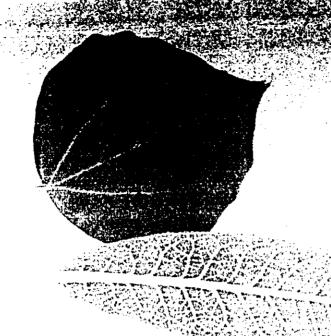
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Office of the Minister of State for Administrative Reform Center for Public Sector Projects and Studies Republic of 1 chanon (C.P.S.P.S.)







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THE DESIGNATIONS EMPLOYED AND THE PRESENTATION OF THE MATERIAL IN THIS PUBLICATION DO NOT IMPLY THE EXPRESSION OF ANY OPINION WHATSOEVER ON THE PART OF THE UNITED NATIONS ENVIRONMENT HOGGERAMME CONCERNING THE LIGAL STATUS OF ANY COUNTRY TENRITORY CITY OR AREA OF ITS AUTHORITIES, OR CONCERNING DELIMITATION OF ITS FRONTIERS OR BOUNDARIES MORECOVER, THE VIEWS EXPRESSED ON OIT INCESSARILY REPRESENT THE DECISION OR THE STATED PODICY OF THE UNITED NATIONS ENVIRONMENT PROGRAMME, MOR DOES CTIMG OF TRADE NAMES OR COMMERCIAL PROCESSES CONSTITUTE ENDORSEMENT



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About the Authors

THE INTERNATIONAL HOTEL
ASSOCIATION (IHA) is the only
organisation that exclusively represents
the interests of the hotel industry
worldwide.

Its mission is to lobby at international level on behalf of the hotel industry; to provide networking opportunities for the global hotel community; and to provide information services to members.

Its core membership is composed of international and national hotel chains, national hotel associations, independent hotels, schools and product and service suppliers to hotels.

THE INTERNATIONAL HOTELS
ENVIRONMENT INITIATIVE (IHEI) is an international network of hotel companies which exists to promote the continual improvement in environmental performance in the hotel industry worldwide.

The IHEI is core-funded and its activity coordinated by an International Council of hotel groups: Accor; Forte Plc; Hilton of hotel groups: Accor; Forte Plc; Hilton International; Holiday Inn Worldwide; Inter-Continental Hotels and Resorts; Inter-Continental Hotels and Resorts; Group; Marriott Corporation; Omni Hotels International; Renaissance Hotels International; and The Taj Group of

The IHEI is a programme of The Prince of Wales Business Leaders Forum which aims to promote the long-term benefits of good corporate citizenship and sustainable development as a natural part of successful business operations.

THE UNITED NATIONS ENVIRONMENT PROGRAMME (UNEP) is the United Nations Environmental Conscience. It acts as a "catalyst for change" and for sustainable development.

UNEP INDUSTRY AND ENVIRONMENT (UNEP/IE) brings together industry, governmental and non-governmental organisations to work towards environmentally sound forms of industrial and tourism development, especially in developing countries.

Given the importance of tourism, and the key role hotels have to play for sustainable development of this sector, sustainable decided to join forces with IHEI UNEP/IE decided to join forces with IHEI and IHA to promote environmental management of hotels and build capacity on this important issue.

Sponsor's Foreword

Corporation has sponsored the sponsored the production of the Environmental Action Pack.

We are delighted to be associated with such a valuable initiative.

Diversey Corporation is the leading global supplier of cleaning and sanitising products, together with water management products and systems.

We meet the cleaning needs of hotels and restaurants in dishwashing, kitchen cleaning, housekeeping, laundry and water management.

Within all the Diversey businesses and wherever in the world those businesses are trading, sensitivity to the environment is part of the corporate culture. We recognise the need to balance high standards of cleanliness with environmental responsibility.

Environmental neutrality is a key objective for us:

- the products we make must represent the most efficient use of resources
- products must be worker-safe and minimise the threat to the environment in manufacturing and shipping

Partnership with our customers is a key issue.

We work with our customers to ensure that:

- the product being used provides the desired result in the gentlest manner
- procedures and equipment are optimised to ensure efficiency without over-cleaning
- employees understand the appropriate use of products, equipment and the need for accurate dosing.





	REVIEWING PROGRESS	
	BUSINESS ISSUES	
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The Hotels' Environmental Charter

WE RECOGNISE THAT OUR BUSINESS HAS AN IMPORTANT ROLE TO PLAY IN PROTECTING AND ENHANCING THE ENVIRONMENT FOR FUTURE GENERATIONS, AND TO HELP SECURE THE LONG-TERM SUSTAINABILITY OF THE TOURISM INDUSTRY.

TO THIS END OUR HOTEL IS COMMITTED TO TAKING ACTION:

- TO ACHIEVE SOUND ENVIRONMENTAL PRACTICES ACROSS OUR ENTIRE OPERATION
- TO COMPLY FULLY WITH ALL ENVIRONMENTAL LEGISLATION
- TO MINIMISE OUR USE OF ENERGY, WATER AND MATERIALS
- TO MINIMISE OUR WASTE AND TO REDUCE, RE-USE AND RECYCLE THE RESOURCES CONSUMED BY OUR BUSINESS WHEREVER PRACTICAL
- TO REDUCE OUR POLLUTION TO A MINIMUM AND, WHERE APPROPRIATE, TO TREAT EFFLUENTS
- TO INVITE OUR CUSTOMERS, SUPPLIERS AND CONTRACTORS TO PARTICIPATE IN OUR EFFORTS TO PROTECT THE ENVIRONMENT



- WHERE WE CAN, TO WORK WITH OTHERS IN THE TOURISM INDUSTRY, IN PUBLIC AGENCIES AND THE COMMUNITY TO ACHIEVE WIDER ENVIRONMENTAL GOALS
- TO PROVIDE ALL EMPLOYEES WITH THE TRAINING AND RESOURCES REQUIRED TO MEET OUR OBJECTIVES
- TO OPENLY COMMUNICATE OUR POLICIES AND PRACTICES TO INTERESTED PARTIES
- TO MONITOR AND RECORD OUR ENVIRONMENTAL IMPACTS ON A REGULAR BASIS AND COMPARE OUR PERFORMANCE WITH OUR POLICIES, OBJECTIVES AND TARGETS

Let's Get Going . . .

The protection of the environment is the greatest challenge of our generation. It is a challenge in which we all, whether in government, business or as individuals, have a part to play.

More and more companies, both large and small, are now bringing environmental management into the daily running of their business.

The results are really worthwhile — not just in environmental terms, but also in terms of real business benefits, such as reduced costs and liabilities, greater service quality and customer satisfaction and improved corporate image.

Hotel and tourism organisations around and materials — which are increasingly use natural resources — energy, water the world are also taking action. They too environment is the basis on which the threatened. Moreover, an unspoilt water cleanliness, local culture and the destination by its climate, natural industry is built. Tourists are drawn to a away these qualities and the tourists will landscapes, the quality of its beaches, environmental protection vary from hotel built heritage. As experience shows, take business benefits is often a process of the environmental benefits with the There is no one answer and weighing up to hotel and from location to location. not come back. The needs of

This Action Pack is part of a strategy to help hotels set up their own individually tailored environmental programme and form part of a wider regional and worldwide network to share experiences and take joint action as necessary. We are sure that if we all work together we can face the challenge of improving our environmental performance.

The IHA, UNEP and the IHEI invite you to commit to the principles of the Hotels' Environmental Charter. It will bring you new friends, the benefits of sharing best practice and the business benefits of joint effort.

WELCOME AND GOOD LUCK!



(1)

Why Go Green?

Have you considered the business benefits that environmental management can bring:

REDUCED CONSUMPTION AND THEREFORE REDUCED COSTS

Many environmental measures are aimed at reduced consumption (energy, water, office materials, etc.), which will also serve to reduce your business costs.

A recent survey of hotels suggests that energy savings can be upwards of 5% for good-housekeeping measures and about 10% for low-cost measures.

IMPROVED COMPETITIVE POSITION.

Think:

- Are your competitors taking environmental action?
- Are your guests increasingly environmentally
- Do you derive business from environmentally active tour operators/carriers?
- Are environmental problems threatening your local tourism industry?

REMEMBER: GOING GREEN IS GOOD FOR BUSINESS

CUSTOMER LOYALTY AND ENHANCED PUBLIC IMAGE

Hotel guests are increasingly taking an interest in the environment. If you can show you care for the environment as well as their comfort, you will gain their respect and customer loyalty. They will also spread the word about your hotel.

A hotel in Italy which was developed and marketed as 'eco-friendly' saw business increase by 30% while its competitors' business decreased in the recession.

ATTRACTING AND RETAINING DEDICATED STAFF

If staff see that you care about the environment without threatening the success of your business, they will feel they are employed by a more caring, yet fully commercial organisation. This will increase motivation, loyalty and staff effectiveness—all leading to reduced staff turnover.

A hotel in Canada collected all its cardboard and sold it for recycling. The money was split: 50% to a local charity; 50% to the staff social fund.

LONG-TERM BUSINESS BENEFITS

By working with others in the industry and demonstrating good practice, you will help secure the protection of the local environment on which the longterm future of your business depends.





How to use the Action Pack

The aim of this Action Pack as an extension to the daily environmental management running of your business is to help you introduce considerable additional it does not need time or money.

and achieve your own goals. are essential for you to set checklists and forms. They straightforward approach, start planning and taking to help you immediately The Action Pack seeks with good planning and simple practical action. regular monitoring, and contains a range of It recommends a

adapt it, copy it, add to it. Above all, don't forget it! | a Effluents & emissions Use the Action Pack,

This ACTION PACK is in five main parts:

PART ONE: GETTING STARTED shows you how you needed and will be most beneficial to you. your hotel, identifying the areas where actions are most can start on a workable environmental programme for

and your staff can start to try out immediately. in the form of checklists for key departments which you PART TWO: ACTION CHECKLISTS presents simple ideas

PART THREE: OPERATING YOUR BUSINESS a programme of continuous improvement into your **ENVIRONMENTALLY** sets out how you can introduce It includes sections on: management and explains the steps that your hotel hotel. It introduces the concept of environmental needs to take to make it part of your daily operation

- Motivation
- Planning Action
- Making it happen
- Reviewing progress

can take action: six major areas of environmental concern where you PART FOUR: DEVELOPING THE ACTION focuses on

- Contractors & suppliers

in each of these areas a description is given of the often as you like in order to: where necessary, for you to photocopy and use as main issues affecting hotels. Forms are provided,

- Carry out a detailed review of the chosen priority
- Prepare a plan of action
- Monitor progress

transparent overlays. Guidance on how to fill in the forms is given on the

information and technical assistance PART FIVE: FURTHER HELP gives sources of further



The Green Health Check is designed to help you decide what matters to your hotel. It will help you to quickly get an idea of the environmental issues affecting your business and of your current environmental performance. The Health Check should take no more than

two hours to complete. Use only existing

information which is to hand.

The Green Health Check

and materials in providing services to guests. They used in refrigerators, and such as CFCs, which are All hotels, no matter how small, place a burden on release effluents and air emissions which pollute; chlorine bleaches); they use harmful substances the environment. They and many of the goods consume water, energy environmental impacts manufacture, use and associated with their generate waste, and they buy have disposal.

