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Funding Selections: Bipartisan Infrastructure Law Battery Recycling, Reprocessing, and Battery Collection Funding Opportunity

The U.S. Department of Energy (DOE) Battery Recycling, Reprocessing, and Battery Collection Funding Opportunity (DE-FOA-0002897) is a \$125 million funding program to increase consumer participation in battery recycling programs, improve the economics of consumer battery recycling, and help establish State and local collection programs.

The funding opportunity was [announced](#) on June 12, 2023. On March 28, 2024, DOE [announced](#) the selection of 11 projects for areas of interest 1 and 2 for \$54.5 million in funding, to be administered by the [Vehicle Technologies Office](#) (VTO), and selection of 6 projects for areas of interest 3 for \$7 million in funding, to be administered by the [Office of Manufacturing and Energy Supply Chains](#) (MESC). On July 9, 2024, DOE [announced](#) selection of 2 projects for for area of interest 4 for \$14 million in funding, to be administered by MESC.

Description

As directed by the Bipartisan Infrastructure Law, DOE is leading the buildout of a resilient battery supply chain for electric vehicles (EVs) and energy storage. The Bipartisan Infrastructure Law allocates nearly \$7 billion to strengthen the U.S. battery supply chain, which includes producing and recycling critical minerals without new extraction or mining, and sourcing materials for domestic manufacturing.

Objectives

With the demand for EVs and stationary energy storage projected to increase the lithium battery market by as much as ten-fold by 2030, it is essential to invest in sustainable, reduced-cost recycling of consumer batteries in support of a secure, resilient, and circular domestic supply chain for critical materials. Recycling spent batteries provides our domestic industry with additional sources of necessary materials to make new batteries or other products. Not only does recycling provide a diverse and robust material source, but the circularity of these materials builds a more sustainable manufacturing supply chain and reduces waste streams from manufacturing. These projects will increase consumer participation in consumer electronics battery recycling, improve the economics of battery recycling to spur greater market demand, and support collection programs at the State and local levels. Project objectives support the Federal Consortium for Advanced Batteries (FCAB) National Blueprint for Lithium Batteries goal of achieving 90% recycling of consumer content by 2030.

Topic Areas

Topic 1: Expanding Consumer Participation in Consumer Electronics Battery Recycling Programs

Number of projects: 4

Award Amount: \$14,412,221

Selected projects will develop and implement an education and/or behavior change campaign to increase participation by consumers in existing battery recycling programs.

Topic 2: Improving the Economics of Recycling Consumer Electronics Batteries

Number of projects: 7

Award Amount: \$40,130,899

Selected projects will improve the economics of recycling consumer electronics batteries sufficiently to generate a greater market demand for recycling these batteries.

Topic 3: State and Local Programs for Consumer Electronics Battery Collection, Recycling, and Reprocessing

Number of projects: 6

Award Amount: \$7,215,393

The objective of this topic area is to establish programs that will assist States and units of local government in the establishment or enhancement of battery collection, recycling, and reprocessing.

Topic 4: Retailer Programs for Consumer Electronics Battery Collection and Transport

Number of projects: 2

Award Amount: \$14,057,281

The objective of this topic area is to establish and/or implement programs with retailers that will provide battery collection.

Selectees

Note: Learn more about the selections under topic area 4 of the Department of Energy (DOE) Battery Recycling, Reprocessing, and Battery Collection Funding Opportunity (DE-FOA-0002897) [here](#).

Filters


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| PROJECT TITLE | PROJECT LEAD | PROJECT PARTNERS | LOCATION | FEDERAL FUNDING AMOUNT |
|--|------------------------------------|--|-----------------|------------------------|
| <div><div></div><div>A Clean and Affordable Low-Temperature Thermal Method to Preprocess the End of Life Lithium-Ion Batteries from Consumer Devices</div></div> | Reaction Engineering International | Brigham Young University, San Rafael Energy Research Center, Massachusetts Institute of Technology | Salt Lake, UT | \$5,543,221 |
| Comparing strategies to collect battery- | Idaho National Laboratory | N/A | Idaho Falls, ID | \$2,982,829 |

