

# E + Sd Energy & Store Development Conference

September 23 - 26, 2018  
Sheraton Atlanta Hotel | Atlanta, GA





United States  
Environmental Protection  
Agency

# GreenChill Annual Recognition

Tom Land



THE VOICE OF FOOD RETAIL 

# GreenChill Advanced Refrigeration Partnership Program Update

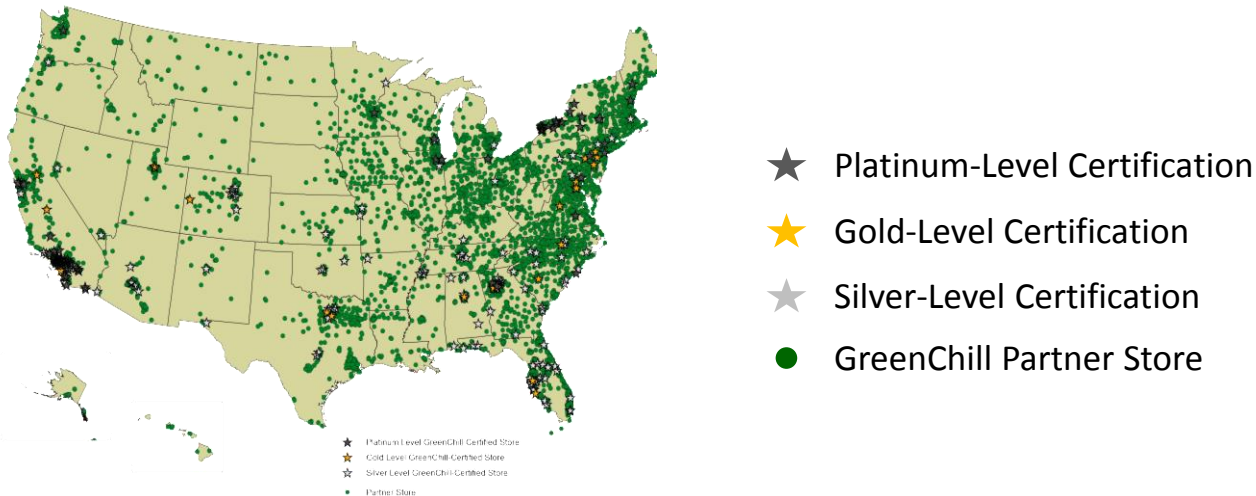


# GreenChill and Industry Potential

***GreenChill partner companies account for about 29% of all stores***

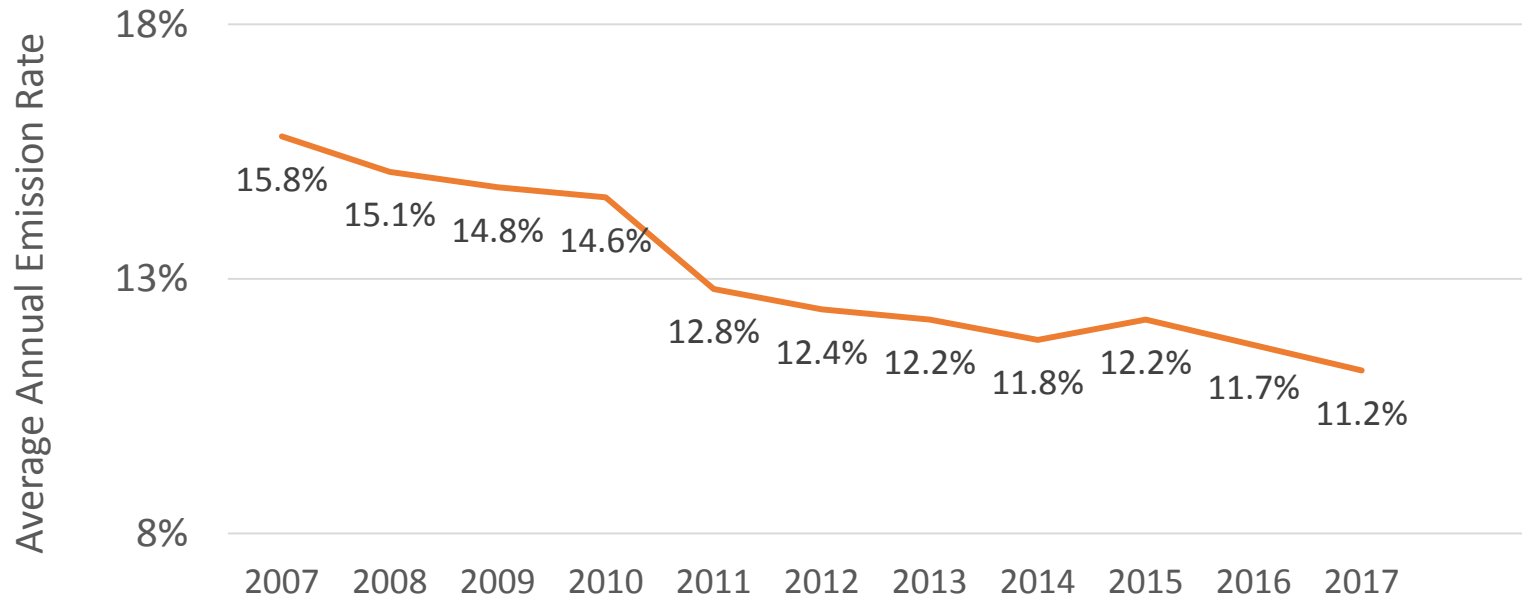
If every U.S. supermarket met GreenChill Partners' average emission rate (12.9%), the supermarket industry would:

- Reduce annual refrigerant emissions by 30 million metric tons carbon dioxide equivalent
- Save \$212 million in annual refrigerant replacement costs



# Refrigerant Emissions Management – Leak Reductions

Average Annual Emission Rate for  
GreenChill Partner Supermarkets with 150 - 300 Stores



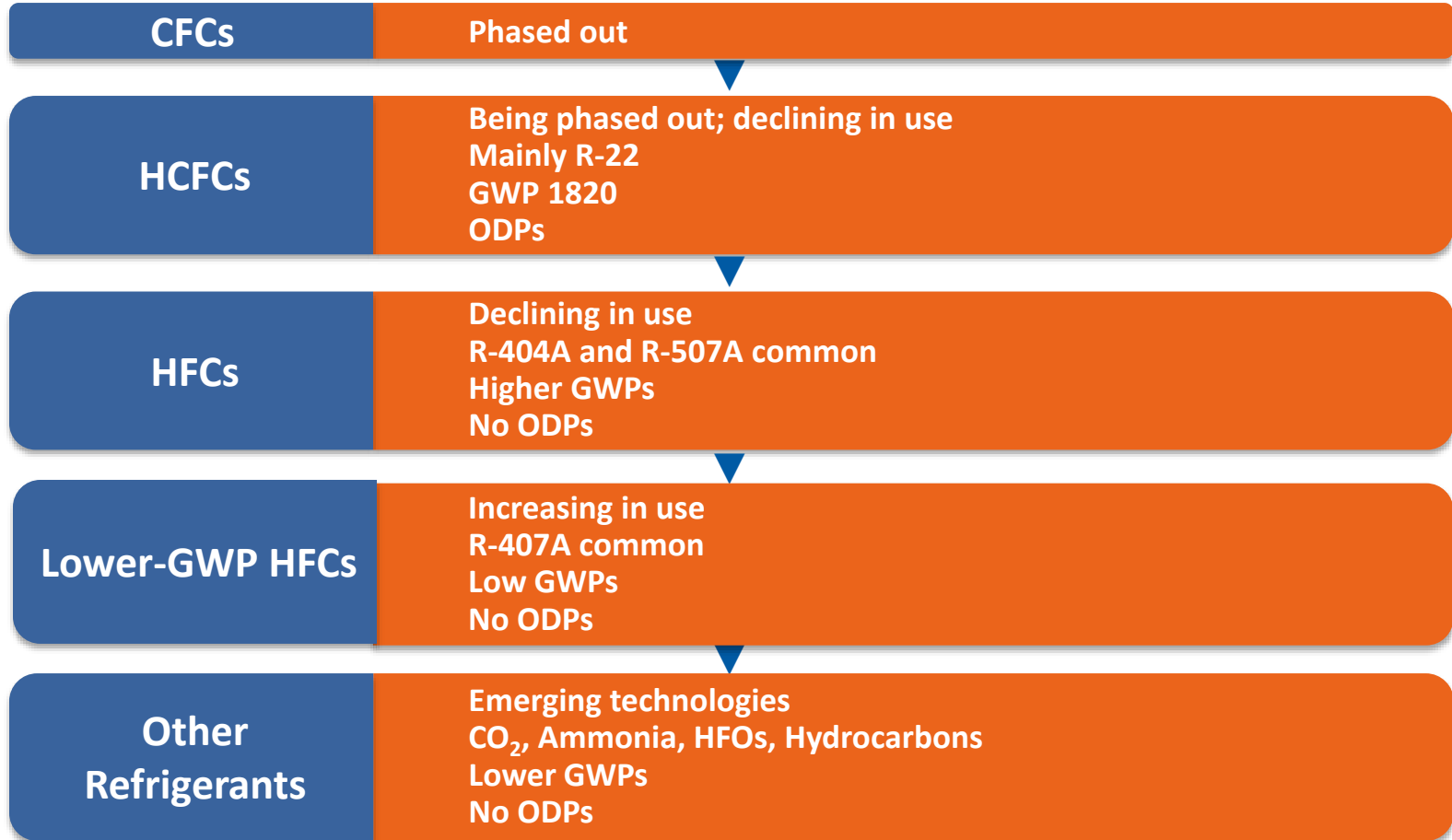
# GreenChill Partner Emissions Reductions