There are many actions that hotels can take to help protect the environment and save money. The problem is knowing where to start — how to define the best areas for action which will bring real benefits to the environment and also to the business. This varies from one hotel to another because of differences in:

- Operational characteristics and customer base
- Starting points some hotels have already taker environmental actions
- Legislation from one country to another
- Local and regional environmental priorities (e.g. water pollution may be a key priority in your locality)

The Green Health Check covers the following areas:

- Energy
- Solid wasteWater
- Effluents and emissions
- Contractors and suppliers
- Business issues

Use the tables on the following pages to score your Green Health Check, according to the instructions on

each page. Then transfer the scores to the Summary of Results table on page 13 to see how your hotel is performing and which areas could be tackled as a priority.







Environmental Checklist **Energy**

Do staff switch off appliances and lighting when not in use?

Are energy services shut down when and where parts of the building are unoccupied?

Have temperature settings, timers, lighting levels etc., been adjusted to ensure minimum energy use for given comfort levels?

Is hotel energy use regularly monitored?

Is consumption of energy going down year on year?

Have targets for reducing energy consumption been set?

Has energy use been compared with energy benchmarks?

Have you checked that the cheapest fuel/tariff is being used for each purpose?

Is all of your energy plantlequipment less than 10 years old?

Have low-energy lights been fitted where cost-effective?

Has an energy audit been undertaken in the last three years?

NUMBER OF YES'S

NEXT REVIEW DATE.

For these two tables answer YES or NO to each question. If you do not know the answer, put NO. Add up the number of YES answers.

YES / NO

If you have scored:

- 5 or more YES answers — you are performing well in that area
- 4 or less YES answers
 you may need to consider that area as a priority for action.



Environmental Checklist Solid Waste

YES / NO

Do you know what happens to the waste from your hotel?

Are the types and amount of waste generated by the hotel monitored?

Are opportunities to reduce wastage identified and acted upon?

Do systems exist to minimise waste, reduce and recycle where possible?

Do you recycle or reuse most:

- bottles
- waste paper?
- · cans?
- batteries?

Is organic waste composted?

Does the hotel use reusable toiletries and toiletry containers?

Is all solid waste safely disposed of to an official site?

Is a register kept of hazardous wastes?

NUMBER OF YES'S
DATE:
NEXTREVEWDATE



Reviewing progress



The old adage 'You cannot manage what you do not measure' applies as much to environmental management as to other areas. This is the major ongoing role of the **Champion** and involves two tasks:

MONITOR PROGRESS

You need good monitoring procedures to know that your plan is working and achieving its objectives. Monitoring should be regular — how regular depends on the subject being monitored. But it should be sufficiently frequent to enable corrective action to be taken if there is a major change from targeted performance (due, for instance, to a thermostat setting being changed accidentally). Energy and water consumption should be monitored on at least a weekly basis. This need not take a member of staff more than 10 minutes a week. Monitoring forms for each action area are provided in **PART FOUR**.

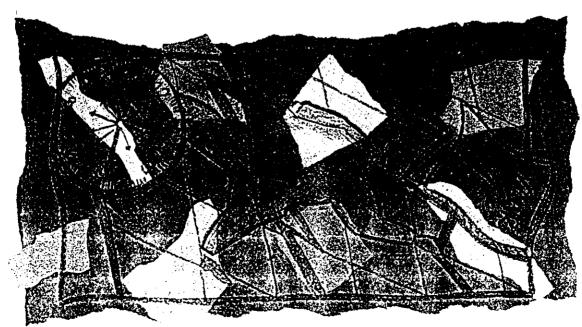
Especially in the early days when progress will be patchy, and difficulties will arise, you might find it useful to hold short meetings say on a fortnightly or monthly basis with relevant individuals to review the progress made, and to help sort out problems as they arise.

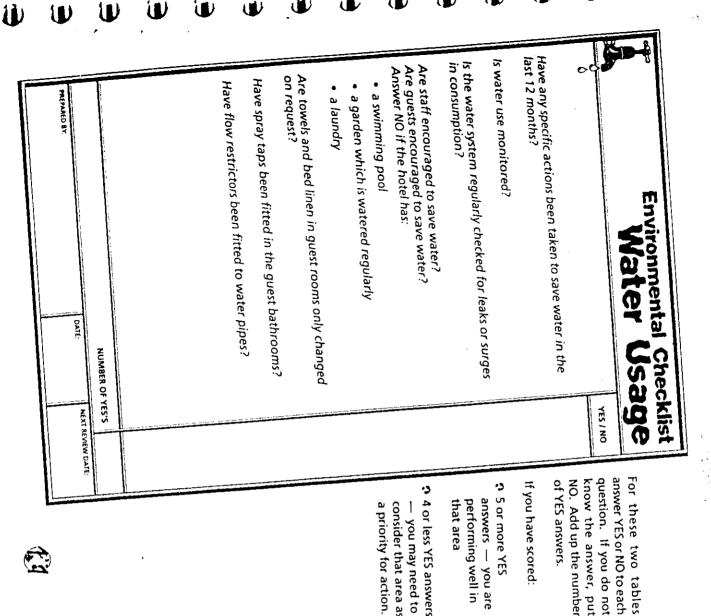
ANNUAL REVIEW

Once a year you will need to step back and check your progress. The review might best be undertaken by the **Champion** and might take the form of a short report attaching completed targeting and monitoring forms of the initiatives undertaken. Alternatively you might prefer to use independent consultants if you do not have the resources or expertise in house to do this. The review should cover your environmental management capabilities as well as your progress with specific environmental actions. It should entail:

- a repeat of the Green Health Check to assess what progress has been made, and to help reprioritise action
- a summary of measured achievements against set targets and objectives
- discussions with relevant staff to identify the difficulties that have arisen, and the successes, and their recommendations for future action.

This review process is invaluable. It will highlight problem areas as well as help you to identify the most appropriate environmental management approach for your business. You can then begin to plan for the coming year — but this time on the basis of your experience of going green to date.





(D)

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W

Effluents & Emissions

YES / NO

question. If you do not answer YES or NO to each NO. Add up the number know the answer, put treated? Do you know how your sewage and waste effluents are

emissions and effluents? Are you aware of all legislation pertaining to hotel

Is sewage from the hotel treated before being discharged to fresh water?

Have necessary discharge licences been obtained?

implemented? Have options for reducing CFC use been researched and

you may need to

and pollution in the last year? Has your hotel been free of complaints about noise, odours

Is the hotel building free of asbestos?

Do all hotel vehicles have catalytic converters?

Are air and water quality in your locality considered to be good?

Does a register of hazardous substances used in the hotel exist?

products? Do you have automatic metering to minimise use of

PARED BY.		
DATE. NEXT R	NUMBER OF YES'S	
NEXT REVIEW DAT		

U

Contractors & Suppliers Environmental Checklist YES / NO

Does the hotel have a policy of purchasing environmentally friendly products where possible?

Do you buy recycled or recyclable products where possible?

Do you avoid (where alternatives exist):

- products made with tropical hardwoods?
- CFC-based products (fridges, air-conditioning, aerosols)?
- chlorine bleaches or bleached linen?
- heavily packaged products?
- leaded petrol?
- halon fire extinguishers?

Does the hotel purchase mainly fresh food — as opposed to frozen or heavily packaged food?

when deciding to employ a contractor? Do you take environmental considerations into account

Have you ever evaluated the performance of eco-friendly

NUMBER OF YES'S

PREPARED BY

DATE

NEXT REVIEW DATE:

of YES answers. Add up the number the answer, put NO. If you do not know to each question. left answer YES or NO ♠ For the table on the

If you have scored:

- 5 or more YES answers — you are performing well in that area
- 4 or less YES answers a priority for action consider that area as you may need to

For the table on the NO to each question. the answer, put YES. Add up the number right answer YES or If you do not know of YES answers.

reasons for investing answers, there are THE SALE BOY in environmental strong business 5 or more YES



Business Issues Environmental Checklist

YES / NO

the local tourism industry? Are environmental problems threatening the future of

is taking environmental action, and may expect you to in the future? Are you associated with a carrier or tour operator who

Are your guests environmentally concerned?

environment? Are members of your staff concerned about the

hotel's standing in the community? Would a good environmental reputation improve the

existing hotel or build a new one? Are you planning to apply for permission to extend an

Are your direct competitors taking environmental action?

Have there been any complaints about poor environmental practices at the hotel?

scheme! Would your business benefit from a recognised award

B

PREPARED BY Has the hotel been fined or cautioned by the pollution enforcement authorities for a breach of legislation? DATE NUMBER OF YES'S NEXT REVIEW DATE

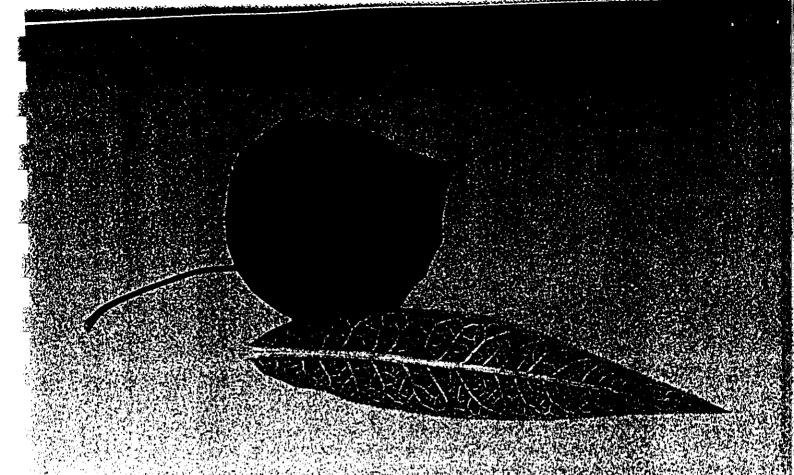


Fred Champion		the the progress you've and help re-prioritise	othe end of the year conduct	High emerits and ready to try Building new, then move on the next priority area.	oriess in these areas, and	Where real environmental applications benefits can be achieved.	practical action	noose just one or two areas:	emembers do not try to take	income fictowest score to the control of the contro	completed all co	SITIES	REEN, HEALTH
		SELECTED ACTION AREA		TOTAL SCORE	BUSINESS ISSUES	CONTRACTORS	EFFLUENTS & EMISSIONS	WATER	SOLD WASTE	energy			
	11	ENERGY		25	ч	.4-	Ŋ	->-	->-	3	SCORE	YEAR 1	S
D D	DATE:				6	->-	VΊ	2	~	-	PRIORITY RANKING	R 1	Summ
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December '96									<u> </u>		SCORE	YEAR	200
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Summary of Results

YEAR 3

PRIORITY



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This section will help you begin to take action.

