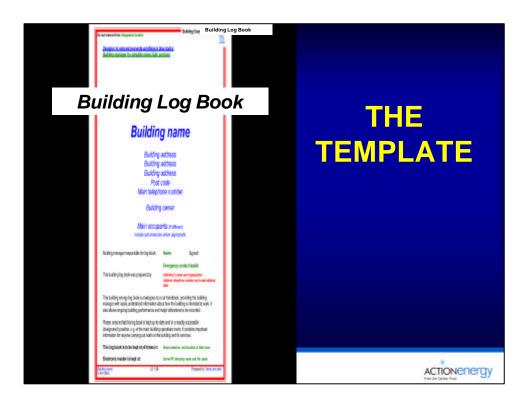
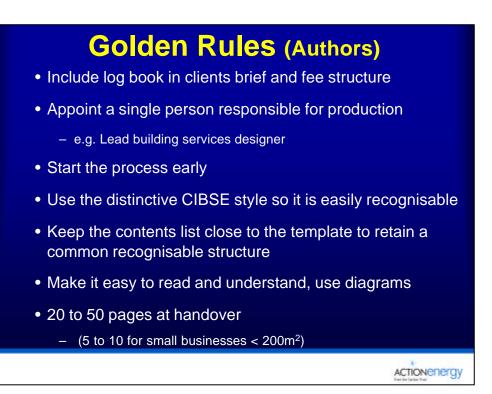
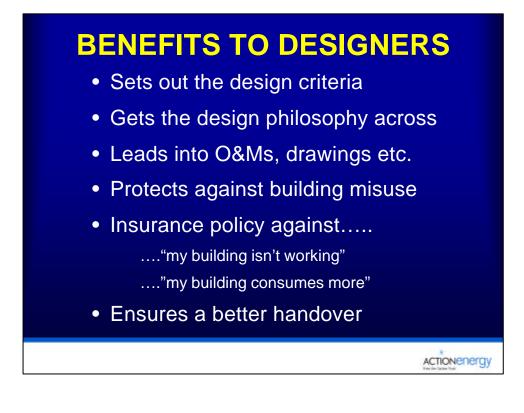


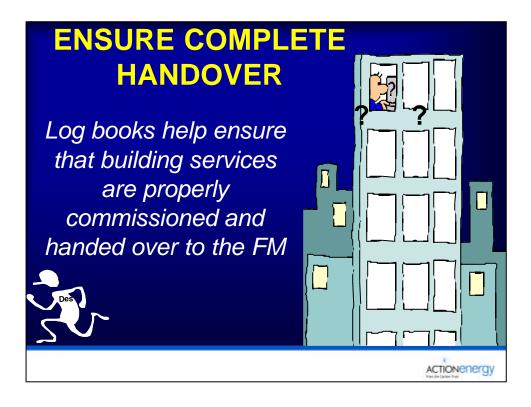
	OOLKI	Technical Memorandum TM 31 Building Log Books - a guide and template			Building log book SMALL BUSINESS TEMPLATE		
Associate	d Disc						
Building log book	Building log book	Building book		Building I book	og	Building log book	
MAIN TEMPLATE	SMALL BUSINESS TEMPLATE	EXAMPL Large a conditio office	air- Small ned naturally		y ed	EXAMPLE 3 Very small micro business office	
	GPG 348 - Build	ing Log Bo	oks -	a user's gui	de		
	GIL 65 - Meterin	g new non	-dome	estic building	gs	Actionenergy	

