



People. Planet. Privacy.™



NERC

Northeast Recycling Council

Examining the Intersection of Batteries and Electronics

October 7, 2025

Our Company



- Founded in 2002 & Headquartered in Fresno, CA
- 725 employees
- 15 AI Robots
- Largest Material Resource Recovery, ITAD, Mobility and Data Destruction/Processing provider in the U.S.
- Eight U.S. Facilities servicing every ZIP code in the U.S. with fully integrated global reach/partner network
- Fully integrated end-to-end solution providing in-house data destruction, processing, remarketing, recycling, logistics, and electronics legislative compliance services
- Most collapsed and direct downstream footprint in the industry with direct-to-smelter relationships
- Innovative and proprietary robotics and artificial intelligence (AI) equipment, technology and software
- Top U.S. market share and brand leader
- Over 2.5 billion pounds recycled and remarketed (approximately 200 million pounds annually)
- Clients across all major industries and all levels of government

**Headquartered in
Fresno, CA, USA**

**Servicing every ZIP code
in the U.S. with global
reach / partner network**

Eight (8) U.S. Processing Facilities

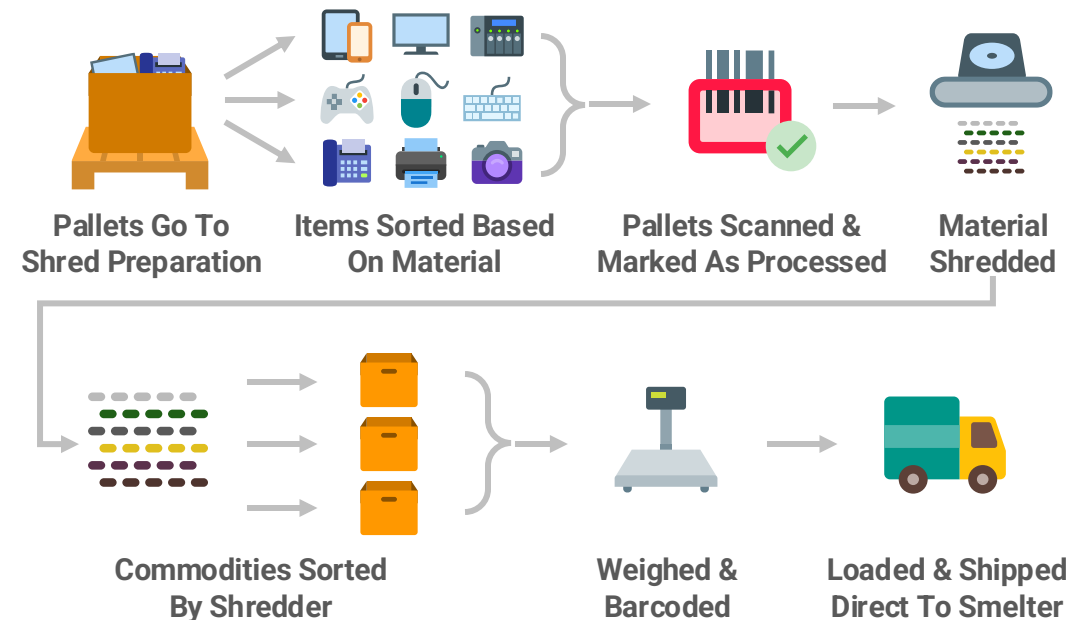
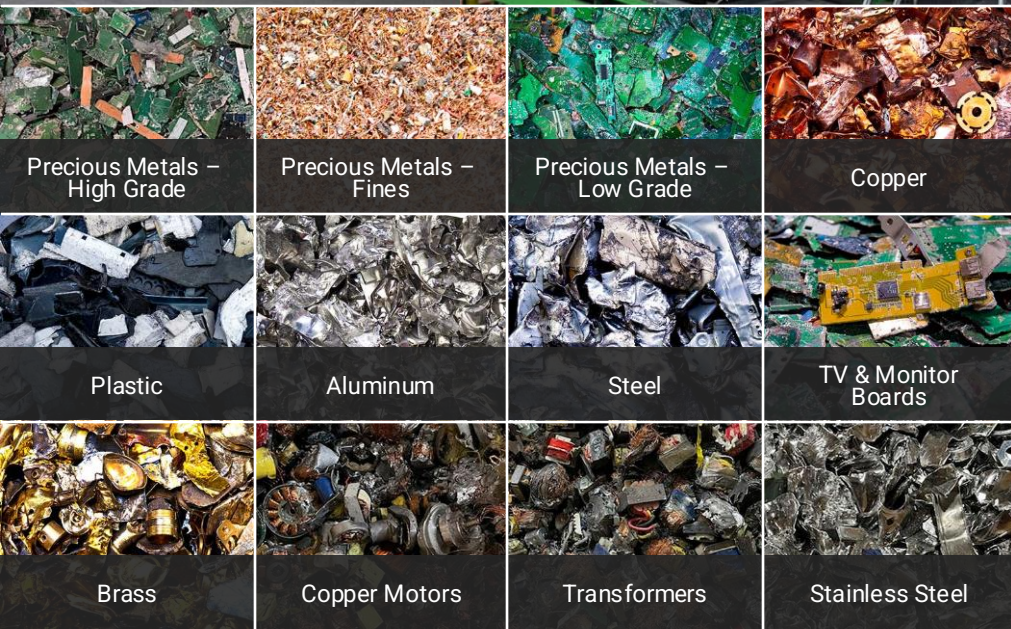
Fresno, CA • Kent, WA • Flower Mound, TX • Goodyear, AZ
Plainfield, IN • Holliston, MA • Lincoln Park, NJ • Norcross, GA