Action checklists for key departments

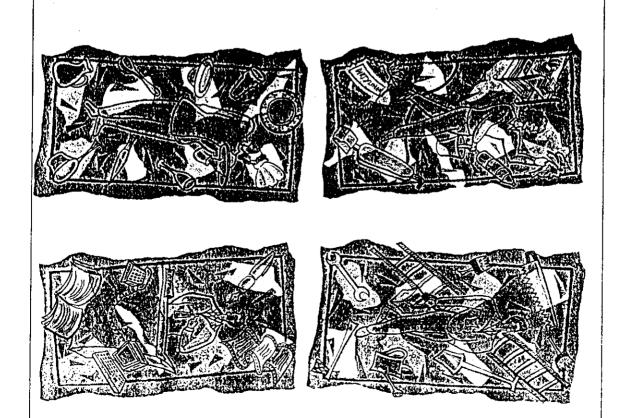
The following pages contain examples of immediate practical environmental actions which the different staff in your hotel can begin to take.

Don't try to do them all at once, Select a few to start with, Draw up an action list,

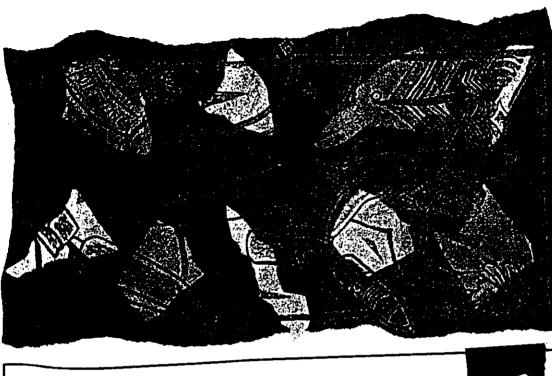
The action list should be kept simple and can be put up on the staff notice board. At the next staff meeting tell staff about the new actions they need to take.

We also present a few examples of what other hotels have done to date to give you more ideas.

REMEMBER: EVERY LITTLE ACTION HELPS!



Action Checklist: Housekeeping



WHAT WE DID. .

"We changed to a non-toxic, biodegradable, multipurpose cleaner/disinfectant. It was as good as our
previous product in cleaning and rinsing; could be used
in cold water (energy conservation); and was pricecompetitive as it could be diluted for use."
(160-bedroom unit)

"The extra

"We send used guest soap to the Salvation Army for use in hostels for homeless people."

"We found that making bedrooms nosmoking areas cut down on the amount of cleaning necessary."

money we spent on changing to biodegradable toiletries, was more than offset by the savings we made on water and electricitis

Housekeeping State

GOAL / ACTION

GOAL / ACTION

REDUCE WASTE

COLLECT EMPTY COSMETICS CONTAINERS FOR REFILL

SORT WASTE FROM GUEST-ROOMS FOR RECYCLING

COLLECT FLOWERS AND TAKE TO COMPOST HEAP

TAKE ALL RETURNABLE EMPTY MINIBAR BOTTLES TO KITCHEN

CONSERVE WATEK

REMOVE ONLY TOWELS THROWN ON FLOOR FOR LAUNDERING

REMOVE ONLY TOWELS THROWN ON FLOOR FOR LAUNDERING

CHECK IF BEDLINEN CAN JUST BE REPLACED EVERY THREE DAYS

DO NOT LEAVE TAPS RUNNING WHILE CLEANING

USE STATED AMOUNTS OF DETERGENT/WATER SOFTENERS IN

LAUNDRY

GRET LEAKING OR DRIPPING TAPS AND TOILETS FIXED

SAVE ENERGY

WHEN LEAVING GUEST BEDROOMS

- TURN ALL LIGHTS OUT
- ► SWITCH TELEVISION OFF
- ► CLOSE WINDOWS
- CLOSE CURTAINS TO REDUCE SOLAR GAIN
- F ROOM IS NOT BOOKED, TURN HEATING/AIR CONDITIONING
- IF ROOM IS BOOKED, TURN ROOM CONTROLS TO MINIMUM COMFORT LEVEL
- ► ENSURE FURNITURE IS NOT PLACED IN FRONT OF HEATERS

PREPARED BY

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Fred Champion

DATE:

December '95

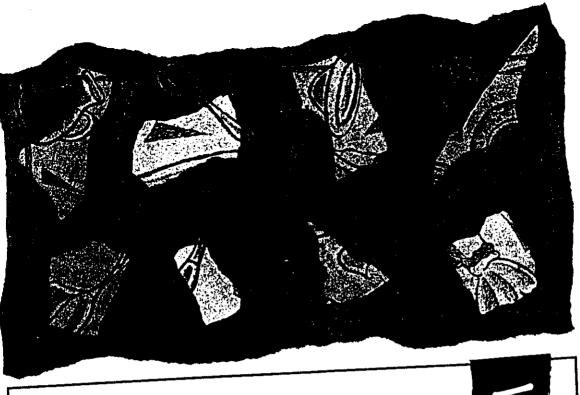
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December '96

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Action Checklist: Food & Beverage



WHAT WE DID. .

"Our chefs have finally broken the habit of turning on all the ovens first thing in the morning.

Now the kitchen is cooler to work in — which needs less air-conditioning and costs less."

"Our restaurant now serves organic food — grown without the use of harmful pesticides and herbicides — and this has won us a local restaurant award."

"Checking that all the refrigerator and freezer door seals were working properly cut down on the need to defrost as often (and probably saved us money)." (Hotel in Thailand)

"We fitted an automatic dispenser to detergents and found the usage significantly decreased."

Food & Beverage State Environmental Action Checklest

GOAL / ACTION

SEPARATE AND TAKE ALL ORGANIC WASTE TO COMPOST HEAP REDUCE WASTE COLLECTION AND RECYCLING SEPARATE AND STORE BOTTLES, GLASS, TINS AND CANS FOR

PURCHASE MATERIALS IN BULK WHEREVER POSSIBLE SERVE CONDIMENTS SUCH AS PRESERVES IN REFILLABLE DO NOT USE DISPOSABLE NAPKINS, CUTLERY OR CROCKERY

SAVE ENERGY

ENSURE ALL APPLIANCES ARE SWITCHED OFF WHEN NOT IN USE NATURAL LIGHT IS INSUFFICIENT ONLY SWITCH ON LIGHTS IN BAR AND RESTAURANT WHERE KEEP DOORS TO FRIDGIES, FREEZERS AND COLD ROOMS CLOSED

USE CORRECT RING, PAN SIZE AND QUANTITIES FOR COOKING

KEEP OVEN PREHEATING PERIOD TO MINIMUM

tred Champion

GOAL / ACTION

CONSERVE WATER WASH VEGETABLES IN CONTAINERS DO NOT LEAVE TAPS RUNNING

USE DISHWASHER WITH FULL RACKS ONLY DO NOT USE WATER TO DEFROST FROZEN FOODSTUFFS LIMIT 'REFRESHING' USING COLD WATER

BUY ONLY WHAT YOU NEED CONTRACTORS & SUPPLIERS PURCHASE FRESH FOOD WHERE POSSIBLE AVOID BUYING OVER-PACKAGED GOODS BUY LOCALLY PRODUCED GOODS ENCOURAGE SUPPLIERS/CONTRACTORS TO DO THE SAME

DATE

December '95

NEXT REVIEW :

December '96

PREPARED BY: GOAL / ACTION Food & Beverage Staff DATE: GOAL / ACTION NEXT REVIEW DATE:

Action Checklist: Maintenance



WHAT WE DID.

"We changed existing light bulbs to energy-saving bulbs, choosing areas where the payback time is one year or less, such as in hotel guest rooms, back of the house and areas on 24-hour operation time."

"Where possible, we used reduced lighting at night time to 50% lighting at night time to 50% capacity between 24.00 hrs and capacity 06.00 hrs by employing the use of timers.

"One area where maintenance plays a key role is in water conservation. We have begun to use flow restrictors in guest rooms showers, taps and automatic valves in public lavatories."

Environmental Action Chackers **Number and**

GOAL / ACTION

MAXIMISE EFFICIENCY

WITH BEST AVAILABLE TECHNOLOGY NETWORK & SUBSCRIBE TO INFORMATION SERVICES TO KEEP UP

CONSUMPTION OF ENERGY, WATER AND GENERATION OF WASTE RECOMMEND SUBSTITUTE TECHNOLOGIES WHICH MINIMISE HOTEL'S

WASTE THROUGHOUT HOTEL BRAINSTORM WAYS TO REDUCE AND REUSE ENERGY, WATER, AND

CONSUMPTION DEPARTMENT FOR MONITORING WASTE, WATER AND ENERGY RECOMMEND BENCHMARKS AND MEASUREMENTS IN EACH

MAINTAIN EQUIPMENT REGULARITY

CONSERVE WATER

INSTALL LEAK-DETECTION EQUIPMENT

INSTALL FLOW RESTRICTORS INTO ALL WATER OUTLETS FREQUENTLY MONITOR TAPS, EFFLUENT AND VENTILATION SYSTEMS

RECOVER WASTE WATER FROM LAUNDRY RINSE CYCLES/DRY WATERLING, FLUSHING) CINAMINA COOLING CYCLES FOR REUSE (F.G. FOR GARDEN

GOAL / ACTION

SAVE EVEROX

INSTALL ENERGY-SAVING EQUIPMENT (E.G. ENERGY-EFFICIENT LIGHTS, MOTION DETECTORS)

FOR SPACE HEATING AND COOLING DETERMINE AND IMPLEMENT OPTIMAL TEMPERATURE SETTINGS

INSTALL DEPARTMENTAL METERS SHUT OFF HEATING/COOLING/LIGHTING TO UNOCCUPIED AREAS

CONTROL EFFLUENTS & EMISSIONS

OF DISCHARGES AND INSTALL LEAK DETECTION EQUIPMENT IDEATIFY AREAS OF EFFLUENTS AND EMISSION, MONITOR QUALITY REPLACE ANY HAZARDOUS SUBSTANCES IN USE WITH BEST

AVAILABLE NON-HAZARDOUS ALTERNATIVES

REDUCE WASTE

INSTALL COMPACTOR TO REDUCE VOLUME OF WASTE

WIT LA RICHE SET UP ORGANIC WASTE DISPOSAL AND COMPOSTING SYSTEM

PREPARED BY:

Fred Champion

W

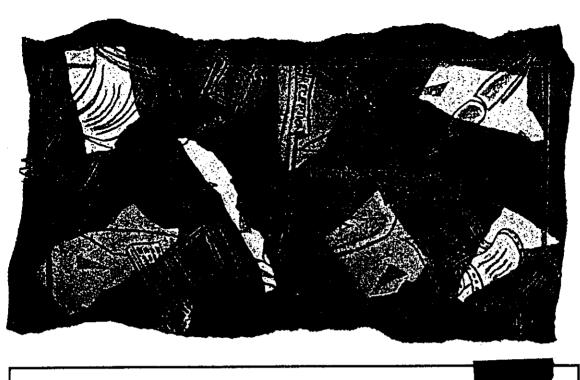
DATE:

December '95

NEXT REVIEW DATE

December '96

Action Checklist: Admin & Reception



WHAT WE DID.

"Our staff started saving stamps from all mail and sent them to a local charity to help in their fundraising campaign."

"We made up a "Green ldeas" box which we kept in the lobby area for staff and guests."

a "We use both sides of a fax header sheet before sending it to recycling — which saves paper."

"We gave all new staff information on our green programme and a reusable mug as a welcome present."

