

# 2022 RAD Partner Meeting & Leadership Awards Ceremony

November 17, 2022



# Welcome!

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Please mute your microphone when not speaking



Use headphones if possible



Use the “hand raise” function or chat box to ask questions or to tell us that you’d like to comment



Introduce yourself when you speak

# Agenda

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**1** RAD Program Overview

**2** RAD Results & Updates

**3** 2022 RAD Leadership Awards

**4** RAD Partner Presentations

**5** Partner Discussion

# Remarks from EPA

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Erin Birgfeld, Branch Chief, Technology Transition Branch,  
Stratospheric Protection Division

# **RAD Program Overview**

# What is RAD?

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- The U.S. Environmental Protection Agency's (EPA's) Responsible Appliance Disposal (RAD) Program is a voluntary partnership program that was launched in October 2006 to protect the ozone layer, cut GHG emissions, and benefit communities
- RAD Partners include utilities, retailers, manufacturers, state and local government agencies, waste removal service providers, and others who collect and dispose of used refrigerated appliances
- RAD Affiliates include state and local governments, industry groups, and other qualifying organizations who promote the goals of the RAD

# How does RAD work?

1

RAD Partners collect used refrigerated appliances (e.g., refrigerators, freezers, window air-conditioners, and dehumidifiers) from customers

2

RAD Partners work with recyclers to ensure the used appliances are disposed of using best environmental practices:

- Complying with laws on the recovery of refrigerant, used oil, and PCBs
- Retiring old, inefficient appliances to save energy
- Recovering appliance insulating foam
- Recycling durable goods

3

As a result of their commitments, RAD Partners:

- Avoid the release of ODS and GHGs
- Reduce energy consumption, which saves money
- Avoid the release of used oil, mercury, and PCBs that can cause adverse human health effects
- Save landfill space and energy by recycling – rather than landfilling – the metals, plastics, and glass contained in appliances

# **RAD Results & Updates**

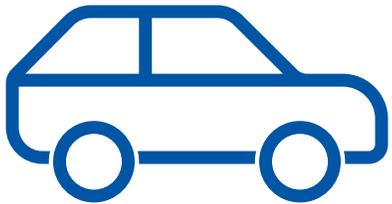
# 2021 Program Results

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Units	2021	Cumulative
Refrigerators	162,564	8,330,936
Stand-alone Freezers	26,324	903,784
AC Units	9,466	115,991
Dehumidifiers	7,337	49,531
<b>Total</b>	<b>205,691</b>	<b>9,400,242</b>

# RAD Partner Accomplishments



The GHG emissions from **8.7 million passenger vehicles** driven for one year.

- OR -

Carbon sequestered by **47.7 million acres of U.S. forests** in one year.

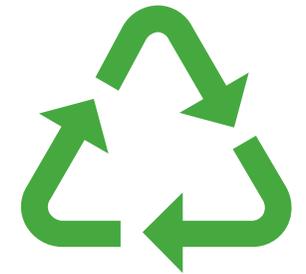


The CO<sub>2</sub> emissions from **7.8 million homes' electricity use** for one year.

- OR -

- OR -

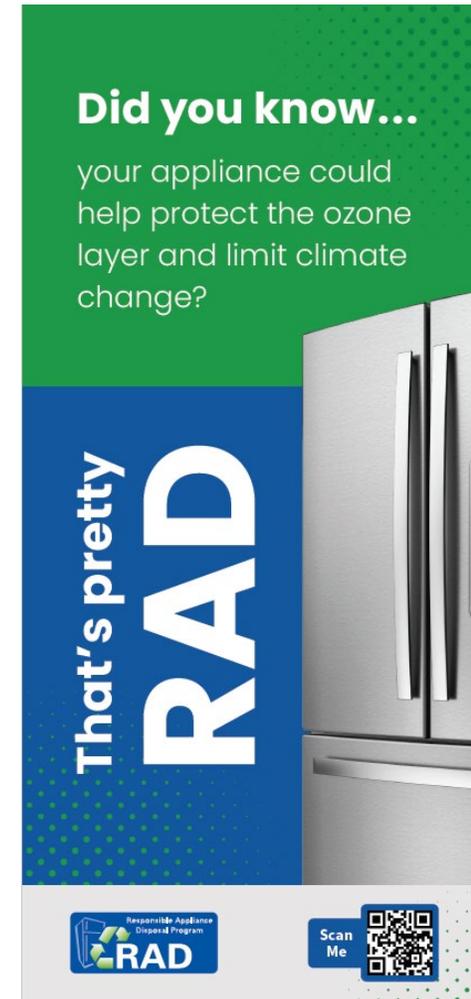
Greenhouse gas emissions avoided by **13.9 million tons of waste recycled** instead of landfilled.