Global partner network covering over 130 countries.

Transparent Circular Material Resource Recovery (Electronics Recycling)



- Largest electronics shredding capacity in the world
- ERI's fully integrated solutions allows for transparent circular material resource recovery
- ERI recovers domestic sources of critical materials* including copper and aluminum for full circularity and transparency
- Focus materials, including batteries, are responsibly handled and processed for full circular material resource recovery
- All material resources are only sent to approved audited vendors and vetted through ERI's Downstream Vendor Management Program



Battery Recycling (BatCycle™)



ERI accepts and recycles all battery chemistries at our facilities nationwide. ERI processes alkaline batteries in-house using our proprietary BatCycle technology and works with our strategic downstream partners to circularly process other battery chemistries for complete critical material* resource recovery including Cobalt, Lithium, Nickel, Manganese, and Graphite.

Battery Services



Loose Battery Collections

- ERI will accept loose batteries sorted by chemistries at our facilities nationwide.
- Batteries must be sorted by chemistry, properly packaged in accordance with Universal Waste and US DOT standards. (bagging or taping individual batteries)



Mixed Battery Collections

OneDrum™ is a turnkey all-in-one battery recycling solution that allows the placement and transportation of large volumes of consumer single-use AND rechargeable batteries in one drum without sorting by chemistry, individually bagging, or taping any battery terminals.