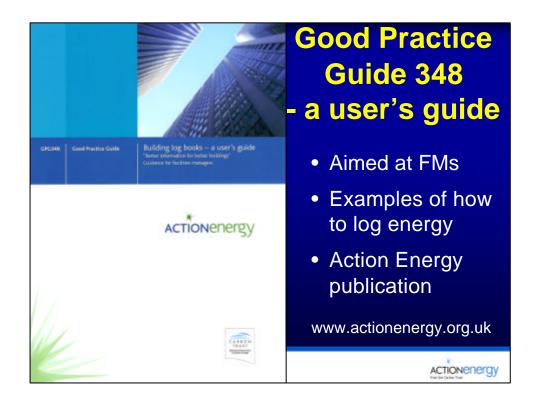


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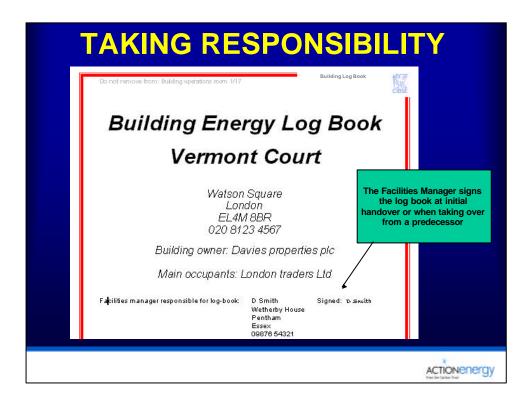












This building log book was prepared by	P G Jones Building Energy Solutions 12 Asquith House Dunnymans Road Banstead Surrey KT18 50F
	Version No 1: 27.5.03
manager with easily understood informa also allows ongoing building performan Please ensure that this log book is kept	up-to-date and in a readily accessible uilding operations room. It contains import k on the building and its services.
Vermont Court Log B	ock 184 Prepart An electronic master is at: Server/PC, directo name & file name."

1	Annual review and updates to the	log bor	Building Log	BOOK		
sys	log book should be reviewed annually as part of the orga tem and an entry should be made for each review. Where abed then the changed pages should be recorded.	nisation's qu	uality assura	nce	he facili must a hanges log	pprov
Review	Description of annual log book review and updates made	Pages updated or added	Building manager's signature	Date		
	No significant changes to design made in run up to handover	N/A	5.Smith	105.08		
	Fan in AHU 2 replaced in defects liability period due to under performance	24a	1 Smith	15 10 03		
	Annual review of energy performance carried out	28a	D.Smith	205.04		
	Annual review of maintenance carried out	30a	Þ.Skultin	205.04		
	Variable speed drive added to domestic hot water circulation loop as an energy saving measure	17a	P-Smith	157.04		
	New sub meter installed on kitchen extract fans to log	294	-b.dmillin	10.5.0		
	ener3h ese		1 Sedtin	20.9.04		

Occupan	cy and a	activitie	s	.07				
	Level	N	IA (m2)	Occupancy (type fa	r space ctor ons/m ²)	Population sum	
	Basemer	16	0					
	Lower Grou	und	0					
	Ground	5 5	2,800	Office		12	233	
	First		2,699	Dealer		7	270	
	Second	6 8	2,843	Office		12	237	
	Third		2,750	Office		12	229	
	Fourth	s 1	2,750	Office		12	229	
	Fith		2,501	Office		12	208	
	Sixth		1,341	Office		12	112	
	Seventh	6	1,059	Office		12	88	
	Eighth	8	0			_		
	Sum	- 0 	18,742		22		1,607	
The total nu Main occupied area		Weekday hours	s in the bu	Iding is 1	607 (base Total hours/week	Id on cor Flextime (Yes/No?		e) No. of occupants
Dealing Fig	or	07.00-21.00	09.00-12.00	None	73	Yes	Yes	270
General offi	ces	08.00-18.00	None	None	50	Yes	Yes	1330
	ring stat!	08.00-15.00	None	None	45	No	No	7

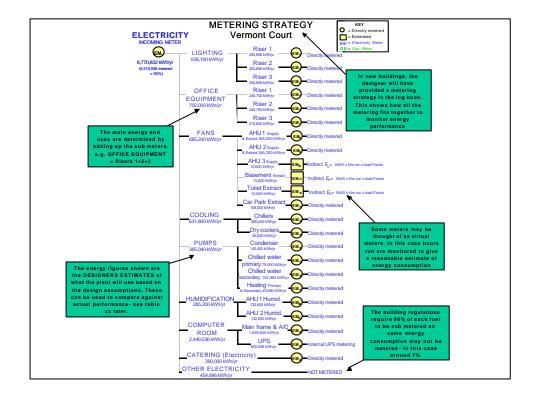
I			% of total area by servicing system									
	Area type	Untreated (%)	Naturally ventilated (%)	Mechanicall y ventilated (%)	Mixed mode (%)	Heating and cooling only (%)	Full air conditionin g with humidity control (%)		(m²)			
I	Basement	9.36%		4,11%				13,47%	3,708			
I	Lower Ground	0.53%		5.62%	1		í. í	6.15%	1,693			
I	Ground	1.15%		6.35%		÷	4.19%	11.69%	3,218			
	First	0.80%		0.83%			9.64%	11.27%	3,103			
	Second	0.85%		0.80%	0.38%		9.84%	11.87%	3,268			
	Third	0.82%		0.84%	-		9.82%	11.48%	3,161			
	Fourth	0.81%		0.84%	i.	3	9.83%	11.48%	3,161			
	Fifth	0.82%		0.86%		0	8.76%	10.44%	2,874			
	Sixth	1.46%	5	0.64%		· ·	3.50%	5.60%	1,542			
ien	venth	0.44%		0.48%			3.50%	4.429	6 1,2			
lig	hth	1.81%		0.34%			0.00%	2.159	6 51			
o	al %	18.85%		21.71%	0.38%		59.08%	100%				
int	al area (m ²)	5,190		5,977	105		16,265		27,5			

