

HUSSMANN®

**Always
Green**

Integrated Night Curtains: 720 Ft. Per Store

Example based on a typical 45,000 - 50,000
sq. ft. supermarket



Integrated Night Curtains (6 Hrs. Per Day) vs. No Night Curtains

720 Ft.	1 Year Savings	10 Year Savings
Electricity	\$28,154	281,540
Lbs. of CO ₂	341,948	3,419,480
Cars Removed for 1 Year	32.27	322.7
Planting X Acres of Trees	53.09	530.9



Integrated Night Curtain Calculations

Energy Saved Per Year			Savings		
Energy difference per foot with an Integrated Night Curtain			Electrical savings in dollars per year per store*		
Without Night Curtains	1,385	BTU/Ft	255,949.32 kWh/Year	*	\$0.11/kWh
With Night Curtains	831	BTU/Ft		=	\$28,154.43
Savings	554	BTU/Ft			
Conversion to kWh per foot			Pounds of CO ₂ saved per year per store**		
554 BTU	*	0.000293	255,949.32 kWh/Year	*	1336 lbs CO ₂ /1000 kWh
	=	0.162322		=	341,948 lbs CO ₂ /Year
kWh/Ft					
Number of feet in a typical store			Equivalent to cars removed per year per store***		
720 Feet			341,948 lbs CO ₂ /Year	/	10,597 lbs CO ₂ /Car
				=	32.27 Cars/Year
kWh saved per store per hour			Equivalent to planting X acres of trees per year per store****		
0.16 kWh	*	720	255,949.32 kWh/Year	*	1.4 acres/6,750 kWh
	=	116.87		=	53.09 Acres/Year
kWh					
kWh saved per store per day			Sources		
116.87 kWh	*	6	** 1,000 kWh = 606 kg CO ₂ 606 kg = 1,336 lbs		
	=	701.23	Carbon Footprint. www.carbonfootprint.com/usa.html . Updated 3/15/07.		
kWh/Day			Accessed July 26, 2007.		
kWh saved per store per year			*** Assume 13,000 miles per year at 24 mpg		
701.23 kWh/Day	*	365	Lexington Global Warming Action Coalition Carbon Footprint Calculator		
	=	255,949.32	http://www.lexgwac.org/Calculator2.html		
kWh/Year			Accessed August 16, 2007.		
Conversion factors			**** 6,750 kWh = planting 1.4 acres of trees		
Watts to BTU	multiply by	3.413	Clark, Reed. <u>Getting Noticed: Your Guide to Self-Promotion.</u>		
BTU to kWh	multiply by	0.000293	EPA - Inside ASHE. July/Sept 2003.		
Watts to kWh	multiply by	0.001			

While this example is typical, benefits will vary for every supermarket