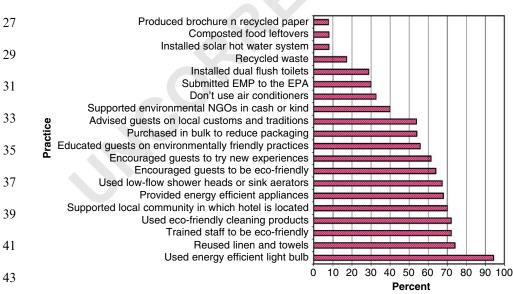
7 To most of the hotel managers, environmental management meant keeping their surroundings green and attractive with flowers and other ornamental plants. This is

- 9 a very narrow view of environmental management as environmental management should be a process which should involve the collection of policies, structures,
- 11 resources and systems for specific actions. Sanitation and planting of flowers are just some of the actions. Most of the hotels which did not have written or verbal 13 environmental policies attributed that to the fact that their hotels did not need
 - environmental policies (22.72%) or that the hotels were small (18.18%).
- From Fig. 3, the most popular eco-friendly practices were; use of energy-efficient light bulb (94.2%), reuse of linen and towels by guests (74%), training of staff to be
- 17 eco-friendly (72%), use of eco-friendly cleaning products (72%) and support for local community (70%). Every hotel aims at cutting down its overhead costs in order

19 to remain profitable and competitive. The use of energy-efficient light bulbs and reuse of linen and towels by guests, the two most popular eco-friendly practices are

21 cost-saving measures and that accounts for a greater number of the hotels adopting these measures. Use of energy-efficient light bulbs is an energy conservation measure

- 23 which means a reduction in the amount of electricity bills to be paid by the hotels. Also, when guests accept to use linen and towels continually during their stay so that
- 25



45 Fig. 3. Percentage of hotels involved in environmental management practices. (Source: Fieldwork, 2003.)

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- 1 it is not changed daily, it leads to water and energy-conservation and ultimately, lower water and electricity bills.
- 3 Energy cost savings as a result of using energy efficient bulbs and appliances and not changing linen and towels daily are two ways of saving costs in a hotel. However,
- 5 not using air conditioners, which is also a deliberate energy cost saving measure, is not popular especially among the star-rated hotels. About one-thirds of the hotels 7
 - (32.7%) do not use air conditioners.
- They did not use air conditioners because they had not installed them and not 9 because they wanted to conserve energy but because they did not have them. With the star rated hotels, they deliberately shut down their air conditioners sometimes, in
- 11 order to conserve energy and to avoid paying exorbitant electricity bills. However, the air conditioners at the receptions of most of the star-rated hotels were on during
- 13 the period of the study. The reasons given for that, related to competitiveness and the comfort of guests.
- 15 The use of alternative energy sources was prevalent in the hotels to an extent. Most of the hotels visited, used Liquefied Petroleum Gas (LPG) for cooking because
- 17 it was relatively cheaper to use LPG gas for cooking. The use of solar energy was not popular. Only 8% of the hotels had installed solar hot water heating systems. This is
- 19 because solar panels are very expensive and the hotels do not see that as a viable investment in the short to medium term.
- 21 Another area of environmental management that was popular among the hotels was water conservation. About two-thirds of the hotels (67.3%) used low-flow
- 23 shower heads and sink aerators. This is because water conservation is also a cost saving measure. However, the use of dual flush toilets, which is also a method of
- 25 water conservation, was not popular. Only 28.8% of the hotels practiced this and this was due to the fact that the technology was less known in Ghana.
- 27 Most of the hotels (70%) supported the local communities in which they were located. The support was in the form of infrastructural development, sponsorship of
- 29 local events and donations. Some hotels had constructed roads, embarked on forestation programs and provided cash and logistical support for local festivals and
- 31 other events. However, in terms of support for local NGOs, less than half of the hotels had supported them in cash or kind.