"One staff member calculated that, because we now recycle all paper in the hotel, we have so far recycled enough to save 200 trees."

DE A ROCCEDE ACTION OF THE

domin's tration

GOAL / ACTION

GOAL / ACTION

WEE RECYCLED PAPER FOR STATIONERY

USE SCRAP PAPER FOR NOTES

CANKEL JUNK MAIL

COLLECT WASTE PAPER FOR STORAGE

USE CHINA CUPS

PHOTOCOPY ON BOTH SIDES OF THE PAPER

PURCHASE ONLY MATERIALS FROM APPROVED LIST

USE REFILLABLE PENS AND TONER CARTRIDGES

TAKE OLD FLOWERS TO THE COMPOST HEAP

ASK GUESTS WHEN THEY WOULD LIKE LINEN CHANGED (E.G. AT 1

SAVE ENERGY

SWITCH OFF LIGHTS AND APPLIANCES WHEN NOT IN USE

USE NATURAL LIGHT AND VENTILATION WHERE POSSIBLE

ENSURE THERMOSTATS ARE CORRECTLY ADJUSTED

USE RECHARGEABLE BATTERIES FOR CALCULATORS ETC.

ENSURE HOTEL DOORS ARE CLOSED IF CENTRAL HEATING/AIR

CONDITIONING IS ON

CONTRACTORS & SUPPLIERS

AVOID PRODUCTS CONTAINING ENVIRONMENTALLY HARMFUL
MATERIALS

BUY ONLY WHAT YOU NEED

BUY GOOD QUALITY REPAIRABLE GOODS

BUY LOCALLY PRODUCED GOODS

BUY EXERGY-EFFICIENT EQUIPMENT

CHECK EQUIPMENT IS MAINTAINED REGULARLY

OR 3 DAYS)

Fred Champion

WDLE.

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DATE

December '95

December '96



PART THREE

This section introduces you to the concept of environmental management and explains the steps that your hotel needs to take to make it an integral part of your operation.

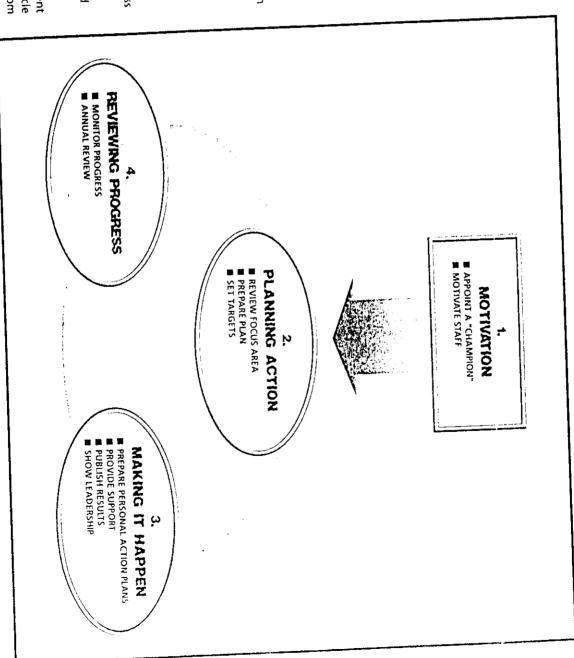
Integrating Environmental Management

"Going green" is not a challenge that can be met overnight. It is a long-term commitment: a continuous process of improvement. Manage it at a pace which is right for your hotel, and bring it into your normal working schedules from now on.

The diagram (right) illustrates the four key steps that are involved in integrating effective environmental management within your business:

- 1. MOTIVATION in which you begin to integrate the initiative into your business by appointing a "Champion" to co-ordinate it and communicate your aims to your staff.
- PLANNING ACTION in which a detailed review
 is carried out of the priority areas chosen for action
 to identify measures to be taken, and prepare an
 action plan and timetable.
- 3. MAKING IT HAPPEN in which staff commitment is gained for the action plan, responsibilities are allocated, and the plan is implemented.
- a. REVIEWING PROGRESS in which progress is monitored against set targets and objectives, and an annual review of overall progress is conducted to assess the successes and failures and set priorities for the coming year.

These steps form a yearly environmental management cycle. Each year you will go back through this cycle again, beginning with the review phase to learn from the previous year's successes and failures.



Motivation

MOTIVATION

■ APPOINT A "CHAMPION" ■ MOTIVATE STAFF

APPOINT A "CHAMPION"

From the outset you will need a person to take responsibility for co-ordinating and implementing the programme. The person should have a good operational knowledge of the hotel, the respect of other staff, a commitment to the project, and your full support as owner/manager. The **Champion** will be the person who keeps your programme on line who ensures good business results are achieved and that everyone enjoys joining in.

MOTIVATE STAFF

Use a staff meeting to tell your staff of your objectives, and get their ideas and support. Put up a copy of The Hotels Environmental Charter or your own environmental policy statement, if you have one, on the staff notice board. (You may also wish, perhaps later when you have taken some action, to put up a framed copy of this document in the hotel lobby where guests can see it. This can also help gain the respect and support of staff, who recognise how serious the initiative is). Show leadership — at every opportunity show them how to take environmental action — switch off lights, save water, write your notes to them on scrap wasten paper.

INVOLVE STAFF

This not only helps gain their commitment to the initiative, but they often have their own ideas about actions that can be taken to, for instance, reduce waste, and how most practically to carry out a policy. The **Champion** can do this by enlisting support in gathering information and ideas on actions from colleagues who have specific responsibility for functions such as reception, housekeeping, food and beverage, sales and marketing and administration.

PARTICIPATE IN EXTERNAL ACTIVITIES

Get involved in local and national initiatives, attend events, subscribe to environmental magazines and discuss the issues with colleagues in the industry. Promote 'networking' of good ideas through your hotel association. This will all help you to gain a deeper understanding of the issues and how others are tackling them. It will also help to enhance your reputation in the industry.



Planning action



Now is the time to begin to plan action. There are three basic steps involved in this process, and there are forms in PART FOUR to assist with each of these steps. The steps are:

REVIEW FOCUS AREA

Conduct a review of each priority action area to:

- Assess current performance: This information may be to hand in the form of fuel bills. If not, new measurements will need to be taken. This assessment is very important, and will provide the benchmark against which progress will be measured.
- identify improvement options: You will need to identify what is already being achieved in order to gain an idea of where improvements can be made without sacrificing other operational criteria. This is where discussion with key staff in each area is not only very useful (they often understand best where and how improvements can be made) but also essential if they are to be committed to the

The Review Forms contained in **PART FOUR** provide examples of the outputs of this process, and guidance is given in each section on how to go about finding the information required. Completing these forms will take a little time.

PREPARE PLAN

The Action Plan Forms illustrate the outputs of this task. The preparation of the action plan involves four important steps:

- Decide which of the actions identified by the review should be pursued first
- Define the steps to implement each action
- Allocate responsibility for these
- Set target dates for action

The action plan should prioritise:

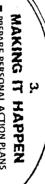
- Actions needed to meet legislation
- Good management practices which are simple and will bring a combination of environmental and business benefits
- Investment measures which have a rapid payback

The task of working up the plan of action may involve testing the performance, cost and operational implications of an option. It may be wise to try out an idea before fully implementing it.

SET TARGETS

The purpose of setting targets is to provide clear benchmarks against which to measure the success of the programme. Typical targets are shown in the worked example forms. Some may seem modest. This is deliberate. Changing environmental practice takes is deliberate. Better to set targets which are achievable and which can provide real satisfaction once achieved, than to set over-ambitious targets which only lead to failure and staff demoralisation.

Making it happen



- PREPARE PERSONAL ACTION PLANS
 PROVIDE SUPPORT
 PUBLISH RESULTS
 SHOW LEADERSHIP
- This is the hardest part of all. Experience shows that successful implementation depends on four factors. The first three of these are discussed below. The fourth, reviewing progress, is the subject of the next section.

PREPARE PERSONAL ACTION PLANS

Staff need to be clear that responsibility for minimising waste, recycling materials, monitoring progress, and so on is part of their job, that they will be recognised if they carry out these responsibilities successfully, and noticed if they do not. The key to achieving this is to translate the overall action plan into personal action plans for staff detailing the specific and general actions expected of them. Examples of personal action plans are provided in **PART TWO** for key departments.

PROVIDE SUPPORT

Experience shows that when hotels are first tackling environmental issues there is a great deal of trial and error: ideas have to be refined, as better ways of doing things are uncovered, and it is clearer what is achievable with your resources. Provide support to staff with their action plans. This may take the form of an on-the-job training session for staff on energy and waste management practices, or the provision of technical information (e.g. on alternative cleaning materials

which can be used) or advice. The Champion will need to provide this ongoing support and keep up to date with environmental matters (see FURTHER HELP).

PUBLISH RESULTS

Staff want to know the results of their endeavours. Put up the results of monitoring on the staff notice board. Remember to congratulate success, and consider rewarding individuals or departments that have done well.

SHOW LEADERSHIP

Achieving staff commitment is an ongoing task—if enthusiasm is to be maintained, staff need to be constantly reminded of the objectives and targets which have been set. Show continued commitment and leadership. Demonstrate that you care, notice when action is being taken, and when not, and continually refresh enthusiasm in the challenge of going green. Good environmental practice needs to become part of the culture of management, like customer care.

The IHEI has prepared a booklet of communication tips for hotels entitled Striving for Excellence: Communicating Environmental Quality in The Hotel Industry (see FURTHER HELP for contact address).

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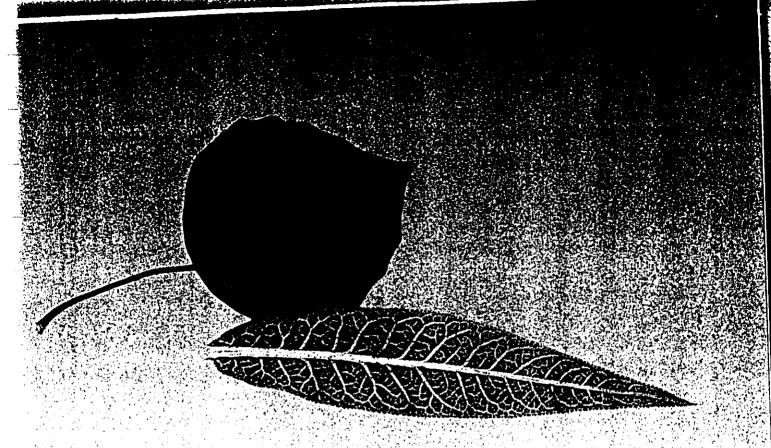
BEST PRACTICE TIP

KEEPING STAFF INFORMED OF PROGRESS

Many hotels put up energy and water consumption monitoring results on their staff notice boards. The monitoring results on their staff notice boards. The results for the current month are displayed in a simple graphic format and compared with the previous month and the same month in the previous year. Staff take a great interest and pride in these results.

EFFECTIVE UTILITIES METERING WILL PAY BACK VERY RAPIDLY

Some hotels have installed separate utility metering some hotels have installed separate utility metering for different parts of the hotel. This enables them to for different parts of the hotel. This enables them to for different wastage is better identify where energy or water wastage is occurring. Typically the costs of installing new meters occurring. Typically the costs of installing new meters will be met from utility cost savings in the first year.



