

Recycling the RAD Way!

U.S. Environmental Protection Agency's
Responsible Appliance Disposal (RAD) Program





Welcome, Introductions & A Little Admin

Our Moderator:

- **Peter Houstle** - MRN Executive Director

Our Presenters:

- **Sally Hamlin** – EPA, RAD Program Manager
- **Christine Gajewski** – ICF, Contractor
- **Gabrielle Jette** – ICF, Contractor

Admin:

- Post questions in chat box
- Recording will be posted on MRN website

Not a Member? Join Today to Support Recycling in Maryland!
www.marylandrecyclingnetwork.org





Sally Hamlin

RAD Program Manager since 2014

Physical Scientist at U.S. Environmental Protection Agency (EPA)

Agenda



- Background
- What are the concerns over appliance disposal today?
- How does RAD help?
- What are the benefits?
- Why join?
- Q&A

Background



13 million refrigerators and freezers

Background



13 million refrigerators and freezers
9 million window AC units

Background



13 million refrigerators and freezers,
9 million window AC units, and
1 million dehumidifiers
are disposed of annually in the United States.



**What are the concerns over
appliance disposal today?**

Concerns over Appliance Disposal Today



Reselling old, inefficient units

- An estimated 25% of refrigerated appliances collected through pick-up programs are refurbished and resold
- Old, inefficient appliances that are put back on the grid consume excessive amounts of electricity

Concerns over Appliance Disposal Today



Reselling old, inefficient units

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→ Higher energy costs for consumers and environmental and health impacts for all

Concerns over Appliance Disposal Today



Landfilling recyclable materials

- Units not fit for resale are typically sent to scrap metal companies, where valuable metals are salvaged, but plastics, glass, and other durable materials are typically shredded and landfilled
- The industry often refers to this practice as “appliance recycling”

Concerns over Appliance Disposal Today



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→ *Waste of landfill space and energy*

Concerns over Appliance Disposal Today



Releasing refrigerants and other harmful substances, against federal requirements

- Federal law requires that refrigerant is recovered prior to dismantling or disposal and that universal waste is properly managed

Concerns over Appliance Disposal Today



→ *Environmental and human health impacts*

- **Refrigerant:** Ozone depletion can lead to skin cancer, cataracts, skin problems, and immune system suppression

Concerns over Appliance Disposal Today



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- **Mercury:** Impairment of neurological development and other problems associated with the human nervous system

Concerns over Appliance Disposal Today



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- **Used Oil:** Damage to the liver, brain, immune system, and reproductive system

Concerns over Appliance Disposal Today



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- **Mercury:** Impairment of neurological development and other problems associated with the human nervous system
- **Used Oil:** Damage to the liver, brain, immune system, and reproductive system
- **PCBs:** Carcinogenic and non-cancerous effects

Concerns over Appliance Disposal Today



Releasing insulating foam blowing agents

- Federal law does not require the recovery of the insulating foam that lines the appliance walls of refrigerators and freezers
- This foam contains substances that are potent greenhouse gases and that may also deplete the ozone layer

Concerns over Appliance Disposal Today



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→ *Contributes to stratospheric ozone depletion and climate change*



How does RAD help?

EPA's RAD Program



- **What is RAD?**
 - A voluntary partnership program that helps protect the ozone layer and reduce emissions of greenhouse gases





- **What is RAD?**

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RAD Partners

RAD recognizes partners that commit to collecting and disposing of old refrigerated appliances using the best environmental practices available and going beyond what is required by federal law

RAD Affiliates

RAD recognizes affiliates that promote the RAD program



What is Required by Law?



- **Federal Regulations**

- Section 608 of the Clean Air Act requires the recovery of ODS and HFC refrigerant prior to appliance dismantling or disposal ([40 CFR Part 82 Subpart F](#))

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- Subtitle C of the Resource Conservation & Recovery Act (RCRA) and Subpart D of the Toxic Substances Control Act (TSCA) require proper management and storage of universal waste (e.g., **mercury**), **used oil**, and **PCBs** (40 CFR Parts [273](#), [279](#), [761](#))

How Do Partners Go Beyond?



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- 2) Promote **recycling** of all durable goods

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- 2) Promote **recycling** of all durable goods
- 3) Promote the permanent retirement of old, inefficient appliances to **save energy**

How Do Affiliates Go Beyond?