In 2017, about 75% of reporting partner companies reduced their emissions rate since joining the partnership:

- 3 have reduced their emissions rate by at least 60 percent
- 8 have reduced their emissions rate by at least 30 percent
- 11 have reduced their emissions rate by at least 20 percent

**In 2017, 11 partners achieved an annual emission rate below 10 percent**

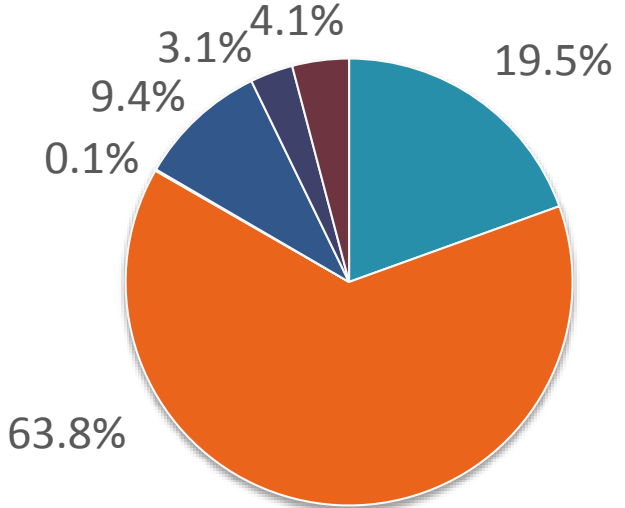
# A Changing Industry



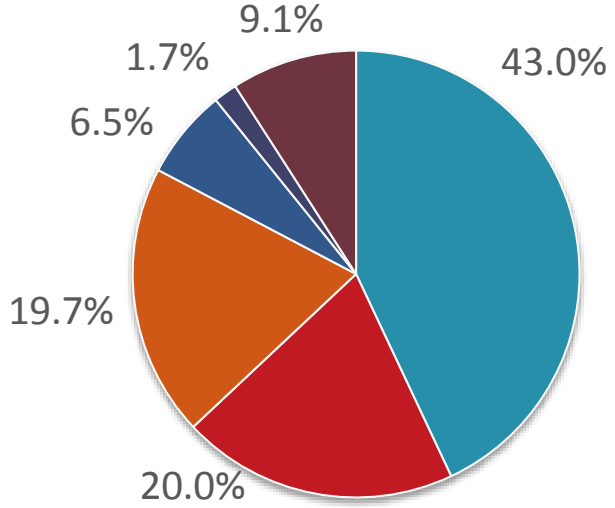
# GreenChill Partnership Installed Refrigerants

