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CATERING

Allwinkle S McDonell K	1990	An investigation into thermally induced health hazards in hotel kitchens	Indoor Air'90 Quality and Climate Inc Toronto	Conference			July-August	v1 p725-730	
Anon	1984	Low energy canteen	VVS och Energi Sweden	Journal	Swedish			n2 p26-27	
Anon	1985	Energy management: focus on food and drink	Energy Management Focus	Journal			Issue 2		Supplement on food and drink.
Anon	1987	Energy conservation in catering	Energy Digest	Journal		0367-1119		v16 n1 p6-10	
Anon	1988	More caterers choose gas	Hotel and Catering Review	Journal			May	p14-17	
Anon	1988	Advances in gas cooking technology into the 90s	Restaurants and Institutions	Journal			July 8	p191-206	Update on modern catering equipment.
Anon	1988	Cold top platform	Sonnen energie solaire	Journal	German			v15 n6 p29-31	In inductive cooking, the cooking surface remains generally cold. An electromagnetic alternating field induces heat-producing electric power in the metal surface of the pan. Compared with conventional cooking it saves energy and time.
Anon	1989	Energy efficiency in licensed and catering premises	IMechE Seminar	Conference			May 17		
Anon	1992	Saving energy is common sense	Northern Hotel and Restaurant	Journal			Jan 13		A caterer uses six times the energy used by a domestic cook for the same meal. 20% of energy costs could be saved by changing catering practices. Lists do's and don'ts to save energy. Surveys briefly some catering appliances.
Anon	1995	New options on energy saving	Catering Update				June		Traditionally, catering kitchens have been profligate wasters of energy. But deregulation of supply has started to focus attention on innovative ways of getting greater value-for-money from electricity and gas.
Anon	1995	Economy reliability and cost attract caterers to gas	Hotel and Catering Review	Journal			April	p20-23	The individuality of chefs has often been recounted in fact and fiction. One thing they seem to be agreeing on at the moment, however, is their preference for using gas-powered appliances when it comes to cooking.
Barnes J	1988	Spilling the beans on energy saving	Watson House Bulletin	Journal				v51 n2/3 17-19	
Bartel P Stienen R	1980	Use of electric heating and heat recovery in catering	Elektr Tech Ausb	Journal	German		March	v38 n2 p75-9	Waste heat is available in considerable quantities from refrigerating machines. This can be utilized for heating service water by means of heat recovery units.
Batty W Probert S	1989	Benefits of energy monitoring and auditing in the catering industry	Applied Energy	Journal				v34 p193-211	Energy monitoring and auditing with respect to food preparation especially cooking operations are desirable prerequisites for strategic planning of catering activities and before kitchen improvements are undertaken.

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Batty W Conway M Newborough M Probert S	1988	Effects of operative behaviours and management planning on energy consumptions in kitchens	Applied Energy	Journal		0306-2619		v31 n3 p205-20	The patterns of use of catering appliances were studied in five catering facilities (3 canteens plus a hotel and a hospital). Several of the identified practices such as switching-on appliances well before necessary incurred energy consumption penalties. Established habits such as long cooking or holding periods increased energy consumption. The surveys identify the need for: review of existing practices; staff training on effective use of new appliances; incorporation of programmable timers into appliances; removal of redundant equipment.
Batty W	1987	Energy use in UK catering establishments	Proceedings of Third International Congress on Building Energy Management	Conference			October	v2 p315-324	Notes catering industry consumes 1.5% of the total primary energy used in UK per year. Describes studies to determine the patterns of energy use. Kitchen planning, administration and staff practices should all be considered. Good prospects exist for significant energy savings through application of known technologies and the education and motivation of staff to improve procedures.
Biedrzycki K Unklesby K	1988	Bentonite models of turkey rolls enable energy comparisons of electric and gas convection ovens	Hospitality Management	Journal				v7 n2 p131-138	
Black D	1989	Commercial kitchen ventilation - efficient exhaust and heat recovery	ASHRAE	Journal				v95 Part 1 780-786	
Blackburn D	1989	Food industry hungry for energy savings	Energy Management	Journal			April	p12-13	The UK Food and Drink Industry is a significant user of energy and used an estimated 147.6 PJ in 1984. How energy can be saved.
British Gas	1991	A guide to kitchen equipment and systems	British Gas	Booklet				39 pages	Overview of criteria for kitchen planning, space requirements and ventilation needs. Also provides a review of (gas) cooking equipment including the latest technology and developments and reflecting current rapid changes in eating habits and production methods.
Brown S	1992	Green fatigue?	British Hotelier & Restaurateur	Journal			Mar/Apr	p26-27	Recalling the Save It spirit generated by the energy crisis. the author argues that environmental policies can make economic sense for caterers
Bunn R	1986	Cutting costs in the kitchen	Building Services	Journal			January	p35	Hotel kitchens are notoriously bad at being energy efficient. Potential energy savings can be achieved through the use of energy efficient equipment and through improved catering practice. Discusses extract ventilation, new equipment with improved controls and better insulation, and heat recovery. Persuading staff to use equipment more efficiently is the key to energy savings, for example to use short pre-heat periods, and to avoid under-utilisation of equipment. But chefs are defensive of their art.
Caroff B	1990	Professional kitchens	Chauff. Vent. Condit.	Journal	French		November	v66 n11 p15-40	
Chitty G	1986	Energy-saving dishwashers	Caterer & Hotelkeeper	Journal			May 29	p62	The energymizer range of low temperature dishwashers are a popular option for caterers concerned with cutting fuel costs

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Clavey J	1993	Rethink on energy 'could save millions'	Caterer & Hotelkeeper	Journal			January 28		Sutcliffe Catering Group is putting together an environmental policy and preparing two environmental manuals - one each for clients and employees. Energy management is a key area. One of the first investments it wishes its clients to make is separate fuel metering for the catering area. A prototype environmentally friendly kitchen is being worked on by its design subsidiary which includes heat recovery and water recycling.
Collings R	1994	Do you have money to burn?	Caterer & Hotelkeeper	Journal			March 3	p58	The catering industry is still a major culprit for wasting energy. A new report says that operators can no longer afford to ignore the issue.
Conover D	1992	Building construction regulation impacts on commercial kitchen ventilation and exhaust systems	ASHRAE Transactions	Journal				v98 Part 1 p1227-1235	A review of existing US regulatory codes on kitchen ventilation reveals a lack of uniformity. Greater recognition of differences in cooking processes could lead to a review of the regulations and to changes to exhaust and ventilation systems. In turn this would reduce impact of HVAC and reduce energy use.
Curry D	1993	What happens when you lose your cool	Caterer & Hotelkeeper	Journal			September 2	p44-48	Energy efficient dishwashers are ousting the once popular low-temperature machines.
Davis C	1992	Induction comes of age	Caterer	Journal			July	p71-72	Frialator is so convinced that the market is ready for induction it has taken over Moorwood Vulcan's induction system.
Department of Environment Property Services Agency	1976	Maintenance of catering equipment	DOE Technical Instruction (M&E)M85	Book					
Dept. of Health and Social Security	1986	Reduction of excessive and uncontrolled heat losses in kitchens	Engineering Data DHSS	Book					
DHSS & Building Design Partnership	1982	DHSS low energy hospital study	DHSS						
Dillon M	1990	Specifying modern kitchen ventilation systems	Dillon Consulting Engineers	Journal		0010-6925	August	v43 n8 p40-45	
Doering R	1984	Food service facilities energy conservation projects	The Consultant	Journal			Autumn	p27-32	In today's tough economic environment it is increasingly important that the restaurant manager identifies, develops and uses his cost-cutting options in order to remain competitive.
Duignan-Woods E	1992	Kitchen ventilation needs and diners' comfort - striking a balance	Heat.Pip.Air.Cond	Journal			July	v64 n7 43-48	
Eastern Electricity	1991	Electricity - a specifier's guide	Eastern Electricity	Guide					
Energy Efficiency Office	1985	Energy saving in catering	EEO	Leaflet				4 pages	Four-page guide describing major areas of energy consumption in catering and how much energy is used - in various catering facilities from snack bars to hotels. Sets out practical good housekeeping measures to improve efficiency.

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Energy Efficiency Office	1986	Heat recovery in a catering kitchen using a run-around coil	EEO Expanded Project Profile 112	Leaflet			March		
Energy Efficiency Office	1986	Heat recovery from kitchens	EEO Expanded Project Profile 246	Leaflet			August		
Energy Efficiency Office	1994	Introduction to Energy Efficiency in Catering Establishments	EEO						Aimed at those responsible for energy in restaurants, public houses, canteens and kitchens. Introduces the steps that need to be taken to control and reduce energy consumption. Shows how to gain an understanding of energy used in catering, and indicates the ways by which savings are likely to be made.
Enga T	1984	Energy saving in the commercial catering market	CEC Report EUR-9269 EN	Report	English				Reports on research carried out by Watson House into ways of saving energy in commercial catering. Energy cost in catering is a small part of total costs, but significant savings can be made using existing designs. Savings are available through optimisation of catering appliances, adopting the best current designs, and improvements in kitchen management and appliance usage. Waste heat recovery is feasible for larger kitchens in hotels, restaurants canteens and institutions. If all the findings were implemented, 12% of catering gas consumption could be saved.
Field J	1989	Energy efficient catering	IMechE Seminar	Conference			May 17		The cost of catering energy is a significant operating cost and is likely to increase. The opportunities are set down for saving energy by selection of optimum equipment and operating practice within typical kitchens. Sources of basic information are reviewed.
Fugler D	1989	Canadian research into the installed performance of kitchen exhaust fans	ASHRAE	Journal				v95 Part1 p753-758	
Geerinckx B	1992	Efficiency measurements of kitchen hoods	Proceedings 13th AIVC Conference	Conference		0 946075 67 0	September	p347-357	Reports results of a study carried out for the Belgian IWON/IRSIA on measurements to evaluate the efficiency of kitchen hoods.
Glew G	1979	Advances in catering technology	Catering Research Institute Leeds University	Conference					Conference proceedings. Includes papers on 'What is new in catering equipment' by R Lamp and others (US Army); and 'Water Consumption, energy use and food residue generation in Swedish catering establishments' by T Malmstrom and others (Lund University).
Glew G	1984	Advances in catering technology - 3	Elsevier Applied Science London	Book					Collected papers.
Jones W	1992	Power prejudice	Caterer & Hotelkeeper	Journal			July 9	p66-70	Most caterers believe gas is best for cooking. But many admit their views are subjective. The article looks at the real pros and cons of gas and electricity.
Kuehn T	1989	A study of kitchen range exhaust systems	ASHRAE	Journal				v95 part1 p744-752	

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Langer I Schmid C	1990	Kitchen and large kitchen ventilation with exit-air cowls and air blower system	Scheizer Ingenieur und Architekt	Journal	German	0251-0960		v108 n13 p339-342	Kitchen ventilation using forced air principle operates with lower air volumes than conventional extract systems and saves electricity and heating energy. Comfort for kitchen staff is increased. Design and operation of such a system are described.
Lawson F	1983	Energy use in the catering industry of Great Britain	Energy Efficiency Office Report	Report		General Report ED/44			Energy Efficiency Demonstration Scheme report ED/44. 28-page report plus appendices. Studies the size of the catering industry, the energy used in meal production, energy consumption in catering premises of various types, and attitudes to energy management.
Lawson F	1987	Restaurants Clubs and bars: Planning design and investment	Architectural Press London	Book		0-85139-970-3			General design handbook of about 300 pages on all aspects of planning restaurants. Includes section on energy use. Divides energy consumption into environmental (space heating etc) and and operational (food storage, production, dishwashing). Gives typical energy usage per meal across a range of establishments. Tabulates operational cooking equipment performance and environmental consumption targets. Lists methods of energy conservation and efficient use of fuel.
Lorens V Schober H	1985	Economic investigation of energy conservation by heat recovery from waste air of kitchen and rooms for water heating in restaurants and similar facilities.	SEG Solar- Energie- Gesellschaft, Darmstadt, Germany	Book			June 1		About 40% can be saved through heat recovery.
Malmborg A	1979	Dishwashing: some problems to be considered	in Advances in Catering Technology edited by G Glew					p197-206	
Masters & Andren	1992	Technology and energy efficiency combined	HCIMA Reference Book 1992/3	Book				p205-206	Outlines the latest technology and energy efficient equipment available, focussing on induction cooking, tunnel cookers and double rinse dishwashers.
Mazzucchi R	1986	The project on restaurant energy performance end-use monitoring and analysis	ASHRAE	Conference				v92 Part 2B 328-349	
Meckler G	1991	Comparative energy analysis of gas-energized desiccant cold-air unit	ASHRAE Transactions	Journal	English			v97 n1 p637-641	A gas-energised desiccant cold air and heating unit has been developed for commercial catering applications. The unit provides heating and cooling without the use of refrigeration and at a lower energy cost than a conventional electric powered system. Includes a comparative study of the energy use and cost of the gas unit and a vapour-compression air-to-air heat pump in a New York fast food restaurant.
Meckler M	1987	Optimising design of dining facilities in hot climates	ASHRAE	Conference			September	127-154	
Mikkelsen E Sondergaard H	1992	The environment and large-scale kitchens of the future	TFVVS Danvak	Journal	Danish		September	v28 n10 p67-71	

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Mitson J	1991	Chill out	Caterer	Journal			Mar	p72-73	What are the implications of the new Temperature Control Legislation for caterers? How Green is your Refrigerator?
Mitson J	1992	Fry time for new technology	Caterer	Journal			October	p107	The latest frying equipment has plenty of energy saving features.
Newborough M Probert S	1988	Evolution of energy-efficient food-preparation facilities	Applied Energy	Journal		0306-2619		v29 n2 p83-178	Long and detailed paper on catering equipment, kitchen design and management practices. Reports that the catering industry is one of the more energy-profligate sectors of British society, if assessed according to the ratio of the amount of energy use divided by that needed if efficient systems and practices were employed to achieve the same quality of end product. Includes many recommendations for improved practice. Cites 143 sources of information about catering.
Newborough M Probert S Newman M	1990	Thermal performances of Induction, Halogen and Conventional Electric Catering Hobs	Applied Energy	Journal		0306-2619		v37 p37-71	Three types of catering hob were assessed against various criteria including rate of energy consumption and purchase price. Performance of the induction hob was superior with respect to energy efficiency, cooking speed, controllability and thermal safety. In economic terms, the halogen offered an attractive compromise.
Nilsson E Sahlin C Anderson S	1984	Energy conservation at catering service - the medical care administration of Malmoe. Measurement and evaluation.	Statens Raad foer Byggnadsforskning Stockholm	Report	Swedish	BFR-R-27-1984			Reports on energy conservation project in the central kitchen which serves 1.9 million food portions yearly. Heat exchangers, tapwater pre-heaters and mixers have been installed, and heat and water meters used for evaluation of energy consumption. During the first year a reduction of 740 MWh was achieved. The investment of 1.3 m SEK brought additional savings of 900 MWh. The total payback was found to be 3.5 years. The heat exchanger in the ventilation system was uneconomical.
Patterson M Earle M	1982	Energy use in the catering industry	Massey University Palmerston (New Zealand)	Report		NZERDC-P-66	December		Reports on a postal survey of 1357 catering establishments in 1979. Electricity and gas used in 53 establishments were studied in more detail. Energy used in cooking and food preparation was found to be 57% of consumption, the remainder is ascribed to baseload.
Pearce M	1986	Money down the drain	Catering Business	Journal			September	p74-75	Advice to caterers to help solve energy problems.
Pekkinen J Takki-Halttunen T	1992	Ventilation efficiency and thermal comfort in commercial kitchens	ASHRAE Transactions	Conference		0001-2505		v98 Part1 p1214-1218	
Perlman M Chiarelli M	1987	Commercial applications of heat pump water heaters (the Feathers restaurant Toronto)	Research Report	Report		0823-2660	August		
Prentice A	1986	Energy expenditure in free-living people	Nutrition and Food Science	Journal			Jan/Feb	p2-5	Nutritionists are still using methods for measuring energy expenditure which were developed over a century ago. This article describes a completely new approach involving the use of stable isotopic tracers.