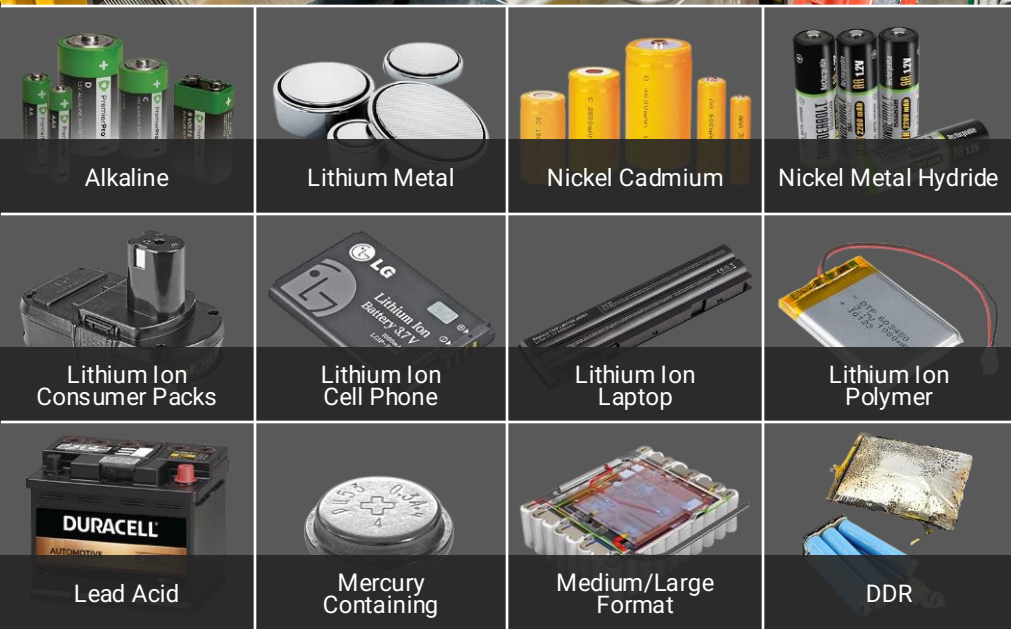
Damaged, Defective, Recalled (DDR) Batteries

- ERI recommends DDR batteries be shipped individually to prevent risk.
- ERI offers individual kits for the safe shipping and transporting of DDR batteries.
- These kits include heat shields for the safe shipping, that utilize a special permit to allow for DOT approved shipping.



Custom Services

ERI can provide additional custom options for shipping of large format or other battery recycling requirements.