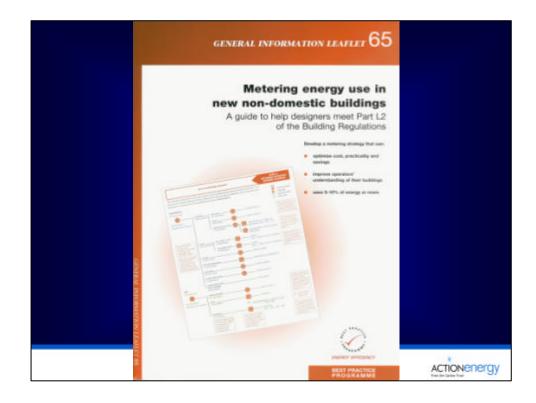
11 Metering, monitoring and targeting strategy (Not more than three pages)

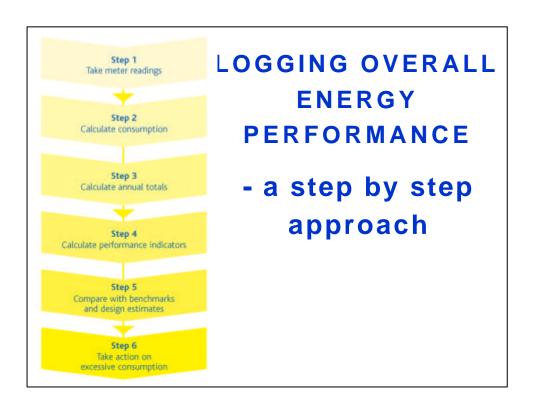
Metering schedule

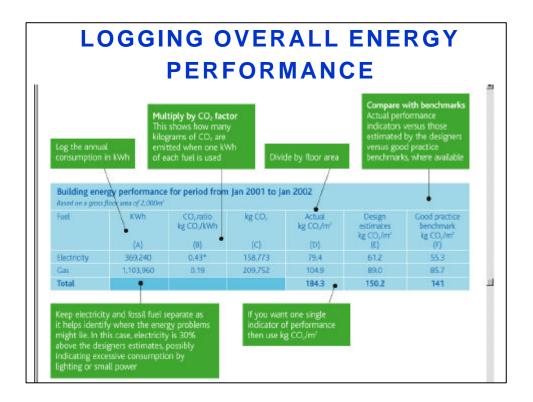
The following provides a list of meters and design estimates of the likely end use consumptions. See Action Energy General Information Leaflet GIL 65: *Metering energy use in new non-domestic buildings*, for an example, including how to arrive at a good metering schedule. A copy is provided on the CD-ROM associated with CIBSE TM31 and printed copies are available from (<u>www.actionenergv.org.uk</u>). CIBSE TM22 also provides a means of assessing energy use in buildings.