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|  containing devices in states with and without electronics recycling laws | | | | |
|  Demonstrating the technoeconomic viability of automated characterization and sorting of batteries within E-waste | AMP Robotics Corp | Cirba Solutions, Argonne National Laboratory, Purdue University | Louisville, CO | \$6,430,556 |
|  Development towards Safe Low-Cost Transportation and Processing of Consumer Electronic Devices | Argonne National Laboratory | California Electronic Asset Recovery Inc., Princeton NuEnergy, FLEXcon | Lemont, IL | \$4,000,000 |
|  Development, Verification, Certification, and Deployment of the Integrated Shredding and Electrolyte Removal System for Consumer Electronics Batteries Transportation and Recycling | EXPOST TECHNOLOGY INC. | Carbon Critical Inc., Underwriters Laboratories, Inc, University of Akron, University of California, San Diego, Argonne National Laboratory, University of Chicago | San Diego, CA | \$8,000,000 |
|  Enhancing Merced County Programs for Consumer Electronic Battery Collection, Recycling and Processing | Merced County Regional Waste Management Authority | City of Atwater, City of Dos Palos, City of Livingston, City of Gustine, City of Los Banos, City of Merced, Merced County Library | Merced, CA | \$86,790 |
|  Expanding Consumer Participation in Consumer Electronics | Electronic Recyclers International, Inc. (ERI) | Electric Power Research Institute (EPRI), National Renewable Energy Laboratory (NREL) | Fresno, CA | \$4,799,017 |
|  Improving Consumer Electronics Battery Recycling (ICEBR) | MOLG Inc. | Virginia Commonwealth University | Chantilly, VA | \$5,157,122 |
| Increasing Safe Collection of Batteries at | Minnesota Pollution | Anoka County, Becker County, Blue Earth County, Carver | Saint Paul, MN | \$1,250,000 |

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| <div>+</div> Country and Tribal Battery Collection Sites | Control Agency | County, Crow Wing County, Dakota County, East Central Solid Waste Commission, Chisago County, Hennepin County, Kandiyohi County, Lyon County, McLeod County, Mower County, NW MN Joint Powers Group, Olmsted County, Ottertail County, Ramsey County, Rice County, Scott County, Stearns County, Washington County, Western Lake Superior Sanitary District, Winona County, Fond du Lac Band of Superior Chippewa Public Works, White Earth Sanitation | | |
| <div>+</div> Integrated Automated Sorting and Battery Neutralization to Reduce End of Life Logistics Costs for Lithium-Ion Battery Recycling | Li Industries, Inc. | Call2Recycle Stewardship, Inc., Argonne National Laboratory | Pineville, NC | \$7,000,000 |
| <div>+</div> Low-Cost Modular System for Collecting and Recycling Consumer Batteries from MSW Using Artificial Intelligence | UHV Technologies Inc | Pennsylvania State University, Purdue University | Fort Wayne, IN | \$4,000,000 |
| <div>+</div> Mobile Battery Drop-off | New York City Department of Sanitation | Veolia ES Technical Solutions, LLC | New York, NY | \$2,150,000 |
| <div>+</div> Multi-Agency Household Battery Recycling Program Expansion | Onondaga County Resource Recovery | Department of Emergency Management, Onondaga County Fire Departments | Syracuse, NY | \$708,971 |
| <div>+</div> Radical Recovery of Batteries for Recycling | Lane County Public Works Waste | Bi-Mart Corporation, Royal Refuse Services, Apex Recycling & Disposal | Eugene, OR | \$1,019,632 |

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|  Recharging Local Battery Collections | Illinois Environmental Protection Agency | City of Bloomington, City of Carbondale, City of Champaign, City of Chicago, City of Rockford, City of Springfield, DuPage County, Kane County, Madison County, Solid Waste Agency of Lake County Solid Waste Agency of North Cook County, Will County | Springfield, IL | \$2,000,000 |
|  The Collected Project | Macalester College | REcharge Labs, Field Guide, Upstream Exhibits, STEM Educational Insights, Repowered | St. Paul, MN | \$1,770,043 |
|  ZEEBRA: Zoos Educating on Electronics and Battery Recycling Awareness | Harris County | Houston Zoo, CORE Design Studio, University of Houston, Elevate Communications | Houston, TX | \$4,860,332 |



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