Clean Energy/Electrification/Energy Demand Requirements

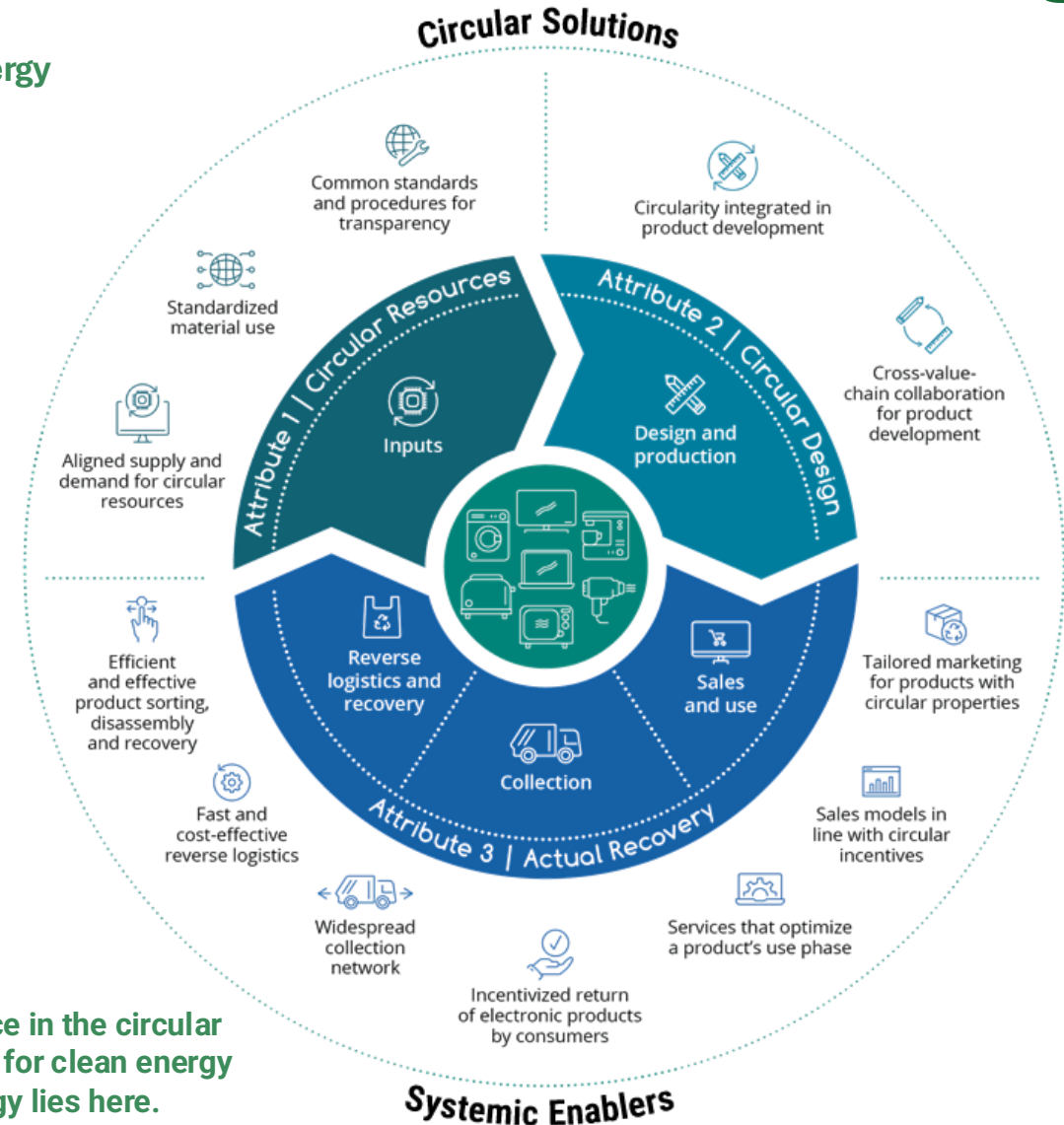


A Domestic Supply Chain for Critical Minerals and Materials (CMMs) for Clean Energy Technologies is Necessary

"Increasing U.S. processing capacity alone would bolster the supply chain [for critical minerals], and coupled with recycling, is the most promising pathway to securing the supply chain for minerals where the United States does not have significant reserves from which to extract."

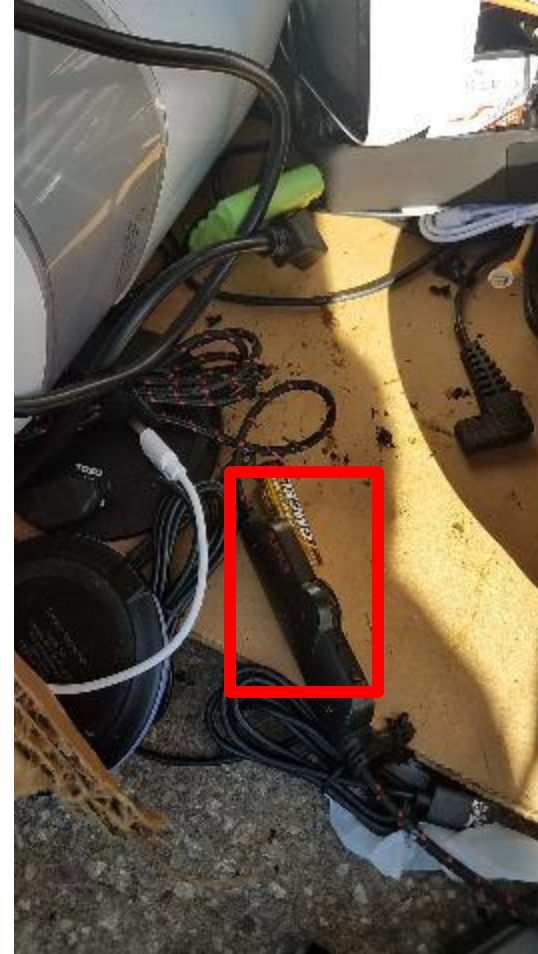
- 100-Day Reviews Under Executive Order 14017