## Commercial Systems

2007



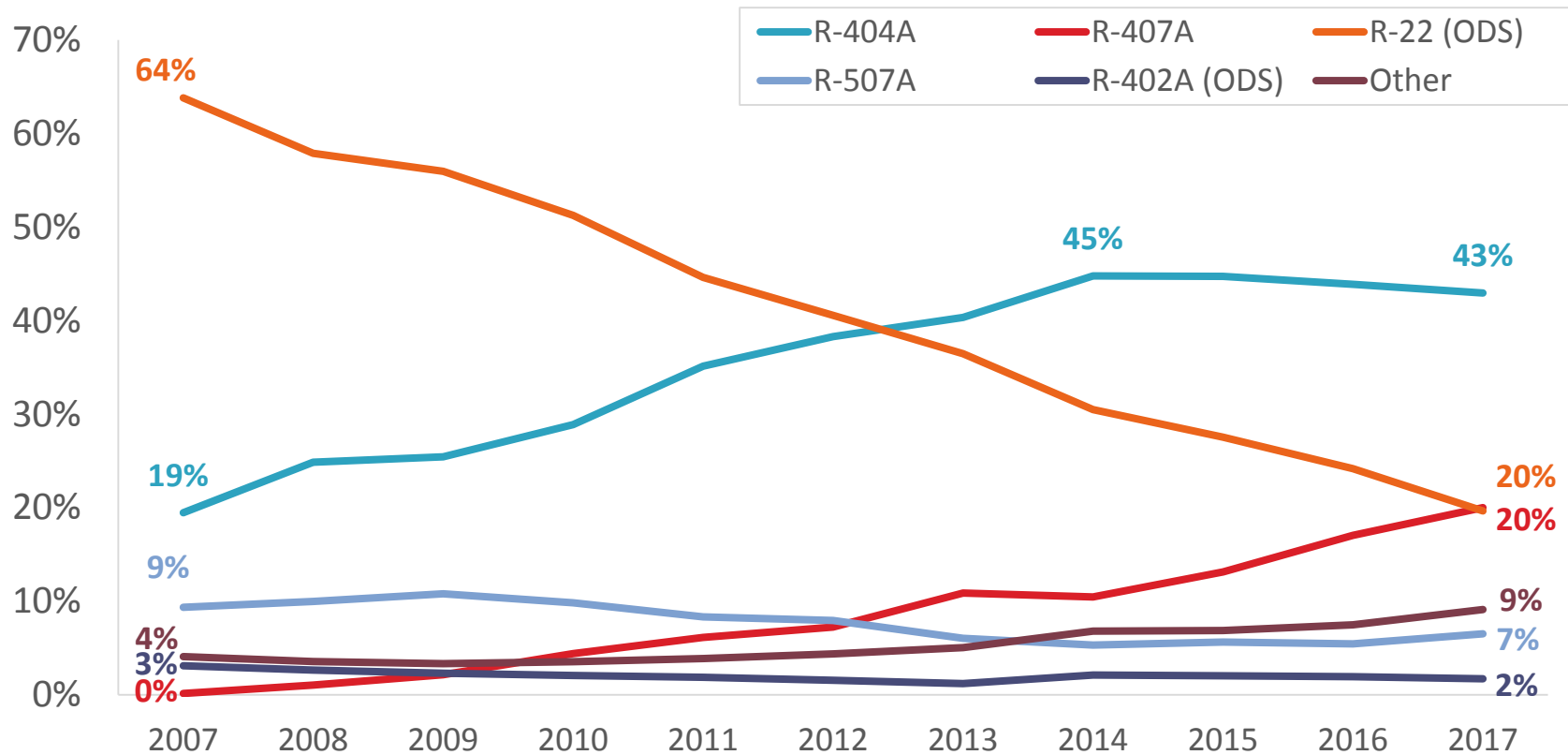
2017