# Current RAD Activities

## ■ Retailer Engagement

- In-store retail marketing flyer
- In-store/online marketing flyer/widget (under development)
- Retailer engagement webinar
- Facilitate 'pilots' in store with independent retailers to utilize RAD materials as incentives to recycle old appliances

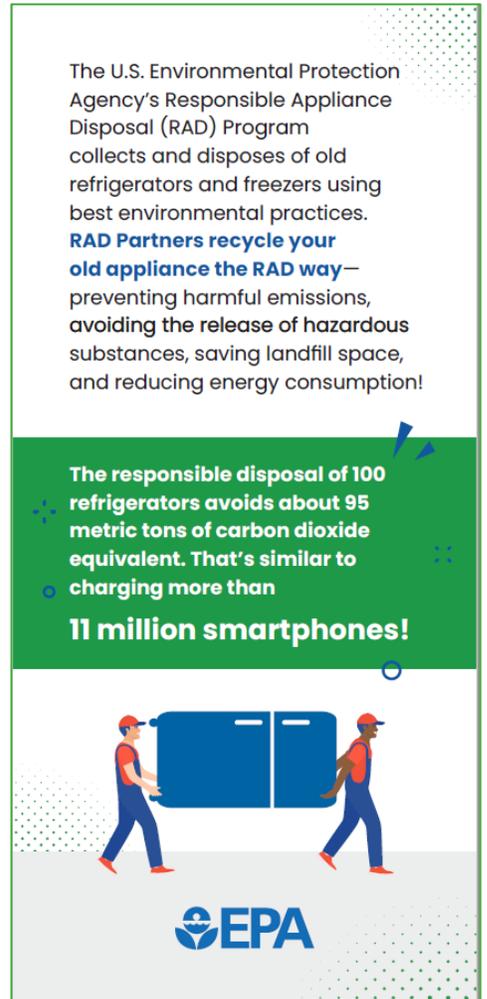


**Did you know...**  
your appliance could help protect the ozone layer and limit climate change?

That's pretty **RAD**





The U.S. Environmental Protection Agency's Responsible Appliance Disposal (RAD) Program collects and disposes of old refrigerators and freezers using best environmental practices. **RAD Partners recycle your old appliance the RAD way**—preventing harmful emissions, avoiding the release of hazardous substances, saving landfill space, and reducing energy consumption!

The responsible disposal of 100 refrigerators avoids about 95 metric tons of carbon dioxide equivalent. That's similar to charging more than **11 million smartphones!**





# Current RAD Activities

- Website Updates

- Updated [For Consumers Webpage](#)
  - Interactive refrigerator graphic
  - Equivalencies calculator

- Outreach and Recruitment

- Partner Check-in Calls
- Presented at American Chemistry Council’s Polyurethanes Technical Conference and engaged with industry stakeholders
- In 2022, 8 new Partners and Affiliates have joined the RAD Program!

## Learn more about responsible appliance disposal

Use the interactive refrigerator below to understand the different components of a refrigerated appliance and why environmentally responsible recycling, done the RAD way, is so important. Click on the icons to open the refrigerator and discover the benefits of disposing of refrigerated appliances the RAD way, learn about the key concerns over appliance disposal today, and how RAD partners address those concerns.