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Probert D Newborough M	1985	Designs thermal performances and other factors concerning cooking equipment and associated facilities	Applied Energy	Journal				v21 n2&3 p81-222	
Roberts J	1982	Energy conservation in catering appliances	Heating Ventilation & Insulation EC Contractors Conf	Conference			October	p472(10)	
Ross N	1985	Energy saving in the commercial catering market	British Gas	Book			July 1		EEC report.
Rosset R	1982	Electrical solutions for collective catering	Rev. Gen. Therm	Journal	French		October	p821-826	After reviewing health requirements to be observed in collective catering, the different systems for preparing meals are discussed. The electrical appliances installed are indicated. An overall estimate of costs for these systems is given.
Rothery B	1990	Energy: gas and electricity complement energy efficiency	Hotel & Catering Review	Journal			May	p33 p37 p39	General and rather brief overview of catering equipment.
Schewbel W	1986	Cooling load in large kitchens	Elekt. Tech. Aus	Journal	German	0174-6189	July	v44 n4 127-132	
Schoeffler G	1985	Energy recovery in a catering scale dishwasher by means of a heat pump	ETS Bonnet (France)	Book			June 10		Heat recovery.
Schorer W	1990	Savings potential of an automated glasswasher	The Consultant (USA)	Journal			Spring	p30-31	How best to clean and handle glassware.
Schwebel W	1985	Feasible ways of saving energy in large-scale kitchens	Elektrowarme	Journal	German		July 1984	v42 nA4	
Soling S Knapp J	1985	Laboratory design of energy efficient exhaust hoods	ASHRAE	Conference				v91 Part1B p383-392	
Stulic M Turina M Cupurdija J Zak B	1988	ASIC programmable timer	Koncar Strucne Inf	Journal	Croatian	0350-5537		v35 n1-2 p13-17	Rade Koncar has designed a digital timer which could be used for controlling electrical deep-fat fryers and water heaters.
Sutcliffe Catering Group	1986	Low energy plan - how to save energy in the kitchen	Sutcliffe Catering Group	Book					Food and energy are among the most precious and essential commodities known to man. This booklet reports on the outcome of a study by researchers at Cranfield to survey available literature on energy use in catering, to undertake theoretical studies of minimum energy requirements, to observe the operation of several working kitchens, and to survey the attitudes of Sutcliffe Catering Group's area supervisors to energy efficiency. Includes recommendations on kitchen design and catering management.
Swords N	1994	Cooking with gas a definite must	Hotel and Catering Review	Journal			May	p32-37	Various sectors of the catering industry report that gas appliances are preferred in the commercial kitchen.
Symington M	1989	Energy Savers	Catering	Journal			November	p117	Energy costs alone could put 36p on each meal produced.

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Symington M	1990	Cook the food not the chef	Catering	Journal			June		Reviews kitchen equipment designed for energy efficiency. Compares electricity and gas, and reports on induction and halogen hob units. Savings with induction units can be 49% or more compared with electric hobs, according to tests at the School of Food and Accommodation Management at Dundee.
Thompson J	1987	What a waste	Catering Business	Journal			February	p60-62	A new and detailed report produced by the Cranfield Institute of Technology on behalf of Sutcliffe Catering estimates that the catering industry is wasting £72 million a year in its kitchens alone.
Unklesbay N & Unklesbay K	1982	Energy management in food services	Ellis Horwood; Chichester					p317-394 p395-431	Part IV 'Indirect energy consumption in foodservices' and Part V 'Techniques for managing energy conservation'.
Unklesbay N and Unklesbay K	1979	Energy waste: how large is the problem and can it be reduced?	in Advances in Catering Technology edited by G Glew					p167-182	
Weinstein J	1994	The green restaurant - part 1: design and construction	Restaurants and Institutions	Journal			April 1	p35, 38-9, 48, 53, 56, 61-2	Sets out options for building or retrofitting a restaurant with environmentally friendly materials - from walls to interior components.
Weinstein J	1994	The green restaurant - part 2: systems and service	Restaurants and Institutions	Journal			May 1	p119-122, 124, 128, 134, 136	Recommends methods for waste reducing, re-using and recycling.
Whitehall B	1985	Cost cutting ventilation systems	Caterer & Hotelkeeper	Journal			January 24	p74	High energy costs should be an incentive to caterers to look at their kitchen ventilation systems. The first of two articles looking at the energy saving potential of systems on the market.
Whitehall B	1985	Kitchen extraction systems	Caterer & Hotelkeeper	Journal			February 25	p62-64	It is a false economy to cut down on extraction equipment. It pays to shop around for the right equipment for your particular system.
Woodward D	1994	Energy saving in the kitchen	Voice	Journal			August	p12-13	Part of a series on environmental friendly hotels. Describes ways energy is saved in Inter-Continental hotels. These include metering consumption and comparing with targets; linking the executive chef's bonus to energy reduction; turning off equipment whenever possible; investing in efficient equipment and lighting; and good maintenance.
Worden W	1984	Moderate temperature heat recovery	Energy Engng	Journal				v81 n6 p36-45	

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COMBINED HEAT AND POWER (CHP)

Abe Y Kanari K Kamimoto M	1989	Molten salt latent thermal storage unit for cogeneration systems	Proceedings of the Intersociety Energy Conversion Engineering Conference	Conference		0146-955X	July 31 Aug 05	p165-170	
Andrews D	1986	Power from the people	New Scientist	Journal					Describes the use of miniature combined heat and power units for heating and electricity supply to large buildings including hotels. Overall efficiency can be as high as 90%. Plant size should meet the building's requirements for summer heating treating the electricity as a by-product. Additional winter heating can be provided separately. The payback period is about 5 years.
Anon	1984	Energy Act gives spur to private generation	Energy Management	Journal			October	p8-9	More than a year has elapsed now since the Energy Act 1983 came on the Statute Book. And there are already signs that the private sector is taking advantage of the opportunities which have been opened up. Interest has been most pronounced in the commercial and service sectors where establishments like hotels, leisure centres and hospitals are well placed to benefit from small-scale or micro CHP units.
Anon	1985	Market decisions - when and where cogeneration makes sense	Diesel Progress North American	Journal		0744-0073	November	v51 n11 p18-20	
Anon	1986	Micro-CHP market grows in wake of British Energy Act	Cogeneration	Journal			Mar-April	v3 n2 p24-25	
Anon	1986	Small packaged cogens will be big energy industry study finds	Cogeneration	Journal			Mar-April	v3 n2 p22-23	
Anon	1988	Approach to an optimum design cogeneration system	Diesel & Gas Turbine Worldwide	Journal		0278-5994	October	v20 n8 p32-34	
Anon	1988	Focus on CHP	Energy Management	Journal			October	p9-12	Supplement to Energy Management containing articles on CHP.
Anon	1988	Energy update foodservice targeted in upcoming tests of compact and efficient micro-cogeneration	Restaurant and Institutions	Journal			June 10	p126-127	
Anon	1989	Five stars for cogeneration	Middle East Electr.	Journal		0309-4707	April-May	v13 n14 p39-43	The energy demand of a hotel depends on its size, occupancy rate, geographical position and the season. Most electricity applications feature a steady electrical base load demand plus economic use for the thermal energy produced. Installing a CHP system could provide a secure supply at low cost to meet all the demands.
Anon	1990	Rehabbed power station generates excitement	Restaurant and Institutions	Journal			March 21	p91-93	Natural gas helps Cleveland's Powerhouse see the light as restaurant and entertainment complex.

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Anon	1991	CHP for energy concious Wandsworth	Energy Management	Journal			Nov/Dec	p26-27	The London borough of Wandsworth has installed a small-scale CHP system at Latchmere Leisure Centre, resulting in substantial cost savings and environmental benefits
Anon	1993	CHP an introduction	Energy Management	Journal			Jan/Feb	p10	Supplement to Energy Management.
Anon	1993	Energy at a discount	Hotel & Catering Business	Journal			October		A package called Discount Energy, launched by Combined Power Systems, is saving hotels up to 40% on their electricity bills, according to the marketing manager.
Baker T	1986	Cogeneration for resort hotels	ASHRAE Transactions	Journal		0001-2505		v92 part 1B p318-332	Reports a study of a CHP plant in a Florida hotel. Presents graphs of simple paybacks on initial capital costs of CHP system for various electricity charges.
Chester P	1990	Combined heat and power by gas	Energy Management	Journal			October	p13-14	Gas-fired CHP.
Davidson K	1986	Packaged cogeneration systems for commercial buildings	8th World Energy Engineering Congress	Conference		0 88173 009 2	October	p xiii+536	Although most commercial buildings are not obvious candidates for packaged CHP systems (due to variable loads and fewer operating hours) demand patterns in buildings such as catering establishments are factors in favour.
Energy Efficiency Office	1988	Demonstration of a 'Totem' total energy system in a hotel	EEO Project Profile 161				April		
Energy Efficiency Office	1989	Combined heat and power in a Scottish hotel	EEO Case Study no. 8				April		
Energy Efficiency Office	1989	Combined heat and power plant in a Manchester hotel	EEO Case Study no. 12				February		
Energy Efficiency Office	1988	Small scale CHP in the Derwent and Victoria Hotels, Torquay	EEO Project Profile 265				September		
Energy Efficiency Office	1989	Small scale CHP at Woodland Park Hotel	EEO Project Profile 275				June		
Energy Efficiency Office	1991	CHP in a medium-sized hotel	EEO New Practice Final Profile 30				March		
Evans R	1989	CHP for small schemes - design considerations	H&V Engineer					v62 n695 p13-18	CHP is applicable to premises such as hotels which need a fairly continuous supply of heat or hot water. It offers two advantages of using energy very efficiently and converting part of the gas input into high-value electricity. Payback periods of about three years can be achieved.
FEC Consultants	1986	"TOTEM" total energy system in a hotel	Trusthouse Forte Hotels Ltd and FEC Consultants	Report		DEn ref 1985/227			Reports on use of a CHP system installed experimentally in a THF hotel.

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Forrest R	1985	Small scale combined heat and power	ETSU/EEO Energy Technology Series 4	Booklet					
Forte J	1992	Combined heat and power in hotels	Energy Management	Journal			Jan/Feb	Supplement pXIV	Although hotels must always offer the best possible service to its customers it is still important to overcome wasteful energy practices. Article by John Forte, Executive Director Environmental Services Gardner Merchant
Forte J	1994	Combined heat and power in hotels	CHP in Hotels Seminar, Russell Hotel, London				November		
Hampton D Staniaszek D	1992	Combined heat and power in buildings	Energy Management				Jan/Feb	Supplement pXVI	More and more building operators are becoming interested in CHP. Although environmental and green issues present compelling arguments, the prime motivation for users is to reduce energy costs.
Harris K J	1988	Total system load analysis increases plant efficiency and complements utility load profile	ASME/IEEE Power Generation Conference pub by ASME	Conference		0402-1215			
Ito K	1990	Economic evaluation of heat storage tanks in cogeneration systems	Trans.SHASE	Journal	Japanese		February	n42 p69-78	
Jackson T	1987	Non-stop running gives CHP an edge	Heating and Air Conditioning Journal	Journal		0307-7950	July	v58 n661 p23-24	
Kanari K	1991	Molten salt latent thermal storage unit for cogeneration systems	Denshi Gijutsu Kenkyusho Iho	Journal		0366-9092		v55 n3	Evaluates the feasibility of using molten salt latent thermal storage units with a CHP system using the example of a hotel. Computer simulation showed good performance. The systems are technically feasible and may possibly be cost-effective in the near future.
Kelcher R	1984	Serck standard packages for total energy	J.Heat.Recovery Systems	Journal				v4 n6 p393-400	
Meinhold H	1988	Hotel in Hanover reduces energy costs by the use of CHP	Sonnenenergie und Waermepumpe	Journal	German	0172-5912		v13 n2 p26-27	A hotel in Hanover has saved annually about DM 50 000 on the cost of electricity since installing three diesel fired CHP units. Waste heat is used almost completely for water and room heating, and power costs are reduced. A three to four year payback period is calculated.
O'Meara A	1992	CHP for energy management	Hotel and Catering Review	Journal			April	p32-37	A pilot project combining two energy concepts was initiated in two Doyle hotels last year. The combined systems of energy management and CHP were installed last June and have shown a 40% saving on energy cost from audited figures produced over the past nine months.

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COMBINED HEAT AND POWER (CHP) (continued)

Ryan W	1992	Unique innovative coupling of combined heat and power to minimise overall energy usage in hotel	Temp Technology Ltd	Book			September 24		Report on the installation of energy management system software and CHP plant in Burlington and Berkeley Court hotels. Technical report no. 3 describes measurement and testing.
Shaw R	1992	The Rebate Debate: Number of Available Gas Rebates Is Growing	Hotel & Motel Management	Journal		0018-6082	Feb 3	v207 n2 p27-28	Both natural gas companies and hotels benefit from rebates offered by natural gas companies. Gas companies increase their revenue as more gas is used, while hotels benefit from the financial rebates. Four reasons are given why these schemes are not more widespread in hotels.
Stipanuk D Denlea T	1986	Cogeneration: a way to cut hotel energy costs	Cornell Hotel & Restaurant Administration Qtrly	Journal		0010-8804	November	v27 n3 p51-61	Hotels are likely candidates for CHP. The following criteria are suggested when determining the feasibility of CHP: 1) ability to use most of the waste heat produced and essentially all of the electricity; 2) competitive price of the CHP fuel; 3) space required for plant; 4) meeting of financial objectives. CHP systems can be purchased, leased or financed through a third party.
Takedayashi Y	1987	A sample of cogeneration system in a hotel	Refrigeration	Journal	Japanese	0034-3714		v62 n713 p260-273	Presents a feasibility study of a CHP system for a hotel in Tokyo. Compares the energy savings available with a system independent of commercial electricity supply and combined with a commercial power line. Four different cases are selected. Construction costs are computed and energy generation is simulated.
Watkins E	19??	Tech update: another look at cogeneration	Lodging Hospitality	Journal			November		Rising utility costs and fears of utility interruptions make cogeneration a viable energy management option. The key to savings is to use all of the heat produced by the system. Savings depend on type of system, utility rates and the percentage of heat that can be utilised.
Whitwell I Staniaszek D Hampton D Musannif B	1993	Best practice and CHP	Energy Management	Journal			January/February	Supplement pVI-VII	The main reasons for the growth in the use of CHP in recent years are summarised; these include increased expertise; improved products; and range of new funding schemes. EEO's promotion of CHP through the Best Practice programme is illustrated by recent Good Practice publications.

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CONTROLS

Alegria C	1990	Meet the hotel of the future (intelligent buildings)	Energy & Automation	Journal		0931-6221	Jan-Feb	v12 n1 p20-3	Building automation systems are gaining in commercial significance and the intelligent building is becoming a reality. Hoteliers have started to recognise the enhanced comfort and convenience that can be offered to guests and staff. Describes the building automation system installed at the Quinta do Lago Hotel in Algarve Portugal.
Anon	1981	This is an emergency... Wake-up system serves as hotel emergency communication system	Telph Eng and Manage	Journal			June 1	v85 n11 p51-2	
Anon	1985	Energy Management applications	Elect.Contractor	Journal			August	v83 n8 p44-46	
Anon	1986	Locked doors guarantee comfort and security	Energy Management Technology	Journal			March	v10 n2 p44-45	
Anon	1986	Controlling energy costs	British Hotelier and Restaurateur	Journal			April	p16-17	At Glasgow's Hospitality Inn, Mount Charlotte has reduced electricity consumption by 30% plus since installing an energy management system.
Anon	1986	Science fiction now fact	International Construction	Journal		0020-6415	September	v25 n9 p61-62	
Anon	1986	Automatic controls are major feature at Raffles City	Electrical Review International	Journal		0013-4384	November	v219 n12 p14-15	Electrical controls - covering air-conditioning, heating, security and computer system - account for a large part of the electrical installation work in the new complex which includes a hotel.
Anon	1988	GTE Place uses building automation intelligently	Consul. Specif Engr	Journal			January	v3 n1 p114-117	Describes the building energy management system included within the renovation of a large building complex. Despite increased occupancy the complex has reduced its energy consumption for five consecutive months.
Anon	1988	Heating control and programming. Examples of solutions for implementing the application of codes relating to equipments and thermal properties in buildings other than dwellings	Cahiers du centre scientifique et technique du batiment	Journal	French	0008-2285		n293 Cah.2285	
Anon	1992	Controlling the cost of comfort	Work Study	Journal		0043-8022	Nov/Dec	v41 n7 p25-27	A building energy management system has been installed at the Inter-Continental Hotel at Hyde Park London. Annual energy savings of £28,000 are reported during the first year of operation.
Aulbach J	1989	Hotel operation using the computer for energy management	ASHRAE Transactions	Journal				v95 Part 1 p563-566	Energy and maintenance can account for 20% of the operating cost of a hotel but operators are generally unaware of how and where energy is used and the effect of their operating policies on consumption and cost. Computer-based energy management systems offer control and monitoring. Sub-metering allows further real-time monitoring. Discusses the advantages of building energy management systems.
Balmer A Nodolf K	1985	A study in the application of energy management at a table service restaurant	ASHRAE	Conference				v91 Part2B p993-1003	

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CONTROLS (continued)

Becker H	1986	How much sense do room occupancy sensor controls make	ASHRAE Transactions	Conference		0001-2505	January	v92 part 1B p333-343	Provides a digest of energy control options available to hotels for controlling guest room energy costs. Explains the characteristics of each type and discusses the dilemma of management versus guest control.
Bordass B	1992	Improving controls for better energy efficiency	Energy Management	Journal			Nov/Dec	p20-21	Asks the question: 'Are we really designing specifying and using new control technology to best effect?'
Bromley K Smith G	1993	User experience of BMS performance and benefits	Heating and Air Conditioning	Journal				n6 p14-15	Reports results of a survey of user experience of 21 building management systems to identify how well they perform, benefits, and scope for improvements. Compared with results of earlier surveys it appears that performance of BMS has improved significantly over recent years, they are more readily accepted than previously and in-built monitoring and alarm facilities make it easier to detect problems.
Doren K Blackman D	1993	Communication systems and connectivity for the intelligent bedroom of the future	International Journal of Contemporary Hospitality Management	Journal		0959-6119		v5 n2 p25-26	Hotel rooms have the capability to become intelligent using computerised systems. Currently there is a lack of integration which increases costs and holds back development. The developments needed to allow progress towards intelligence are discussed.
Ehlert H Marschall S Wurdisch H	1987	Building automation system type GAA 500 at the Bellevue Hotel In Dresden	Tech Inf Process Autom	Journal			March	v13 p53-6	Reports on a comfortable new hotel building using closed-loop 'direct digital control' systems for heating ventilation and cooling. The system achieves a considerable saving in the space required for the installation and wiring of the automation system coupled with high operation comfort for users.
Energy Efficiency Office	1989	Energy management by individual room control in a hotel, EEO Case Study 25	EEO						A key fob switch is used to control lights and electrical outlets in the guest rooms at the Lakeside Hotel in Frimley. Also reported in EEO Project Profile 102.
Energy Efficiency Office	1994	Energy efficiency in hotels - occupancy linked controls, Good Practice Case Study 260	EEO						Features three hotels which have different occupancy-linked controls to reduce energy costs. The three systems are key card, key fob and passive infrared detector. Payback periods vary from 0.6 to 2.9 years.
Friedlander G D	1988	Smart structures	Mechanical Engineering	Journal		0025-6501	October	v110 n10 p78-81	
Galvin C	1982	Shared-savings cuts hotel's losses from EMS removal	Energy User News	Journal			November 8	n1 p11-14	Myrtle Beach Holiday Inn is replacing a poorly performing energy management system with Scientific Atlanta equipment. Losses will be reduced by using a shared-savings scheme. The system should have a 1.7 year payback.
Gloria S	1988	Remote control for thermostatic radiator valves	Termotecnica	Journal	Italian		June	n6 p47-49	Describes research studies carried out on TRVs equipped with a liquid sensor which can close the valve when switched on from a remote station. When switched off the valve operates as a normal TRV. Concludes that the traditional method of operating TRVs can be substantially improved upon in hotels and similar building where not all the rooms are occupied.