THE PART OF SANS

This section presents the six main areas of environmental concern where you can take action.

It discusses the main issues facing hotels and provides guidance on reviewing current practice, preparing an action plan, setting targets and monitoring progress. Forms are included for you to photocopy and use in your own hotel, with examples of how the forms can help control an environmental management campaign.

SOLID WASTEpage 36 WATERpage 40 EFFLUENTS & EMISSIONSpage 44 CONTRACTORS & SUPPLIERSpage 48 BUSINESS ISSUESpage 52	ENERGYpage 32
e 44 e 44 e 48 e 52	e 32





ENERGY

THE ISSUE

Hotels use substantial amounts of energy in the form of heat and power. The main uses of energy generally are:

- 4 Heating, ventilation, and air conditioning
- Laundry and dry cleaning
- Lighting
- Facilities such as swimming pools
- Cooking and refrigeration
- Fuel for vehicles

This energy comes primarily from fossil fuels (coal, gas and oil), either burnt directly or used to generate the electricity which is imported from the grid. Burning fossil fuels is the principal contributor to global warming, acid rain, and other air pollution problems. By reducing energy use, your hotel can therefore achieve real environmental benefits. You can also make significant reductions in operating costs.

Studies have shown that most hotels use energy inefficiently, and can make real savings through better energy housekeeping practices and by investing in low-cost energy efficiency measures.

The following table, taken from the IHEI publication Environmental Management for Hotels: The Industry Guide to Best Practice (see FURTHER HELP), provides industry energy efficiency benchmarks. These should be used with caution as they may not be applicable to your circumstances.

ENERGY EFFICIENCY RATING IN HOTELS	ICY RATING	IN HOTELS	
KwH/m²/year	GOOD	FAIR	POOR
ELECTRICITY	<65	65-85	>85
FUEL, GAS	<185	185-220	>220
TOTAL	<250	250-305	>305

CONDUCTING THE REVIEW

The object is to understand how energy is used in the hotel and grounds, and where the best opportunities for savings exist. To fill out the Review Form on the facing page you will need to:

- Collect usage data, costs, and hotel occupancy statistics
- 2 Estimate how much of the total each department takes. Ultimately the only way to do this accurately is through the installation of submeters — you may decide to do this later
- Aldentify the main opportunities for saving energy and estimate the costs and savings that each is likely to achieve. We have given you a list of ideas and you and your staff will be aware of others. You may need to obtain technical literature and costings to do this task fully.

GOOD MANAGEMENT PRACTICE

| 网络加拉斯西班西班牙斯西班牙斯斯斯斯

NO-COST MEASURES

- Optimise temperature settings for space and water heating
- Check and adjust operating times of all energy equipment
- Check and adjust lighting levels
- Check cooker burners and review production practices
- Shut off equipment not required
- Stop simultaneous cooling and heating
- Shut off heating/cooling/lighting to unoccupied areas
- Reset guest-room temperature during housekeeping, and close/open curtains to reduce/ increase solar gain
- * Adjust settings to maximise efficiency seek technical advice if not available in-house

MEDIUM-TO-LOW-COST MEASURES

- ! Install better controls: sub meters, and real-time monitoring energy management system, timers, photoelectric cells, thermostatic radiator valves
- Fit pipe insulation and tank lagging
- Substitute transfucent shades in bedrooms
- Install energy-efficient light bulbs where lights are on for more than eight hours per day
- !nstall key switches in guest bedrooms
- Draft proof old doors and windows
- Operate heat recovery in laundry/swimming pool
- Replace old equipment with new more efficient plant, using renewable energy where cost-effective



Energy 550

PREPARED BY: FUEL TYPE PERIOD SLINA CONSUMPTION . Бозт MAIN USES EST. SPEND DATE: % SPEND CURRENT ACTION TO SAVE ENERGY NEXT REVIEW DATE: OPPORTUNITIES FOR SAVING ENERGY EST. COST EST. SAVINGS PER YEAR É

Energy Use

PREPARING THE ACTION PLAN

The form on the facing page provides a format for doing this. From the list of options identified, prioritise those which are easy to implement, and which are likely to be the most cost-effective. Some actions will be one-off actions (e.g. changing light bulbs to an energy-efficient kind), in which case a target date for achieving them should be set. Others will be on-going (e.g. switching off when equipment is not in use), and will require on-going monitoring. Some actions may require investment in new equipment — in which case a final decision may depend on a fuller technical and financial appraisal. Set clear responsibilities — project management and monitoring should be the responsibility of one person; everyone should be responsible for good housekeeping.

SETTING TARGETS AND MONITORING

Use last year's bills to set your targets, and do not be over-ambitious — look to achieve no more than say a 5% reduction year-on-year. Remember that seasonal fluctuations in external temperature and guest numbers will alter consumption. Use the Monitoring Form on pages 58–59 in Reviewing Progress



WHAT WE DID.

Office of the Munisted of State For Administrative Reform

Republic of Lebanon

Center for Public Sector Projects and Studies

(C.P.S.P.S.)

"Checking that all the refrigerator and freezer door seals were working properly cut down on the need to defrost as often (and probably saved us money)."

(Hotel in Thailand)

"After looking into the costs, we changed all our light bulbs, on an on-going basis, to low-energy bulbs. This cost us quite a bit initially, but they last 8-9 times longer, so overall it costs us less and cuts times longer, so overall it costs us less and cuts times longer, so overall it costs us less and cuts times longer, so overall it costs us less and cuts times longer, so overall it costs us less and cuts times longer.

"We looked into buying solar heating units. They paid for themselves through reduced bills in five years and now we have "free" hot water."

"The cost of putting automatic door closers on external doors and constructing a draught lobby was repaid in two years because of savings on our fuel bills."

"We installed a zone heating system which ensured coordination between rooms lettings and space heating and we had recouped our investment through energy savings in three years."

changed to coloured linen, instead of white, which allowed us to wash it at 60°C instead of 90°C."

Action Plan Form Energy

	Es constr	10 \$ 0,5 0 6	ACTUAL DATE
AVE IT CAMPAIGN	DS	20/12/95	20/12/95
PREPARE POSTER AND TRAINING MATERIAL	ALL	01/01/96	06/01/96
STAFF TRAINING SESSION	DS	05/01/96	06/01/96
ACTIVATE CAMPAIGN	DS	05/01/96	
MONTHLY MONITORING RESULTS PUBLISHED			
INSTALL ENERGY-EFFICIENT LIGHTS IN HALLWAYS/CORRIDORS	1		0.1/0.1/0/
RESEARCH OPTIONS	FR	JAN	21/01/96
PILOT INSTALLATION ON TOP LANDING	FR	FEB	20/03/96
REVIEW PILOT RESULTS	FR	MAR	01/04/96
INSTALL THROUGHOUT	FR	AFRIL	الراز المارات
REVIEW IMPACT ON ENERGY CONSUMPTION			
INSTALL KEY SWITCHES IN ROOMS	FR	FEB	
RESCARCH OPTIONS	R	fire	
PREFARED COSTED PROPOSALS	FR	MRCH	
CARRY OUT WORK	FR	MARCH	
REVIEW IMPACT ON COMSUMPTION			
WEEKLY MONITORING	FR		
			:
			ENT REVIEW DATE
PREPARED 1		er '95	December "

SOLID WASTE

THE ISSUE

Most hotels dispose of large quantities of solid waste. This normally includes:

- Bottles, cans and jars
- Kitchen and garden waste
- Old furniture and equipment
- Potentially hazardous wastes such as asbestos, old paint tins, solvents, etc.

Solid waste is a huge environmental issue worldwide. Waste impacts on the environment, both because it takes energy and materials to produce in the first place, and because it leads to pollution problems when and because it leads to pollution problems when disposed of to landfills, incinerators, etc. or simply dumped illegally. If, in your locality, waste is being dumped (for instance in the sea), this may well be damaging to the image of your neighbourhood and lose you business. In many countries producers of waste have a legal "duty of care" to ensure that the waste is safely disposed of. Breach of this duty may lead to fines and heavy clean-up costs. Does this apply in your

The challenge for hotels is to reduce to a minimum materials used in the first place, to recycle and reuse waste materials where practical, and to safely dispose of residual wastes.

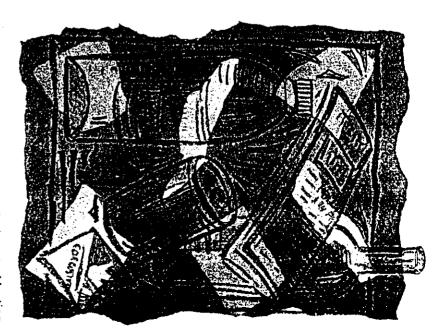
These waste management principles might also make sound business sense. All waste costs money — to buy the materials in the first place, and often to dispose of. For this reason hotels are normally careful to reduce waste to a minimum. But experience shows that

improvement opportunities always exist and that significant savings are not hard to achieve through simple good practice measures.

CONDUCTING THE REVIEW

The Review of Solid Waste form on the facing page shows the kind of information you will need to collect to review what waste is generated by your hotel, and to seek ways to improve waste management. The steps you need to undertake are as follows. First list the items you dispose of, the disposal method and cost, and estimate the yearly quantities involved. If you do not already have one, draw up a list of the hazardous substances you use — establish this as a separate register. Secondly identify for each item whether it is possible to:

- ⇒ Reduce the amount used: Is it a necessary item (especially think about this if it is hazardous)? Can the order amounts be reduced? Can more efficient use of it be made?
- Re-use all or some of it. If so, for what purpose? If not, could the item specification be changed so that it can be reused for instance by switching to refillable cosmetics bottles in guest rooms, or to reusable transit packaging.
- Recycle it: Is there someone willing to buy the product? Are you generating the waste in sufficient quantities to make it worthwhile? Can you join forces with other hotels and businesses in your area to pool recyclable products? Can the waste item be sorted and stored on site pending collection? If the product is non-recyclable, could you purchase a recyclable variety?



More safely dispose of the residual waste: Meeting legislation must be the first goal. Check the law, especially on disposal of your hazardous wastes. Take action promptly.

Examples of good waste management practices are shown on this page.

Finally, work out how much money could be saved by carrying out the most practical options. These savings can come from:

- Ordering less originally
- Lower disposal costs
- Revenue from sale of waste materials.

CURRENT CURRENT CURRENT CURRENT CURRENT CURRENT CURRENT COSTS & COSTS	96	December '96	December '95	XAMPLE		mpion	Fred Champion
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PREPARED BY:		WASTETIEM		
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			CURRENT DISPOSAL COSTS £	
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	EW DATE:		ACTION £	Weiv Weiv
			SAVINGS £	OF CONTROL OF THE STIMATED YEARLY

WHAT WE DID. . . !

"When we revised our purchasing and started sorting our waste for recycling, we reduced the amount of our non-reusable waste by 50% and saved on the cost of refuse collection." (Swedish hotel)

"Our small hotel (26 bedrooms) collected all the aluminium cans used and sold them for a small used to be decided the sold them for a small used to be decided the sold them for a small used to be decided to be decided the sold them for a small used to be decided the sold them for a small used to be decided the sold them for a small used to be decided the sold them for a small used to be decided the sold them for a small used to be decided the sold them for a small used to be decided the sold them for a small used to be decided the sold them for a small used to be decided to

"Gruest room laundry bags —
previously plastic and disposable
— are now made from old
sheets and reusable."