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- 3) **Raise awareness** on responsible appliance disposal practices among consumers

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- 4) Encourage the use of RAD **marketing or promotional materials**

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- 3) **Raise awareness** on responsible appliance disposal practices among consumers
- 4) Encourage the use of RAD **marketing or promotional materials**
- 5) Include a link to the **RAD website**, or the **RAD widget**, on their websites



What are the benefits?

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- ✓ Ozone layer protection

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- ✓ Ozone layer protection
- ✓ Climate benefits

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- ✓ Climate benefits
- ✓ Cleaner, safer communities

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What are the Benefits?



- ✓ Ozone layer protection
- ✓ Climate benefits
- ✓ Cleaner, safer communities
- ✓ Landfill space savings
- ✓ Energy savings

Partner Achievements



From 2007-2016, partners recycled nearly **7 million** refrigerated appliances the “RAD way”



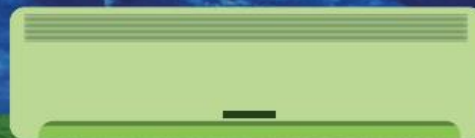
6,382,700
Refrigerators



656,100
Stand-Alone Freezers



11,900
Dehumidifiers



51,800
Air Conditioning Units

Partner Achievements



7
MILLION

refrigerated appliances
recycled the RAD way



31.6
MILLION

metric tons of GHG
emissions avoided

1,721
TONS

of ODS emissions
avoided

988
MILLION
POUNDS
METALS

159
MILLION
POUNDS
PLASTICS

25
MILLION
POUNDS
GLASS

prevented from going to landfills

Partner Achievements



A reduction of 31.6 million MTCO_2eq is equivalent to the carbon emissions associated with...



Generating enough electricity to power nearly **4.74 million** homes for one year...

Partner Achievements



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Generating enough electricity to power nearly **4.74 million** homes for one year...



Over **37.2 million** acres of forests in one year—approximately the size of Florida...

Partner Achievements



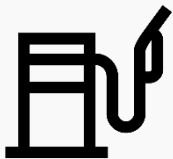
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Generating enough electricity to power nearly **4.74 million** homes for one year...



Over **37.2 million** acres of forests in one year—approximately the size of Florida...



Or consuming more than **3.6 billion** gallons of gas.



Why join?

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Partners and affiliates are publically recognized by EPA for:

Protecting the ozone layer and reducing GHG emissions



DELAWARE DEPARTMENT OF HEALTH AND SOCIAL SERVICES:



The "First State" Becomes the First State Partner in EPA's Responsible Appliance Disposal Program

EPA's RAD program launched in October 2006 to protect the ozone layer, cut greenhouse gas (GHG) emissions, and benefit communities. The RAD program invites utilities, retailers, manufacturers, state and local governments, universities, and other qualifying organizations to become partners. The RAD program also invites states to become RAD affiliates to promote the program to potential partners.

In 2015, the U.S. Environmental Protection Agency (EPA) announced an effort to protect the ozone layer and reduce emissions of greenhouse gases (GHGs) by properly disposing of old refrigerators, air conditioners, and other refrigerant-containing appliances. These old appliances contain chemicals—like chlorofluorocarbons (CFCs), hydrochlorofluorocarbons (HCFCs), and hydrofluorocarbons (HFCs)—that have global warming potentials thousands of times greater than carbon dioxide in the atmosphere. EPA's Responsible Appliance Disposal Program (RAD) is a partnership between EPA, utilities, retailers, manufacturers, and other qualifying organizations to promote the program to potential partners and increase environmental benefits for their states and communities.

sears®
A RAD PARTNER FROM THE START

In 2007, one of the nation's leading home appliance retailers—Sears, Roebuck and Co. (Sears)—became the first nationwide retailer to partner with the U.S. Environmental Protection Agency (EPA) as part of the Responsible Appliance Disposal (RAD) Program. With over 2,500 retail locations and 38 distribution centers, Sears Holdings (the parent company to Sears) recognized the opportunity to make a large, beneficial environmental impact by becoming a RAD partner and providing customers with the ability to responsibly dispose of their refrigerated appliances. As a leader in the promotion of energy-efficient appliances, Sears' membership in the RAD program was a natural extension.

EPA's RAD Program is a partnership launched in October 2006 to protect the ozone layer, cut greenhouse gas (GHG) emissions, and benefit communities. The RAD Program recognizes partners that commit to collecting and disposing of old refrigerated appliances using the best environmental practices available and going above and beyond what is required by federal law. The RAD Program invites utilities, retailers, manufacturers, local governments, universities, and other qualifying organizations to become partners. The RAD Program also invites states to become RAD affiliates to promote the program to potential partners and increase environmental benefits for their states and communities.