CONTROLS (continued)

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Homer S	1989	Boiler works	Caterer & Hotelkeeper	Journal			August 7	p64-65	Why it makes financial sense to switch on to energy controls.
Howell T	1989	What's being used out there for smoke detection and energy control in guest rooms	ASHRAE Transactions	Journal				v95 Part 1 p513- 516	Discusses the merits of various types of occupancy sensors - ultrasonic, infrared and volume sensing - for energy control. Considers interactive systems which use data from property management or room status coupled with devices in guest rooms.
Japel P Manski H Marschner M Schenke N	1987	Robotron computer systems for the Berlin Grand Hotel	Neue Technik im Buerro Dresden	Journal		0323-8474		v31 n4 p97-99	
Jesitus J	1992	Energy Savings Beckon	Hotel & Motel Management	Journal		0018-6082	Dec 14	v207 n21 p19-20	Prices for centralized energy management systems are shrinking and hoteliers face a bewildering choice of systems. Presents case studies of US and Canadian hotels which have installed systems and describes savings.
Kasavana M	1985	Hotel energy management systems cut operating costs	Hotel and Restaurants International	Journal			March	p89	The most important feature of these systems is their ability to minimize the building's energy loads while not negatively affecting the comfort achieved.
Kirk D	1987	Computer systems for management in hotels	Hotel Management	Journal				v6 n4 p237-242	
Knisley J	1984	Modern signals and alarms serve luxury hotel (private telephone exchanges)	Electr Constr and Maintenance (USA)	Journal		0013-4260	August	v83 n8 p49-52	The ten-storey 814-room Florida Hilton at Disney World uses a telecommunications and control system that enhances guest services and energy management. HVAC, door bolt, television set, and room ionisation detectors are linked to the touch-tone telephone set.
Lawrie R	1982	Energy-management system features RF carrier control to slash hotel costs	Electr Constr and Maint (USA)	Journal		0013-4260	June	v81 n6 p73-6	Explains how an electrical contractor sold, designed and installed a microprocessor-based power line carrier system to cut utility bills at a large 9-storey hotel/motel.
McKeown P	1990	Building Management systems	Leisure Management	Journal			February	p80-83	Energy management in the next generation of leisure centres will increasingly rely on hi-tech systems. The author argues the case for computer-controlled heating.
Millbank P	1980	Low cost systems bring improved energy control to smaller power users	Elect. Rev.	Journal			January 11	v206 n2 p33-34	
Monson C	1992	Advances in Energy Management including Field Bus technology	Energy Management	Journal			Nov/Dec	p18	Future trends in BEMS technology and applications.
Muxen S Chapman W	1988	Versatile application-specific controllers for hotel guest rooms	ASHRAE	Journal				v94 Part1 p1530- 1538	
Naumann B	1986	Process instrumentation for the heating ventilating and air conditioning systems of the Bellevue hotel in Dresden	Luft. Kalte. Tech.	Journal	German	0024-7251		v22 n4 p196-197	Describes the general principles of direct control of HVAC systems. Reports on the construction and function of these systems in the Bellevue hotel, and on the first operating experience.
Newnham A	1991	Hotels and leisure	Heat. Air. Condit.	Journal			February	p16-29	

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Partridge A	1992	Improved H&V controls	Energy Management	Journal			Nov/Dec	p19	BRECSU has launched a major programme to produce guidance which will lead to improved standards of control for heating and ventilation systems for better energy efficiency.
Quick J	1982	Catering for all tastes (building service controls)	Heat and Air Cond J	Journal		0307-7950	November	v52 n610 p26-36	Looks at the controls industry which can now offer equipment ranging from low cost thermostats to all-powerful building management systems.
Robertson W	1991	Customising energy management systems reaps many benefits	Consul. Specif. Engr.	Journal			March	v9 n4 p22-28	
Rowe M	1991	Taming the energy beast	Lodging Hospitality	Journal			December	p110	Brief review of computerised control of electrical load and occupancy sensors. Some utility companies offer rebates for energy efficient installations. Claims that hotels can slash energy consumption using some high-tech gadgets.
Scott G	1988	Hotel industry turns to remote control energy management	Ontario Energy Netw.	Journal			April		At Best Western's Carlton Place Hotel in Canada a computerised building energy management system controls heating and air conditioning in public areas and guest rooms. Control is based on occupancy, usage, time of day and outside temperature. The system monitors electrical demand and sheds loads to reduce demand billing. Radio frequency digital signals travel from the command computer to remote control units via the building's electrical power wiring. Such systems can also monitor electrical usage at the meter. A reduction in energy bills of 15-20% is estimated, with a two-year payback.
Selwitz R	1991	Managing Energy	Hotel & Motel Management	Journal		0018-6082	Dec 16	v206 n21 p29-30	Sophisticated energy saving devices can help a hotel's bottom line profitability. Describes an occupancy sensor linked to the main door switch to save energy when the room is unrented or rented but unoccupied. Occupant can also control the heating or air-conditioning. Management can override the settings. Government or utility rebates can contribute to the installation costs.
Shehadi M	1986	Mixed use total urban environment a complete energy management program	ASHRAE	Conference			January	v92 Part 1B p857-863	Describes a complete and comprehensive energy management programme for the 18-building Skyline City near Washington. Programme includes diversity of loads on a master electrical meter, computerized building automation, thermographic analysis, use of emergency generators for demand limiting and lighting retrofits.
Tyler G	1990	Energy levels	Caterer & Hotelkeeper	Journal			September 13	p35	Saving energy is not just a matter of insulation. Article reviews modern technology, such as occupancy sensors, control and monitoring systems, intelligent room control systems, and movement detectors for lights. The Energy Efficiency Office's Normalised Performance Indicators are also described, together with the need for top management to be involved in energy planning.

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Wearden T	1984	Communications technology vital to hotel and catering industry	Commun Telecomm User	Journal		0264-4509	December	v4 n11 p30-31 p80	Reviews various communications and computer technologies as applied to hotels and catering establishments. Lists manufacturers and their products, including an organisation which uses the telephone network to provide individual room temperature control.
Wearden T	1984	Hoteliers book in for micro management	Electron Times	Journal			November 1	n289 p26-28	Reviews HOTECH 84 - the hotel and catering industry's high technology exhibition. If hoteliers and restaurateurs will listen to the advice, profits will improve and the use of energy will decline.
Whitehall B	1988	Energy saving ideas	Caterer & Hotelkeeper	Journal			February 25	p62 64	Hotels present a unique problem in the way occupancy fluctuates night-to-night and weekday-to-weekend. Building energy management systems, especially if interfaced with computerised guest registration offer many advantages. Describes the experiences of several hotels which have installed various types of heating control including BEMS, and key fob based controls.

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DESIGN AND REFURBISHMENT

Adamson B	1993	Building design and cooling in tropical climate, a study of hotels and office buildings and the influence of design and cooling in the Ho Chi Minh City climate	Lund Institute of Technology, Department of Building Science, report TABK-93/3015						This study aims to effect savings by designing for passive climatisation in kitchen and utility areas, and cooling strategies to improve electricity efficiency and reduce costs in offices and hotels.
Anon	1980	The Cheval Roc Hotel, Jersey, Channel Islands	Copper Development Association	Information sheet			Dec	n23 p1-2	
Anon	1985	Insulate your hotel from the outside and reduce those heating bills	British Hotelier and Restaurateur	Journal			June	p22-23	
Anon	1985	Intercontinental Hotel	Australian Refrigeration Air conditioning and Heating	Journal		0005-0148	October	v39 n10 p38-41	
Anon	1988	Berlin's de luxe Grand Hotel with top grade electrical and electronic equipment	Tech Inf Process Autom	Journal		0951-9270	October	v10 n10 p21-4	Electrical installations of the hotel meet all the requirements of superior hotel architecture. Design and performance comply fully with the specifications of the general contractor (the Japanese Kajima Corporation) and meet German standards and regulations.
Anon	1990	Special issue: Hotels and Restaurants	Architecture Interieure	Journal	French		March	n235 p46-133	Short case histories of designs and bibliographies of designers.
Baker N Fanchiotti A Steemers K	1993	Daylighting in Architecture: a European reference book	James & James (Science Publishers) Ltd	Book		ISBN 1-873936-21-4			Published with the support of the Commission of the European Community DG X11. A reference book comprising contributions from researchers across Europe. Brings together existing knowledge on systematic daylighting design in the form of a review of current research. Not intended to be a design handbook.
Baizhan L Shengyuan T	1989	A method of forming China's meteorological data used for analysing building annual energy consumption	ASHRAE	Journal				v95 Part 2 p259-262	
Beck P	1992	20th century meets 18th century aesthetic requirements	Consul. Specif. Engr.	Journal			March	v11 n4 p16-20	
Borresen B Harsem T	1990	Displacement ventilation in glazed atria matrix modelling technique for energy temperature and peak load	Roomvent'90	Conference			June	paper A1-8	
Brejon P	1992	Non-residential buildings - energy performance	Chauff. Vent. Condit.	Journal	French		February	v68 n2 p17-59	Special edition containing 17 articles about the energy performance of new non-domestic buildings in France.
British Standards Institution	1985	BS 8207:1985 Energy efficiency in buildings	BSI	Standard					Recommends a procedure to be agreed between a client and professional advisers, to include estimating energy requirements, establishing energy targets, assessing cost-effectiveness of technical alternatives, and taking measures to ensure good energy management practices.

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BSRIA Building Services Research and Information Association	1994	Environmental Code of Practice	BSRIA	Book		0 86022 361 1			Voluntary code of practice aimed at designers and facilities managers to encourage environmentally responsible design, installation, management and maintenance of building services.
Bunn R	1988	Staying power at Swindon	Building Services	Journal			October	v10 n10 p21-24	Discusses the difficulties of justifying the installation of heat pumps on cost grounds despite the fact that they can be justified on the ground of energy efficiency. Describes how the decision was made to install heat pumps at a new Holiday Inn hotel near Swindon.
Coad J	1992	Improving the fabric: pubs clubs and hotels	Energy Management	Journal			July/August	p24-25	The pub, club or hotel owner should make the improvement of building fabric a priority. The results of a series of case studies are outlined.
Deringer J and others	1982	Bed, board, and BTUs	Progressive Architecture	Journal	English		December	v63 n12 p87-91	Motels and hotels are represent complex relationships between sleeping rooms and service areas. Designs demand a spectrum of energy strategies.
Edwards S	1986	Reconstruction of the Grand Hotel Brighton	Proceedings of 9th National and 2nd European Building Maintenance Conference				November	4-5	
Energy Efficiency Office	1994	Briefing the design team for energy efficiency in new buildings, Good Practice Guide 74	EEO						Written in collaboration with the Royal Institute of British Architects. Gives advice on appointing a design team and drawing up a brief. Describes some of the main energy saving measures available and recommends simple and robust building services.
Energy Technology Support Unit	1987	The refurbishment potential in public houses.	Energy Publications ETSU Market study No 7	Report		0-905332 56 3			
Erdmann P	1984	Amortization of a total energy installation in a hotel after five years of operation	Schweizer Ingenieur und Architekt	Journal	German	0251-0960		v102 n38 p714-716	
Giffin T	1985	Life-cycle costing application for building energy code compliance	ASHRAE Transactions	Journal		0001-2505	Jan 27-30	v91 part 1B p603-608	Presents the building code requirements and procedures required for life-cycle costing analysis of a hotel's guest room areas - as governed by the California Energy Commission's Non-Residential Building Standards (1984).
Hawkes D Owers J	1981	The architecture of energy	Construction Press Harlow						254-page book based on conference of same title in Cambridge 1980. Includes a paper by Greenberg S entitled 'Approaches to the energy question in the design of a hotel'.

DESIGN AND REFURBISHMENT (continued)

Author	Year	Title	Journal/ Publisher/ Source	Document Type	Language	ISBN-ISSN Report Number	Month & Day	Volume Number Page	Abstract
Hendrigan F	1987	Adapting rate class load research data for specific end use customer/marketing application	ASHRAE Transactions	Journal				v93 Part 2 p2039-2045	Discusses collection of electricity consumption data by Boston utility company. The diurnal load of specific customer groups including hotels and restaurants is presented. The value of load research is shown in the analysis of a change in billing practice.
Kalin W	1976	All-electric tourist hotel Hoch-Ybrig in the Schyz canton	Elektr Int A	Journal	German		November	v34 n6 p294-298	The hotel is situated at an altitude of 1500 metres above sea level and exposed to extreme climatic conditions. It is heated mainly by direct and storage heating. The kitchen restaurant and other rooms are ventilated by a system which incorporates heat recovery. Savings are estimated at 74% of heat required.
Larrive R	1978	The hotel complex with electricity	Rev Fr Electr	Journal	French		June	p50-53	A hotel complex at Lille Airport is heated all-electrically. The various energy conserving measures employed - including heat pumps and off-peak heat storage - are detailed.
Lawson F	1976	Hotels motels and condominiums: design planning and maintenance	Architectural Press						
Lawson F	1995	Hotels and resorts: planning, design and refurbishment	Butterworth Architecture	Book		0 7506 1861 2			348-page textbook intended as a complete guide to the development of hotels and resorts - from investment appraisal to accommodation requirements, building services and facilities management. Profusely illustrated by a variety of international projects.
Malkin L	1987	A proven energy cost saving package for public houses	Profit through energy efficiency in public houses, Buxton	Conference			Nov-Dec		
McDonagh P Mouthinho L Evans M Titterington A	1992	Does environmentalism matter to hoteliers? An analysis of managers' opinions in the English Scottish Welsh and Irish industries	Journal of Euromarketing	Journal		1049-6483		v1 n3 p51-73	Questionnaire survey asked hotel managers about the future impact of various environmental issues. 246 replied. Concern appeared to be greatest over excessive building in the hoteliers' locality.
Mills F	1988	A more efficient pint	Building Service, CIBSE Journal	Journal			August	v10 n8 p49-53	
Nehmer J	1991	The art of hotel renovation	Lodging Hospitality	Journal		0148-0766	August	v47 n8 p22	The key to successful renovation is forward planning, and flexibility and adaptability. Management and control are essential. Contingency plans are needed for shut-downs of essential building services.
Neth M	1993	Domizil takes ecological approach from ground up	Hotel & Motel Management	Journal		0018-6082	June 7	v208 n10 p18 and 33	Construction of the 4-star Domizil Hotel in Saxon Germany began in July 1991. Before that studies were made of environmental impacts. Natural materials are used where possible. Light colour schemes are used. The laundry and kitchen make efforts to be environmentally responsible.