## RAD Environmental Benefits Calculator

Use the RAD environmental benefits calculator below to see the environmental impact from disposing of your refrigerated appliance(s) the RAD way.

### Enter Your Data

Enter the number of appliances of each type you have and click calculate.

Please note that these calculations are estimates and will vary based on the actual types and amounts of materials recovered.

	<input type="text"/>		<input type="text"/>
	Refrigerators		Dehumidifiers
	<input type="text"/>		<input type="text"/>
	Stand-Alone Freezers		Air Conditioning Units

**Calculate**

# RAD Partners and Affiliates



The image displays a collection of logos for various organizations that are partners or affiliates of RAD. The logos are arranged in a grid-like fashion across the page. Key logos include:

- Utility Companies:** aes Indiana, atlantic city electric (AN EXELON COMPANY), bge (AN EXELON COMPANY), Consumers Energy (Count on Us), nationalgrid, Xcel Energy, Central Hudson (A FORTIS COMPANY), Dominion Energy, Jersey Central Power & Light (A FirstEnergy Company), PPL Electric Utilities, NYSEG (An AVANGRID Company), RG&E (An AVANGRID Company), UI (An AVANGRID Company), SMUD, Modesto Irrigation District, Water and Power, Palo Alto Utilities, Burbank Water and Power, Los Angeles Department of Water & Power, Liberty, TTD Water & Power (Serving Central California since 1887), VECTREN (A CenterPoint Energy Company), Georgia Power, PECO (An Exelon Company), PSEG LONG ISLAND (We make things work for you.), and Silicon Valley Power (CITY OF SANTA CLARA).
- Appliance Centers:** JOHNSON MERTZ QUALITY APPLIANCE CENTER, VALLEY OAK HOME APPLIANCE CENTER, HOME APPLIANCE SOLUTIONS.
- Other Partners:** Electrolux, Efficiency Vermont, The Electric Company (El Paso Electric), GE APPLIANCES (a Haier company), EXQUISITE PROPERTY SERVICES (Secular, mobile, and off-to-dielectric Property Care), delmarva power (AN EXELON COMPANY), TIMELINE ARCADE (YORK, PA), MidAmerican ENERGY (OBSESSIVELY, RELENTLESSLY AT YOUR SERVICE.), Minnesota Power (AN ALLETE COMPANY), Cape Light Compact, and mrrn maryland recycling network.
- Environmental/Recycling:** EFFICIENCY\$SMART, EVERSOURCE, and PNM.

# **2022 RAD Leadership Awards**

A solid green triangle pointing upwards from the bottom right corner of the slide, extending towards the top right edge.

# RAD Leadership Awards

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- **RAD Champion:** The top 10 Partners with the highest number of units processed with foam recovery
- **RAD Program Growth:** The top 3 Partners to achieve the greatest percent increase in the number of units processed compared to the previous reporting year
- **RAD Ambassador:** The Partner that demonstrates exemplary partner practices beyond the requirements of the RAD Program

# RAD Champions

- RAD Partners are eligible for RAD Champion recognition based on the total number of units processed with appliance foam recovery
- 10 Partners are receiving RAD Champion awards today!

# RAD Champion

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CITY OF  
BURBANK



**WATER AND  
POWER**

# RAD Champion

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# RAD Champion

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CITY OF  
**PALO**  
**ALTO**  
UTILITIES

# RAD Champion

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# RAD Champion

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**GE APPLIANCES**  
*a Haier company*

# RAD Champion

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**WATER & POWER**

*Serving Central California since 1887*

# RAD Champion

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# RAD Champion

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# Georgia Power

# RAD Champion

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# RAD Program Growth

- This award is presented to RAD Partners who have achieved the greatest percent increase in the number of units they processed in the last year
- 3 Partners will be receiving awards based on their outstanding increases in units collected compared to the 2020 program year!

