



# The GreenChill Partnership

## What is the EPA GreenChill Partnership?

GreenChill is an EPA partnership with food retailers to reduce refrigerant emissions and decrease their impact on the ozone layer and climate change.

The 2010 phaseout of certain hydrochlorofluorocarbons (HCFCs), especially HCFC-22, marked a major step in the transition to alternative refrigerants and an opportunity to use improved technologies for supermarkets. Because many alternative refrigerants are greenhouse gases (e.g., hydrofluorocarbons – HFCs), it is important during this transition to consider reducing emissions of all refrigerants, not just ozone-depleting substances.

## What are the GreenChill Partnership Goals?

The goals of the GreenChill Partnership are to provide supermarkets and other industry stakeholders with information and assistance to:

- Transition to environmentally friendlier refrigerants;
- Reduce the amount of refrigerant used by stores and eliminate leaks; and
- Adopt green refrigeration technologies and environmental best practices.

## Who can Join GreenChill?

GreenChill is a partnership with food retailers, including supermarkets, grocery stores, supercenters, and wholesale clubs. Food retailers sign a Partnership Agreement with EPA and agree to work toward attaining the GreenChill goals.

### GreenChill Partners

#### Food Retailers

ALDI	King Kullen
Bel Air	Kroger
BJ's Wholesale Club	Mariano's Fresh Market
Brookshire Grocery Company	McQuade's Marketplace
Buehler's Fresh Foods	Meijer
City Market, Union River Co-op	Metro Market
Coborn's Inc.	Nob Hill
Cook County Whole Foods Co-Op	PCC Community Markets
Copps Food Center	Pick 'n Save
Cub Foods	Port Townsend Food Co-op
Dorothy Lane Market	Price Chopper
Farm Fresh Food and Pharmacy	Publix Super Markets
Food Lion	Raley's
Food Source	Roundy's Supermarkets, Inc.
Giant Eagle	Shop 'n Save
Hannaford	Shoppers Food & Pharmacy
Hanover Co-op Food Stores	Sprouts Farmers Market
Harris Teeter	Stater Bros. Market
H-E-B	SUPERVALU
Hornbacher's	Target
Hy-Vee	Weis Markets
	Whole Foods Market
	Wild by Nature

#### Advanced Refrigeration Technology Manufacturers

Carnot Refrigeration	Kysor/Warren
Hillphoenix	Systemes LMP
Hussmann	Zero Zone

#### Chemical Manufacturers

Arkema	ICOR International
Dow Chemical	Mexichem Fluor
DuPont	National Refrigerants
Honeywell	



## Why Join the GreenChill Partnership?

The majority of the approximately 36,000 supermarkets in the U.S. use HCFC-22, an ozone-depleting substance and greenhouse gas, as their primary refrigerant. Further, supermarkets often have high refrigerant leak rates. Leaks are harmful to the environment and costly to supermarkets. However, ozone-friendly alternative refrigerants and improved technology are available, and servicing practices exist that reduce refrigerant leak rates and emissions.

In addition, under the current regulatory framework, a switch from ozone-depleting to non-ozone-depleting refrigerants is a logical consideration when remodeling or constructing a new store. While it is legal to run installed HCFC-22 equipment indefinitely, refrigerant production for servicing that equipment will stop by 2020. The GreenChill Partnership presents an opportunity to prepare for this and other deadlines, prepare for future leak repair regulations, and to be recognized for efforts above and beyond actions required under the Clean Air Act. Benefits of the GreenChill Partnership include:

### Benefits of the GreenChill Partnership

GreenChill Partners in the food retail business have refrigerant emissions rates nearly 50% lower than the EPA-estimated industry average.

If supermarkets nationwide reduced emissions to the current GreenChill Partner average, they could generate annual cost savings of over \$100 million across the industry, while preventing the annual emission of 27 million metric tons of carbon dioxide equivalent and 230 ozone depletion potential (ODP) tons.

**For more information, visit our website at**  
<http://www.epa.gov/greenchill>

**Please contact:**  
[GreenChill@epa.gov](mailto:GreenChill@epa.gov), or Kirsten Cappel  
at (202) 343-9556

#### Environmental benefits

The Partnership helps the environment by decreasing the impact of supermarket refrigeration systems on the ozone layer and climate change.

#### Benchmarking

A benchmarking system allows Partners to evaluate their progress toward environmental goals in relation to their peers.

#### Recognition and awards

Awards are given by EPA to recognize outstanding achievements by Partners.

#### Publicity, marketing, and outreach

Partners have access to a variety of marketing materials to highlight their participation in the GreenChill Partnership.

#### Assistance with environmental strategies and goals

GreenChill assists Partners in developing and attaining corporate environmental stewardship and sustainability goals, with tools such as best practice guidelines and information on improved technology and servicing practices that help reduce refrigerant charges and leak rates.

#### Opportunities for information sharing among Partners

GreenChill holds regular meetings to facilitate Partner information sharing on successful emissions reduction strategies and advances in refrigeration technology.

#### Research

Partners have access to state-of-the-art EPA research and EPA/industry field tests on substitute refrigerants and advanced refrigeration technologies.