33 The areas of environmental practice where the hotels were less eco-friendly were recycling of waste, use of solar energy and composting of food leftovers. On the

- 35 whole, the majority of the hotels in the GAR did not recycle their waste. Only 17.3% of them recycled their waste and 8% composted food leftovers, which is another
- 37 recycling method. Some of the managers claimed recycling was expensive and that it was not their core business. They also did not have the technology to do that. It was
- 39 only at Novotel that recycling was being given serious consideration. Separate recycling bins for plastic, iron, bottles and papers had been placed in the offices and
- 41 kitchens. Only 8% of the hotels used solar energy for heating water because the solar panels are very expensive, though they have long-term benefits. A significant 71.2%
- 43 of the hotels claimed they were providing fair information to guests. More than half of the hotels (61.5%) also encourage their guests to try new experiences. This was
- reflected in the brochures of some hotels. It was suggested in some of the hotels that 45

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- 1 tourists try new experiences such as the culture of fishing communities, the Tema Harbor, Kwame Nkrumah Mausoleum and other attractions around the region.
- 3 Though 55.8% of the hotels had educated guests on eco-friendly practices and 53.8% of the hotels had advised them on local customs and traditions, most of the
- hotels visited did not have notices displayed either at the reception or rooms on environmentally or culturally acceptable behavior. Some of the managers explained
 that they render such advice only upon request.
- The areas of environmental marketing that the hotels did not practice much were 9 sponsorship of research on environmental issues and production of brochures on recycled paper. 13.5% and 7.7% of the hotels had sponsored research on
- 11 environmental issues and produced brochures on recycled paper respectively. This is an unfortunate situation because a hotel which claims to be environmental-
- 13 conscious must communicate its environmental consciousness through marketing. This could be done by for instance producing brochures on recycled paper and
- 15 providing information on the cultural and environmental integrity of the community where the hotel is located.
- 17

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Table 5

21 Percentage of hotels in each category involved implementing eco-friendly practices

Environmental Management Practice	Budget/1 Star	Guest House/2 star	3–5 star		
Have an environmental policy	31.6	68.4	83.3		
Have a manager in charge of environmental management	25.0	25.0	100.0		
Recycled waste	5.0	15.0	41.7		
Used energy efficient light bulb	85.0	100.0	100.0		
Used low-flow shower heads or sink aerators	70.0	70.0	58.3		
Don't use air conditioners	50.0	20.0	25.0		
Installed dual flush toilets	25.0	35.0	25.0		
Encouraged guests to be eco-friendly	77.8	45.0	75.0		
Installed solar hot water system	5.6	5.0	16.7		
Trained staff to be eco-friendly	83.3	55.0	83.3		
Provided energy efficient appliances	72.2	55.0	83.3		
Used eco-friendly cleaning products	77.8	75.0	58.3		
Supported environmental NGOs in cash or kind	38.9	35.0	50.0		
Supported local community in which hotel is located	72.2	55.0	91.7		
Submitted EMP to the EPA	22.2	15.0	66.7		
Reused linen and towels	77.8	65.0	83.3		
Purchased in bulk to reduce packaging	44.4	55.0	66.7		
Composted food leftovers	5.6	5.0	16.7		
Advised guests on local customs and traditions	30.0	55.0	91.7		
Educated guests on environmentally friendly practices	60.0	45.0	66.7		
Sponsored research on an environmental issue	20.0	0.0	25.0		
Encouraged guests to try new experiences	55.0	55.0	83.3		
Produced brochure n recycled paper	10.0	0.0	16.7		
Provide fair information to guests $N = 52$	85.0	65.0	58.3		

45 Source: Fieldwork, 2003.

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- 1 Table 5 reveals the differences in the percentage of hotels in the various categories of hotels implementing environmental management practices. A greater percentage
- 3 of hotels in the three- to five-star category implemented most of the environmental management practices than those in the Budget/one star category and Guest house/ 5

two-star category.

