

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



2021 Annual Program Update

RAD is a voluntary partnership program that works with utilities, retailers, manufacturers, state and local government agencies, waste removal service providers, affiliates, and others to collect used refrigerated appliances and implement best environmental practices for the disposal of those units. RAD Partners go beyond federal requirements to protect Earth's climate and ozone layer. As a result of their commitments, RAD Partners prevent emissions that are harmful to the environment and the release of hazardous substances, save landfill space through recycling, and reduce energy consumption.

How Does RAD Work?



RAD Partners collect used refrigerated appliances (e.g., refrigerators and freezers) from customers.



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

As a result of their commitments, RAD Partners:

- Avoid the release of ozone-depleting substances (ODS) and greenhouse gases (GHGs)
- Avoid the release of used oil, mercury, and polychlorinated biphenyls (PCBs)
- Save landfill space and energy by recycling metals, plastics, and glass contained in appliances
- Reduce energy consumption

2021 Program Achievements

In 2021, RAD Partners collected:



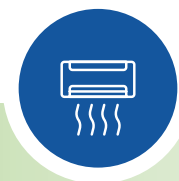
161,613
Refrigerators



26,241
Stand-alone freezers



7,337
Dehumidifiers



9,466
AC units

RAD Environmental and Consumer Benefits

	2021 Benefits	Cumulative Benefits
ODS emissions avoided Ozone depletion potential (ODP) weighted tons	22	1,996
GHG emissions avoided Metric tons of carbon dioxide equivalent (MTCO ₂ e)	1.0M	40.3M
Durable materials recycled Pounds	33M	1.5B
Energy saved Kilowatt hours (kWh)	1.1B	31.6B
PCB- and mercury-containing components disposed of	5,900	541,000
Consumer savings U.S. dollars	\$163M	\$4.0B

RAD's Cumulative Environmental Benefits are equivalent to:



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

OR



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

OR



The CO₂ emissions from
7.8 million homes'
electricity use for one year.

RAD Partners and Affiliates (as of December 2021)

AEP Indiana Michigan Power | AES Indiana | Atlantic City Electric | Baltimore Gas & Electric (BG&E) | Cape Light Compact | City of Burbank Water & Power (BWP) | City of Fort Collins Utilities | City of Palo Alto Utilities | Consumers Energy | Delmarva Power | Dominion Energy South Carolina | Efficiency Smart | Efficiency Vermont | El Paso Electric Company | Eversource | Exquisite Property Services | FirstEnergy | Free Appliance Removal Tampa | General Electric (GE) Appliances | Georgia Power | Home Appliance Solutions | Los Angeles Department of Water & Power (LAWDWP) | Liberty Utilities | MidAmerican | Minnesota Power | Modesto Irrigation District | National Grid | Northern Indiana Public Service Company (NIPSCO) | New York State Electric & Gas (NYSEG) | Rochester Gas and Electric Corporation (RGE) | PECO | Pepco | Power New Mexico (PNM) | PPL Electric Utilities | Public Service Enterprise Group (PSEG) | Puget Sound Energy (PSE) | Sacramento Municipal Utility District (SMUD) | Silicon Valley Power | Southern Maryland Electric Cooperative (SMECO) | Turlock Irrigation | UGI Utilities | Unitil | Vectren | Xcel Energy