"When guest towels and sheets are damaged, we cut them up to use as cleaning cloths."

"One unexpected benefit of recycling is that we keep finding valuable items which have accidentally been thrown out—particularly restaurant cutlery."

PREPARING THE ACTION PLAN

The Solid Waste Action Plan Form illustrates how to put together a plan. Prioritise one or two actions which are easy to implement and will bring real benefits. A "NO WASTE" campaign will help to introduce a culture of waste minimisation into the business if properly handled. However, the actions which staff are being expected to take need to be clearly stated if the campaign is to work, and be measurable. An example of how to do this is shown in the Action Plan. The steps needed to implement an action need to be thought through carefully. Remember to allocate responsibilities clearly, including those for monitoring.

SETTING TARGETS AND MONITORING

Progress should be monitored both on one-off actions and for ongoing actions. You need to define key monitoring checks which are crucial to success for each action, as well as how often it needs doing initially it may be useful to monitor more frequently (say weekly). Thereafter monthly checks may be enough. The checks should be carried out by the champion Corrective action should be taken as necessary and recorded. The Monitoring Form is on pages 60–61 in Reviewing Progress

GOOD PRACTICE MEASURES

- * Introduce a "NO WASTE" campaign provide training and install posters throughout the hotel (kitchen, housekeeping front office, sales and administration areas) providing guidance on correct action
- Introduce scheme for sorting, storage and recycling glass, aluminium, steel, paper, card and plastic wastes where possible
- Adjust order quantities so that wastage is reduced
- Use reusable and/or natural materials (e.g. for transit packaging for food, beverage, etc.)
- Re-use worn towels, sheets, etc. for cloths, laundry bags, and aprons
- Reduce paper use through double-sided photocopying, re-use of scrap paper, avoiding unnecessary paperwork, etc.
- ** Keep register of all hazardous substances used (including bleaches, cleaners, acids, pesticides/ insecticides, solvents, wood preservatives, adhesives, oils/fuels) and provide guidance to staff on use and disposal
- Sell back partially used soaps to manufacturer or give to charities for making candles
- Phase-out use of hazardous materials where possible
- Use reusable food containers, cleaner containers, etc.
- !nstall compactor to reduce volume of waste
- Compost or sell organic wastes
- Use cloth/canvas bags for laundry, etc.
- Collect and recycle motor oil



Fred Champion

Solid Waste

GUALS TASKS	MCHW 79	TAFGET DATE	· · · · · · · · · · · · · · · · · · ·
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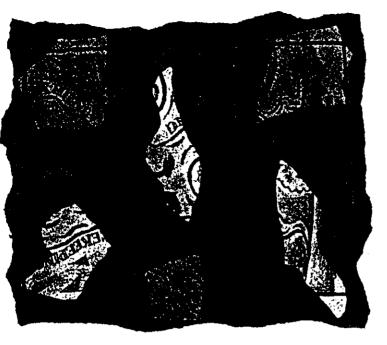
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WATER

THE ISSUE

Hotels can consume large quantities of water — from 60-220 m³ (cubic metres) per bedroom per year, depending on the facilities provided, and whether good conservation practices are in place. The main uses are:

- Guest usage for washing
- Housekeeping



- Cooking
- : Laundry
- Watering gardens and plants
- Swimming pools

Water is a scarce resource in many parts of the world—and tourism-related uses can critically affect supply for other local needs, such as agriculture. Water conservation and protection of freshwater quality are very important environmental goals in these locations. Does this apply in your region?

Hotels often give little thought to conserving water supplies. Yet water costs money, and conserving it properly can bring real savings, as well as environmental benefits. The table below provides an industry benchmark for water usage. It is taken from IHEI guide Environmental Management for Hotels: The Industry Guide to Best Practice (see FURTHER HELP on page 60).

(These figures — showing hotels without in-house I used with caution as the figures are in cubic metri	50+ bed hotels	4-50 bed hotels	m³/bed/year	WATER USAGE EFFICIENCY RATING IN HOTELS
typical water us laundry facilities y may not be app es. A cubic metre	<160	<120	GOOD	FFICIENCY !
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	(These figures — showing typical water usage figures, per bedroom, for hotels without in-house learndry facilities and a swimming pool — should be used with caution as they may not be applicable to your circumstances. The used with caution as they may not be applicable to your circumstances. The figures are in cubic metres. A cubic metre represents about five full baths.)	50+ bed hotels <160 160-185 >185 (These figures — showing typical water usage figures, per bedroom, for hotels without in-house learnedy facilities and a swimming pool — should be hotels with caution as they may not be applicable to your circumstances. The used with caution as they may not be applicable to your circumstances. The figures are in cubic metres. A cubic metre represents about five full baths.)	4–50 bed hotels <120 120–140 >140 50+ bed hotels <160 160–185 >185 finese figures — showing typical water usage figures, per bedroom, for hotels without in-house learndry facilities and a swimming pool — should be used with cardion as they may not be applicable to your circumstances. The used with cardion as they may not be applicable to your circumstances. The used with cardion as they may not be applicable to your circumstances. The	m³/bed/year GOOD FAIR POOR 4-50 bed hotels <120 120-140 >140 50+ bed hotels <160 160-185 >185 finese figures — showing typical water usage figures, per bediroom, for used with caution as they may not be applicable to your circumstances. The used with caution as they may not be applicable to your circumstances. The used with caution as they may not be applicable to your circumstances. The used with caution as they may not be applicable to your circumstances. The used with caution as they may not be applicable to your circumstances. The

CONDUCTING THE REVIEW

The first step is to audit how water is currently used, and to establish what the significant opportunities are for making savings. The overlay and Review Form on the facing page show a worked up example of how to do this. To fill out this table you will need to:

- Collect historical usage data, costs, utility contracts, hotel occupancy statistics, equipment specifications
- ☼ Estimate how much of the total each major enduse takes. Ultimately the only way to do this accurately is by installing sub-meters you may decide to do this later
- estimate the costs and potential savings of estimate the costs and potential savings of implementing them. There is a list of ideas shown and you and your staff will be aware of other options. Think about the ideas to reduce usage: by guests (without reducing convenience); by housekeepers (who can account for 30% of total use); in kitchens for cooking and washing; for special facilities such as swimming pool, laundries, and garden watering; from leaks.

		EXAMPLE	E	iampion	2
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<u> </u>	FLOW RESTRUTORS BUCKETS FOR CLEANING	Nove	32	2,200	GNEST ROOMS
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PREPARING A PLAN OF ACTION

The form on the facing page will help you set out tasks, responsibilities, and timetable for action. From the list of options identified in the review, prioritise those which are easy to implement, and which are likely to be the most cost-effective. Some actions will be one off actions, in which case a target date for achieving them should be set. Others will be on-going, and will require long-term on-going monitoring. Some actions may require investment — in which case a final decision will require a fuller technical and financial appraisal. Set clear responsibilities — project management and monitoring should be the responsibility of one person. Everyone should be responsible for good housekeeping.

SETTING TARGETS AND MONITORING

Regular monitoring is essential to success. Use the Monitoring Form provided on pages 58–59 in Reviewing Progress. This will enable corrective action to be taken if there is a major deviation in water use due to a leak, etc. Use last year's consumption to set your targets. Be realistic. Attempt no more than 10% reduction on last year's consumption. You will be pleasantly surprised at what you achieve.

DID YOU KNOW . . . ?

A dripping tap can waste up to 36,000 litres of water each year, the equivalent of filling around 180 baths.

WHAT WE DID. .

"The Royal Princess Hotel in Bangkok installed flow restrictors in piping to all gyest bedrooms, greatly reducing consumption of water for washing and cleaning at no inconvenience to gyests, and saved several times the installation cost in the first year".

Mour golf course now has wild flowers planted in certain flowers planted in certain areas instead of bedding plants. This creates a more plants. This creates a more plants environment which natural environment.

GOOD MANAGEMENT PRACTICES

建设国际政策的现在分词的现在分词的现在分词形式

- Use bowls/buckets for washing/cleaning don't leave the tap running
- Reduce flow/hours of garden watering
- Ensure full laundry/dishwasher loads
- Give guests the option of changing linen and towels say every 3 days
- Check system for leaks
- Install spray taps/flow restrictors
- Put water-filled bottles in cisterns to reduce flush volume
- Install water meters on key uses
- Recover waste water from rinse cycles/dry cleaning cooling cycle for reuse (e.g. for garden watering, flushing)
- Collect rainwater from roof for watering.

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devices (aerators) to our shower heads. This maintained the force of the shower but reduced the volume of water used by 30%."

(Hotel in Italy)

"We installed steam guards in the hotel laundry. This was expensive, but has cut the operating cost of our laundry by over half."



Action Plan Form Water Usage

ACTUAL DATE

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SAVE IT CAMPAIGN	***	20112105	20/12/95
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RESEARCH OPTIONS	FR	JAN	31/01/96
PILOT INSTALLATION IN 3 BEDROOMS	FR	FLB	06/02/96
REVIEW PILOT RESULTS	FR	MAR	20/03/96
INSTALL THROUGHOUT	FR	AFRE	01/04/96
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December '95

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EFFLUENTS & EMISSIONS

THE ISSUE

This section focuses on releases (to land, water, or air) of liquid or gaseous substances which are potentially a hazard to health or bad for the general environment. The main sources of such emissions and effluents in hotels include:

- Discharges of untreated sewage to fresh or sea water sources
- Emissions from fossil fuel boilers
- Discharges of hazardous chemicals down the drain
- Vehicle emissions
- CFCs from refrigeration and air-conditioning systems
- Spills of fuels or hazardous chemicals to land or water
- Odours from kitchens and laundries
- Noise from discotheques or vehicles at night

In many parts of the world pollutant discharges are strictly controlled by law. Failure to comply with legislation can lead to fines, and lost reputation. However, even where no controls exist, it often pays to minimise emissions and safely dispose of hazardous inquids and gases — it can result in lower usage of materials, and will protect your reputation and, most importantly, the local environment which your guests have been attracted to visit. If water pollution resulting from the discharge of untreated effluent is a big issue in your locality and threatening the long-term viability

of your business, you may decide to start to tackle this problem early on. Investment in sewage treatment facilities is a big step—but it may be one you wish to take with other polluters and public agencies.

Note that this manual does not cover health and safety issues. However, your review should identify where accidental discharges of pollutants might cause a health risk.

A list of typical measures taken by hotels in this area is provided in the table (right).

CONDUCTING THE REVIEW

The Review of Effluents and Emissions form on the facing page illustrates the information which needs to be collected. The review needs to:

- !dentify the sources, types and, if readily available, quantities of current emissions and discharges
- Establish whether necessary authorisations exist
- List any hazardous substances used or stored by the hotel, which have the potential to cause harm if accidentally discharged (this issue is also a waste disposal issue — see WASTE above)
- Identify the key options for reducing current discharges or the risk of accidental discharges to the environment, and assess the costs and benefits of implementing these
- 3 In the absence of local treatment, identify options for dealing with untreated effluents from the hotel.