To determine the relationship between hotel category and level of involvement in 7 sound environmental management practices, a list of 18 eco-friendly practices was used as a benchmark. Hotels that practiced one to six (1-6) out of the eighteen eco-

- 9 friendly practices had a low level of involvement in sound environmental practices. Hotels that practiced seven to twelve (7-12) of the eco-friendly practices had a
- 11 medium level of involvement in sound environmental practices and hotels that practiced thirteen to eighteen (13–18) of the eco-friendly practices had high level of
- involvement in sound environmental practices. 13 From Table 6, the χ^2 calculated is 10.922. Four degrees of freedom at alpha level
- 0.05 is 9.488. Since the calculated χ^2 (10.922) falls under the critical value for 4 15 degrees of freedom of 9.488, the null hypothesis is rejected. There is a statistical
- 17 evidence of a relationship between hotel category and level of implementation of environmental management practices.
- 19 From Table 6, 35% and 30%, respectively, of the budget/one-star hotels and the guesthouse/two-star hotels, respectively, had low involvement in environmental
- 21 management practices, 25% of the three to five-star hotels had low involvement in environmental management practices. Also, 5% of the budget/one-star and
- 23 guesthouse/two-star had high involvement in environmental management practices while 41.7% of the three to five-star hotels had high involvement in environmental
- 25 management practices. The higher the class of a hotel, the greater the level of involvement in sound environmental management. This further epitomizes the fact
- 27 that, that larger hotels have been at the forefront of environmental management (Mauforth and Munt, 1998). It also parallels similar studies. In an analysis of
- 29 environmental management of Spanish hotels, Alvarez Gil et al. (2001) found that high category (four- or five-Star) hotels and sun-and-sand tourism establishments
- 31
- Table 6 33 Level of implementation of environmental management practices/hotel category cross tabulation

Level of implementation of	Hotel category				
environmental management practices	Budget/1 Star	Guesthouse/2 Star	3–5 Star	Tota	
Low	7 (35.0)	6 (30.0)	3 (25.0)	16	
Medium	12 (60.0)	13 (65.0)	4 (33.3)	29	
High	1 (5.0)	1 (5.0)	5 (41.7)	7	
Total	20 (100.0)	20 (100.0)	12 (100.0)	52	
$\chi^2 = 10.922$					
$\hat{D}f = 4$					
Sig. = 0.027					

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- 1 are more endowed with resources to undertake environmental management that their counterparts in the lower categories. Kirk (1998) in a study of attitudes to
- environmental management held by a group of hotel managers in Edinburgh, discovered that managers of large hotels (three to five-star and chain or consortium hotels) are more likely to see a positive public relations benefit from environmental
- management when compared to small hotels (less than two-star and independent).
 Smaller hotels (below three-star) in Ghana are independent and owned by individuals or in some instances family businesses. They usually do not have any well
- 9 structured management in place. The owner is usually the manager and often assisted by family members or some less motivated and unskilled staff. The managers
- 11 are usually not endowed with the technical knowledge on environmental management. Also, the profit motive overrides any other consideration and therefore
- 13 deploying resources for environmental management which will only yield profit in the medium to long term, is not a priority to them. The larger hotels (three to five-
- 15 star) on the other hand are affiliated to hotel chains and consortium like Accor, Golden Tulip, Golden Beach Hotels and the New Achimota Group of Hotels. They
- 17 therefore have management structures and standards including environmental quality standards to abide by. Indeed some chains impose some minimum set of
- 19 environmental management practices on members like in the case of Accor and NOVOTEL.
- 21

23 6. Conclusions and implications

- 25 This has been an exploratory study which has sought to find out the environmental management practices of hotels in the GAR and establish differences in the level of adoption and implementation of such practices among different categories of hotels. A major limitation of this study is that it mainly descriptive in
- 29 nature and there was no link between the proactivity of environmental management and the organizational and contextual characteristics of the different categories of
- 31 hotels due to logistics and time-related issues. Also, this study did not elicit reasons for why some hotels are more proactive than others. This should be the subject of
- 33 further research. There is also the need for further on how hotels should recycle their wastes to help hotels reduce their consumption of natural resources and save costs.
- 35 Moreover, there is the need for insights into what informs hotel managers' perception of environmental management and the impacts of hotels on local
- 37 communities. Further studies on waste management, water and food quality as well as pollution by hotels though in the realm of the physical sciences are important for
- 39 enabling understanding on issues of environmental management practices in hotels. It can be concluded from this study that there exist marked differences in the
- 41 implementation of environmental management practices among hotels of different categories in the GAR. The most popular eco-friendly activities practiced by the
- 43 hotels were use of energy-efficient light bulbs and not changing used linen and towels daily. Also, the larger hotels (three to five-star category) were at the forefront of
- 45 environmental management. However, this fact should be a cause for concern. This