- To date, DOE has announced more than \$3 billion in awards to support next-generation chemical processing facilities to reclaim critical minerals and materials from recycled EV batteries.
- Many of the companies that operate these facilities (e.g., Redwood Materials, Cirba Solutions, etc.) cannot yet procure enough black mass feedstock from second-life EV batteries alone.
- Companies like Redwood Materials operate "reverse gigafactories." They can't open up facilities throughout the nation to ease the logistical costs of collecting products.
- Technical innovations that improve the logistics and processes involved with collecting, sorting, and dismantling electronics and the batteries they contain *before* they reach downstream processors are critical to ensuring abundant black mass feedstock.
- Given its national footprint, its expansive collection capabilities, and its client base covering all sectors of the economy, ERI is well positioned to help meet the country's clean energy goals.





Fire Incidents caused by batteries over the past few years!



Just **ONE** battery can cause a thermal reaction that can result in damage during transportation, and could contribute to loss of facility, or life



Identify and separate batteries that pose an increased risk of producing a dangerous evolution of heat, fire, and short circuit.

Damaged, Defective, and Recalled batteries must not be shipped with conforming batteries.

What is an Embedded Battery Device



According to CA SB1215: “battery-embedded product” means a product containing a battery from which the battery is not designed to be easily removed from the product by the user of the product with no more than commonly used household tools.

Already Covered by SB20



Laptops



Tablets



Smart Watches



EarBuds



Cell Phones



Smart Speakers



Power Banks



Controllers



Keyboards/Mice



Video Equipment



Personal Care



Office Equipment



Wearables



BIOS



Toys



Cards



E-Mobility

What is not an Embedded Battery Device



According to CA SB1215: “battery-embedded product” means a product containing a battery from which the battery is not designed to be easily removed from the product by the user of the product with no more than commonly used household tools.

Already Covered by SB20



Laptops



Smart Watches



Controllers



Wearables



EarBuds



Keyboards/Mice



Toys



TVs/Monitors



Video Equipment



Cell Phones



Personal Care



Cards



Smart Speakers



Office Equipment



E-Mobility

Processing Flows



Data Destruction



Refurbishment



CRT Devices



Flat Panel Devices



Mixed Electronics



Laptops



Desktop Computers



Cell Phones / Tablets

Reuse

Single Batteries



Battery Sorting Department

Batteries & Battery-Containing

Non-Removable



Further Dismantling

Removable Battery



Battery Sorting Department

Non-Reuse

Sorting:

Covered /Non-Covered
Reuse Potential
Dismantling
Remove Focus Material



ERI Shredding

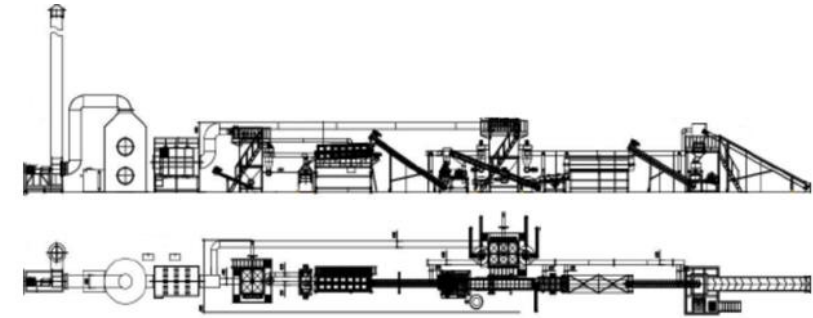
Non-Battery
Containing

Technological Innovation

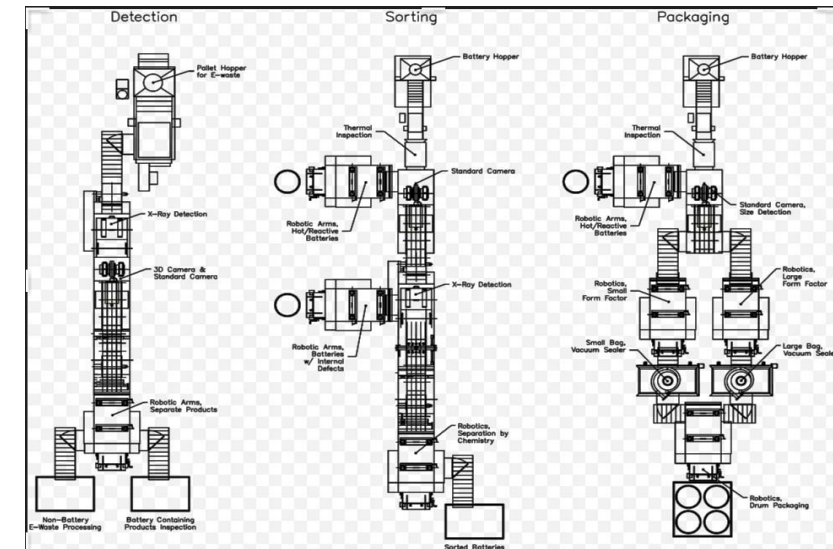


New E-Waste Sorting and Shredding Facilities Support a Domestic Supply Chain for Critical Minerals and Materials (CMMs)

- ERI is now expanding its existing recycling footprint to sort and process the increase e-waste expected from increased battery processes.
- New and/or expanded ERI facilities could provide sever cutting-edge services including:
 - X-ray and thermal imaging technology to identify and safely sort battery types by chemistry;
 - Specialized equipment to process alkaline batteries used to power everyday devices;
 - ERI's proprietary mechanical process for recycling tough-to-recycle solar panels.
- These services would capture several critical minerals and materials, including graphite, cobalt, lithium, zinc, manganese, nickel, cadmium, carbon, steel, brass and copper.