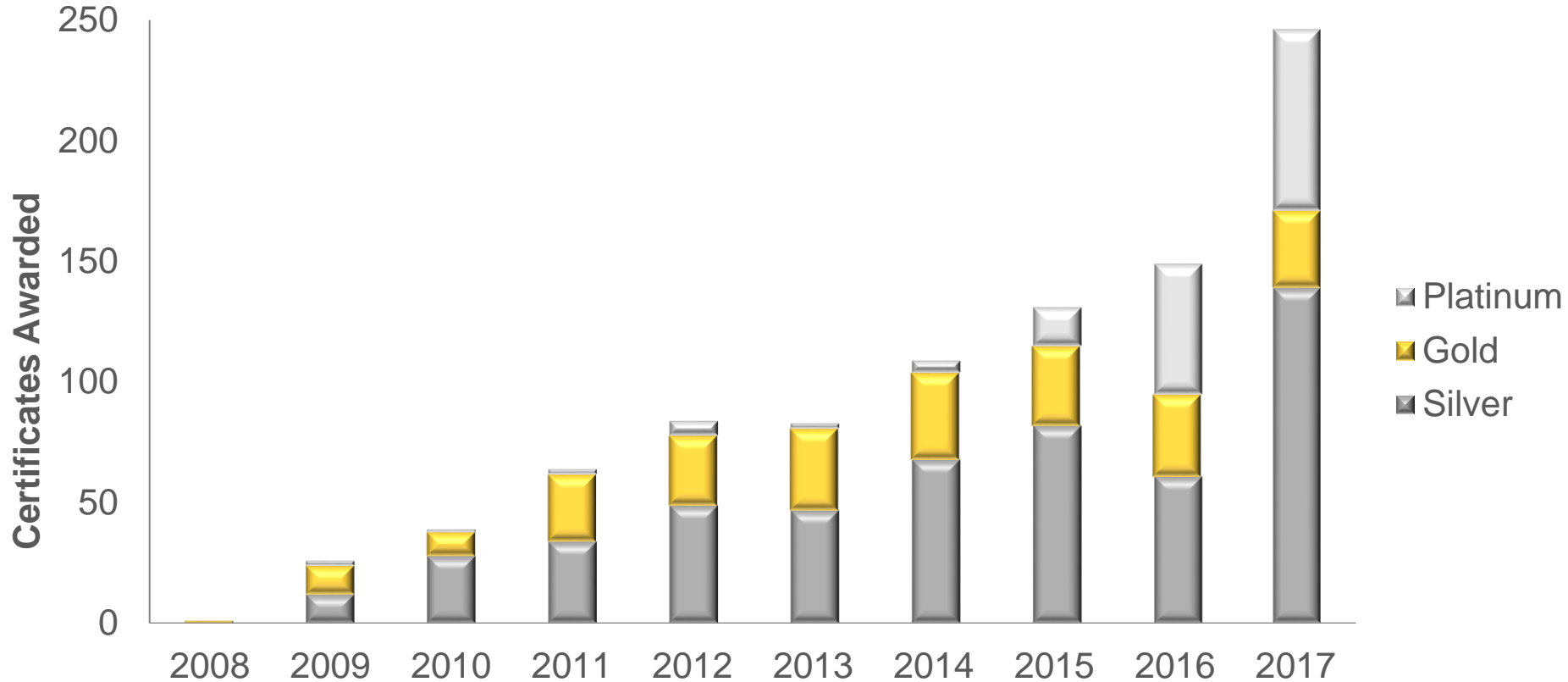
■ R-404A    ■ R-407A    ■ R-22 (ODS)    ■ R-507A    ■ R-402A    ■ Other