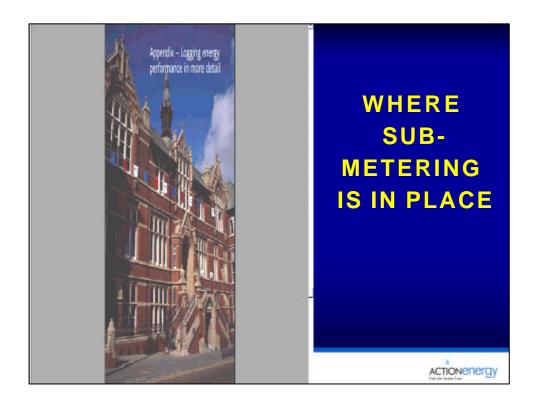
Energy			Meters		M	ethod	Meter location		
Type of Incoming analogy	Main e so- via	Estimated and use consumption polyhyr)	Meter rxt./cede	End used enalsystemicinouit or taxancy to be measured	Monturisment method and conculation where appropriate	Estimated consumption through each meter (KW1041)	List of meters	Location	
ELECTRICITY	MAN NOOWING		ENN		Directly metered				
	LIGHTING	1.075.685	EM2	Lighthopriner 1	Deedly metered	344.710	Electricity meter	Beservent riser 1	
			EN/3	Lighting riser 2	Otectly metered	387.746	Electricity meter	Basement riser 2	
			DU4	Lighting risker 3	Coacty metered	543,220	Electricity revela	Basement Riber 3	
	POWER	828,100	EM8	Small power mean	Creatly metered	275.275	Bechcity meter	Biolonant riser 1	
			D.M.	Grasil power riskt 2	Directly metered	506.567	Electricity meter	Basement riser 2	
			EW4	Small power men 2	Directly metered	245.430	Electricity relate	Bonement. riser 3	
-	PANE	734,580	EN4	AHU1 Supply 5 extract famil	Orectly metored	335.490	Electricity meter	Beienent AHJ plant mode	
			EUS	ANU 2 Supply 8 extract form	Clearly metered	280,455	Electricity riteter	AHU plant room	
_			EMID	AHU 3 Supply ten	indirect		Hours rail	Rasement APIU plant room	
			EMIL	Basement extract fone	Indiner1	10,004	Housening	Car park pears reart	
			- FM12	Todet estact for	INCOMES .	32,005	Hours rait	Real plant ream	