Equipment Diagram for Alkaline Battery Recycling Process



Preliminary Equipment Diagram for X-Ray and Thermal Imaging Process

Case Study: Staples Recycling Services

Staples Succeeds through Recycling Services with ERI

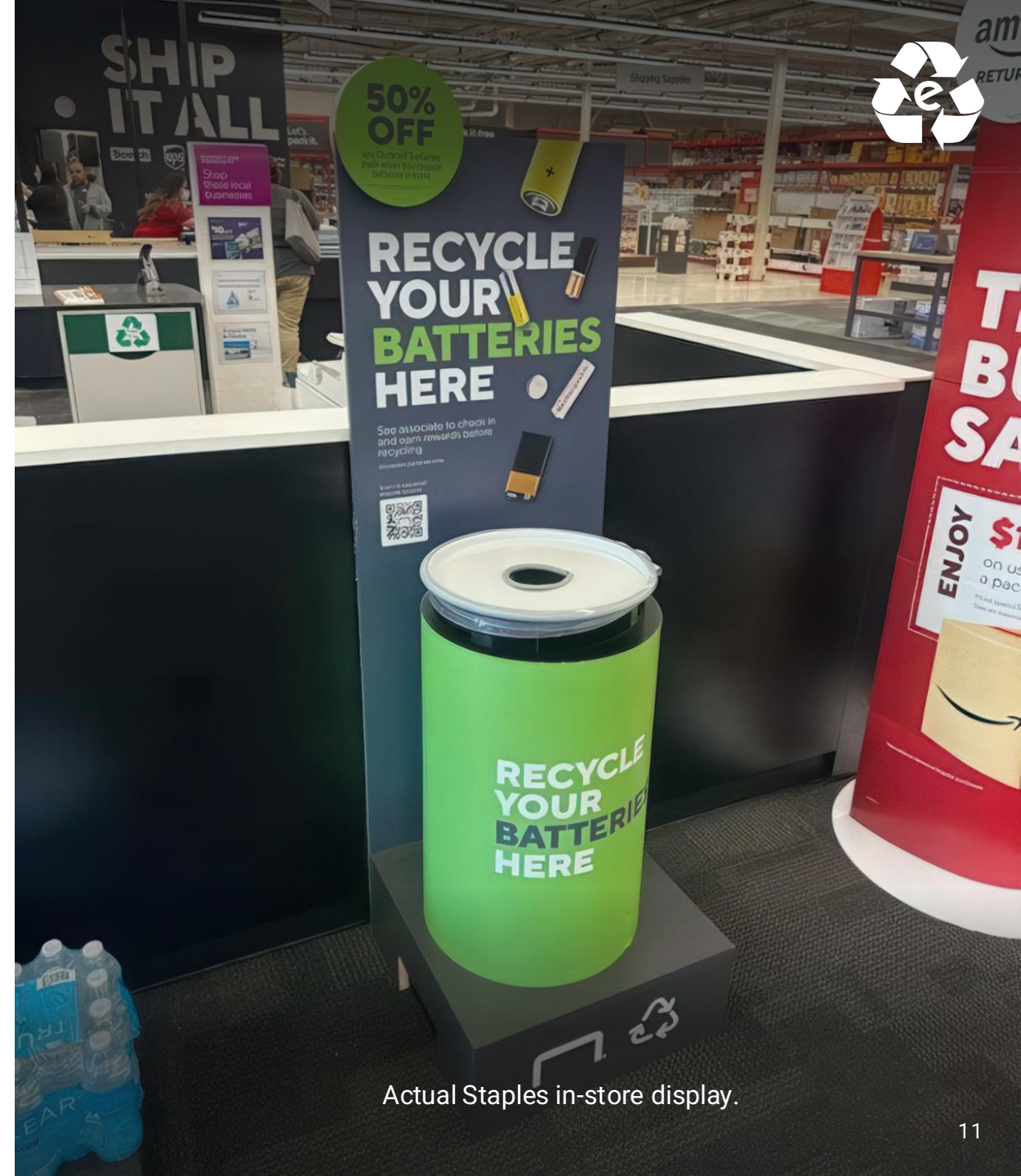
Staples began with partnering with ERI nationwide to accept electronics at stores for recycling at over 1,000 locations. Staples offers promotions and brings consumers into stores by offering this service.

Since the launch, Staples has expanded the program:

1. B2B Tech Recycling Kits
2. B2B ITAD Services
3. Online box program for consumer/small business recycling
4. Consumer Trade-in Program
5. All Battery Recycling Program



ERI offers custom branded proprietary box programs for our clients.



Actual Staples in-store display.

RecycleNation.com – Search. Find. Recycle.



RecycleNation features the world's largest free recycling database, offering over 100,000 unique data points for recycling more than 50 types of items, all available to the public at no cost.



Since 2007, RecycleNation has guided over 10 million consumers in locating recycling centers for various items, contributing to a cleaner, greener, and more sustainable planet.



Each month, RecycleNation supports more than 300,000 unique visitors in meeting their recycling needs through our comprehensive database and tools.