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- 1 is because the three to five-star hotels constitute just 2.88% of the total number of hotels in the GAR (Ghana Tourist Board (GTB), 2000, 2002). Though the smaller
- 3 hotels are in the majority, their managers think it is the larger hotels that should be concerned with environmental management. The smaller hotels are springing up
- 5 everywhere in the region and their cumulative effect on the environment could be catastrophic if the GTB, Hoteliers Association, EPA, and AMA do not initiate
 7 moves to educate their managers on their environmental responsibilities and arrest the environmental problems associated with such developments.
- 9 The GTB, EPA, AMA and other institutions tasked with enforcing environmental standards should organise training programmes for hotel managers on sound 11 environmental management practices. The training should cover areas like hotels
- purchasing policies, recycling of waste, government's environmental requirements, national environmental policy and the benefits to be derived from sound environmental practices among others. Such programmes will adequately inform
- 15 hotel managers about their responsibilities and help them to pursue adequate environmental management programmes. Also, policy makers should consider
- 17 enacting laws on the environment geared towards enforcing current conventions on the environment. Penalties that are ascribed to offenders of such legislation should
- 19 be punitive enough to serve as deterrent. Legislative Instrument (LI 1502) of 1975, under which hoteliers who contravene any of the provisions of the regulations are
- 21 liable to a fine not exceeding $\notin 200$ (approximately 2 cents) is no longer relevant and should be scraped from the statute books.
- 23 Secondly, the study findings have implications for recycling of waste by the hotels. Only 17.3% of the hotels recycled their waste, 8% composted food leftovers and
- 25 7.7% produced brochures on recycled paper. This means the hotels don't attach much attention to recycling. The food leftovers, waste water and other wastes that
- 27 are generated in hotels go waste. However, the hotels can save costs if they recycle these wastes. Accra is grappling with the problem of waste disposal and hotels can
- 29 help alleviate this problem if they add value or find alternative uses for their waste instead of dumping them indiscriminately. Hotels must recycle the thousands of tons
- 31 of wastewater that goes down the drain each day. Wastewater could be used to water ornamental plants around the hotels or to flush toilet. Food leftovers can be used for
- 33 composting as manure or to feed animals. Recycling of solid waste demands some form of technology which should not be beyond the collective scope of the hotels.
- 35 However, they should in their own small way have separate dustbins for collecting papers, plastic and bottles to make easier, the work of waste management companies involved in recycling.

Environmental management remains a neglected area in the management of hotels

- 39 in Ghana as typified by hotels in the GAR. NOVOTEL Accra is the only hotel that has a clearly defined environmental management system in place. Eco-labeling and
- 41 certification have not caught on with hotels in Ghana. This should be a cause for concern because if the government's tourism policy objective of Sustainable Tourism
- 43 Development by 2010 as spelt out in the 15 year tourism development plan (1996–2010) is to be realized, then hotels which are the more tangible manifestation
- 45 of tourism development, must be at the forefront of sustainable tourism practices.

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- 3 Ministry of Tourism and UNDP, 1996.
- 5

7 Acknowledgements

I am indebted to Prof. Jeurry Blankson, Dr. S.B. Kendie both of the University of Cape Coast and the two anonymous referees for their suggestions which gave this work a better shape. I am also grateful to Dr. Debbie Cannon, head of the Cecil B.

Day School of hospitality and Dr. Marcia Taylor for their encouragement.

13

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