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Picardo Castellon C	1979	Renovation and modernisation of the hotel Alfonso XIII in Seville	Informes de la construccion	Journal	Spanish		November	v32 n315 p49-59	
Pitts D	1985	Energy Management by coaxial cable in an all electric hotel	Institute of Electrical Engineers 2nd conference on Installation Engineering Conf Publ 251	Conference		0-85296313	June 5-6	p88-92	Describes the philosophy, design and installation of an almost all-electric hotel whose only other energy supply is gas for kitchen hob units. The basic components of the system are: lighting using modern energy efficient light sources; bedroom heating of the convector type; heating in public areas by means of heat pumps; hot water utilising bulk electric water storage heaters.
PYC Editions		Hotels-Restaurants Batiments a Hautes Performances Energetiques	PYC Editions	Book					280-page book dealing with energy issues in the construction and development of hotels and restaurants.
Robinson R	1987	Ventilation	Profit through energy efficiency in public houses, Buxton	Conference			Nov-Dec		
Rowe M	1992	Greening for dollars	Lodging Hospitality	Journal		0148-0766	December	v48 n12 p76-78	Reports case studies of new and refurbishment projects where green issues formed the basis of design proposals and management action programmes.
Scheel H Kruger W	1985	The use of the model house service substation HA32 in the hotel Unter den Linden in Berlin (Water and district heating)	Inst fur Tech Gebaudeausrustung	Journal	German	0340-3572	February	v14 n1 p18-21	Reports on the construction and operating experiences of a substation connecting the hotel's domestic hot water supply to a district heating system. It has been in trouble-free operation since February 1982.
Spach C	1983	Use of a mini hydraulic power station to supply heat to a hotel by means of heat pumps	Energy Savings Buildings Intl Sym The Hague	Conference			November 14-16	p261(7)	
Starkley G	1988	Powerhouse	Caterer & Hotelkeeper	Journal			July 21	p55 p57	The Chestermill Euro-Hotel, Chester was designed to be as energy efficient as possible. Describes the conversion of the Victorian corn mill to a 52-bedroom hotel. Energy efficiency measures include double glazing, insulation, zoned heating, and low energy lights. Energy costs are around £100 per guest room per year.
Starkley G	1988	New hotel saves energy	Building Trade Journal	Journal			September	v196 n5771 p26-28	Describes the conversion of a disused inner-city corn mill from near dereliction into an energy efficient hotel. Energy saving was made a top priority during the design stage.
Taylor D and others	1983	Catering services	Building Services	Journal	English		October	v5 n10 p33-39	Article on the scope for energy conservation and fluidity of technology and design. Stresses the need for building services engineers to be involved in the design process.
Wenner E Ruby C	1989	High performance of electricity in the tertiary sector. Energy management in hotels and restaurants	Revue technique du batiment et des constructions industrielles	Journal	French	0397-9296		n133 p63-73	-

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DOMESTIC HOT WATER (DHW)

Anon	1985	Hot water controller lowers cost of hospitality	Energy Management Technol	Journal			October	v9 n7 p18-20	Controls for hot water.
Anon	1985	A study of energy savings using low-flow showerheads. A research report.	Canada Energy Mines and Resources Research Foundation BETT Publications Ottawa	Report		ISBN 0.662.14689			Reports the results of a research programme to estimate the cost savings potential from the use of low-flow showerheads in seven building sectors - including a hotel. Preliminary costs savings are estimated, and user evaluations are given. Problems experienced during the field trials leave many questions unanswered and cast doubts about the user acceptability of low-flow showerheads.
Anon	1992	Water works	Catering	Journal			July	p77-78	With severe drought affecting parts of the UK and rising water charges, it is time to look at how much your dishwasher is consuming.
Aulbach J	1988	Electric heat tape keeps hotel guests in hot water	Heating Piping & Air Cond	Journal		0017-940X	August	v60 n8 p59-61	
Barber F	1985	Trends in water heater selection	Plumbing engineer	Journal		0192-1711	Mar-Apr	v13 n2 p37-40	
Biasin K Dickopp A Eickenhorst H Paul J	1985	Year book of heat recovery 5th edition Heat recovery and heat pump applications in civil engineering trade and industry	Vulkan-Verl. Essen		German			p178-185	An experimental system for heat recovery from bath water in a hotel is presented. Technical conception and practical trials are reported. Comment is made on the storage of the waste water and precipitation of soap and pollutants. Operational experience is described. The heat exchanger and use of a heat pump are described. Energy consumption and costs are discussed.
British Gas	1983	The British Gas guide to hot water plant sizing for commercial buildings	British Gas						
Building Design Partnership	1985	Heat pumps for cellar cooling and water heating in licensed premises. A demonstration at six premises of Allied Breweries (UK).	ETSU Report reference F/53/85/117	Report					The performance of small air-to-water heat pumps for cellar cooling and domestic hot water supply was studied in six typical public houses. Energy consumption, costs, payback periods, water consumption and cooling loads are given. The heat pump's reliability, operation, energy and cost savings are discussed. Criteria for the decision to install a heat pump and presented. Final Report to ETSU under the Energy Efficiency Demonstration Scheme.
Chambers M	1975	Heat recovery service water heating for hotels restaurants cafeterias	Bldg.Sys.Des.	Journal			June/July	v72 n4 p38-40	
Coughlan M	1986	Notes on sizing applications for direct fired water heaters for hot water supply	South West Heating association	Journal				p28-30	Guidance on sizing hot water installations including those for restaurants, kitchens and hotels.
Green Globe	1994	Water management for hotels	Green Globe Environmental Guide	Booklet					Identifies various ways to reduce water consumption through improved management and technical measures.

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DOMESTIC HOT WATER (DHW) (continued)

Hasek G	1994	Water saving wisdom	Hotel & Motel Management	Journal			June 20	p14-15	Special report on saving both hot and cold water. Describes some of the technical means to cut water consumption, such as low-flow shower heads, tap aerators and low-flow WC cisterns. The US Environmental Protection Agency has launched its WAVE programme which encourages hotels and motels to install water-efficient equipment wherever it is possible and practical. The programme has been endorsed by the American Hotels and Motels Association. A software package will help hotels to assess their consumption and evaluate various technology options.
HCIMA	1994	Precautions against Legionnaires' disease	HCIMA			Technical Brief No. 1			Advice on reducing the risk of this water-borne disease, which can occur in building service installations.
Hejazi S A	1989	Sizing a storage type water heating system	ASHRAE	Journal				v31 p35-36 38-40	In projects including hotels and motels, commonly used sizing techniques often yield an undersized DHW system so that during peak periods temperature of the stored water drops below an acceptable level. The actual performance of a storage heater is analysed under various load conditions with respect to time.
Jones P	1983	Commercial hot water plant. New guides prevent oversizing	Watson House Bull	Journal				v47 n2 p18-23	Hot water consumption at a number of UK commercial sites including hotels was monitored. The minimum storage volume required to meet demand for a range of boiler sizes was calculated. Average and maximum hot water consumption figures are given for each type of building. These were used to devise sizing curves which are published in 'A guide to hot water plant sizing for commercial buildings' by British Gas.
Jones P	1983	Awash with hot water	Journal of Chart. Inst.Bldg.Serv.	Journal			May	v5 n5 p47-48	
Jones P	1982	The consumption of hot water in commercial buildings	Bldg.Serv.Engng. Res. Tech	Journal				v3 n3 p95-109	
Kumar S et al	1987	Hot water usage of a large hotel in Southeast Asia	ASHRAE Transactions	Journal				v93 p826-831	Hot water usage was monitored at 10-minute intervals over several months. Usage was not proportional to number of occupants or number of rooms occupied. Concludes that simplistic standards relating daily total hot water usage and occupancy rate should be treated with caution.
Lehr V	1989	Difficulties in sizing water heaters for hotels and motels	ASHRAE Transactions	Journal				v95 Part 1 p1069-1075	Present sizing procedures for DHW systems are not longer appropriate given the wide variety in occupancy, facilities and usage that occur in practice.
Lehr V A	1989	Hot water requirements for hotels	Heating Piping & Air Conditioning	Journal		0017-940X	October 10	v61 n10 p65-71	

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DOMESTIC HOT WATER (DHW) (continued)

Lloyd A	1985	Before and after metered data and daily load profiles of retrofit commercial heat pump water heaters	ASHRAE	Journal				v91 Part 2B p1463-1472	About 15 hotels in Hawaii have replaced their conventional central service water heating systems with central heat pump water heating systems. Both air-to-air and water-to-water heat pumps are used. The local electric utility compiled before and after performance data. The savings provided reasonable payback for the first costs of the heat pumps.
Prang J	1986	Projection of tap water storage installations	Klimaatbeh	Journal	Dutch		September	v15 n9 p315-319	Reviews design choices for DHW systems. Considers direct and indirectly heated water. Reviews storage vessel construction. discusses sizing with reference to temperature change, water consumption, comfort and efficiency.
Redlin M H de Roos J A	1990	Water consumption in the lodging industry	American Hotel & Motel Association	Report					Estimates national water consumption and average hotel water consumption. Notes four principle conservation techniques used by hotels - low-flow shower heads used by 77% of hotels, low consumption toilets used by 33%, reclamation of laundry waste-water by 4% and use of 'gray' water for irrigation.
Rigaud J	1975	Hot water in the hotel industry	British Gas Translation					T3549	
Ruby C	1986	New electric hot water supply systems in existing hotel and restaurant installations	Rev. Tech. Batim.Constr.Ind	Journal	French	0397-9296		n112 p9-16	
Sabrsula L	1988	Designing plumbing systems for high rise facilities	Consul Specif Engr	Journal			February	v3 n2 p44-51	
Scheel H Tesch P	1986	Energy conservation measures in the Grand Hotel Berlin	St Gebaud	Journal	German			v40 n6 p165-167	Describes the measures being taken to reduce heat energy consumption by using the waste heat from the cooling plant to pre-heat the domestic hot water.
Scheidecker J Rottenberg J Marchin P	1986	Measurement of hot water consumption in hotels	Promoclim E Genie Energetique et Climatique		French			v17 p3-31	Energy consumption is compared for morning and evening periods in summer and winter for two French hotels of differing size and location.
Shaw R	1990	AH&MA gives stats on surveyed hotels' water consumption	Hotel & Motel Management				November 5	pB-2, B-28	Reports on the American Hotel and Motel Association's report 'Water Consumption in the Lodging Industry' by Redlin and deRoos

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ENERGY MANAGEMENT

Alereza T	1990	End-use metered data for commercial buildings	ASHRAE	Journal				v96 part1 p1004-1010	
Ambler R	1992	Energy management audits: a good idea	HSSS Newsletter	Journal			September	p10	Suggests an inexpensive path which may be taken by managers to examine their energy consumption and find ways in which the ever-growing expense may be reduced.
Andreson D Crowell C Charles R Sponsel S Clarke M	1982	Behaviour management in the public accomodations industry: a three project demonstration	Journal of Organizational Behaviour Management	Journal		0160-8061	Spring/Summer	v4 n11/2 p33-66	Reports a study into cleaning activities of staff in a large urban hotel. Three programmes for improvement incorporating specific objectives were introduced, and performance was measured. Improvements in performance correlated with intervention by the study team.
Anon	1979	Energy conservation in hotels. Management plant and engineering	Italy ENEL/IEA	Conference	Italian				
Anon	1979	Energy conservation: a guide to the hotel and catering industry on how to save it.	Hotel and Catering Industry Training Board London			OP.3100.260.17			Purpose of guide to suggest ways and means of conserving energy. Stage 1 - commitment; 2 information gathering; 3 monitoring and saving; 4 training. For really effective savings: obtain commitment; appoint energy managers; carry out energy audit; examine all ways of saving energy; communicate results in financial and other ways; maintain constant review of ways of saving energy and new techniques for using energy; 'save it' always. Appendix 1 contains a checklist.
Anon	1980	Are you switched off properly?	Catering & Hotel Management	Journal			May	p21-22	
Anon	1980	Successful energy management	Hotel & Motel Management	Journal			February	v11 p51	
Anon	1984	Managing energy (Speakers' notes and audience booklets)	Department of Energy	Leaflets		DEn ref 1985/255			Leaflets in association with films (15 mins). Films available on free loan from: CFL Vision, Chalfont Grove, Gerrards Cross, Bucks. SL9 8TN. Film/Leaflet 20 is on hotels.
Anon	1984	University reaps benefit of advice on energy waste	Energy Management	Journal			October	p12	Designers, owners and operators of buildings can profit by taking advantage of a nationwide service of information and advice offered by the Electricity Boards. One example comes from Nottingham University.
Anon	1984	Energy guzzling buildings lose £500m a year	Energy Management	Journal			October	p1 11	Energy Secretary Peter Walker launches a new campaign to combat waste.
Anon	1984	Making buildings pay	Department of Energy	Report		DEn ref 1985/145			Profile 1: Improved energy management in Selby Fork Hotel. Profile 5: Reduced lighting costs in Ladbroke Warwick Hotel. Profile 6: Reduced heating and electrical energy costs in hotel bedrooms - Ladbroke Basingstoke Hotel.
Anon	1985	Training feature	Energy Management	Journal			June		Special supplement stressing the importance of training in energy management.
Anon	1985	Energy saving in hotels	Department of Energy	Report		DEn ref 1985/138			

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Anon	1987	World No 1 by 1990	Energy Management	Journal			January	p1-3 4	From bottom of the world's energy efficiency league in 1983 to the top by the end of the decade. That is the target set by the Energy Secretary Peter Walker.
Anon	1988	Energy management strategies for saving	Lodging Hospitality	Journal			April	p147-149	
Anon	1988	Is energy conservation compatible with good indoor air quality?	The Consultant	Journal			Spring	p51-52	
Anon	1988	Cutting energy costs in pubs	Energy Management	Journal			October	p32-33	
Anon	1988	Utility costs can be controlled	British Hotelier & Restaurateur	Journal			October	p24-25	Management can act to control energy costs.
Anon	1988	Think comfort and savings in energy control	Lodging Hospitality	Journal			November	p71-72	
Anon	1989	Experts address energy issues	Restaurants and Institutions	Journal			December 25	p78-91	Professionals discuss ways to maximise energy while cutting costs.
Anon	1989	Keeping tabs on energy costs	Lodging Hospitality	Journal			January	p83-86	
Anon	1989	Gas	Hotel & Catering Review	Journal			May	p41-43	Gas is more than just alternative energy.
Anon	1989	Hotels cut fuel bills	Caterer & Hotelkeeper	Journal			October 5		Last year Embassy Hotels saved 5% on energy costs on the previous year. The company requires monthly computer audits from its 44 hotels on energy use. It uses low energy lights and will install combined heat and power systems. Hilton National newly built hotels have key card energy control switches which switch off bedroom power and lighting circuits when rooms are unoccupied.
Anon	1989	Waste that goes west	Hotel Management Today	Journal			November		Five Best Western Hotels are saving up to £50 000 a year each as part of a monitoring and targeting (M&T) scheme sponsored by the Department of Energy. Other hotels belonging to the consortium are likely to follow their lead.
Anon	1990	Energy	Hotel & Catering Review	Journal			May	p33-39	Gas and electricity complement energy efficiency in hotel and catering operations.
Anon	1990	Energy efficiency in hotels	British Hotelier & Restaurateur	Journal			February	p18-20	Description of monitoring and targeting project in Best Western Hotels with EEO support.
Anon	1991	Pub's cellar gets a lift with a bright idea	Publican	Journal			January 14		The Black Bull in Rochester recycles heat to keep the cellar restaurant warm and dry.
Anon	1991	Energy efficiency in the Small Business sector	NatWest Small Business Digest	Journal				p4-6	This article is the first in a series of two examining the positive benefits small firms can enjoy from increased energy conservation and efficiency.

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Anon	1992	Controlling the cost of comfort	British Hotelier and Restaurateur	Journal			Jul/Aug	p26-27	At London's Inter-Continental energy bills have been cut, maintenance streamlined, temperature levels controlled and cold stores monitored. The computerised Building Management System should pay for itself in three years.
Anon	1992	Saved by the bill	Leisure Week	Journal			October 9	p12-15	What can you do to cut your energy bill? Probably a lot more than you think.
Anon	1992	Cash for energy saving	HSSS newsletter	Journal			November		Hotels which are concerned about reducing their overheads and care about the environment can now apply for government funding to help with the cost of energy efficiency consultancy to help cut their fuel bills. The money comes from the Energy Management Assistance Scheme launched recently by the Energy Efficiency Office of the Department of Environment.
Anon	1992	Environmentally friendly hotels	Caterer & Hotelkeeper	Journal			December 10	p12	The Inter-Continental Hotels group is distributing energy management directives to its hotels worldwide. They recommend hotels to monitor energy use as part of efforts to reduce consumption. A 134-point checklist covers environmental issues. The Inter-Continental Hotel in London was awarded Westminster Council's energy conservation award, and the hotel engineer at the Mayfair Hotel won an individual award as a result of his efforts to motivate and educate staff about energy conservation and recycling.
Anon	1993	Consultancy can bring down costs	Catering South West	Journal			January		Describes some of the technical opportunities for saving energy including low energy lighting, efficient refrigeration and CHP. Announces the Department of Environment's Energy Management Assistance Scheme which gives grants towards energy surveys.
Anon	1993	Cheap gas laughing all the way to the bank	Catering in Scotland	Journal			February	p38-39	Hoteliers, restaurateurs and caterers can save 5-10% on their gas bills if they switch from British Gas to an independent supplier.
Anon	1993	Cheap Gas	Hotel & Catering Bulletin	Journal			Summer	p95-96	Deregulation of the gas industry has allowed large users to buy from an independent supplier instead of British Gas at significant lower prices.
Anon	1993	Energy efficient	Leisure Management	Journal			May	p58-60	Buildings account for just under half the nation's annual energy bill and carbon dioxide emissions.
Anon	1993	Saving energy	Publican	Journal			May 31	p12	The energy busters.
Anon	1993	Audits are first step toward conservation	Hotels(USA)	Journal			June	p66	An engineer outlines key phases in an energy audit.
Anon	1993	Red Lion wins energy award	Hotel & Motel Management	Journal		0018-6082	June 21	v208 n11 p52	Red Lion Hotels and Inns received the City of Portland's Best Business Award in recognition of outstanding efforts in energy and water conservation.
Anon	1994	Are you burning your money?	Pub Food Business	Journal			September	p75-76	It makes no sense to increase revenue if your costs are going up just as fast or faster, and energy efficiency is a way to save significant amounts.

