

HUSSMANN

**Always
Green**

Low Temp Excel Islands: 48 Ft.

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



Low Temp Excel Islands vs. Low Temp Impact Islands

48 Ft.	1 Year Savings	10 Year Savings
Electricity	\$2,064	\$20,640
Lbs. of CO ₂	25,069	250,690
Cars Removed for 1 Year	2.37	23.7
Planting X Acres of Trees	3.89	38.9



Low Temp Excel Calculations

Energy Saved Per Year				Savings				
Energy difference per foot with an Excel FW				Electrical savings in dollars per year per store*				
Excel FW	-	750.56	BTU/Ft	18,763.46 kWh/Year	*	\$0.11/kWh		
Impact LW		598.26	BTU/Ft		=	\$2,064.03		
Savings		152.3	BTU/Ft	* At \$0.11 per kWh				
Conversion to kWh per foot				Pounds of CO ₂ saved per year per store**				
152.3 BTU/Ft	*	0.000293		18,763.46 kWh/Year	*	1,336 lbs CO ₂ /1,000 kWh		
	=	0.045	kWh/Ft		=	25,068.6 lbs CO ₂ /Year		
Number of feet in a typical store				Equivalent to cars removed per year per store***				
48 Feet				25,068.6 lbs CO ₂ /Year	/	10,597 lbs CO ₂ /Car		
kWh saved per store per hour				=				2.37 Cars/Year
0.045 kWh	*	48		Equivalent to planting X acres of trees per year per store****				
	=	2.14	kWh	18,763.46 kWh/Year	*	1.4 acres/6,750 kWh		
kWh saved per store per day				=				3.89 Acres/Year
2.14 kWh	*	24	Hours	Sources				
	=	51.41	kWh/Day	** 1000 kWh = 606 kg CO ₂ 606 kg = 1336 lbs				
kWh saved per store per year				Carbon Footprint. www.carbonfootprint.com/usa.html . Updated 3/15/07.				
51.41 kWh/Day	*	365	Days	Accessed July 26, 2007.				
	=	18,763.46	kWh/Year	*** Assume 13,000 miles per year at 24 mpg				
Conversion factors				Lexington Global Warming Action Coalition Carbon Footprint Calculator				
Watts to BTU	multiply by	3.413		http://www.lexgwac.org/Calculator2.html				
BTU to kWh	multiply by	0.000293		Accessed August 16, 2007.				
Watts to kWh	multiply by	0.001		**** 6,750 kWh = planting 1.4 acres of trees				
				Clark, Reed. <i>Getting Noticed: Your Guide to Self-Promotion</i> .				
				EPA - Inside ASHE. July/Sept 2003.				

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