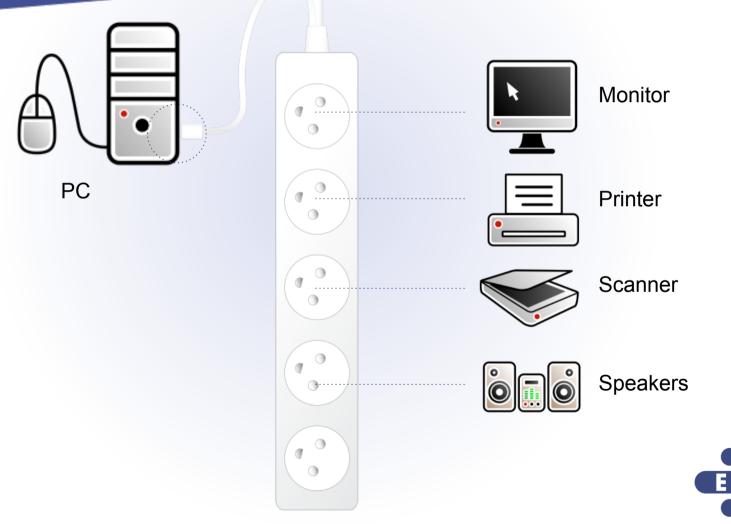
AutoPowerOff plug banks - or "Standby killers"