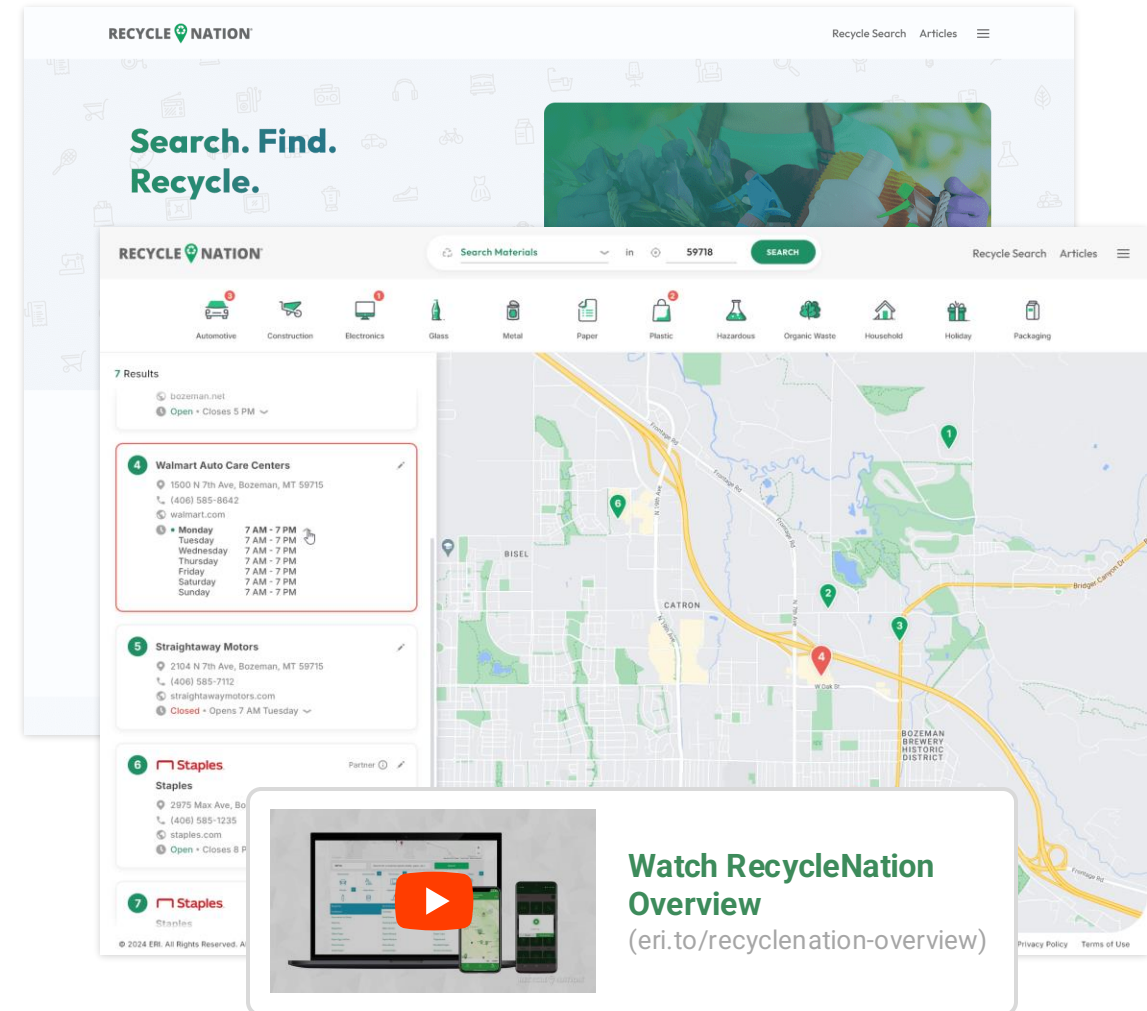
Our fast, mobile-friendly website enables users to easily find recycling locations and resources on any device. Designed for seamless navigation, it provides access to recycling information anytime, anywhere—no app or account is needed.



As the leading technology tool in the U.S. for environmental sustainability, RecycleNation actively promotes circular economy practices for a greener future.

New & Improved Features

- Improved reporting and tracking capabilities of recycling locations, visitors, and materials
- State and federal regulatory tracking, registration reminders & guidance
- Automated location data validation, discrepancy reporting, new location importing
- Contact management, data update notifications
- Event management & search engine inclusion



RecycleNation.com was ranked #1 Recycling tool on the internet.

eri.to/rn-feedspot

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