"Protecting the environment, and inspiring consumers to protect the environment, through avoided emissions from substances with high global warming and ozone depletion potential is important to us," said Bill Hutchinson, President of Supply Chain. "We aspire to have a positive impact by mitigating climate change and to encourage our industry to do the same."

TURNING VISION INTO REALITY: PROGRAM LAUNCH

Sears' RAD program began as a combined effort between Sears, appliance haulers, and utilities. By teaming with utilities that offer rebates on the removal of old, inefficient appliances from the electricity grid as part of Demand-Side Management (DSM) programs aimed at reducing electricity use through energy efficiency or conservation, Sears has been able to make their appliance recycling program cost-neutral. Sears first rolled out utility haul-away programs on the West Coast through a partnership with JACO Environmental (JACO) and the Sacramento Municipal Utility District (SMUD), involving two retail locations and one



Appliance hauler sets up photo by Patrick O'Connell. Photo courtesy of JACO Environmental. © JACO Environmental

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FROM THE START

Responsible Appliance Disposal Program
RAD .asm

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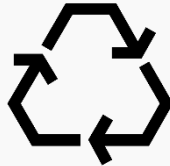


Refrigerator being disposed of. Photo by Patrick DeBorja. Reprinted courtesy of JACO Environmental. © JACO Environmental

Partners and affiliates are publically recognized by EPA for:



Protecting the ozone layer and reducing GHG emissions



Saving landfill space and energy by recycling rather than landfilling durable materials

Why Join?



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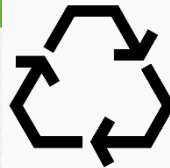
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Refrigerator being disposed of through Demand-Side Management (DSM) program. © JACO Environmental



Protecting the ozone layer and reducing GHG emissions



Saving landfill space and energy by recycling rather than landfilling durable materials



Keeping communities safe by avoiding the release of used oil, mercury, PCBs

Why Join?



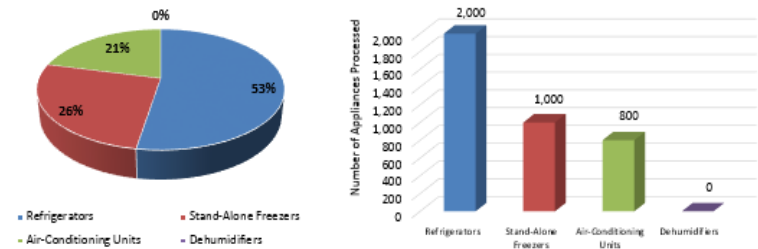
RAD helps partners achieve and track environmental benefits

Step 5: Key Messages and Figures to Promote Program's Benefits

Instructions: No action is required. The information below is for reference only and is self-populated based on data entered in the Step 3 worksheets. The purpose of this worksheet is for EPA to provide RAD partners with key messages and figures to promote the benefits of their appliance disposal program.

RAD Results

In 2017, ICF collected and processed a total of 3,800 refrigerant-containing appliances using best environmental practices. As a result, ICF successfully reduced emissions of ozone-depleting substances and greenhouse gases as well as reduced energy consumption, increased the recycling of durable materials, and ensured the proper handling of hazardous substances.



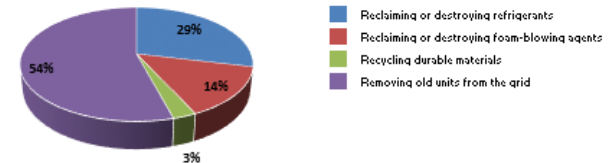
Climate Benefits

In 2017, ICF achieved a reduction of 8,416 metric tons of carbon dioxide equivalent, which is equal to:

- greenhouse gas emissions from 1,176 passenger vehicles driven for one year. (-or-)
- carbon dioxide emissions from 832 homes' energy use for one year. (-or-)
- carbon dioxide emissions from 237,331 incandescent lamps switched to LEDs.



Of these emissions reduced, 28.6% can be attributed to reclaiming or destroying refrigerants, 14.4% to reclaiming or destroying foam-blowing agents, 2.7% to recycling durable materials (which avoids the need to produce virgin materials), and 54.3% to removing old units from the grid.



Why Join?



RAD provides partners and affiliates with a variety of **tools and resources** related to responsible appliance disposal

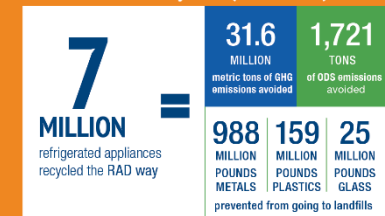


Thank you for recycling your refrigerated appliance with a proud partner of EPA's Responsible Appliance Disposal (RAD) Program.