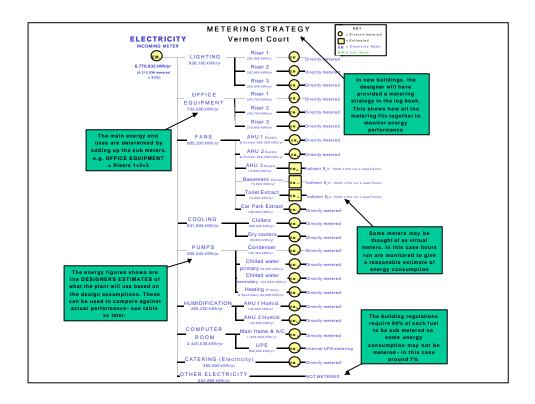


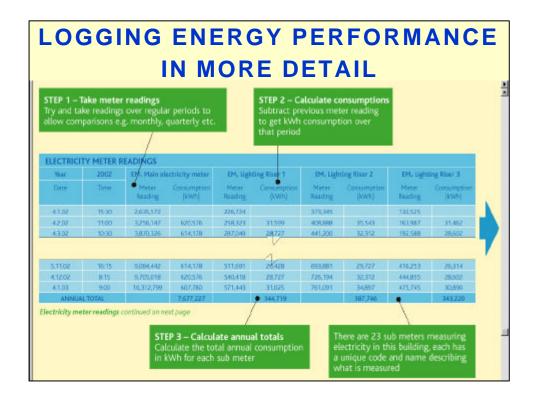




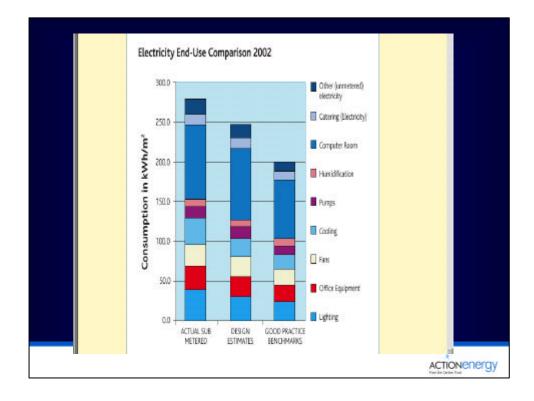




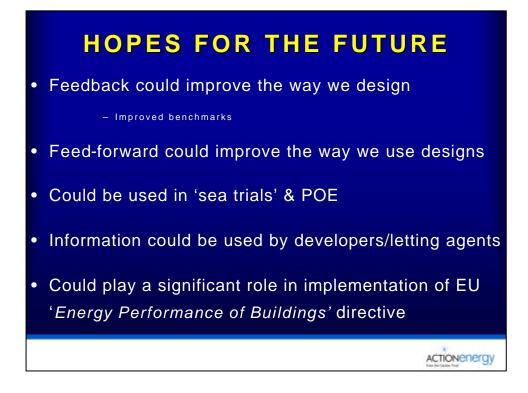


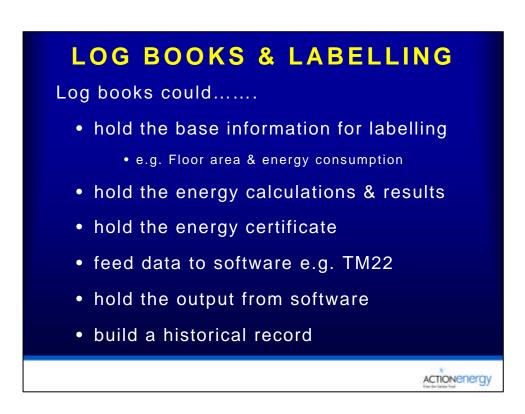


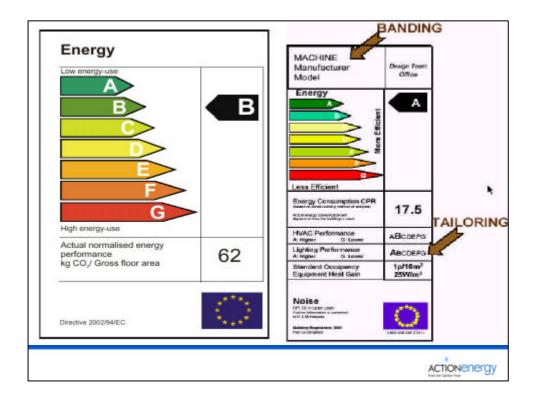
		Record the floor are ensure that the benc and design estimate based on the same de	hmarks is are	The log book should include the designers estimates of what consumption is likely to	benchma from Actio Guide F E	and best practice arks are available on Energy or CIBSE inergy Efficiency In Buildings	
Building energ	y performance for period from 4.1.02 to	4 1 03		loor area of 27,531 m ²		<u> </u>	
	Main end use	ACTUAL	ACTUAL SUB	ACTUAL	A DESIGN ESTIMATES	BEST PRACTICE	
uertype	Mainenduse	INCOMING Metered	METERED Main	SUB METERED	Main end use	BENCHMARKS	
		consumption	end use energy		energy consumption		
		(kWh/yr)	consumption	consumption	(kWh/m ²)/yr	consumption	
			(kWh/yr)	(kWh/m ² /yr)	((kWh/m²/yr)	
LECTRICITY	Lighting		1075685	39.1	30.4	24.7	
	Office Equipment		828100	30.1	25.5	19.6	
	Fans		734500	26.7	24.9	20.4	
	Cooling		904150	32.8	22.9	17.9	
	Pumps		395460	14.4	13.3	10.2	
	Humidification		287300	10.4	9.6	10.2	
	Computer Room		2526384	91.8	88.6	74.0	
	Catering (Electricity)		420000	15.3	14.2	11.1	
	TOTAL SUB METERED ELECTRICITY		7171579	260.5			
	TOTAL FROM MAIN INCOMING METER	7677227		278.9	245.9	198.9	
	OTHER (UNMETERED) ELECTRICITY		505648	18.4	16.5	11.1	
	Percentage unmetered		6.6%				
AS			A				
-	Space Heating		3031860	110.1	117.6	80.8	
	Domestic Hot Water		464750	16.9	14.2	10.2	
	Catering (Gas)		287300	10.4	9.6	6.0	
	TOTAL SUB METERED GAS	/	3783910	137.4			
	TOTAL FROM MAIN INCOMING METER	3783910		137.4	141.4	96.9	
	OTHER (UNMETERED) GAS		0	0.0	▲ 0.0	0.0	
	Percentage unmetered	· /	0.0%				











BENEFITS OF PROVIDING INFORMATION