# RAD Program Growth

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# Georgia Power

# RAD Program Growth

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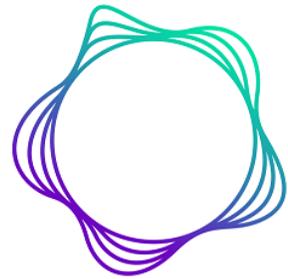
CITY OF  
BURBANK



**WATER AND  
POWER**

# RAD Program Growth

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**delmarva**  
**power**<sup>SM</sup>

AN EXELON COMPANY

# RAD Ambassador

The RAD Ambassador award recognizes a Partner for outstanding program engagement and exemplary practices including:

- Promoting the RAD Program and safe appliance disposal
- Collaboratively engaging with existing partners or recruiting new partners to join RAD
- Significant participation in RAD Partner events
- Launching innovative programs or campaigns that raises awareness for the importance of safe appliance disposal



# EXQUISITE

## PROPERTY SERVICES

Sustainable and Affordable Property Care.

The image features a vibrant blue background with a diagonal green stripe running from the bottom right towards the top left. A white rectangular border frames the central area. In the top-left corner, there is a white outline of a seven-pointed star. In the bottom-left corner, there is a white outline of a five-pointed star. On the right side, there are several white outlines of jagged, starburst-like shapes. The word "Congratulations!" is written in a large, bold, white sans-serif font across the center of the image.

**Congratulations!**

# **RAD Partner Presentations**

# Presenters

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- Efficiency Smart, Dan Petit
- National Grid, Melanie Coen

# Efficiency Smart

Dan Petit

# Efficiency Smart Appliance Recycling

*Annual RAD Partner Meeting and Awards Ceremony*

Dan Petit | Operations Manager | Efficiency Smart | [www.energysmart.org](http://www.energysmart.org)

November 17, 2022



# Who is Efficiency Smart?

- American Municipal Power (AMP)'s member service for energy efficiency and peak reduction
- VEIC, a sustainable energy nonprofit, administers the program on behalf of AMP
- Has served more than 65 AMP municipal utilities in Delaware, Michigan, Ohio, and Pennsylvania since 2011



# Appliance Recycling Rewards Program

- Availability of statewide energy efficiency programs affect ability to offer appliance recycling
- Year-round program in Delaware in partnership with ARCA, includes a seasonal incentive increase
- Seasonal program in Ohio in partnership with SCS Logistics
- Both programs include scheduling, appliance pickup, and responsible recycling of all units
- Eligible appliances include refrigerators, freezers, dehumidifiers, and window AC units

SCHEDULE A PICKUP BY SEPTEMBER 30  
**AND GET \$100**  
FOR RESPONSIBLY RECYCLING A WORKING APPLIANCE



# 2022 Appliance Recycling Campaign

## Marketing Tactics

- Print and digital advertising
- News releases to local media outlets
- Email newsletters
- Social media posts
- Utilization of city-owned marketing channels such as messages on utility bills and promotional materials at community events

## 2022 Campaign Results (July – Sept)

- 774 units recycled
  - 16% increase over 2021
- August 2022 was best month ever for Efficiency Smart website views
  - Monthly website visitors up 44% over 2021
  - Monthly appliance recycling webpage traffic up 29% over 2021

# Why Offer an Appliance Recycling Program?

- Customers love it
  - Free pickup
  - Reward for participating
  - Appliance is responsibly recycled
  - Save energy and money by not running an older unit
- Way for utilities to positively engage with their customers
- An older, but functional unit is removed from the grid

**“I love the appliance recycling program. Combined with my energy star rebate, I got a new and more efficient refrigerator for under \$300! Definitely would use again!”**

**Laura, Customer from Oberlin, Ohio**

# Future Plans

- Make participation easier/increase participation
  - Consider drop-off events for smaller units (dehumidifiers and window ACs)
  - Add an online sign-up form to our website