Partners of EPA's RAD Program commit to collecting and disposing of old refrigerated appliances using best environmental practices. Recycling with a RAD partner will:

- Reduce your household energy consumption, which will save you money
- Avoid the release of ozone-depleting substances (ODS) and greenhouse gases (GHGs)
- Save landfill space and energy by recycling—rather than landfilling—the metals, plastics, and glass contained in your appliance
- Avoid the release of used oil, mercury, and polychlorinated biphenyls (PCBs) which can cause adverse human health effects

Benefits Achieved by RAD (2007-2016)



To learn more, visit: epa.gov/rad

EPA's Responsible Appliance Disposal (RAD) Program: A Win-Win for You and the Environment



What is RAD?

RAD is a voluntary partnership program that works with utilities, retailers, manufacturers, states, affiliates, and others to dispose of old refrigerated appliances using the best environmental practices available—going beyond federal requirements to protect Earth's climate and ozone layer.

This means:

- Complying with laws on the recovery of refrigerant, used oil, and PCBs
- Recovering appliance foam
- Promoting recycling of all durable goods
- Promoting the permanent retirement of old, inefficient appliances to save energy



RAD partners have recycled 71 million refrigerated appliances since program inception, resulting in 31.6 million metric tons of greenhouse gas (GHG) emissions avoided—equivalent to the carbon dioxide emissions from the annual electricity use of 4.7 million homes.

Why Join?

- ✓ Partners are **publicly recognized by EPA** for:
 - Protecting the ozone layer and reducing GHG emissions
 - Saving landfill space and energy by recycling rather than landfilling durable materials
 - Keeping communities safe by avoiding the release of used oil, mercury, and PCBs
- ✓ Partners **gain access to the EPA RAD logo**
 - Distinguish your organization as an industry leader
 - Show others how you are protecting the environment and benefiting communities
- ✓ RAD helps partners **achieve and track environmental benefits**
 - Document your RAD achievements in reports and benchmark progress over time
- ✓ EPA provides partners with a variety of **tools and resources** related to responsible appliance disposal, including:
 - Partner case studies
 - Disposal and recycling fact sheets
 - Guidance documents
 - Materials communicating the benefits of RAD
- ✓ RAD provides **access to a national network** of like-minded organizations
 - Exchange information and best practices with other partners
 - Participate in partner-only webinars and meetings
 - Leverage partnerships with utilities, appliance manufacturers and retailers, recyclers, and others to make your program more efficient and effective

For more information about joining the RAD program, contact Sally Hamlin at Hamlin.Sally@epa.gov or visit the RAD website at <https://www.epa.gov/rad>



RAD Web Button

Partner Recruiting Toolkit

Appliance Recycling Flyer

Why Join?



RAD provides access to a national network of like-minded organizations to encourage partners to exchange information and share best practices



How to Become a RAD Partner or Affiliate



If your organization is already disposing of appliances using RAD best practices, it's easy!

1. Review and sign non-binding partnership agreement

**EPA'S RESPONSIBLE APPLIANCE DISPOSAL PROGRAM
EXAMPLE PARTNERSHIP AGREEMENT**

This voluntary partnership (hereinafter referred to as a "Partner's") is entered into by the Partner and the United States Environmental Protection Agency (EPA) for the purpose of the Responsible Appliance Disposal Program (RAD). The Partner agrees to comply with the requirements of the RAD program and to provide the necessary resources to ensure the proper disposal of appliances.

The Partner agrees to provide the necessary resources to ensure the proper disposal of appliances, including but not limited to the following:

- Provide a dedicated area for the disposal of appliances.
- Provide a dedicated staff member to manage the disposal of appliances.
- Provide a dedicated staff member to manage the disposal of appliances.
- Provide a dedicated staff member to manage the disposal of appliances.

GENERAL TERMS

- This is a non-binding and informational agreement.
- The Partner's participation in the RAD program is voluntary.
- The Partner's participation in the RAD program is subject to the terms and conditions of the RAD program.

For more information about the Responsible Appliance Disposal Program contact:

Radl Staff:
U.S. EPA, EMC 2307
1200 Pennsylvania Ave., NW, Washington, DC 20460
Phone: (202) 368-2775 Fax: (202) 368-2342

How to Become a RAD Partner or Affiliate



If your organization is already disposing of appliances using RAD best practices, it's easy!