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Anon	1994	The hospitality industry and energy management	Australian Journal of Hospitality Management	Journal				v1 n1 p9-12	The objective of promoting the efficient use of energy is to be applauded.
Anon	1994	Fuel for thought	Caterer & Hotelkeeper	Journal			March 3	p54-57	Weighing up the pros and cons of using electricity or gas is a trick business, particularly now that UK energy measurements have been brought into line with Europe.
Anon	1994	Cutting the current account	Leisure Week	Journal			June 10	p17	As gas and electricity supply markets open up, bills are coming down.
Anon	1994	Powerful savings	Hotel and Motel Management	Journal			December 12	p19-20	Three hotels save thousands of dollars by purchasing power direct from a provider of natural gas.
Anon	1995	Cutting gas supply costs through the BHA	Voice	Journal			January	p25	Gas is an essential commodity and unavoidable business expense for the vast majority of members of the British Hospitality Association. Explains how to take advantage of deregulation of suppliers.
Anon	1995	Energy savings	Hotel Proprietor	Journal			Spring	p6-10	A switch from British Gas to save money is almost certain for the average hotel. But how can you be sure you get the best deal lowering those overheads while enjoying a friendlier, more flexible and generally more responsive service?
Arbel A Ravid S	1983	The differential impact of gas shortages and fuel price increases on demand the case of the hotel industry in New York State	Energy J-IAEE	Journal			April	v4 n2 p165-7	
Aulbach R E	1988 (2nd edition)	Energy and water resource management	Educational Institute of the American Hotel & Motel Association	Book					250-page text book of the practice of managing energy. Describes energy audits and surveys, setting performance standards, utility bills and management information systems, and how to implement an energy management program.
Barnes J	1987	Energy management systems in food service consulting. A UK experience.	The Consultant	Journal			Summer	p57 58	
Benfield D	1993	Natural gas marketing firms fuel energy efforts	Hotel & Motel Management	Journal		0018-6082	Feb 22	v208 n3 p26	With deregulation of the natural gas industry hotels have a choice of sources for their supply. Gas marketing firms should offer forecasting of gas use patterns flexible scheduling to accommodate variable use and up to date savings records and analyses.
Boddington E	1987	Three case studies	Profit through energy efficiency in public houses, Buxton.	The Brewer Society Conference			Nov/Dec		
Breen T	1989	Keeping tab on energy costs	Lodging Hospitality (USA)	Journal			January	p69-70	Common sense and dedication to the basics are the best ways a lodging operator can keep unnecessary energy costs in check.

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Breen T	1992	Saving energy is no riddle any more	Hotels (USA)	Journal			November	p26	Deals with energy saving measures in common areas. Cites the programmable building energy management system at Dallas/Fort Worth Airport Hilton which controls all temperatures from one computer located in the engineering department. The computerised system generates reports on energy use, and reports on when mechanical repairs are needed.
Bridewell L	1984	Energy cost controller	Caterer & Hotelkeeper	Journal			December 13	p57	The consumption and cost of energy used at the Exeter Arms pub/hotel in Exeter is being monitored closely.
Brown N	1995	Supply side economics	Leisure Week	Journal			March 5	p19-20	As the government steps up its deregulation of the electricity and gas markets, operators can switch suppliers to cut fuel bills.
Caffall C	1992	Total quality management	Energy Management	Journal			Nov/Dec	p25	TQM can be used to promote energy efficiency techniques.
Chow W Chan K	1993	A survey of the electrical energy requirement of hotels in Hong Kong	Energy Engineering	Journal				v90 n6 p33-42	Electrical energy consumption in commercial buildings accounts for about 50% of the total electricity produced in Hong Kong. A survey was carried out of the actual consumption in 20 hotels in Hong Kong to establish norms for the buildings in use and devise energy management programmes. The significance of the various end use components of the total electrical energy requirement is discussed.
Coad J	1992	Space heating and hot water in public houses	Energy Management	Journal			Mar/Apr	p24-25	With an annual UK energy spend of £500 million in public houses 40% of which can be pinpointed to space heating and hot water it is important that heating requirements are minimised while still providing a good service to the public.
Crockford D	1990	How to save energy	Hospitality	Journal			February	p14-15	Describes the new monitoring and targeting systems used in THF and Best Western hotels.
Dale J Kluga T	1992	Energy conservation: more than a good idea	Cornell Hotel and Restaurant Administration Quarterly (USA)	Journal			December	30-35	Energy costs are between 2 and 6 percent of a property's operating budget. To reduce energy use and costs, develop an energy management program. Start by compiling energy bills to learn how much energy is used. Then prepare an inventory of the condition, capacity, and operating schedules of all major equipment. Correlate these data with occupancy schedules. Conservation involves changes to operations and maintenance procedures, or installing replacing or modifying systems. The audit can benefit from a consultant who analyses all the data, recommends appropriate energy-saving measures, and writes the final report in a narrative style. Many utilities offer financial incentives, such as cash rebates, to help commercial customers install energy conserving equipment.
Daly E	1993	Start by switching off	Hotel & Restaurant Magazine	Journal			March	p47-48	Even at a hotel the size of the Inter-Continental at London's Hyde Park Corner, energy saving begins with switching things off.

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Dawes J	1988	Heating and energy - are you in the red or in the black	Leisure Management	Journal			January	p69-70	Advice on cost-effective energy management.
Dawes J	1991	Save it	Leisure Management	Journal			November	p56-58	Energy and the environment are the watchwords of Energy Management policies in the 90s.
Dawn T	1993	War on waste - who cares?	Elect. Rev.	Journal			March 5-18	p22-24	Although government estimates show high potential savings from monitoring and targeting take up by businesses is slow. Describes shared savings scheme using a bureau to manage energy. Summarises potential savings for industry and includes three brief case studies one of which is a hotel.
Dresser G	1993	State of independence	Leisure Week	Journal			March 5	p10	How operators can benefit from the deregulation of the energy supply market.
Electricity Council	1981	Energy consumption of a hotel having all electric unitary air conditioning in bedrooms	The Electricity Council	Report					Reports on the properties and consumption of self-contained air-conditioning units with direct electric heaters as applied to hotel bedrooms, based on a monitored example. Monthly and annual total energy consumption are tabulated. Includes a general description of the hotel and its services.
Energy Efficiency Office	1992	Practical energy saving guide for smaller businesses	EEO & ACBE	Report					Structured approach to energy savings. Steps include: analysing fuel bills, checking tariffs, comparing performance against targets, conducting a survey and devising an action plan.
Energy Efficiency Office	1993	Energy audits for buildings, Fuel Efficiency Booklet 1	EEO	Booklet		FEB 1			Guide on how to carry out an energy audit of a building.
Energy Efficiency Office	1993	Energy Management Guide: Organisational Aspects of Energy Management, General Information Report 12	EEO	Report		GIR 12			Aimed at building energy managers, this guide covers six key aspects of energy management within an organisation. Presents a profiling technique to measure how advanced an organisation is with respect to these six aspects. Contains advice on how to improve the profile through development of policy, motivation and training, information systems, marketing and investment appraisal.
Energy Efficiency Office	1993	Reviewing Energy Management, General Information Report 13	EEO	Report		GIR 13			Related to GIR 12, contains the profiling technique to assess how well integrated energy management is within an organisation.
Energy Efficiency Office	1993	Energy Consumption in Hotels - a guide for owners and managers, Energy Consumption Guide 36	EEO	Guide			October		Six-page guide containing information on typical and good practice levels of energy use and energy costs, split by fuel and end use, for three different hotel types: luxury, business and smaller hotel. Includes advice on how to use energy more efficiently and checklist of opportunities for saving energy, divided into no-cost, low cost and capital investment measures.
Energy Efficiency Office	1994	Introduction to Energy Efficiency in Hotels	EEO						Aimed at hotel managers, premises managers and others with responsibility for hotel buildings. Introduces the steps that anyone responsible for energy needs to take to control and reduce energy consumption. Shows how to gain an understanding of energy use and indicates the methods by which savings are likely to be made. Includes case studies.

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Energy Efficiency Office	1995	Energy efficiency in hotels - energy management of a luxury hotel, Good Practice Case Study 246	EEO						Hotel Intercontinental, Hyde Park Corner, London has demonstrated that a considerable reduction in energy cost and consumption can be achieved by good management techniques together with cost-effective capital investment.
Forte J	1990	Behind-the-scenes savings	Hotel Management Today	Journal			March		Describes how the Forte group set about saving energy. Introduced a training programme to raise the awareness of management and staff and convince them energy is a controllable cost and not a fixed overhead. Made simple no-cost recommendations to managers. This was followed by low cost recommendations - items less than £250 which could be done by local maintenance team. Finally recommended capital expenditure items - but which had high return or short payback periods. Cites adoption of CHP in Forte hotels.
Fujii S Yuasa K Kim Y	1992	Evaluation of carbon dioxide emissions by energy consumption in buildings	AIJ Journal of Architecture, Planning and Environmental Engineering	Journal				n440/10 p41-48	Includes surveys of building energy systems, estimation of carbon dioxide emissions and simulation results. Efficiencies of each component of the systems are modelled in equations and estimated using heat-power demand ratios. Carbon dioxide emissions and energy consumptions are calculated by hourly base simulations.
Gledhill B	1991	Saving Energy	Caterer & Hotelkeeper	Journal			October 17	p46-47	Valuable savings of up to 20% on energy bills can be made by restaurants and hotels. Includes review of various electricity tariffs.
Goymour D	1994	Bargaining power	Caterer & Hotelkeeper	Journal			March 10	p34-38	Larger hotels have been targeted by energy suppliers set up following the second phase of deregulation in the electricity supply industry on 1 April 1994 for users with a peak demand of 100 kW or more. The article recommends that smaller hotels may, depending on their electricity use, also be able to benefit. Hoteliers need to understand their energy use before seeking discounts.
Green Globe	1994	Managing energy for hotels	Green Globe Environmental Guide	Booklet					Recommends introduction of an energy management programme, describes how to assess energy use, and recommends improved housekeeping practices and low-cost measures to conserve energy.
Haddlesey P	1994	Warming up to energy efficiency	European Hotelier	Journal			September	p42-44	Are you literally burning your profits? This article, written by a heating expert reviews possible improvements to walls and windows, zoning and control systems, and occupancy linked controls including those linked to a check-in system.
Hall G	1983	Energy management in hotels and catering	Department of Energy	Report					
Hardcastle S	1986	Cutting energy costs	Caterer & Hotelkeeper	Journal			June 12	p79-82	High fuel bills needn't be inevitable. Sensible choice of equipment and economical usage of power can significantly reduce costs.

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Harrington S Swift M	1993	Utilities	Leisure Week	Journal			June 25	p12-17	How deregulation of gas and electricity is helping to reduce energy bills.
Hasek G	1992	The Rebate Debate: Utility Companies Offer Cash Incentives to Save Energy	Hotel & Motel Management	Journal		0018-6082	February 3	v207 n2 p27-28	Rebates are offered by electricity utilities to businesses that install energy saving fixtures and equipment. Up to 50% of the product costs can be covered by a rebate. The Marriot Marquis of New York Hotel has cut its monthly electricity bill by \$50,000.
Hasek G	1992	Hilton Riverside cultivates leadership role	Hotel & Motel Management	Journal			November 25	p20	Reports on waste management at the 1,602 bedroom New Orleans Hilton Riverside and Towers. The hotel's resident manager is quoted as stating that department heads and supervisors must undergo energy management training.
Hatfield S	1989	Why waste energy paying big fuel bills?	Restaurant Business	Journal			February 21	p16-18	
Howarth Consulting	1992	United Kingdom Hotel Industry 1992	Howarth Consulting	Report					Financial review of the UK hotel industry, including breakdowns of hotels' costs and revenues.
Kannan K	1987	Development of energy conservation requirements in Malaysian buildings	ASHRAE	Conference			September	293-301	
Kersey J	1989	Energy efficiency in the refrigeration industry	Energy Management	Journal			August	p8-9	
King S	1987	Is inefficient energy use eroding your profits?	British Hotelier & Restaurateur	Journal			September	p18-19	
Lawson F Gowling B	1984	Use of energy in hotels	Tourism Management	Journal			December	p313	Most hotel managers are aware of the cost of energy but it would appear from national survey that very few can quantify how this energy is used.
Lawson F	1983/ 1986	Energy use in the hotel industry of Great Britain	Department of Hotel Catering and Tourism Management University of Surrey	Report		Department of Energy report ref 1985/187			
Long D	1989	Brewing up energy efficiency	Energy Management	Journal			April	p10-11 13	The Brewers Society with membership representing 99% of UK beer production has been involved in an industry-wide campaign to promote energy efficiency since 1978.
Maclaine D	1995	The power to change	Caterer & Hotelkeeper	Journal			April 27		Explains how to go about switching to cheaper electricity suppliers.
Martinez M	1989	Monitoring of electrical end-use loads in commercial buildings	ASHRAE	Journal				v95 Part2 p1070-1074	
Mathur G	1985	Energy conservation in hotel buildings	J Inst Eng India part AR	Journal			July	v66 p25-27	

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ENERGY MANAGEMENT (continued)

McNaught C	1993	Making the connection: using electricity and saving money	Energy Management	Journal			Nov/Dec	20-21	Manufacturers who rely on electricity to power their factories and machinery could be saving thousands of pounds on their production costs by following simple procedures outlined in Fuel Efficiency Booklet No. 9.
Nakahara N et al	1984	Investigation on energy consumption of various kinds of buildings	J Soc Heat Air Condit Sanit Engrs Japan	Journal	Japanese (with English abstracts)			v58 n11 p1117-1127	Presents the results of a questionnaire study of the energy consumption and the characteristics of building and air-conditioning installations in various buildings in Japan including a hotel.
Napper S	1992	A warm glow inside	Inside Hotels	Journal			Feb/March	p51-54	Providing limitless hot water, cosy rooms and 24-hour lighting need not mean huge energy bills. Describes the energy packages on offer which cut costs but not standards
Napper S	1993	Filling the generation gap	Inside Hotels	Journal			Apr/May	p59-62	Inefficient generation of heat and light can burn away at a hotel's profits. Considers alternative solutions.
Newborough M Probert S	1988	Energy-thrift opportunities for operators of public houses in the UK	Applied Energy	Journal		0306-2619		v31 n1 p31-57	
O'Keefe J	1978	Basic steps in trimming your energy bill	Canadian Hotel and Restaurant	Journal			May	p36-38	Opportunities for savings in hotels, motels and restaurants are widespread. Basic steps are: top management commitment, an audit of where energy is used, inspection of fabric and services, low-energy lights, good housekeeping, routine maintenance, regular inspections, and energy saving appliances including refrigeration. Solar power and other alternative energy sources are too far in the future for sensible consideration here.
O'Meara A	1993	Energy conservation stays top priority	Hotel & Catering Review	Journal			May	p37-40	Every year Irish hotels spend vast amounts of money on energy sources in order to maintain excellent hospitality services for their guests.
Pannell Kerr Forster Associates	1992	Outlook in the hotel and tourism industries: UK Trends 1992 edition	Pannell Kerr Forster Associates	Report					Annual report on the financial state of the hotel industry, including breakdown of operating costs and revenues.
Popham P	1993	Beds in ballrooms and boxes	Management Today	Journal		0025-1925	May	p79-80	Describes the world's largest hotel the Okura in Tokyo. It has 5000 rooms. These are very small to economise on space - and therefore on energy.
Read D	1994	Cut your gas bill	Hotel and Catering Business	Journal			October		Deregulation of gas suppliers provides opportunities for negotiating with alternative suppliers.
Reiley J	1987	Separately metered heating and air conditioning energy in commercial buildings	ASHRAE Transactions	Journal				v93 Part2 p2055-2064	A utility in Pennsylvania offers various tariffs. Submetering to separate heating and air conditioning from general load enables advantage to be taken of a reduced electric rate from October to May. Includes billing history including summary cost data for a restaurant.

ENERGY MANAGEMENT (continued)

Author	Year	Title	Journal/ Publisher/ Source	Document Type	Language	ISBN-ISSN Report Number	Month & Day	Volume Number Page	Abstract
Rutherford D	1987	The evolution of the hotel engineer's job	Cornell Hotel & Restaurant Administration Quarterly	Journal		0010-8804	February	v27 i4 p72-78	Chief engineer's job requires broad knowledge and management ability in providing engineering support to all areas of the hotel. A survey of 74 CE's showed communication; organizing; training; and maintaining a safe environment as high ranking concerns. Other priorities include energy; relationships with other managers and equipment maintenance.
Sall B	1993	Buying energy wisely	British Hotelier & Restaurateur	Journal			June	p23-25	Deregulation and privatisation are introducing competition into the Gas and Electricity supply industries.
Seal K	1991	Energy-Saving Programs Can Zap Utility Bills	Hotel & Motel Management	Journal		0018-6082	Mar 25	v206 p5	John Studebaker gives seminars on utility cost containment. He recommends analysing utility bills and tariffs. Energy management systems are recommended. Hoteliers should also study rebates available from utilities for customers who retrofit energy efficient devices.
Seipp J	1986	Energy management and energy management systems in Marriott Hotels	The Engineered Environment CIBSE/ASHRAE Conference Dublin	Conference			September	p83-95 697	Cites Marriott Hotels to exemplify a corporation's energy management philosophy, discipline and techniques. Discusses means of achieving energy management goals. Presents examples and suggestions. Discusses the technical and economic benefits of energy management in general and control systems in particular.
Sharman P	1989	Cut the bill but keep the chill	Energy Management	Journal			August	p10-13	
Sher B	1987	Energy management for the hotel industry	Prentice-Hall Englewood Cliffs NJ USA	Conference		0-13-850686	October	p329-330	
Simons C	1992	Matching demands with good management	Hospitality	Journal			June	p15-16	Cut energy costs and you cut overheads, contribute to the conservation of resources, and become more environment concious, all in one fell swoop.
Stipanuk D M Roffman H	1992	Hospitality Facilities Management and Design	Educational Institute of the Americal Hotel & Motel Association	Book		ISBN 0-86612- 046-7			490-page textbook describing building fabric, building services and systems, design and planning, operation and maintenance of plant and equipment, and facilities management.
Taneja Y	1988	Energy Management in Hotel Buildings	Energy Management- India	Journal			Oct-Dec	V12 No4 337(4)	
Teo V	1994	Power bargaining	Caterer & Hotelkeeper	Journal			December 1		Privatisation of British Gas and the regional electricity boards has opened opportunities for companies consuming large amounts of energy to shop around. Reviews some of the options.
The Brewers Society	1987	Profit through energy efficiency in public houses	Brewers' Society Energy Conference, Buxton	Conference			Nov/Dec		Set of 13 papers presented at Brewers Society Conference. Topics addressed include energy management and good housekeeping; architectural design; tariff analysis; monitoring and targeting; and catering.

