



# Florida Battery Stewardship Annual Report

REPORTING PERIOD: JANUARY – DECEMBER 2021

## **Prepared for:**

Florida Department of Environmental Protection  
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# FLORIDA STATE BATTERY STEWARDSHIP ANNUAL REPORT – 2021

## Battery Recycling Collections

In 2021, Call2Recycle collected a total of 398,279 lbs. of batteries and 9,757 cell phones weighing 2,076 pounds. Below please find the specific recycling collection data for 2021 by material type:

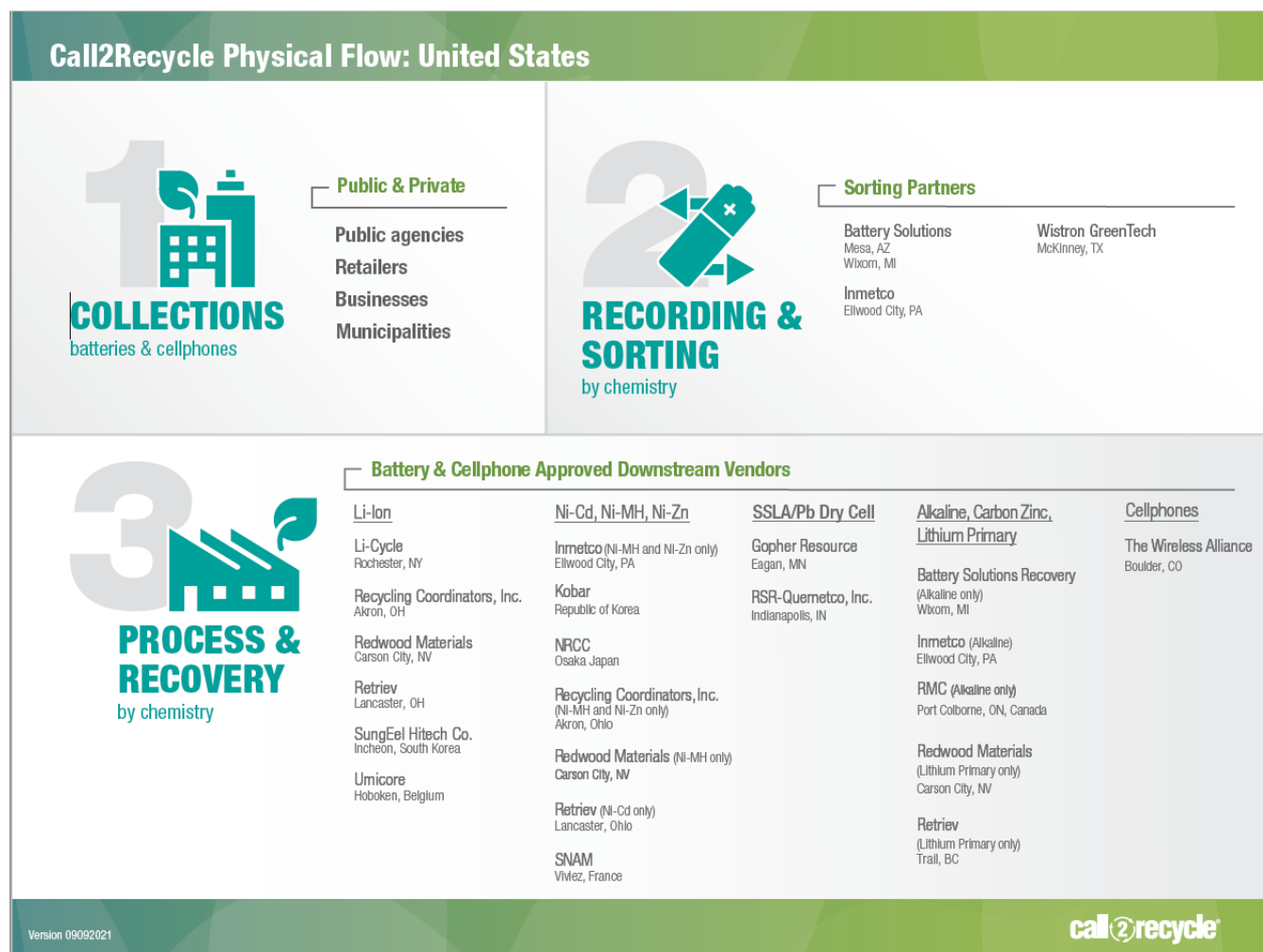
Rechargeable Battery Collections (lbs.)		
Material Type	Material Name	2021
Rechargeable	SSLA/Pb	98,230
Rechargeable	Ni-Cd	82,595
Rechargeable	Li-Ion	135,546
Rechargeable	Ni-MH	17,955
Primary	Alkaline/Carbon Zinc	54,763
Primary	Lithium	4,608
Cell Phone	Cell phone	2,076
Cell Phone	Accessories	18
Other	Other	2,488
Total Rechargeable		334,326
Total Collections		398,279

