



# U.S. EPA's GreenChill Partnership 10 Years of Progress

**GreenChill** is a U.S. Environmental Protection Agency (EPA) partnership with supermarkets to reduce refrigerant emissions and decrease their impact on the environment. GreenChill brings together stakeholders to share industry-relevant information and best practices, and support supermarkets' efforts to reduce refrigerant emissions. GreenChill activities occur through three programs:

- the **Corporate Emissions Reduction Program**,
- the **Store Certification Program**, and
- the **Advanced Refrigeration Program**.

★ Platinum Level GreenChill-Certified Store  
 ★ Gold Level GreenChill-Certified Store  
 ☆ Silver Level GreenChill-Certified Store  
 ● Partner Store

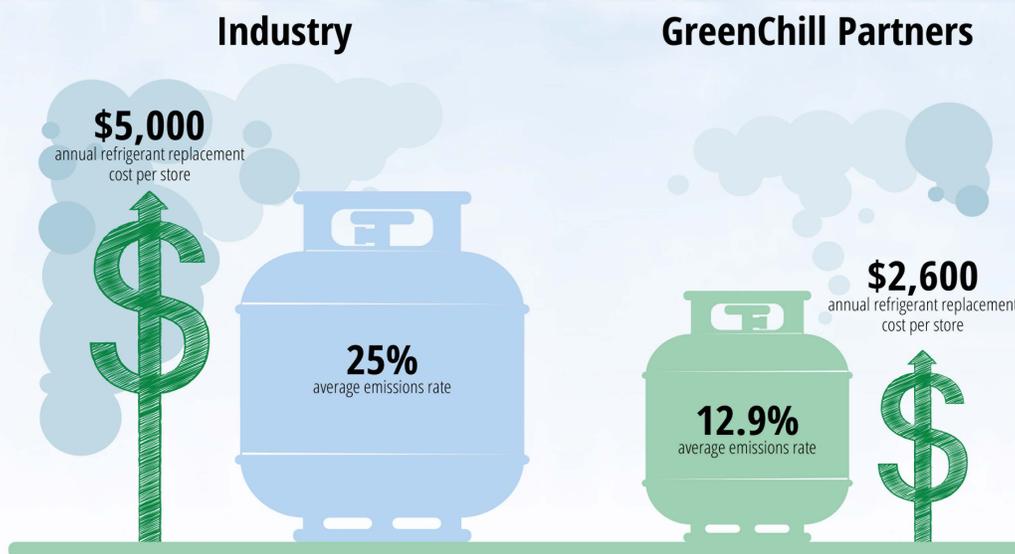
CO-OP FOOD STORES  
 MANOVER CO-OP FOOD STORES  
 Buehler's Fresh Foods  
 HyVee  
 Publix  
 BGC BROOKSHIRE GROCERY COMPANY  
 Cub FOODS  
 COOK COUNTY WholeFoods CO-OP  
 SHOPPERS Food & Pharmacy  
 PCC COMMUNITY MARKETS  
 COBORN'S INC est. 1921 employee owned  
 Harris Teeter Your Neighborhood Food Market  
 Raley's Family of Fine Stores  
 BEL AIR NOB HILL FOOD SOURCE  
 Farm Fresh Food & Pharmacy  
 Kroger  
 BJ's WHOLESALE CLUB  
 Food co-op PORT TOWNSEND EST. 1972  
 ROUNDY'S  
 GIANT EAGLE  
 SUPERVALU  
 Lucky  
 Hannaford  
 King Kullen  
 weis  
 ALDI  
 Shop 'n Save  
 Price Chopper  
 CARNOT REFRIGERATION  
 KYSOR/WARREN  
 ZERO ZONE  
 arneg USA  
 HUSSMANN  
 Hillphoenix  
 LMP  
 meijer  
 Hornbacher's  
 ARKEMA  
 Dow  
 Honeywell  
 Chemours  
 National Refrigerants, Inc.  
 Mexichem FLUOR  
 Whole Foods Market  
 City Market Orion River Coop  
 FOOD LION  
 STATER BROS. MARKET  
 WHOLE FOODS MARKET  
 Down to Earth ALL VEGETARIAN Organic & Natural  
 WOODS MARKET

# Corporate Emissions Reduction Program

Supermarket companies that become **GreenChill Partners** set annual emissions reduction goals and report their progress to EPA every year. Partners participate in information-sharing roundtables, educational **webinars**, and development of technical **guidance**. GreenChill activities support better refrigeration management and transitions to advanced refrigeration technologies. GreenChill Partners have observed notable achievements.

I use GreenChill as the primary motivator to lower leak rates. We would attempt to lower them on our own, but having the backing of an EPA program helps our cause.

*Jon Scanlan, Hy-Vee*



## A GROWING SUPERMARKET PARTNERSHIP



# Store Certification Program

Individual stores can earn **GreenChill's silver, gold, or platinum certification** by achieving specific environmental performance criteria. **GreenChill-certified stores** use less refrigerant and minimize refrigerant leaks. The number of GreenChill-certified stores is growing, reaching a record 246 certified stores in 2017.

GreenChill has helped tremendously in providing data and motivation to reduce emissions substantially and continue to improve.

*Lance Durr, Stater Bros.*



## 20%

of stores certified in 2017 were certified at the **PLATINUM LEVEL**, meeting the most stringent criteria.

## 46

stores have been certified for 5 or more years.



# Advanced Refrigeration Program

GreenChill's **Advanced Refrigeration Program** provides the supermarket industry with up-to-date information. GreenChill has hosted over 85 **webinars** on a variety of topics with thousands of participants. GreenChill's **tools, calculators, and guidelines** help industry partners assess the financial and environmental impacts of refrigerant leaks and identify best practices.

The GreenChill Partnership provides a great forum for industry professionals to discuss the challenges to reducing both the ozone depletion potential and global warming potential of installed refrigerants.

Wayne Rosa, Food Lion



**THE GREENCHILL PARTNERSHIP**  
Financial Impact Calculator - The Cost of Refrigerant Leaks\*

1) Cost to Replace Leaked Refrigerant			2) Sales/Profit		
1. Refrigerant type:	R-404A	Set the refrigerant type (select from the list of refrigerants).	1. Item to be sold (milk, frozen peas, hotdogs, etc.):	milk	Set the name of the product. (the gallon price)
2. Amount of refrigerant leaked (in pounds):	100	Set number of pounds leaked.	2. Units (gallons, pounds, packs, ounces, etc.):	gallons	Set the unit of the product in the order form.
3. Price per pound that you pay for refrigerant:	\$6.82	Set (\$/lb). (up to 1,000)	3. Sales price per unit:	\$3.50	Set (\$/unit). (up to 1,000)
			4. Profit margin per unit sold (in percent):	1.00	Set (%). (up to 100). (up to 2,000)
<b>Cost to replace leaked refrigerant: \$682</b>			<b>You have to sell 19,514 gallons of milk to pay the replacement cost of 100 pounds of refrigerant</b>		

\*This calculator deals solely with refrigerant replacement costs. There are, of course, other costs incurred due to refrigerant leaks, such as service technician costs for parts and labor, costs due to decreased in energy efficiency when the refrigeration system is not properly charged, and food spoilage costs.

For more information visit [The GreenChill website](http://TheGreenChill.com).