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Tinson R	1989	Contract energy management	Energy Management	Journal			June	p23-24	Contracting out energy management.
Troy T	1993	Energizing savings	Hotel & Motel Management	Journal		0018-6082	August 16	v208 n14 p31-33	With sources available to assist in purchasing Energy Management systems operators should educate themselves and audit their properties before making decisions.
Troy T	1994	Plugging in to savings	Hotel & Motel Management	Journal		0018-6082	April 25	p25, 33	In US utility companies offer rebates to hotels to save energy - as a way of reducing the need for new power plants. Includes case study information on hotel survey which recommended energy efficient lights, variable speed drives for HVAC systems and improved use of the hotel's building energy management system through staff training. Also lists ten energy saving ideas.
Tungate M	1993	Making economise that aren't false	Leisure Week	Journal			March 5		Saving energy means saving money. This article shows how the task is easier than it may seem. Discusses cases where tariffs have been checked, low energy lamps fitted and time clocks for heating installed.
Turiel I Craig P Levine M McMahon J McCollister G Hesterberg B Robinson M	1987	Estimation of energy intensity by end-use for commercial buildings	Energy	Journal		0360-5442	June	v12 n6 p435-446	Reports on a study to estimate electricity use per unit of floor area for seven end uses across nine building types. Compares the results with other studies and notes reasonable agreement but some discrepancies.
Tyler G	1991	Power to the people	Caterer & Hotelkeeper	Journal			July 25	p30-31	Efficient plant is only part of the answer to rising energy costs. Other considerations are price of energy and the way its use is controlled.
Tyler G	1994	Within your power	Hotel & Restaurant Magazine	Journal			October	p49-53	Slashing energy costs has never been easier, nor does it require a large investment. Practical advice on a range of options.
Warriner D	1992	Energy management of buildings	Energy Management	Journal			Nov/Dec	p17	In a difficult economic climate effective energy management can help reduce the costs and improve corporate performance.
Wegerif C	1992	Save energy save cash	Hospitality	Journal			June	p17-18	
Western J	1990	In the hot seat	Caterer & Hotelkeeper	Journal			February 15	p65-67	Heating comfort and costs.
Wetherington T	1971	Energy use in high-rise apartments and motels	Bldg. Sys. Des.	Journal			May	v68 n5 p31-34	
Whitehall B	1984	Using energy wisely	Popular Foodservice	Journal			Dec/Jan 85	p65 68 70 72	With this winter's jump in electricity costs and the prospect of more to come in response to this year's protracted mining dispute the Save It message has never been more relevant to the high street caterer. This article looks at the latest energy saving systems now on the market.

ENERGY MANAGEMENT (continued)

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Whitehall B	1993	The energy market opens up	Catering Update	Journal			July	p71-74	As deregulation hits the gas industry, bills could become lighter. Shopping around has always been good advice when choosing equipment for your hotel or restaurant. But would you do the same when buying the energy which powers that equipment?
Whitehall B	1994	The costs of cooling it	Caterer & Hotelkeeper	Journal			13 Jan	p48-50	Serve-yourself food displays offer customers an open invitation to buy but many systems are costly to run. The benefits of easy access must be weighed against the costs of electricity.
Whitehouse E	1976	How to save energy	Caterer & Hotelkeeper	Journal			October 7	p58-59	
Wood A	1989	Profit from power	Caterer & Hotelkeeper	Journal			June 29	p50-52	Describes strategies for saving energy. First win over staff and offer training. Install sub-meters for kitchens. Ensure adequate controls in kitchen equipment. Use equipment at full capacity. Use heat recovery. Change to a condensing boiler. Use heating controls such as optimum start controls on boilers, and zone controls.
Yorke J	1992	Fancy 6000 free pints a year	Publican	Journal			April 6	p15-16	Your gas and electricity bills might make you wince but have you ever thought about how to cut them down? Lecturer Martin Jew runs energy saving courses for Bass. Introduction to a two-page supplement entitled Focus on Kitchen Equipment and Energy Supply.

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ENVIRONMENTAL MANAGEMENT

Anon	1993	The greenhouse effect: fact or fiction	FSTT	Journal			March	p3-9	Asks what is the greenhouse effect and what causes it. Sets out to clarify some of the issues and sort out the fact from the fiction.
Anon	1993	Hoteliers join forces on green issues	Caterer & Hotelkeeper	Journal			May 27		The International Hotels Environment Initiative was launched by Prince Charles before an audience of 200 senior industry figures last week. The mainstay is a comprehensive manual which enables a hotel to monitor and improve on its environmental impact. It includes information on waste management, energy and water conservation, product purchasing and air quality.
Anon	1993	Park Plaza reaps rewards of recycling	Travel Trade Gazette UK & Ireland	Journal			September 23		The Boston Park Plaza hotel is becoming well known for a series of green initiatives estimated to be saving more than \$200,000 per year. Actions include toiletry dispensers in guest rooms, water-saving shower heads, and recycling of all possible materials.
Anon	1994	Ecological comparison	European Cleaning Journal				April/May	p107-110	The Ministry of the Environment in Germany recognising recent concern of the ecological acceptability of the main hand-drying media (warm air driers, paper towels, and textile towels) has produced a report comparing the three systems.
Anon	1994	Putting research into practice - the WTTERC	Tourism Management				August	p299-301	In September 1991 the World Travel and Tourism Council (WTTC) a global coalition of chief executives from all sectors of the travel and tourism industry, established the World Travel and Tourism Environment Research Centre (WTTERC). This aimed to bring together the elements needed to provide good environmental practice in the industry and provide a catalyst for responsible tourism policies.
Bard S	1991	Expanded recycling program to include 159 Hyatt hotels	Hotel & Motel Management	Journal		0018-6082	June 26	v206 n10 p52	
Bard S	1991	Coastal's commitment emphasizes education	Hotel & Motel Management	Journal		0018-6082	September 23	v206 n16 p61-62	
Bartlett N	1994	Rubens paints a green image with curb on TV	Caterer & Hotelkeeper	Journal			9 June		Housekeeping staff at the Rubens Hotel in London are to be told to ensure all televisions are switched off when not in use rather than left in standby mode. The move is designed to save energy - and follows a complaint by one of the hotel's guests.
Bernard L	1995	IHEI - pooling worldwide experience to share with individual proprietors	Voice	Journal			February		Environmental management makes excellent business sense. IHEI, focussing on the hotel sector exclusively, encourages improvement in performance through its manual 'Environmental Management for Hotels', and other publications. IHEI also produces 'Green Hotelier', a quarterly hotel-environment journal focussing on environmental success stories.
Bernard L	1995	Think global act local	Voice	Journal			March		Environmentally sound management can improve systems, enable the hotel to operate more efficiently and offer higher service standards to guests.

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ENVIRONMENTAL MANAGEMENT (continued)

Bernard L	1995	Environmental Action Pack for Hotels	Voice	Journal			May		Describes the recently launched Environmental Action Pack. This is written in non-technical language, focusses on non-technical detail, is action-oriented and recommends a straightforward approach with good planning and regular monitoring.
Bernard L	1995	Hotels and the environment	Housekeeping Today	Journal			May/June	p4-5	Describes the objectives and benefits of the International Hotels Environment Initiative programme and talks about the important links between the hotel and the environment.
British Standards Institution	1994	BS 7750:1994 Environmental Management Systems	BSI	Standard		BS 7750:1994			Voluntary standard dealing with management structures, action plans and review process.
Building Research Establishment	1993	Building Research Establishment Environmental Assessment Method	Building Research Establishment	Report					Environmental assessment method available for various building types. Each contains guidance on minimising the adverse affects of buildings on the environment. No standard yet available for hotels or catering.
Clavey J	1992	Environment Initiative	Caterer & Hotelkeeper	Journal			May 28		Nine of the world's biggest hotel groups have joined forces to launch the international hotels environment initiative. More than a million rooms are already represented. The cornerstone is a substantial environmental manual which explains how to improve environmental performance and offers a checklist for hotels to conduct their own environmental audit. It is hoped it will be adopted by the entire hotel industry as a voluntary code of practice. Inter-Continental links staff bonuses to hotel's performance in its quarterly environmental audit.
Cook S	1990	Rooms with a hue	The Guardian	Newspaper			20 April		Reports on waste management at the Inter-Continental Hotel in London where glass, cooking oil, and paper are recycled.
Eardley S	1993	Prince pushes environment initiative	Hotel & Motel Management	Journal		0018-6082	May 10	v208 n8 p1 and 15	Announcement that the Prince of Wales will launch the International Hotels Environment Initiative on 21 May 1993. Organised by The Prince of Wales Business Leaders' Forum, it has support of 11 of the world's leading chains with more than one million rooms worldwide. Its aim is to support good environmental practice within the hotel industry.
Fletcher K	1994	Striving for excellence: communicating environmental quality in the hotel industry	IHEI	Book					Provides guidelines for successful implementation of an environmental management programme. Recommends an initial review to examine current practice, followed by introduction of an environmental policy and ways of implementing it through training, education, and communication. Includes examples of environmental policies, and case studies of six hotel groups.

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Forte Hotels	1993	Going Green: a Forte News special supplement	Forte News	Journal			May		Eight-page special supplement with number of articles about how the actions Forte is taking in response to green issues. Includes article on CHP in Forte hotels, efficient lighting at Forte Crest Brighthouse, and other areas where green policies are being practised such as waste management. Includes description of Forte's involvement in the International Hotels Environment Initiative.
Forte J	1992	CFCs, Energy, Waste, Water re-cycling	British Hotelier & Restaurateur	Journal			September	p10-11	Reviews environmental policies which are paving the way for cost savings with contract caterer, Gardner Merchant.
Forte J	1992	Think eco-friendly and help profits	Caterer & Hotelkeeper	Journal			December 6	p19	In the fight to save our environment it is only by pooling our resources and pulling together that we can hope to survive as an industry and indeed, somewhat dramatically, as a race. Describes some of the environmental initiatives within Forte hotels.
Forte J	1993	Playing our part in saving the planet	Hospitality	Journal			Oct/Nov	p20-21	John Forte offers practical suggestions.
Fujii S Yuasa K Kim Y	1992	Evaluation of carbon dioxide emissions by energy consumption in buildings	AIJ Journal of Architecture	Journal				n440/10 p41-48	
Gatty B	1991	Concern for the environment is no passing fad	Hotel & Motel Management	Journal		0018-6082	October 21	v206 n18 p14 and p34	The host of environmental legislation enacted or pending has practical implications for a hotels business operations, from cooling systems to waste management.
Green Globe	1994	Waste minimisation for hotels	Green Globe Environmental Guide	Booklet					Recommends introducing a management strategy to reduce waste, including measuring current levels of waste, identifying priorities, setting targets and monitoring progress. Includes checklist of no-cost and low-cost ways of saving.
Hart W	1993	The three Rs	Cornell Hotel & Restaurant Administration Quarterly	Journal		0010-8804	October	v34 n5 p18	Reduction, re-use and recycling are the basis of most environmental initiatives currently being pursued in the hospitality industry. The International Hotels Environment Initiative represents 11 industry giants devoted to the promotion of high environmental standards.
Hasek G	1991	Atlanta Ramada Wins Annual "Green Award"	Hotel & Motel Management	Journal		0018-6082	May 27	v206 n9 p49-50	The Ramada Renaissance Hotel received the American Hotel and Motel Association's 10th Annual Environmental Quality Achievement Award from 15 finalists. Energy conservation measures adopted include relamping with efficient light bulbs and adjusting guest room water heaters down to 130F. Water consumption has also been reduced by low-flow shower heads, flushometers and water sensors in automatic sprinklers.
Hasek G	1993	Seminar's focus is ecology	Hotel & Motel Management	Journal		0018-6082	May 24	v208 n9 p8 and 49	Reports on a seminar held during the American Hotel and Motel Association's annual convention which provided delegates with information on how reduce waste and trim electricity and water consumption.
Henderson G	1989	Building energy efficiency and the greenhouse effect	Energy Management	Journal			Nov/Dec	p27-29	Buildings account for about half of the UK energy consumption and a similar fraction of carbon dioxide emissions to the atmosphere.

ENVIRONMENTAL MANAGEMENT (continued)

Author	Year	Title	Journal/ Publisher/ Source	Document Type	Language	ISBN-ISSN Report Number	Month & Day	Volume Number Page	Abstract
International Hotels Association, International Hotels Environment Initiative and United Nations Environment Programme	1995	Environmental Action Pack for Hotels	IHEI			1-899159-01-0			Environmental management manual in the form of a spiral bound pack containing advice on setting up an environmental programme, and providing checklists and blank forms to help establish it. Recommends a four-stage process of 1) carrying out a green health check, 2) devising actions required in each department, 3) establishing an environmental programme of continuous improvement, 4) developing actions to improve the management of energy, solid waste, water, effluents and emissions, and purchases; and promoting your green initiatives to customers and the local community.
International Hotels Environment Initiative	1993	Environmental management for hotels: the industry guide to best practice	Butterworth-Heinemann			0-7506-1660-1			194 page comprehensive environmental management manual for the hospitality industry. Topics range from Asbestos to Waste Management. Includes 40-page sections on energy and water conservation.
International Hotels Environment Initiative	1995	Green innovations: worldwide directory of environmental resources for hotels	IHEI	Booklet					Reference booklet listing publications including books, reports, manuals, videos and training packs about green issues in the hotels sector. Sponsored by DG XI of the European Commission.
Jaquette L	1991	Canadian Pacific Hotels Creates "Green Plan"	Hotel & Motel Management	Journal		0018-6082	Feb 4	v206 n2 p54&58	Canadian Pacific Hotels and Resorts has initiated a green plan. Staff completed environmental audit surveys designed to identify areas where more benign practices and products could be introduced. Conservation and recycling measures are proposed.
Jaquette L	1991	Canadian Pacific gets specific with Green plan	Hotel & Motel Management	Journal		0018-6082	August 19	v206 n14 p65 68	Canadian Pacific Hotels and Resorts has developed a 16-point plan to implement a company wide green programme covering purchasing; waste management; and energy and water conservation. Measures include converting from incandescent to compact fluorescent lighting and replacing showerheads and taps with low-flow alternatives.
Jaquette L	1991	Westin shapes green goals	Hotel & Motel Management	Journal		0018-6082	November 4	v206 n19 pA49-A52	Westin Hotels & Resorts have 75 properties in 15 countries and most are involved in recycling and conservation measures. A corporate environmental plan is expected to be in operation next year. Investment is necessary to create the infrastructure.
Jaquette L	1992	Hoteliers are seeing green with ecology efforts	Hotel & Motel Management	Journal		0018-6082	July 27	v207 n13 p19-20	Boston Park Plaza and Towers implemented 65 environmental initiatives from March 1990 as part of its marketing plan. It includes guidelines for planners of meetings on how to conduct green meetings. The positive image created has increased convention business substantially. Other hotel companies are also concerned with green issues.