GOOD MANAGEMENT PRACTICES

LOW-COST

- Establish procedures for monitoring spills/leakage of hazardous chemicals, especially fuels in underground tanks
- Monitor quality of untreated water before discharge
- Ensure that CFCs are recovered from discarded equipment
- Review potential sources of noise pollution and take appropriate action
- Switch to lead-free petrol
- Prepare an asbestos management plan covering removal, encapsulation, enclosure.

INVESTMENT MEASURES

- Install activated carbon filters to kitchen extractors
- Replace chlorine bleach in swimming pools with a non-toxic ionisation process
- Install pump-down containers to enable maintenance of air-conditioning equipment without venting to the atmosphere
- Replace refrigerant gases with less ozonedepleting types
- Replace halon fire extinguishers
- Install leak detection equipment on existing fuel tanks
- Ensure new fuel storage tanks are constructed to a high safety specification (e.g. double skinned)
- Install water treatment facility
- Purchase vehicles with catalysts.

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Review of

PREPARING THE ACTION PLAN

The Action Plan form shown on the facing page provides an illustrative action plan. The main objectives of action on effluents and emissions should be to:

- Ensure that all effluents and emissions are in compliance with regulations
- 1 Introduce proper procedures for the monitoring and control of emissions
- Reduce effluents and emissions to a practical minimum by phasing out the use of hazardous substances, substituting technologies, filtration, establishing proper procedures for the storage, use and disposal of hazardous substances
- Install effluent treatment facilities where no general sewerage treatment is available
- ☼ Install equipment/measures to reduce emissions where these are harmful to the environment or cause a nuisance to guests and neighbours.

SETTING TARGETS AND MONITORING

Good practice in controlling effluents and emissions depends upon effective ongoing-monitoring following the taking of action. The form that this monitoring needs to take will depend on the measures implemented. It may be checking that new procedures are being followed, or checking purchase orders (e.g. to see how much CFC is being used during maintenance). The relevant form is on pages 60–61 in Reviewing Progress

WHAT WE DID. .

The Royal Orchid Sheraton Hotel in Bangkok invested to modernise its waste water treatment unit, which discharges into the highly polluted unit, which discharges into the highly polluted that Phraya river. The new facility was expensive but now enables all waste water to be treated but now enables all waste water to be treated before discharge. The hotel believes the investment has given it a positive image, and will investment has given it a positive image, and will contribute to business success in the future.

"We found that making bedrooms no-smoking areas cut down on the amount of cleaning necessary."

"We changed to a non-toxic, biodegradable, multi-purpose cleaner/disinfectant. It was as good in cleaning and rinsing; could be used in cold water (energy conservation); and was price-competitive as it could be diluted for use." (160-bedroom unit)

"Our hotel receptionists promoted local bus services to guests to reduce car pollution. There was no cost involved and the holidaymakers appreciated the here holidaymakers experience!"



Effluents & Emissions

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ONLY USE NON-CHLORINE BLEACHES		30/01/95	07/02/95
RESEARCH OPTIONS	SH	15/01/95	25/02/95
TEST IN LAUNDRY AND DRY CLEANING	LAUNDRY	28/02/95	27/02/95
DECISION	SH	15/03/95	28/02/95
Order Stocks	DS.	13/0///	
INSTALL PUMPDOWN CONTAINER	SH	20/01/95	
DISCUSS WITH ENGINEER	DS	05/02/95	
DESIGN INSTALLATION	DS	28/02/95	<u> </u>
OBTAIN ESTIMATES	ENGINEER	15/03/95	
INSTALL	SH	20/03/95	
REVISE MAINTENANCE PROCEDURES	SH		
MONITOR CONSUMPTION AT EACH SERVICE			
SWITCH TO ORGANIC FERTILISERS	SH	20/01/95	
RESEARCH ALTERNATIVES	PS	2.0/03/95	
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Effluents & Emissions

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CONTRACTORS & SUPPLIERS

THE ISSUE

The products which your hotel buys have environmental effects associated with their manufacture, distribution, use and disposal. Similarly, there are environmental impacts associated with the activities that the contractors you use conduct for you. There are often improvements which can be made to products and services which can bring environmental and business benefits. As the buyer of these products and services, you are in a position to make environmental improvements. Supplier and contractor target areas in your hotel include:

- Cleaning and laundry
- Food and beverage
- : Equipment and vehicles
- Office supplies (e.g. stationery)
- Furniture and bedding
- Cosmetics in guest bathrooms

A successful environmental purchasing policy achieves improvements in environmental performance, without sacrificing other performance criteria, or incurring significant extra costs. Changing your purchasing practices in certain areas which are highly visible to guests (e.g. stationery, cosmetics, and bed linen), can also bring you marketing benefits.

This is one of the main opportunities to demonstrate your environmental good practice to guests — many will recognise and respect your efforts. Informing your suppliers of your environmental concerns will

encourage them to find environmentally friendlier alternatives, and so extend the benefits of your initiative up the supply chain. Nonetheless it may be unwise to focus on these high-profile improvements until you have achieved more fundamental improvements in your own waste management and energy use.

CONDUCTING THE REVIEW

Your hotel purchases hundreds of different products. There will be little of environmental significance that can be done about many of these. The aims of the review should be to identify

Major purchases (e.g. cleaning materials, food and beverage) what you can achieve relating to:

Purchases which are highly visible to guests (stationery and printed material, towelling and linen, bathroom cosmetics)

Do not attempt to research the performance and cost of alternatives at this stage. The form on the facing page and the overlay illustrate the approach. In looking at alternatives, remember the following basic principles of good environmental purchasing:

- Avoid products made with, or containing environmentally harmful materials
- Buy in bulk only what you really need

- Avoid over-packaged goods
- Buy good quality repairable goods
- Buy locally produced goods
- Buy energy-efficient equipment
- Buy recycled and recyclable products
- Consider renting instead of buying



		EXAMPLE		1700
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SPECIFY MATERIALS IN CONTRACT TERMS	2,000	HOTWASH LTD.	USE OF BLEACHES, DETERGENTS ETC.	LAUNDRY SERVICE
RETURNABLE BOTTLES	1,300	SOFTERERS LITE	NON-RECYCLABLE CANS	MINIBAR DRINKS
SERVE IN REUSABLE CRUETS	870	SPREADIT LTD.	Minu-PACKA CANCA	BREAKFAST
SWITCH TO RECYCLED	650	ACAN LTD	NOT RECYCLED	HOTEL BROCHURES
BUY PHOSPHATE FREE	900	CLT SAKTARE TLD	PHOSPHATES	CLEANING LIQUID
SMITCH TO RECYCLED PAPER	400	PAPERMATER LTD.	NOT RECYCLED	LETTERHEAD PAPER
SWITCH TO RECYCLED PAPER	350	PAPERMAKER LTD.	CHLORINE BLEACHING	PHOTOCOPY PAPER
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WHAT WE DID. .

The extra expense we spent on changing to biodegradable toiletries was more than offset by the savings we made on water and electricity bills."

"We looked around for energy-efficient appliances when we were refitting our kirchens. The cost of buying the more technically advanced equipment was less than the energy saved in the first year of use."

"Dry cleaned shirts and uniforms are no longer wrapped in disposable plastic but reusable covers. All hangers are returned to the dry cleaners."

"We helped our paper supplier test out the different types of recycled paper and now he finds lots of other businesses are changing too."

PREPARING THE ACTION PLAN

Changing your purchasing practices is not easy to achieve and will take time to put in place. Do not attempt to change many purchase areas at once. Rank your priorities and tackle them one at a time. For each product or service that you address you will need to go through the same process of:

- n Informing your supplier of your desire to improve the environmental quality of the product line, and asking him whether he is able to supply a suitable alternative at a similar cost
- Researching other alternatives available
- Obtaining samples of the products and testing them to see whether they perform as well as the original on all criteria
- Deciding on your preferred product, and ordering.

Don't order reams of recycled photocopying paper until you have tested it on your photocopier!

SETTING TARGETS AND MONITORING

Improving your purchasing practices is a process of continuous improvement. Next year a new, better performing substitute may become available locally. It is as important to keep abreast of developments in the market for environmentally friendly goods and the market for environmentally friendly goods and services, as it is to monitor progress being made within services, as it is to monitor progress being made within services. You may find it useful to start a file to keep information on suppliers of alternatives. The Monitoring Form is on pages 60–61 in Reviewing

GOOD PRACTICE IN PURCHASING

- Use non-phosphate, fully biodegradable detergents
- Change to oxygen bleaches
- Purchase less packaged alternatives
- Purchase fresh food where possible
- n purchase non-disposable napkins, cups, cosmetics
- Buy drinks in returnable bottles
- Buy organic fertilisers, and biocides
- Avoid CFC aerosols
- Avoid furniture made with tropical hardwoods
- Avoid net-fished tuna
- Avoid oil-based paints
- Use rechargeable batteries
- Buy vehicles with catalysts and low fuel consumption
- Check the power consumption of electrical goods before choosing which to buy.

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LAUNDRY SERVICES MEETING WITH LAUNDRY TO DISCUSS NEEDS RESEARCH INTO OPTIONS/COSTS AGREE WAY FORWARD WRITE INTO CONTRACT		15/03/9: APRIL MAY JUNE	5
SWITCH TO RECYCLED PAPER OBTAIN SAMPLES OF OPTIONS/COSTS TEST PREFERRED OPTIONS IF SUCCESSFUL, CHANGE ORDER		05/02/9 FEBRUAK 05/05/9	Y
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Contractors & Suppliers

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BUSINESS ISSUES

THE ISSUE

It is important that your initiative achieves environmental improvements which bring business returns in the short or longer term. The initiative should take you into the top right hand corner of the diagram below. The environmental action areas discussed above can all help do this by bringing operational savings, improved risk management and so on. However, there may be wider business benefits to be derived from your initiative in terms of:

- if you are located in an area of outstanding natural beauty which tends to attract environmentally aware visitors, you may benefit more than expected from a high-profile environmental policy
- **Trading relationships with tour operators, etc.: an association with a travel agency or tour operator who has introduced an environmental policy and may be giving preference to suppliers, like your hotel, who are themselves demonstrating environmental good practice
- BUSINESS BENEFITS

 ENVIRONMENTAL BENEFITS

- Corporate reputation in the community: past fines for non-compliance with environmental legislation may be damaging your hotel's reputation in the community, and prospects for future expansion
- Staff retention and motivation: members of your staff may be more aware of these issues than you might think, and may become highly motivated to participate.

This section helps you to identify some of these potential benefits and to plan and take action to realise them.

CONDUCTING A REVIEW

You need to focus the review on each question in the Green Health Checklist on the facing page to which the answer was YES, prioritising those issues which you feel are the most important. The review should involve:

- customers/tour operators/etc. as appropriate. You customers/tour operators/etc. as appropriate. You can treat this research as a marketing exercise. When you are next talking to one of the tour operators which send you guests, mention that you are "going green", then ask them what they are planning to do in this area whether they are planning to do in this area whether they under the WTTC's Green Globe scheme. Similarly if under the WTTC's Green Globe scheme. Similarly if you are seeking customer opinions you can use a questionnaire, such as the one on page 54.
- Defining the practical and cost-effective options for taking action to meet these expectations. A list of typical actions which other hotels have successfully taken is provided below.