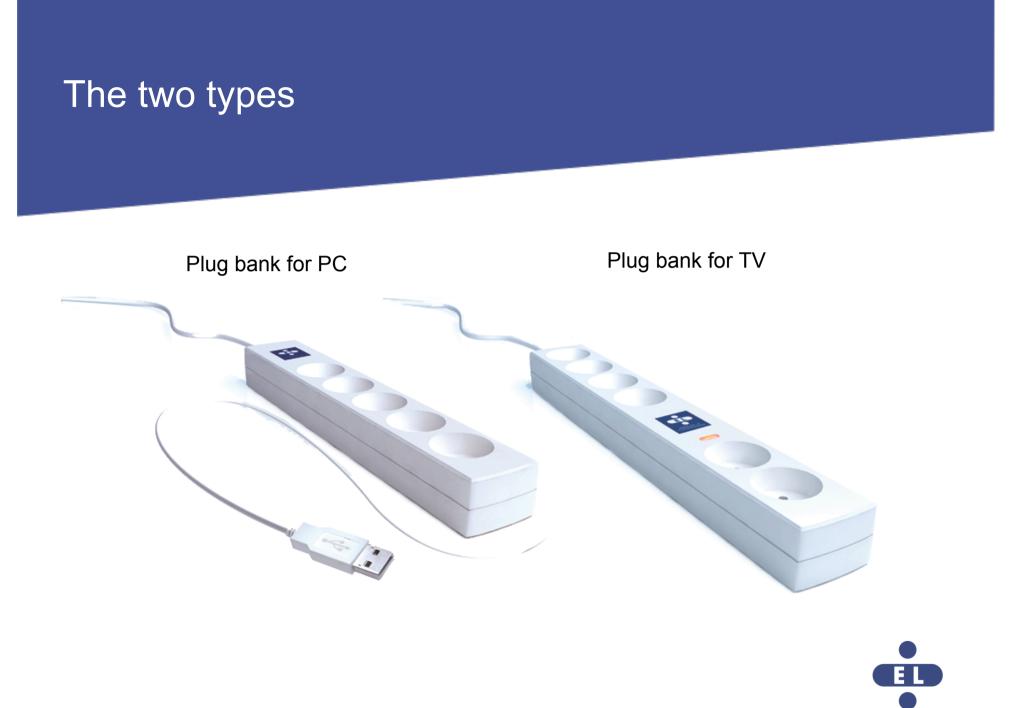
The background



How it works for PC's

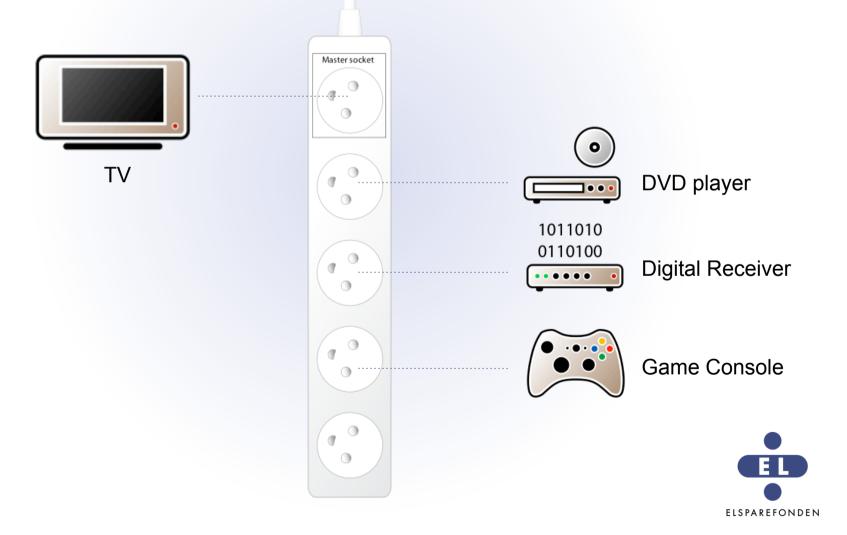


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How it works for TV's



TV campaign





Data and results - Potential targets...

PC-related appliances –ownership in average in	0000	0000	0004
DK	2008	2006	2004
Inkjet printers	32	38	60
Laser printers	23	23	20
Combined printer/scanner/fax	6	6	-
Combined printer/copier	7	5	-
Combined printer/scanner/copier	52	35	-
Separate scanners	17	17	31
External, traditional modem	13	13	23
ISDN modem	17	15	19
ADSL-router/modem	61	48	28
Wireless network box (separate?)	61	34	9
PC-speakers (separate from monitor)	80	74	63
External CDROM/DVD player	13	7	12
External CDROM/DVD-burner	8	_	_
Firewall unit	28	25	18
External HDD/ZIP-drive	40	19	8

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Data and results - Potential targets...

TV-related appliances –ownership in average in DK	2008	2006	2004
DVD	134	98	69
VCR	74	113	108
Surround sound	44	29	20
Set-top box	23	8	3
Games machines	50	32	23



Data and results Claimed targets...

PC-related appliances – what's in the plugs, in average	2008
Printers	83
Speakers	67
Scanners	49
External HDD	32
Router/ADSL	31
Monitor	15
Other	4
Total	281



Data and results Claimed targets...

TV-related appliances – what's in the plugs, in average	2008
DVD	70
VCR	46
Games machine	22
Set-top box	21
Surround sound	19
Other	36
Total	214



Data and results When to kill...

ΤV	Average size	ON hours per year
CRT 1	26	1760
CRT 2	21	1050
LCD 1	34	2050
LCD 2	25	1460
Plasma 1	38	1745
Overall		~1750

PC	ON hours per year
PC 1	1700



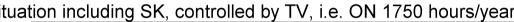
Data and results Without TV Standby Killers...

Situation without Standby Killer								
TV Sockets								
								C incl.
	ON	Time	Stdby	Time	OFF-m.	Time	Cons	pen.
								kWh/
Appliances	Watt	Hours/y	Watt	Hours/y	Watt	Hours/y	kWh/y	year
DVD	34	130	6	3748	6	1783	38	30
VCR	17	100	3	3748	3	1783	18	13
Surround sound	50	1750	5	3505	5	3505	123	38
Set-top box	12,1	1750	10	7010			91	19
Games machines	77	730	10	3748	2	4281	101	15
Other	25	1750	5	3261			60	2
							430	116



Data and results With TV Standby Killers...

Situation including SK, controlled by TV, i.e. ON 1750 hours/year										
TV Sockets Avg pen.										
	ON	Time	Stdby	Time	OFF-m.	Time	Cons	C incl.	Diff.	Diff.
Appliances	Watt	Hours/y	Watt	Hours/y	Watt	Hours/y	kWh/y	kWh/ye	kWh/yea	kWh/year
DVD	34	130	6		6	1620	14	11	19	23
VCR	17	100	3		3	1650	7	5	8	12
Surround sound	50	1750	5		5		88	27	11	35
Set-top box	12,1	1750	10				21	4	14	70
Games machines	77	730	10	1020	2	0	66	10	5	34
Other	25	1750	5	0			44	1	0	16
							240	59	58	191





Data and results Without PC Standby Killers...

PC Sockets	Situation without Standby Killer										
	ON	Time	Stdby	Time	Off-m.	Time	Cons	C incl. penetr.			
Appliances	Watt	Hours/y	Watt	Hours/y	Watt	Hours/y	kWh/y	kWh/year			
Printer	81	180	4	5023	2	3557	42,0	37,1			
Speakers	24	1700	5	4388	3	2672	69,9	59,3			
Scanner	14	52	4	3215	3	2747	20,2	. 10,4			
Router/hub/switch	21	1700	9	5142			83,5	35,9			
External HDD	12	1700	8	4388	3	2672	62,2	. 17,4			
Other	25	1700	3		3	4388	55,7	2,2			
							333,5	162,3			