# National Grid

Melanie Coen

# 2022 Appliance Recycling Program

November 17, 2022

**nationalgrid**



# Program Overview

- **All National Grid residential electric customers are eligible**
- **Eligible appliances include working, inefficient refrigerators, freezers, and dehumidifiers**
- **No-cost pickup at customer homes**
  - Refrigerators/freezers (dehumidifiers are an add-on measure)
  - Pick-ups can be scheduled online or by phone
  - Contactless pick-up available
- **\$75 rebate for refrigerators and freezers**
- **\$30 rebate for dehumidifiers**



# Dehumidifier Recycling Events

- Over 30 events throughout National Grid's Massachusetts service territory
- Events hosted by TRC at retail appliance stores
- Partnership with Green Team Junk Removal and State Legislators to host community recycling events
- \$30 dehumidifier rebate plus \$30 rebate for new ENERGY STAR dehumidifier purchase
- Customer convenience and educational opportunities



## Recycling and Energy Drive Free Drop-Off

National Shrine of Our Lady La Salette  
947 Park Street, Attleboro, MA 02703  
Saturday, April 2nd, 10:00 a.m. – 1:00 p.m.

We accept ▼

### Furniture:

Couches  
Love seats  
Recliners  
Wood kitchen tables  
Kitchen chairs

End tables  
Dressers  
Bureaus  
Night stands  
Desks

Must be clean and reusable. Limit of two items per household. We reserve the right to refuse.

### Electronics:

PC monitors  
CPUs  
Motherboards  
Hard drives  
CD drives  
Power supplies

Printers and faxes  
Cell phones  
Keyboards  
Gaming systems  
Amplifiers  
Routers

Not accepting TVs

[gogreenteamjunk.com](http://gogreenteamjunk.com)



Turn in your old  
dehumidifier and  
receive

**\$30**

from National Grid

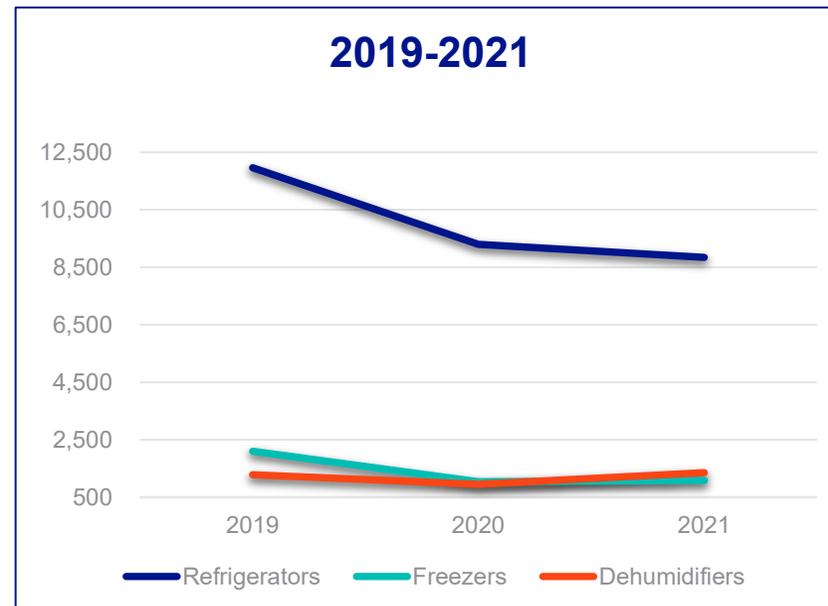
Learn more at  
[masssave.com/DehumidifierTurnIn](http://masssave.com/DehumidifierTurnIn)

This event is brought to you by:



**nationalgrid**

# Current and Historical Participation



nationalgrid

# Q&A

For additional questions, email Sally Hamlin, EPA RAD Program Manager, at [Hamlin.Sally@epa.gov](mailto:Hamlin.Sally@epa.gov)

# **RAD Partner Highlights and Discussion**

# Common Themes from Partner Check-in Calls

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## ■ Opportunities

- Expanding pickups to smaller units
- Community drop-off events
- Creative campaigns
- Local and regional retailer engagement

## ■ Challenges

- Supply chain
- Labor shortages
- Reduced cost effectiveness

# Discussion



**Thank You!**