GOOD PRACTICE MEASURES

CUSTOMERS

- Offer the option of only renewing towels dropped on the floor
- Offer the option of only changing bedclothes on alternate days
- Provide a vegetarian alternative on all menus
- Put a framed copy of the hotel's environmental policy in reception
- Provide advice about the local environment—water quality for drinking, bathing, and how to protect it as a tourist
- Hang pictures of local beauty spots and flora and fauna

TRADING PARTNERS

- ? Inform them of your environmental policy
- Suggest that they advertise your environmental policy in brochures

THE COMMUNITY

- Become involved in local initiatives to protect the environment
- Sponsor local environmental projects e.g. participate in clean-up campaigns
- Participate in local environmental events
- Send a press release to the local media about you environmental initiatives



Review of Business Issues

YES / NO

Are environmental problems threatening the future of the local tourism industry?

Are you associated with a carrier or tour operator who is taking environmental action, and may expect you to in the future?

Are your guests environmentally concerned?

Are members of your staff concerned about the environment?

Would a good environmental reputation improve the hotel's standing in the community?

Are you planning to apply for permission to extend an existing hotel or build a new one?

Are your direct competitors taking environmental action?

Have there been any complaints about poor environmental practices at the hotel?

Would your business benefit from a recognised award scheme?

Has the hotel been fined or cautioned by the pollution enforcement authorities for a breach of legislation?

NUMBER OF YES'S

PREPARED BY:

Fred Champion

DATE:

December '95

NEXT REVIEW DATE:

December '96

PREPARING AN ACTION PLAN

The form on the facing page will help you to plan action in this area. Experience shows that in the early days the focus of your actions should be on making operational improvements. At the same time, however, you should be sure that the potential marketing and publicity be sure that the potential marketing and publicity be enefits of your efforts are realised. But beware of the pitfalls. Great care should be taken not to make false pitfalls. Great care should be taken not to make false initiative in the early days be modest and strictly factual initiative in the early days be modest and strictly days be modest and strictly factual initiative in the early days be not the early days be not to make false in the early d

MONITORING

Monitoring in this area is about keeping in touch:

- Be aware of how the views and expectations of your customers, trading partners, and the community are developing with time
- Make sure that the initiatives that you have taken are well thought out, and respond promptly and effectively to questions and negative feedback.

Dear Guest

In this hotel, we are committed to protecting the environment, whilst providing you with a top quality service. We are already taking a number of actions to have water and energy, and to reduce waste, and are looking to make further improvements. To do this we would be grateful for your views and suggestions:

PLEASE TICK BOX	XES	<u>8</u>
 Do you prefer to stay in a hotel which is environmentally conscious? 	C	C
 Are you concerned about the quality of the local water or air? 	C	⊏
· Would you like the option to:		
 have your bed linen changed, say every two to three days (to save energy and water)? 	C	С
- not have your tolletries renewed every day?	O	□
have the heating/air conditioning left off when you are not in the room?	C	
 Would you like advice and information about the local environment, and how to help protect it? 	C	C
 Are there other actions which you feel the hotel should be taking to protect the environment? 	C	С

Please add other comments or suggestions on the reverse side of this letter. If you would like to discuss any issues please contact Fred Unseit, our hotel's 'environmental champion'.

We thank you for your co-operation.

Action Plan Form Business Issues

ALK S	ву wном	TARGET DATE	ACMAR DAN
RESEARCH GUEST EXPECTATIONS PREPARE GUEST QUESTIONNAIRE DISCUSS OPTIONS WITH SELECTED GUESTS REVIEW RESULTS AND DECIDE WAY FORWARD		30/01/95 FEBRUARY 2B/02/95	20/02/95 25/02/95 27/02/95
STAFF SUGGESTION SCHEME HOLD MEETING TO INTRODUCE SCHEME REVIEW SUGGESTIONS IMPLEMENT BEST IDEAS AND REWARD STAFF RENEW SCHEME ON THREE-MONTHLY BASIS		10/02/95 15/03/95 20/03/95	
PREE GUEST COLLECTION FROM STATION INFORM TRAVEL AGENTS OF SERVICE MODIFY BROCHURE AS REQUIRED INTRODUCE SERVICE REVIEW SUCCESS		FLBRUMRY AFRIL FEBRUARY DECEMBER	
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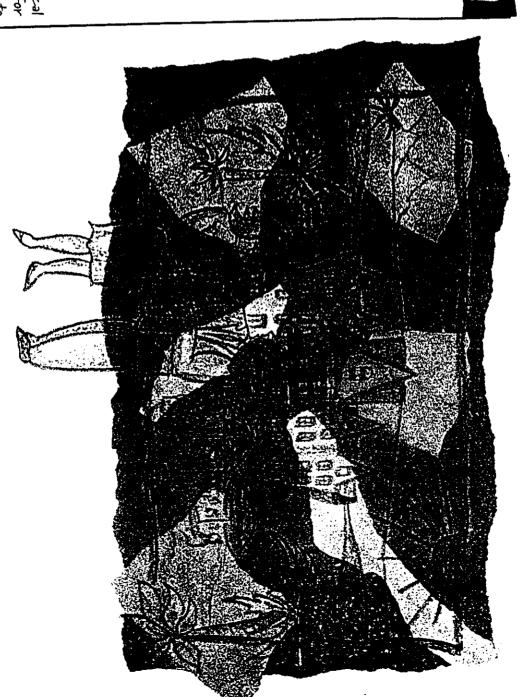
WHAT WE DID. . .

"Our staff started savingstamps from all mail and sent them to a local charity to help in their fund-raising campaign.

"We made up a "Green Ideas" box which we kept in the lobby area for staff and guests."

information on our environmental information on our environmental programme. This encouraged them programme. This encouraged them to participate in switching off lights, re-using their towels and lights, re-using their towels and generally wasting less." (Hotel in stockholm, Sweden)

"We have joined with other local businesses to lobby the government for a new sewage treatment plant to protect the sea from pollution".



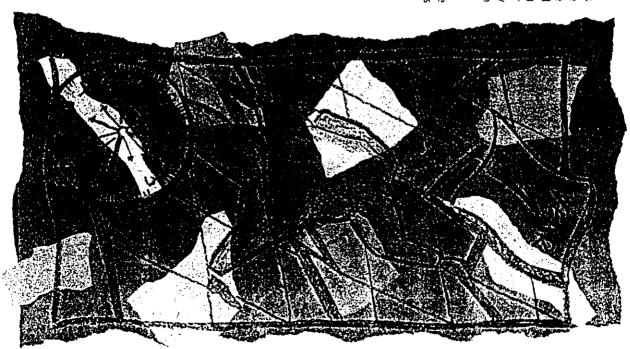
Reviewing progress

"You cannot manage what you do not measure", as the old saying goes.

Use the forms on the following pages as part of your monitoring procedures to ensure that your plan is working and achieving its objectives.

Monitoring should be regular — how regular depends on the subject being monitored. But it should be sufficiently frequent to enable corrective action to be taken if there is a major change from targeted performance (due, for instance, to a thermostat setting being changed accidentally). Energy and water consumption should be monitored on at least a weekly basis. This need not take a member of staff more than 10 minutes a week.

Use the forms and the worked-up examples on the following pages. You will need to photocopy the forms and then fill in the title for the relevant action area.



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Fred Champion

DATE.

MEXT REVIEW DATE: December '96

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EXAMPLE Acomber '95

PREVIOUS CONSUMPTION FOR PERIOD

5,616

TOTAL EXPENDITURE

\$ 5,000

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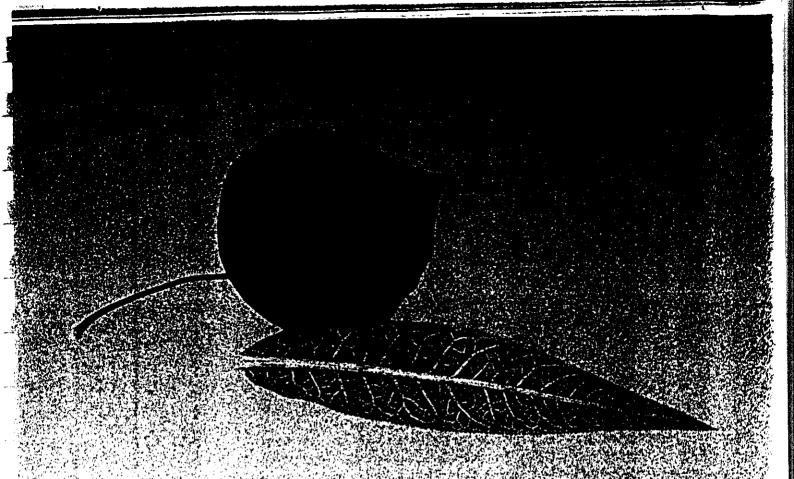
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c/o The Prince of Wales Business Leaders Forum International Hotels Environment Initiative 5 Cleveland Place, St. James's London SW1Y 6JJ <u>_</u>

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specifically aimed at the hotel industry. publishes a number of guides and education materials The International Hotels Environment Initiative

- Environmental Management for Hotels: the industry guide to best practice
- Striving for Excellence: Communicating **Environmental Quality in the Hotel Industry**
- Green Innovations: International Directory of **Environmental Resources for Hotels**
- Going Green Makes Cents: environmental management video for managers
- Green Hotelier: the magazine of the International **Hotels Environment Initiative**



Republic of Lebanon

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Fax: (33 1) 47 00 64 55

Publications available from IHA:

Pollution Solutions (1995)

Energy Savers (1992

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UNEP IE

Tel.: (33 1) 44 37 14 50 The United Nations Environment Programme Tour Mirabeau, 39–43 quai André Citroën, 75739 Paris, Cedex 15, France 4 37 14 50 Fax: (33 1) 44 37 14 74 Industry and Environmen

transfer and the implementation of practices to safeguard the environment through promoting action and information exchange backed by regular access to practical information and developing on-site awareness and interaction, training and diagnostic UNEP / IE carries out a clearing house function, providing follow-up assessment. It also facilitates technology

Some recent UNEP / IE publications

- Environmental Codes of Conduct for Tourism (TR 29) ISBN 92 807 1470 (1995)
- Partnerships for Sustainable Development the of Wales Business Leaders Forum/Tufts University publication ISBN 18 991 5900 (1994) Role of Business and Industry, a joint UNEP/Prince
- Company Environmental Reporting (TR 24) ISBN 92 807 1413 9 (1994)
- Industry & Environment Quarterly Review, Sustainable Tourism Development Vol. 15, No. 3/4
- From Regulations to Industry Compliance, Building Institutional Capacities (TR 11) ISBN 92 807 1342 X
- Guidelines: Development of Parks and Protected Areas for Tourism, a joint UNEP/World Tourism Organisation publication (TR 13) ISBN 92 844 0026 0
- Companies' Organisation and Public Communication on Environmental Issues (TR 6) ISBN 92 807 1304 3