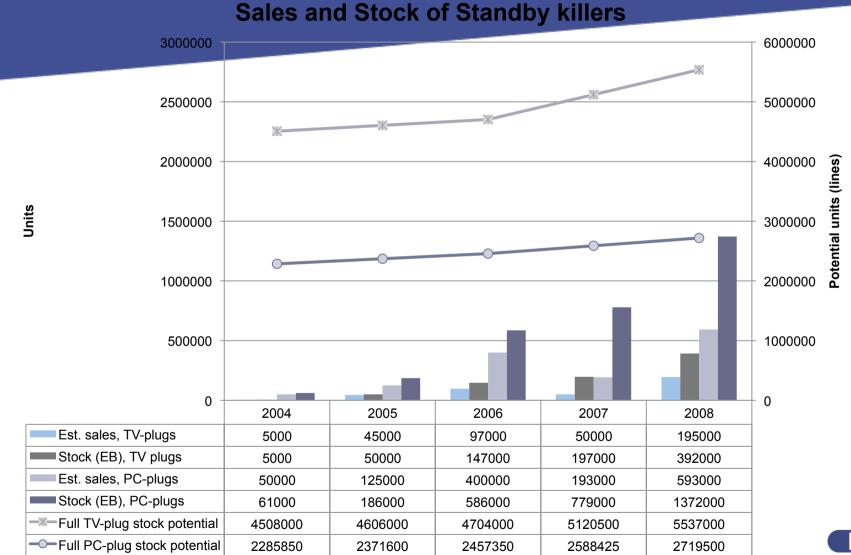


Data and results With PC Standby killers...

PC Sockets	Situa	ation ind	cludin	g SK, i.	e. ON	1700 I	nours/y	/ear	Avg pen.	Full pen.
	ON	Time	Stdby	Time	Off-m.	Time	Cons	C incl. p	Diff.	Diff.
Appliances	Watt	Hours/y	Watt	Hours/y	Watt	Hours/y	kWh/y	kWh/ye	kWh/y	kWh/y
Printer	81	180	4	1520	2		21,3	18,8	18,3	20,8
Speakers	24	1700	5	0	3		40,8	34,6	24,7	29,1
Scanner	14	52	4	1648	3		6,5	3,3	7,0	13,7
Router/hub/switch	21	1700	9	0			35,7	15,4	20,6	47,8
External HDD	12	1700	8	0	3		20,4	5,7	11,7	41,8
Other	25	1700	3		3		42,5	1,7	0,5	13,2
	167,2 79,5								82,8	166,3



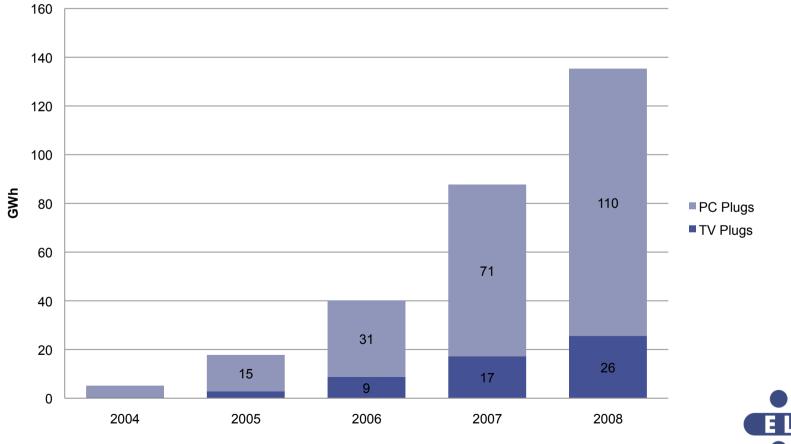
Data and results





Data and results

Estimated annual savings for Denmark



Data and results

LoPoMo consumption	Plug impact			
Appliance Group	GWh	Savings 2008	Pct	
PC-related	485	110	23	
TV-related	315	25	8	
White goods	190			
Halogen lamps	80			
Cordless phones etc.	70			
SUM	1140	135	12	
Total household consumption	~9700			
Pct	12	1,4		



Has the campaign worked?

Households with at least one AutoPowerOff plug bank for: PC: 45% TV: 11%



Summary

- Around 45 % of households have at least one Standby Killer for PC usage
- Around 11% of households have at least one SK for TV usage
- Typically each SK used with PC controls 2,8 additional devices
- Typically each SK used with TV controls 2,1 additional devices
- Each SK for PCs saves on average 83 kWh/year
- Each SK for TVs saves on average 58 kWh/year
- All SKs with the current ownership levels and usage patterns already saves at least 135 GWh/year in Denmark.

• If all Danish homes used SKs for all TVs and PCs, around 575 GWh/year could be saved, corresponding to 6% of household electricity consumption and 2% of all Danish electricity consumption.



Further information www.savingtrust.dk

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