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Jaquette L	1993	Canadian Pacific's 'green' plan grows	Hotel & Motel Management	Journal		0018-6082	June 21		Canadian Pacific launched an environment management program in late 1990. A compliance survey for 1992 of 24 of its Canadian properties showed 68.6% of its goals were met during the first year. The survey says that motivation, education, and communication are of paramount importance to the continued success of the program. Results of the survey should be fed back to properties, and put into economic and environmental terms which can readily be understood by participants.
Jesitus J	1992	Green Business is now everybody's business	Hotel & Motel Management	Journal		0018-6082	November 2	v207 n19 p133-134	Opryland Hotel surveyed employee attitudes to recycling and initiated a programme. Participation is encouraged by keeping them informed through bulletin boards and newsletters. Large savings have resulted. Canadian Pacific Hotels and Resorts began an environmental drive in 1990, and Inter-Continental Hotels and Resorts released a manual with 130 targets for waste management and energy conservation.
Langton B	1994	Why going green makes cents	Voice	Journal				p12	Chairman and chief executive officer of Holiday Inn Worldwide led a debate on environmental programmes. He noted the combined purchasing power of hotels, which should ask suppliers for green alternatives so as to create a market for them. Described the World Travel and Tourism Council's Green Globe initiative as an environmental management and awareness programme targeted at the whole travel and tourism industry.
Lyons V	1994	Milan's green pioneer	Caterer and Hotelkeeper	Journal			April 28	p42-44	Interview with the owner of the Hotel Ariston in Milan, which claims to be the world's first truly eco-friendly hotel.
McDermid K	1993	Going Green	Hospitality	Journal			April	p14-18	Considers some of the environmental initiatives introduced by the hotel, catering and tourism industry worldwide.
Morton T	1993	Veneto hoteliers heed environment's calls	Hotel & Motel Management	Journal		0018-6082	March 22	v208 n5 p8 and 49	Reports on conference in Veneto region of Italy held to demonstrate hoteliers concern for the environment. A consortium URAV Servizi offers hotels free consultation in ecology and bio-architecture.
Perera S	1994	Reduce? Reuse? Recycle? Renew?	Housekeeping Today	Journal			July/August	p3	Following on from the Housekeepers Conference in May 94, the national chair of the Housekeepers' Association urges all housekeepers to be active and innovative with regard to environmental initiatives.
Porritt J	1992	Hotels answer the call of nature	Inside Hotels	Journal			July		Describes the launch of the International Hotels Environment Initiative. States that what has impressed him most about the initiative is its hands-on practicality, including its emphasis on management and training.

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Riggle D	1992	Resorting to recycling: hotels join the parade	Biocycle	Journal		0276-5055	October	v33 n10 p37-39	Cost savings are resulting from waste reduction and recycling. Environmental concerns are on the rise in the industry. The American Hotel & Motel Association is assembling a 'Green Book' which will address environmental issues. This should be available to members in 1993.
Seal K	1991	Boston hotel benefits from Saunders's sincerity	Hotel & Motel Management	Journal		0018-6082	November 4	v206 n19 pA49-A52	Describes environmental improvements at the Boston Park Plaza Hotel and Towers such as recycling and re-use. The workforce has been involved. The programme is being promoted as part of the sales effort of the hotel.
Sims S	1992	Eco-Logical Lodging	Successful Meetings	Journal		0148-4052	September	v41 n10 p22	At the Boston Park Plaza Hotel and Towers 85 environmental programmes have been initiated. These include energy efficient windows and water saving showerheads in all 977 guest rooms. A team of 25 employees search for and implement other ecological opportunities. Other US hotels have also initiated environmental programmes.
Stephenson S	1994	Grove Park Inn recycles more than soda cans	Restaurants and Institutions	Journal			November 15	p106	The North Carolina resort operates a left-over food recycling programme. Article also lists actions taken by the hotel to conserve resources and reduce or recycle waste.
Tarpey D	1991	Friends of the Earth	Caterer & Hotelkeeper	Journal			May 2	p38-41	Whether its organic wine, a bottle bank or recycled paper, it falls under the green banner now being raised over the hotel and restaurant industry as an alternative way of thinking dawnns. First of a three-part series on green issues.
Tarpey D	1991	Fly the Green Flag	Caterer & Hotelkeeper	Journal			May 9	p40-45	Saving energy and managing waste are the pivots of cutting costs and reducing pollution.
Tarpey D	1993	Glad to be Green	Caterer & Hotelkeeper	Journal			Jan 14	p30-35	First of a three part series on an environmental audit of the Derwentwater Hotel in Cumbria.
Tarpey D	1993	Green paper	Caterer & Hotelkeeper	Journal			Mar 11	p40-44	The audit has happened, the report is published and the Cumbrian Hotel is ready to 'go Green'. A return visit to gauge if and how it copes with the challenge.
Tarpey D	1993	Green light for action	Caterer & Hotelkeeper	Journal			October 7	p32-35	Nine months after the environmental audit of the Derwentwater Hotel in Cumbria, the author visits the hotel to discover how successful it has been in putting its green principles into practice.
Williams M	1994	Housekeepers to pool green ideas	Caterer & Hotelkeeper	Journal			May 19		The UK Housekeepers Association agreed at its annual conference to coordinate initiatives for saving energy, recycling waste and using more environmentally friendly cleaning products.

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Woodward D	1994	Greening one million beds	Voice	Journal			Feb/Mar	p14-15	Reviews actions taken at Inter-Continental hotels world-wide to conserve energy and water, reduce waste, and re-use and recycle where possible. In 1991 Inter-Continental prepared an Environmental Operating Manual which was then shared with its competitors. Subsequently the International Hotels Environment Initiative was formed and the manual used as the basis of the IHEI's guide 'Environmental Management in Hotels'.
Woodward D	1994	Greening housekeeping	Voice	Journal			July	p14-15	Describes some of the green housekeeping initiatives being pursued at Inter-Continental hotels - from the formation of an environmental committee to the purchase of quality re-cycled stationery. Ten green prototype rooms are being planned - equipped with energy saving bulbs, flow restricted showers, and stocked with environmentally friendly toiletries in recyclable packaging.
Woodward D	1994	Is going green cost effective?	Voice	Journal			September	p18	This year the Inter-Continental Hotels Group objective is to save 5% of its \$64m water and energy budget. The biggest saving was made by the Yokohama Grand Inter-Continental hotel which cut its energy and water bill by £1.6m following a thorough review of its heating and ventilating systems, and kitchens.

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HEATING, VENTILATING AND AIR CONDITIONING

Ameen A Soon A	1989	Comparative performance tests on prototype VAV and CAV air conditioning systems under simulated load conditions	ASHRAE Far East Conference on Air Conditioning in Hot Climates	Conference		0-9101-1063-8	October 25-28	p85-88	The trend in Singapore in air-conditioning is towards either constant air volume variable temperature (CAV) or variable air volume constant temperature (VAV) all air systems. But in hotels all water systems with fan-coil terminal units are most common. Use of an environmental test chamber enabled comparative energy consumptions of CAV and VAV systems to be evaluated.
Anon	1975	Hotel heating and air conditioning in France	Building Services Engineer	Journal			March	n42 pA16-A17	
Anon.	1981	First ASHRAE energy awards	ASHRAE	Journal			April	n4 p31-54	
Anon	1983	Reducing power costs in hotels	Architektur und Technik. Schweizer Bauf.	Journal	German			v6 n3 p38	
Anon	1984	The "Nova-Park" Hotel saves energy costs by a new heating concept	HeizungKlima	Journal	German			v11 n8 p36-37	
Anon	1984	Kraftheizung des hotels Sonnenalp macht sich in drei Jahren bezahlt	Sonnenenergie und Waermepumpe	Journal	German	0172-5912		v9 n2 p31-32	
Anon	1986	Heating, ventilating and air conditioning of Japanese hotels including waste water and refuse treatment	J. SHASE	Journal	Japanese			v60 n9 p857-950	
Anon	1988	Keeping cool at Grosvenor House	Building Services	Journal			February	v10 n2 p19-22	Reports on a programme for the refurbishment of the air-conditioning at the Grosvenor House Great Room London. Describes the technical constraints and tight time schedule to which the contractors had to work
Anon	1989	Energy efficiency in the refrigeration industry	Energy Management	Journal			August	p8-9	
Anon	1991	Saving graces	Elec.Times	Journal			November	p42-43	Electricity Association Business Energy Awards 1991 includes one to the Everglade Park Hotel in Cheshire with electronically controlled electric heating in the bedrooms and heat recovery elsewhere.
Anon	1991	Heat pumps pay for themselves	Lodging Hospitality	Journal			September		Individual packaged terminal heat pumps (PTHPs) have been installed in the Cross Roads Inn motel in Paris (USA) replacing a central boiler/chiller system. These give greater control under part load conditions (when occupancy rates drop), guests can control their own temperature, and substantial savings on utility costs.
Anon	1993	Making motors pay dividends	Energy Management	Journal			Nov/Dec	p18-19	An information pack to help users of Electric Motors reduce their energy costs has been produced by the Energy Efficiency Office in conjunction with the Copper Development Association
Ashley S	1986	Putting on the Ritz	Building Services CIBSE Journal	Journal			January	v8 n1 p33-37	

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Bahnfleth D	1986	Managing indoor air for energy conservation	Consulting Engineer	Journal		0010-7107	October 4	v67 n4 p41-43	Indoor air quality.
Bailey M	1990	Legionella and water management	RIBA Publications	Book		0 947877 78 9		p214-246	Reports on typical problems found in cooling towers and hot and cold water systems. Includes six case studies (one a hotel) illustrating management of water systems to ensure compliance with Health and Safety Executive guidance.
Baizhan L Shengyuan T	1989	A method of forming China's meteorological data used for analysing building and annual energy consumption	ASHRAE Transactions	Journal				v95 Part 2 p259-262	Reports on the development of a standard climatic year of meteorological data for use in estimating heating and cooling loads.
Banks N	1992	Field test of a desiccant-based HVAC system for hotels	ASHRAE Transactions	Journal				v98 Part 1 p1303-1310	Discusses the field testing of a desiccant-based dehumidification system in a hotel in Florida. A comparison between the prototype system in one wing of the hotel with a conventional system in another wing suggests the prototype maintains lower humidity and uses less energy.
Bates J	1989	CFCs and energy	Energy Management	Journal			August	p19-20	
Bosci J	1987	Conrad International hotel and Jupiter casino complex	Australian Refrigeration Air Conditioning & heating	Journal		0005-0148	September	v41 n9 p14-31	
Braham G	1991	Passive air conditioning	CIBSE	Conference				Paper 3	Describes a means of passive cooling using Termodeck hollow concrete floor slabs with mechanical ventilation. About 300 Swedish installations are successfully operating predominantly in offices but also in hotels.
CADDET: Centre for the analysis and dissemination of demonstrated energy technologies	1992	Heat recovery and prefilter coil saves energy in a hotel	CADDET Result 119	Report					Describes use of heat recovery system.
Chien P Tse V	1989	Features of the HVAC systems in a convention and exhibition centre in Hong Kong	ASHRAE Far East Conference on Air Conditioning in Hot Climates	Conference		0-9101-1063-8	October 25-28	p149-152	Describes the unique features of the HVAC systems adopted in a convention and exhibition centre in Hong Kong.
Cleary C Schuldt M	1989	Predicted vs. actual conservation opportunities in commercial buildings - lessons from measured energy performance	ASHRAE	Journal				v95 Part 2 p1075-1082	
Cohen S	1987	New HVAC system is big part of major hotel renovation	Heating Piping & Air Conditioning Journal	Journal		0017-940X	October	v59 n10 p87-88 93-98	

HEATING, VENTILATING AND AIR CONDITIONING (continued)

Author	Year	Title	Journal/ Publisher/ Source	Document Type	Language	ISBN-ISSN Report Number	Month & Day	Volume Number Page	Abstract
Dallaporta J Herant P	1988	Thermal regulations for non-residential buildings - the viewpoint of AFME	Cauff.Vent.Consit.	Journal	French		November	v64 n11 p15-21	Thermal regulations aim to reduce consumption by 25%. French Agency for Energy Management's view is they need to go further. Delays in implementation have already cost France around 500,000 tep.
de Mos P	1985	Maintenance and operation in the Hoog-Catharijne shopping centre	Klimaatbeh	Journal	Dutch		November	v14 n11 p383-385	
Deans B	1982	Hotel gets 9-month payback on HVAC project	Energy User News	Journal			October 11	p4 and 7	The Midtown Holiday Inn at Richmond Virginia invested \$45,000 in replacing heating and cooling pipework and controls which were found to be inefficient particularly in the fall and spring when both hot and chill water are needed. A new control strategy prevents the chiller and boiler from working simultaneously by alternating the two on 15-minute cycles. The chiller automatically cuts off when outside air goes below 55°F, while the boiler shuts off at 75°F. The reported payback is 9 months.
Dehii F	1989	Energy recovery in HVAC systems installed around the world	CLIMA 2000 JUKO KGH	Conference			Aug 27 - Sep 1		
Energy Efficiency Office	1992	Condensing boilers applied to public catering establishments, BRECSU Best Practice General Information Leaflet No 3	Energy Efficiency Office	Leaflet					
Energy Efficiency Office	1993	Energy efficiency in hotels - condensing gas boilers, Good Practice Case Study 41	Energy Efficiency Office						Condensing boilers for heating in hotels provide running cost savings of 10-20% and paybacks of under 5 years. They have high efficiencies using conventional system design, are easy to install and maintain, and are environmentally friendly.
Energy Efficiency Office	1994	Energy efficiency in hotels - energy efficient space heating and hot water: Ritz Hotel, Piccadilly, London, BRECSU Good Practice Case Study 245	EEO	Guide					Illustrates the savings achieved by the replacement of an old boiler plant in a project funded through Contract Energy Management. Annual consumption reduced by 40%.
Energy Technology Support Unit	1985	Refrigeration plant. The scope for improving energy efficiency. Market study No2	Energy Publications	Book					
Gatley D	1992	Designing for comfortable cooling season humidity in hotels	ASHRAE Transactions	Conference		0001-1302		v98 Part1 p1293-1302	
Gilbertson T	1989	Ice cools office-hotel complex	Heating Piping Air-conditioning	Journal			August	v61 n8 p47-52	Describes the Emerald-Shapery Centre San Diego which consists of a 30-storey office tower and 27-storey hotel linked by a 100ft glass atrium. The building's hexagonal configuration increases exterior views and minimises waste space. Thermal energy storage (TES) was installed.
Gladwell D	1974	Practical maintenance and equipment for hoteliers licensees and caterers	Hutchinson	Book				2nd edition	

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Author	Year	Title	Journal/ Publisher/ Source	Document Type	Language	ISBN-ISSN Report Number	Month & Day	Volume Number Page	Abstract
Haddlesey P	1995	Comfortable costs	European Hotelier	Journal			1st quarter 95	p60-61	Describes ventilation strategies including free cooling to reduce air-conditioning loads, and displacement ventilation which offers an efficient method of ventilation. Heat recovery and appropriate controls systems using sensors can also help to reduce energy consumption.
Hakenbeck D	1985	Heat recovery in a hotel	Elektrowaerme Int	Journal	German	0174-6189	November	v43 n6 p214-220	The heat recovery system installed at the Prinz Heinrich Hotel in Darmstadt uses waste heat from restaurant and kitchen and other rooms. A high level of efficiency is achieved and it is possible to meet the entire hot water requirements for the hotel in summer.
Hakenbeck D Schroeder F W Petersen W Vries H de	1985	Waermerueckgewinnung in einem Hotelbetrieb (Heat recovery in a hotel) in Abwaermenutzung aus gewerblichen Kaelteanlagen (Utilization of waste heat from industrial refrigerators)	Vulkan-Verl Essen Germany	Book	German			p6-12	Heat recover systems operate at the Darmstadt Prinz Heinrich hotel utilising waste heat from refrigeration. The heat is used for hot water. It is energy saving and profit yielding.
Herant P et al	1988	Thermal regulations for non-residential buildings	Cauff.Vent.Consit.	Journal	French		November	v64 n11 p15-52	Includes a short article on the effect of the new thermal regulations on the development of air-conditioning systems for the Accor chain of hotels.
Hilario J	1987	Energy conservation opportunity - air return supply heat exchangers in an air conditioning system	ASHRAE	Conference			September	p242-245	
Hough B	1988	Air conditioning	Refrig Air Condit. Heat Recovery	Journal			April	v91 n1081 p33-34 and 37	Describes small-scale packaged air-conditioning and heat pump equipment. Explains the characteristics of the equipment available including its advantages and reliability. Stresses the need for well designed systems electronically controlled by the building energy management system.
Hurst R	1971	Services and maintenance for hotels and residential establishments	Heinemann	Book					
Hutter E Francois C	1990	Analysis of the evolution which may occur with respect to the thermal performances of buildings in the non-residential sector	Champs-sur-Marne CSTB (France)	Report	French				
Institution of heating and ventilating engineers	1971	Environmental comfort in hotel bedrooms	Institution of heating and ventilating engineers	Book					
Italy ENEL International Energy Agency	1979	Energy conservation in hotels. Management plant and engineering	Conference ENEL IEA Pugnochiuso	Conference	Italian				

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Iwabucchi M Matsuo T Fujimoto M Shimada Y Narita K Maekawa T	1991	Study of high-temperature sensible heat storage system (2nd report experimental results and effectiveness of storage)	Nippon Kikai Gakkai Ronbunshu	Journal	Japanese	0387-5016	September	v57 n541 p3232-3236	Discusses heat storage system for utilizing off-peak power at night-time.
Kluckhuhn F	1971	Air conditioning for motor hotels and motels	ASHRAE	Journal			December	v13 n12 p49-52	
Knebel D Houston S	1989	Thermal storage retrofit	ASHRAE Transactions	Journal		0001-2491	May	v31 n5 p34-42	Illustrates a retrofit to modify the air-conditioning system at the 16-storey Worthington Hotel in Fort Worth USA. The system was modified to delete the heat pump mode of the system and enhance the ice storage system. More than 850 kW are saved during times of peak electrical demand. Illustrates the system through schematics and provides detailed tables of performance.
Korn G	1989	Heat pumps in tourist and hotel buildings	Installatore Ital	Journal	Italian		October	v40 n10 p1597-1605	
Krenn J Schulz D	1987	ILKA ventilation and air conditioning equipment in Grand Hotel Berlin	Luft- und Kältetechnik	Journal		0024-7251		v23 n4 p183-185	
Lang O	1976	Heat recovery in hospitals sanatoria and hotels	Technik am Bau	Journal	German		November	n7 p673-674	
Lazzarin R	1991	Absorption heat pump and an energy roof	Installatore Ital.	Journal	Italian			v42 n7 p1061-1067	
Livingstone F	1970	Heating and ventilating hotels	Heat.Vent.Engr.	Journal			March	v43 n512 p446-454 466	
Love M	1979	Air conditioning systems for multi-room buildings	Mid.East.Elect	Journal			June	v3 n6 p43-46	
Malloire M Rosenstiel G	1973	Recovery of heat from lighting and exhaust air in the case of electric heating by the Ecovent system. An example of application. Air conditioning of hotels of the Novotel chain	Rev.Prat/Froid	Journal	French		February	v26 n328 p19-27	
Marciniak T Koopman R Kosar D	1991	Gas-fired desiccant dehumidification system in a quick-service restaurant	ASHRAE	Journal				v97 Part1 p657-666	
Marino M	1975	Hotel upgraded with fan-coil units	Heat.Pip.Air Condit.	Journal			May	v3 n6 p43-46	
McCullough J	1988	Ice thermal storage: system selection and design	Consult Specif Eng	Journal			January	v3 n1 p70-77	