1. Review and sign non-binding partnership agreement
2. Report program information annually

The image shows a sample form titled "EPA'S RESPONSIBLE APPLIANCE DISPOSAL PROGRAM EXAMPLE PARTNERSHIP AGREEMENT". The form is divided into several sections: "PROGRAM EXPECTATIONS", "EPA'S RESPONSIBILITIES", "PARTNER'S RESPONSIBILITIES", "GENERAL TERMS", and "DISPUTE RESOLUTION". The "PROGRAM EXPECTATIONS" section outlines the requirements for proper recovery and management of refrigerants under Section 608 of the 1990 Clean Air Act. The "EPA'S RESPONSIBILITIES" section lists tasks such as serving as a technical implementation, calculating annual refrigerant use, and providing technical assistance. The "PARTNER'S RESPONSIBILITIES" section lists tasks such as encouraging proper recovery, reporting information, and ensuring compliance with regulations. The "GENERAL TERMS" section includes a non-binding disclaimer and a requirement for the partner to provide a representative. The "DISPUTE RESOLUTION" section outlines the process for resolving conflicts. The form also includes a signature line for the Authorized Company Representative and a signature line for the EPA representative, along with fields for name, address, city, state, zip, telephone, fax, and email. At the bottom, there is contact information for the EPA's Responsible Appliance Disposal Program Center.

How to Become a RAD Partner or Affiliate



If your organization is already disposing of appliances using RAD best practices, it's easy!

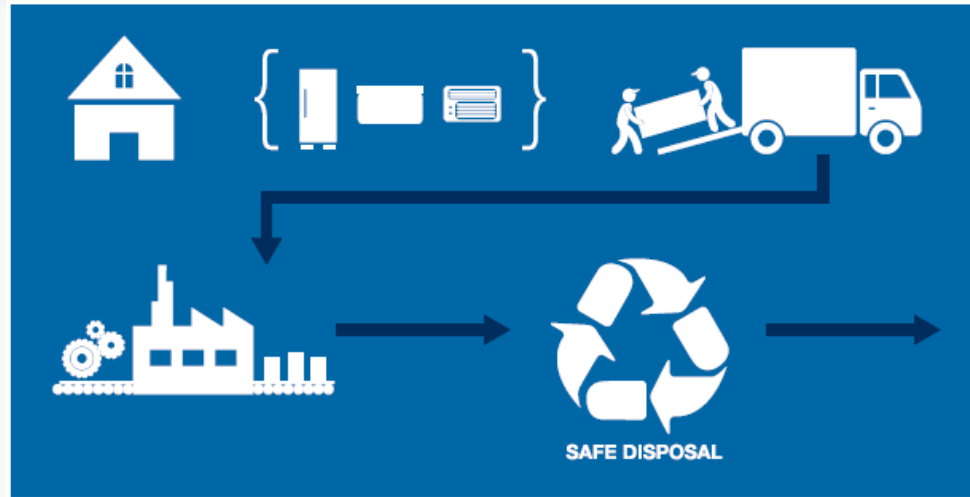
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An example partnership agreement is available on the RAD website at:

<https://www.epa.gov/rad/example-rad-partnership-agreement-form>

The image shows a sample of the "EPA's Responsible Appliance Disposal Program Example Partnership Agreement" form. The form is titled "EPA'S RESPONSIBLE APPLIANCE DISPOSAL PROGRAM EXAMPLE PARTNERSHIP AGREEMENT" and includes sections for "PROGRAM EXPECTATIONS", "EPA'S RESPONSIBILITIES", "PARTNER RESPONSIBILITIES", "DISPUTE RESOLUTION", and "GENERAL TERMS". It also contains a signature line for the Authorized Company Representative and a signature line for the EPA representative, along with fields for name, address, city, state, zip, telephone, fax, and email. The form is dated 1/2014 and includes the EPA logo and contact information for the EPA's RAD program.

How to Become a RAD Partner or Affiliate



If your organization:

- Does not dispose of appliances and is interested in becoming a RAD affiliate, or
- Does not **yet** dispose of appliances using RAD best practices, but is interested in partnering with RAD,

Please contact Sally Hamlin at Hamlin.Sally@epa.gov.

Current RAD Partners & Affiliates



Holland Board of Public Works





Questions?

For More Information



Maryland Recycling Network

(443) 741-8740

info@MarylandRecyclingNetwork.org



Sally Hamlin

RAD Program Manager

202-343-9711

Hamlin.Sally@epa.gov

