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## E-Plus Coils: 720 Ft. Per Store

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



### E-Plus Coils vs. Standard Modular Coils

720 Ft.	1 Year Savings	10 Year Savings
Electricity	\$27,443	274,430
Lbs. of CO <sub>2</sub>	333,307	3,333,070
Cars Removed for 1 Year	31.41	314.5
Planting X Acres of Trees	51.74	517.4



## E-Plus Coil Calculations

Energy Saved Per Year				Savings				
Energy difference per foot with an E+ Coil				Electrical savings in dollars per year per store*				
Standard Modular Coil		1,425	BTU/Ft	249,481.3 kWh/Year	*	\$0.11/kWh	\$27,442.94	
E+ Coil	-	1,290	BTU/Ft		=			
Savings		135	BTU/Ft	* At \$0.11 per kWh				
Conversion to kWh per foot				Pounds of CO <sub>2</sub> saved per year per store**				
135 BTU/Ft	*	0.000293		249,481.3 kWh/Year	*	1,336 lbs CO <sub>2</sub> /1,000 kWh		
	=	0.0396	kWh/Ft		=	333,307 lbs CO <sub>2</sub> /Year		
Number of feet in a typical store				Equivalent to cars removed per year per store***				
720 Feet				333,307 lbs CO <sub>2</sub> /Year	/	10,597 lbs CO <sub>2</sub> /Car		
kWh saved per store per hour				=				31.41 Cars/Year
0.0396 kWh	*	720		Equivalent to planting X acres of trees per year per store****				
	=	28.48	kWh	249,481.3 kWh/Year	*	1.4 acres/6,750 kWh		
kWh saved per store per day				=				51.74 Acres/Year
28.48 kWh	*	24	Hours	Sources				
	=	683.51	kWh/Day	** 1000 kWh = 606 kg CO <sub>2</sub>	606 kg = 1,336 lbs			
kWh saved per store per year				Carbon Footprint. <a href="http://www.carbonfootprint.com/usa.html">www.carbonfootprint.com/usa.html</a> . Updated 3/15/07. Accessed July 26, 2007.				
683.51 kWh/Day	*	365	Days	*** Assume 13,000 miles per year at 24 mpg				
	=	249,481.30	kWh/Year	Lexington Global Warming Action Coalition Carbon Footprint Calculator				
Conversion factors				<a href="http://www.lexgwac.org/Calculator2.html">http://www.lexgwac.org/Calculator2.html</a>				
Watts to BTU	multiply by	3.413		Accessed August 16, 2007.				
BTU to kWh	multiply by	0.000293		**** 6,750 kWh = planting 1.4 acres of trees				
Watts to kWh	multiply by	0.001		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