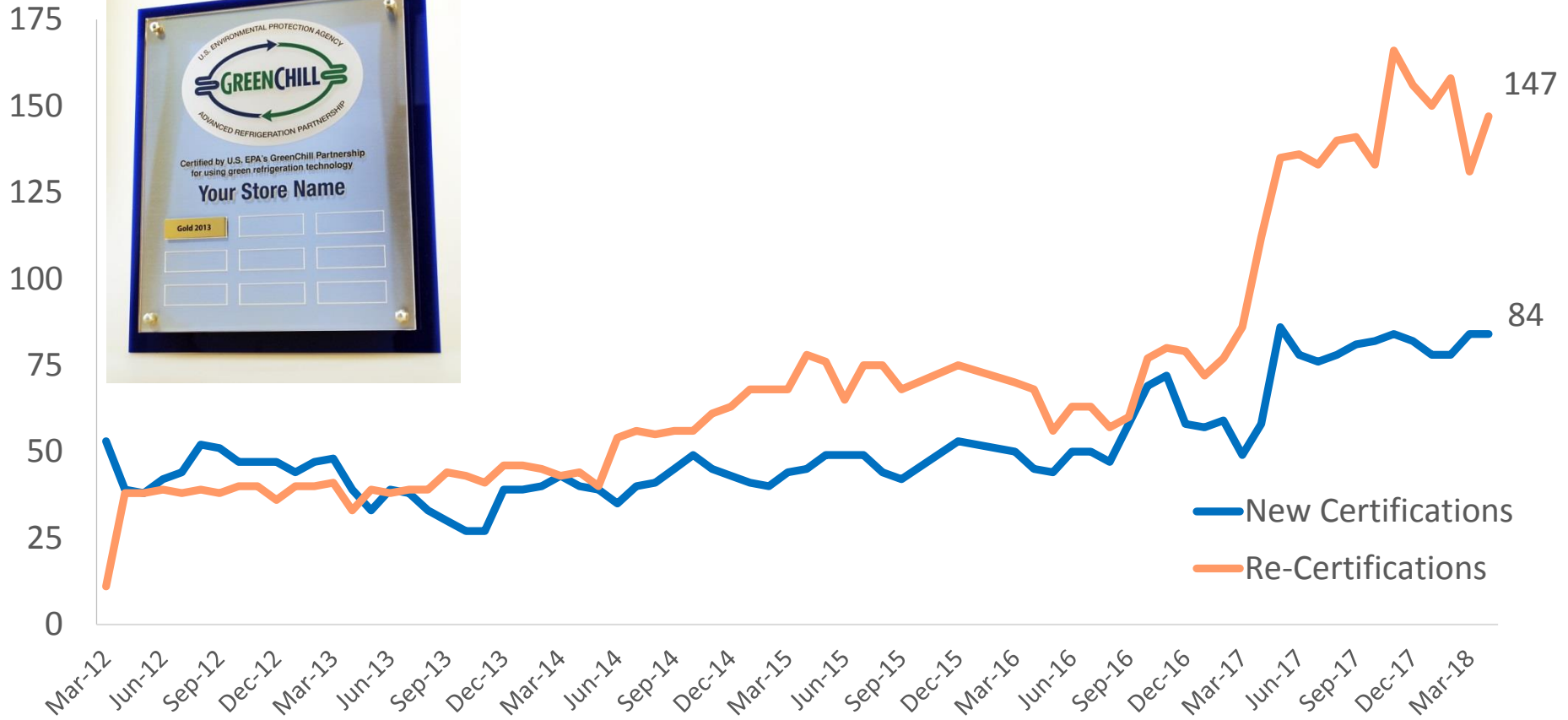
# Installed Refrigerants Over Time



# Store Certification Program Growth



# Store Re-Certifications



# GreenChill Advanced Refrigeration Partnership Annual Achievements



[TINYURL.COM/GREENCHILL](https://www.tinyurl.com/greenchill)



[@EPAGREENCHILL](https://twitter.com/EPAGREENCHILL)

# Superior Goal Achievement

Partners that set a corporate-wide goal for refrigerant emissions (for commercial systems) are eligible for GreenChill recognition

- Goal must be below leak rate achieved the year before

Many GreenChill partners are demonstrating continuously reduced emissions.

**Four (4) partners achieved their 2017 emissions rate goals.** They receive the “Superior Goal Achievement” recognition.

They are....

# Superior Goal Achievement



# Exceptional Goal Achievement

Each year partners have the option to set a “stretch” goal to even further reduce refrigerant emissions

One (1) GreenChill partner company achieved their “stretch” goal for reducing emissions....

Superior Goal Achievement





# Most Improved Emissions Rate

Two “Most Improved Emission Rate” categories:

- 1) Compared to last year’s emissions rate
- 2) Compared to company’s baseline emission rate when they joined the GreenChill Partnership

# Most Improved Emissions Rate



Year-to-Year



Over Baseline Year

# Best Emissions Rate

Two “Best Emission Rate” categories for the lowest refrigerant emissions among all sources for:

- 1) Small/Independent partners
- 2) Retail chain partners

Achieved incredibly low corporate emission rates

## Best Emissions Rate



Retail Chain



Small/Independent

# Best of the Best

## Best Certified Store

- Best GreenChill Certified Store
- Notable demonstration of innovative advanced refrigeration technology
- This year we honor ...

# Best of the Best



Kinston, NC

# Store Certification Excellence

## Most GreenChill-Certified Stores

Two “Store Certification Excellence” categories:

- 1) Supermarket company with the most GreenChill store certifications in the past year
- 2) Systems manufacturer with the most GreenChill store certifications in the past year

# Store Certification Excellence



***Hillphoenix***<sup>®</sup>

A **DOVER**<sup>™</sup> COMPANY



# Store Re-Certification Excellence

## Consecutive Re-Certifications

- “Store Re-Certification Excellence” recognition goes to stores achieving GreenChill certification in five consecutive years
- Five (5) stores reached this achievement

# Store Re-Certification Excellence



Turner, ME



Fresno, CA



Redlands, CA



Hillsborough, NJ



Brooklyn, NY

# Distinguished Partner

- Extraordinary leadership and initiative to further the GreenChill mission in the past year
- One supermarket partner

Distinguished Partner



# General Appreciation from GreenChill

- Great partners and supporters!!!
- All are playing a role through data reporting, store certifications, refrigerant management plans, webinar presentations, and input on GreenChill programs and resources.
- Providing wonderful industry insights and showing dedication.

Thank you!



# Thank You

- Scott Martin, Hillphoenix
- Ted Gartland, E. Gartland & Associates
- Maureen Beatty, National Refrigerants
- Laurie Gethin, FMI



For more information on today's annual recognition event visit: [www.epa.gov/greenchill](http://www.epa.gov/greenchill)