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Meckler G	1992	Desiccant cooling systems and air quality energy resources and CFC use	Air quality desiccant and evaporative cooling systems Final report on IEA Workshop Orlando Sweden CBR D13:1992	Conference				p14-35	Summarises barriers to the introduction of desiccant HVAC systems as well as benefits which support their introduction. Describes commercial building applications and design techniques. Uses example of a fast food restaurant to compare desiccant system with conventional HVAC system.
Morgan J	1989	Installation and operating experience of a gas engine-driven chiller with engine heat recovery	ASHRAE	Journal				v95 Part 1 p953-959	
Ng A	1987	Feasibility study of a desiccant-based air conditioning system	ASHRAE	Conference			September	p252-262	
Perera M D A E S	1992	Controlled background ventilation for large commercial buildings (to conference on Ventilation for energy efficiency and optimum indoor air quality)	Proceedings of 13th Air Infiltration and Ventilation Centre Conference, Nice, France publ Oscar Faber, St Albans	Conference			15-18 September		
Quesenberry T	1988	PTACs: a hot item in unitary cooling	Heating Piping & Air Conditioning	Journal		0017-940X	July	v60 n7 p67-68	
Reiley J	1990	Applications of closed loop water source heat pumps for space conditioning in commercial buildings	Energy Eng	Journal		0199-8595		v87 n5 p6-16	
Rowe M	1989	Retiring a declining PTAC	LH(USA)	Journal			November	p65-66	New units can more than earn their keep with special features and energy-efficient design. What the purchaser should look for.
Rudnik J	1984	Heating ventilation and air-conditioning	Foodservice and Hospitality (Canada)	Journal			September	p71 94	Most restaurateurs...worry constantly about sales and costs labour and rents advertising and promotions. But one area which they don't often place enough emphasis on is heating ventilation and air-conditioning
Seneviratne M	1989	Centrifugal chillers energy conservation	ASHRAE Far East Conference on Air Conditioning in Hot Climates	Conference		0-9101-1063-8	October 25-28	p153-157	By regulating condenser and chilled water temperatures of the four centrifugal chillers and their auxiliaries substantial savings in energy costs have been made at a 600-bed hotel.
Spielvogel L	1984	One approach to energy use evaluation	ASHRAE Transactions	Conference		0001-2505	Jan29-Feb 1	v90 Part1B p424-436	Energy audit
Stefanutti L La Mura S	1987	Fan coil units with four ducts and primary air or water-air heat pumps	Condiz.dell'Aria	Journal	Italian		October	v31 n10 p1277-1282	

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Sterrett R	1992	Operator influence on the performance of chillers and thermal energy storage systems	Energy Engineering	Journal				v89 n4 p66-72	Instrumentation was installed on the cooling systems of nine facilities including hotels to monitor performance. Found that efficient operation is dependent on the commitment of the operators and the facility's management.
Straub H E	1986	HVAC systems and energy conservation in hotels	in ASHRAE Technical Data Bulletin Atlanta	Journal				v2 n1	Paper to ASHRAE Winter Meeting on HVAC Controls for Energy Conservation.
Tokle T	1991	Energy economy by heat pump in hotels	SINTEF, Trondheim, Norway	Report	Norwegian				Report on use of heat pumps in three Norwegian hotels. The heat pumps deliver heat for room heating and water heating, and are used for cooling in the summer. The heat sources are: brackish water, sea water, and extract air.
Trim M	1990	Condensing boilers applied to public houses and catering establishments	BRECSU/EEO Information Leaflet no 24	Leaflet					
Ure J	1984	Small air source heat pumps for hot water supply in commercial premises	Heat pumps for buildings, publ Hutchinson	Journal		0-09-158501-4		p218-247	Heat pumps
Vechaphutti T	1989	Overall thermal transfer values (OTTV) for Thailand	ASHRAE Far East Conference on Air Conditioning in Hot Climates	Conference		0-9101-1063-8	October 25-28	p129-133	Air-conditioning in buildings in Thailand account for 60-70% of the total energy. Recommends values for OTTVs that could be used as a guideline for building design to achieve energy savings.
Wagner J	1986	HVAC systems and energy conservation in hotels	ASHRAE	Conference		0001-2505	January	v92 Part 1B p311-318	Discusses the effect that the design of the basic HVAC system has on the relative success of energy conservation efforts in hotels. Explains the unusual nature of hotels and their impact on the HVAC systems. Stresses the practical considerations which must be made when designing the guest rooms, public areas, back-of-house areas, temperature control systems and energy management systems. Includes general recommendations for ventilation systems and opportunities for heat recovery.
Wagner J	1986	Effective hotel HVAC design relies on knowledge	Specifying Engineer	Journal		0164-5242	April	v55 n4 p76-78	
Weenink N	1992	An international hotel is not your average building	Australian Institute of Refrigeration Air Conditioning and Heating Conference Technical Papers Perth						
Zanini F	1985	Air conditioning for hotels in mountain resorts	Installataore Ital.	Journal	Italian		September	v36 n9 p1447-1451	

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Author	Year	Title	Journal/ Publisher/ Source	Document Type	Language	ISBN-ISSN Report Number	Month & Day	Volume Number Page	Abstract
Zmeureanu R Hanna Z Fazio P Silverio J	1992	Energy performance of hotels in Ottawa	ASHRAE Transactions: Research	Journal				p314-322	Analyses annual energy performance of hotels and motels in Ottawa based on utility bills. PRISM was used to disaggregate annual energy use into major components. In the discussion reported after the paper, a speaker notes that extensive metered energy use data are available and have been published by the American Hotel & Motel Association, and questions whether PRISM is valid for this purpose.

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LAUNDRY

Anon	1993	Laundry suppliers move to improve savings efficiency	Hotel & Motel Management	Journal			November 22	v208 n20 p17	Continuous batch washing machines that feature a split valve system allow water re-usage. Consumption can be cut from 2.5 gallons per pound to 1. Other energy saving equipment measures when laundry is dry so machine can be stopped. A system is also available that tracks linen costs per room.
Shaw R	1993	Turning off water waste	Hotel & Motel Management	Journal			5 April	p17-18	Unless controlled, laundry costs can rise as gallons of water go down the drain.

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LIGHTING

Anon	1983	Lighting remodeling in a hotel as an example. Remodeling and partly renovating the Rodelhaus in Neheim-Huesten	Licht	Journal	German	0024-2861		v35 n11 p602-603	
Anon	1989	New hotel graces Mexico City	Lighting Design and Application	Journal		0360-6325	March	n19 n3	
Anon	1993	Long-life bulbs prove light of one's life	Leisure Week	Journal			March 5		Sheds some light on the debate over whether venues should install long-life bulbs. These last longer, needing less frequent changing and, although costing more, the savings can be dramatic when the duration of the bulb is taken into account. Up to 80% of energy can be saved.
Baker J	1988	Cutting the cost	Caterer & Hotelkeeper	Journal			October 27	p124-126	Feature on low energy lighting.
Carper J	1994	Switch on energy savings with better lighting	Hotels (USA)	Journal			April	p78	It's easy to justify the cost after owners see the benefit of converting to more energy efficient lamps. In particular fluorescents consume less electricity, burn cooler and last longer. In the United States cash rebates from utility companies part-fund installation costs.
Dagnino U	1987	Lighting of hotel interiors	Installatore Ital.	Journal	Italian		April	v38 n4 p613-624	Hotels present a diversity of lighting requirements. Cites use of natural daylight and need for good controls. Notes criteria for lamp replacement and cleaning fittings. Considers impact of energy conservation on decisions.
de Cauwer A	1995	Let there be light	European Hotelier	Journal			1st quarter 95	p52-53	General review of lighting systems, including use of compact fluorescents, metal halide, fibre optics, and external and security lights. Photo-cells and dimmers can help minimise use of artificial lighting.
Energy Efficiency Office	1994	Energy efficiency in hotels - energy efficient lighting, Good Practice Case Study 243	Energy Efficiency Office						The Forte Crest Hotel, Brighouse, West Yorkshire, constructed in 1990, is lit predominantly by fluorescent and low voltage tungsten halogen lighting. The benefits include both energy savings and reduced maintenance costs, while the reaction from guests and management has been favourable.
Finelli J	1986	Opportunities for lighting in hotels and catering	Electric Contractor	Journal		0308-7174		v84 n9 p34 36 41	Considers the opportunities available for low energy lighting installations.
Gardner C	1995	Tender is the light	Caterer & Hotelkeeper	Journal			June 15		General review of variable mood lighting used in hotels and restaurants.
HCIMA	1992	Guide to electric lighting	HCIMA Technical Brief no. 7						Sets out required illumination levels for various rooms and external areas of premises. Includes cost effectiveness estimate of filament versus compact fluorescent lamps.
Kling C	1986	Before the ball begins: lighting for ballrooms and meeting rooms	Light Des Appl	Journal			May 5	v16 n5 p27-30	

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Author	Year	Title	Journal/ Publisher/ Source	Document Type	Language	ISBN-ISSN Report Number	Month & Day	Volume Number Page	Abstract
Kluga T	1993	See the light keep the change	Lodging hospitality	Journal		0148-0766	November	v49 n12 p31-32	Low energy bills for lighting no longer demands sacrificing light quality. A renovation or refit can mean reduced electricity usage; less electricity required to cool the air; and reduced labour to replace bulbs. The basics of lighting and criteria for selecting light sources are presented.
Mills E	1991	Right light - bright light	Proceedings of the First European Conference on Energy Efficient Lighting; publ Swedish National Board for Industrial and Technical Development	Conference			May		38 papers on technology and lighting quality; case studies; design and evaluation; marketing issues; policy and planning issues.
Schlacks E	1990	Hotel room lighting use patterns. Potential for peak reduction.	Energy Engineering; Journal of the Association of Energy	Journal		0199-8595		v87 n1 p57-76	
Seal K	1991	Bright ideas	HMM (USA)	Journal			September 9	p45-46	Focus on fluorescent lighting leaves hotels and budgets beaming whilst helping the environment.
Seal K	1992	Marriott Hotels get "Green Light" from EPA	Hotel & Motel Management	Journal		0018-6082	Feb 24	v207 n3 p26	Marriot Hotels has signed on with Green Lights, an Environmental Protection Agency programme that encourages investment in efficient lighting. The company has agreed to retrofit lighting over the next 5 years wherever it is cost-effective and aesthetically acceptable. A 20% reduction in lighting energy is predicted.
Seal K	1991	Focus on Fluorescent Lighting Leaves Hotels Budgets Beaming	Hotel & Motel Management	Journal		0018-6082	Sept 9	v206 n15 p45-46	Hotels are increasingly installing energy saving lighting, aided by utility rebates and advances in technology. The most common is replacing incandescent bulbs with compact fluorescent bulbs in electronic ballasts. In San Francisco's Grand Hyatt \$48 000 was invested with a payback of about one year. In addition a rebate was obtained from the local utility company.
Seal K	1992	Marriott Hotels get green light from EPA	Hotel & Motel Management	Journal		0018-6082	February 24	v207 n3 p26	
Seal K	1991	Focus on fluorescent lighting leaves hotels budgets beaming	Hotel & Motel Management	Journal		0018-6082	September 9	v206 n15 p45-46	

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Author	Year	Title	Journal/ Publisher/ Source	Document Type	Language	ISBN-ISSN Report Number	Month & Day	Volume Number Page	Abstract
Slater A	1989	Energy efficiency lighting for hotels	North of Scotland Catering Magazine				Nov/Dec	p35-36	Recent developments in lighting equipment enable significant improvements to be made in the energy efficiency of lighting systems in hotels. Compact fluorescent lamps and low voltage tungsten halogen lamps can be used to replace general lighting system lamps. Controls systems can reduce waste from lamps burning unnecessarily.
BRECSU	1992	Energy efficient lighting in buildings	CEC Thermie Maxibrochure	Booklet					16-page Thermie Maxibrochure aimed at energy manager or facilities manager who wishes to improve the energy efficiency of lighting installations. Actions range from improvements in maintenance to installation of an automatic control system. Also applicable to major refurbishments and new lighting schemes.
Warrander M	1987	Low energy lighting	Profit through energy efficiency in public houses Buxton	Conference			Nov/Dec		
Wood-Robinson M	1984	Attraction with efficiency (Light sources for catering industry)	Lighting Equipment News	Journal		0024-3418	October	p4-12	The contribution of new light sources and how they can be exploited in the hotel and catering industry is discussed. Data for compact light sources is compared with tubular fluorescent lamps. Energy consumption, light output and lamp life are taken into consideration.
Wood-Robinson M	1984	Hotel and restaurant lighting	Ltg.Equip News	Journal			October		

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RENEWABLE ENERGY

Agricola B Korn G Rannisi G	1985	Enel-ISES competition Hot water from the sun First result of the ENEL publicity campaign	Energie Alternative Habitat Territorio Energia	Journal	Italian	0391-5360	Nov-Dec	v7 n38 p461-466	Solar energy.
Anon	1980	Cambridge hotel harnesses solar power	Architects' Journal	Journal	English		Sept 24	v172 n39 p586	
Anon	1981	Solar plant for mountain hotel	Te Int	Journal			Sept-Oct	v5 n5 p26-8	Describes one of the largest solar heating plants built in Italy to heat the buildings of a holiday hotel complex in the Val D'Aosta. The plant has 1450 solar panels representing a sun-trapping surface of almost 3 000 m ² .
Anon	1989	A solar decade at Cambridge	Hotel & Catering Technology	Journal			February		When the Cambridge University Arms Hotel was taken over by the De Vere Group, they inherited a £25 000 solar heating system. This uses 30 roof mounted panels connected by pipework filled with antifreeze and water to a 5 000-gallon storage tank. The system provides a low temperature rise to the stored water which boilers then heat to the required temperature. The general manager says that the system has more than paid for itself in 10 years of use.
Anon	1989	Hot rocks to heat hotels	Caterer & Hotelkeeper	Journal			November 23		Two Accor hotels in Southampton are to be included in Britain's first geothermal district heating scheme. Hot water at more than 70°C is pumped from 5 500 ft below the earth's surface.
Baraban R	1992	Hyatt Kauai: Giving Something Back	Lodging Hospitality	Journal		0148-0766	April	v48 n4 p40	The hotel was built for minimum environmental impact including energy recycling systems allowing it to re-use heat from the air-conditioning to heat the swimming pools and provide hot water for showers.
Chiam J	1983	Central solar hot water application	Conference Proceedings Solar Energy Applications in the Tropics pub by D Reidel Publishing Co Dordrecht Neth	Conference		90-277-1506-8	Oct 30 - Nov 1	p143-162	
Dempsey M	1993	Hotelier converts trash into treasure	Hotel & Motel Management	Journal		0018-6082	September 6	p27 33	Describes a hotel in the US Virgin Islands built solely with recycled and re-usable materials and powered by solar and wind energy. It operates independently of the island's water and power lines. Energy and water use is monitored by computer.
Goulding J R Owen Lewis J Stemers T C	1992	Energy in Architecture - the European Passive Solar Handbook	Batsford for the Commission of the European Communities	Book		ISBN 0-7134- 6918-8			Promotes a climate sensitive approach to building design in which building forms are planned to minimise their reliance on plant and services. Intended as a detailed design guide to passive solar architecture, drawing together the results of research funded by the European Community.

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Hawladar M	1984	A solar installation for industrial hot water	Ren.Energy Rev.J.Bangkok	Journal			June	v6 n1 p40-47	
Huang Z Zheng Z Huang H Wong W Ward H Chu C Hassett T	1989	Performance of 3 types of collector in Shenzhen solar cooling and hot water supply system	Proceedings of Intersociety Energy Conversion Engineering Conference IEEE Piscataway USA	Conference		0146-955X		v4 p171-175	
Lam W	1986	Sunlighting as Formgiver for Architecture	Van Nostrand Company New York			ISBN 0-442-25941-7			Textbook on application of physics of light to design of buildings. Includes strategies and techniques for design. 25 international case studies include a hotel.
Leeper J Engels W	1986	Nation's first fuel cell power plant powered by processed landfill gas	American Power Conference Illinois Inst of Technology	Conference		0097-2126	April	v48 p918-922	
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