Below please find the rechargeable battery recycling data for 2021 by industry sector:

Rechargeable Battery Collections by Sector (lbs.)	
Sector	2021
Retail/Wholesale	210,060
Public Agency / Municipality	86,593
Business	12,309
Manufacturing	25,365

## Proper Battery Management

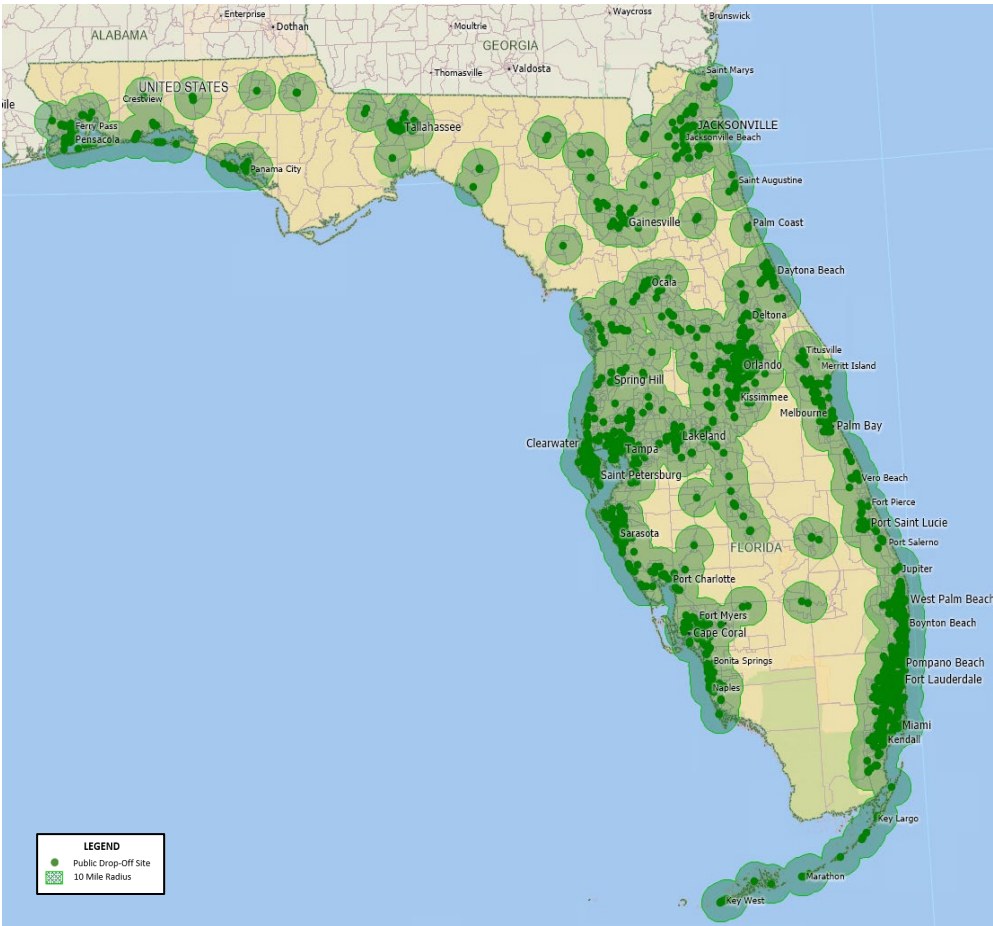
Batteries collected from Florida residents are transported to sorting facilities where they are separated by battery chemistry and then sent to appropriate specialty processors. These processors extract material to be used in the manufacturing of new products. Below please find the “physical flow” of where batteries go after they are dropped off at a Call2Recycle participating collection site.



Batteries are responsibly and safely recycled according to Responsible Recycling (R2) standards. Cellphones are either refurbished and resold or recycled, with the proceeds used to fund the cellphone collection program and educational outreach.

Public Recycling Site Accessibility

To optimize the percentage of the U.S. population that has access to battery and cellphone recycling through the Call2Recycle collection site network, Call2Recycle has developed a standard for measuring public recycling accessibility, specifically for batteries and cellphones. This accessibility rate measures the percent of a state’s population that lives within a 10-mile radius of an available Call2Recycle drop off location. By year’s end 2021, Call2Recycle achieved an 93.7% accessibility rate in Florida. Please see the adjacent map for specific details.



Site Type	Number of Sites - 2021
Number of Active Public Sites	416
Number of Active Private Sites	598
Public Accessibility Rate	93.7%

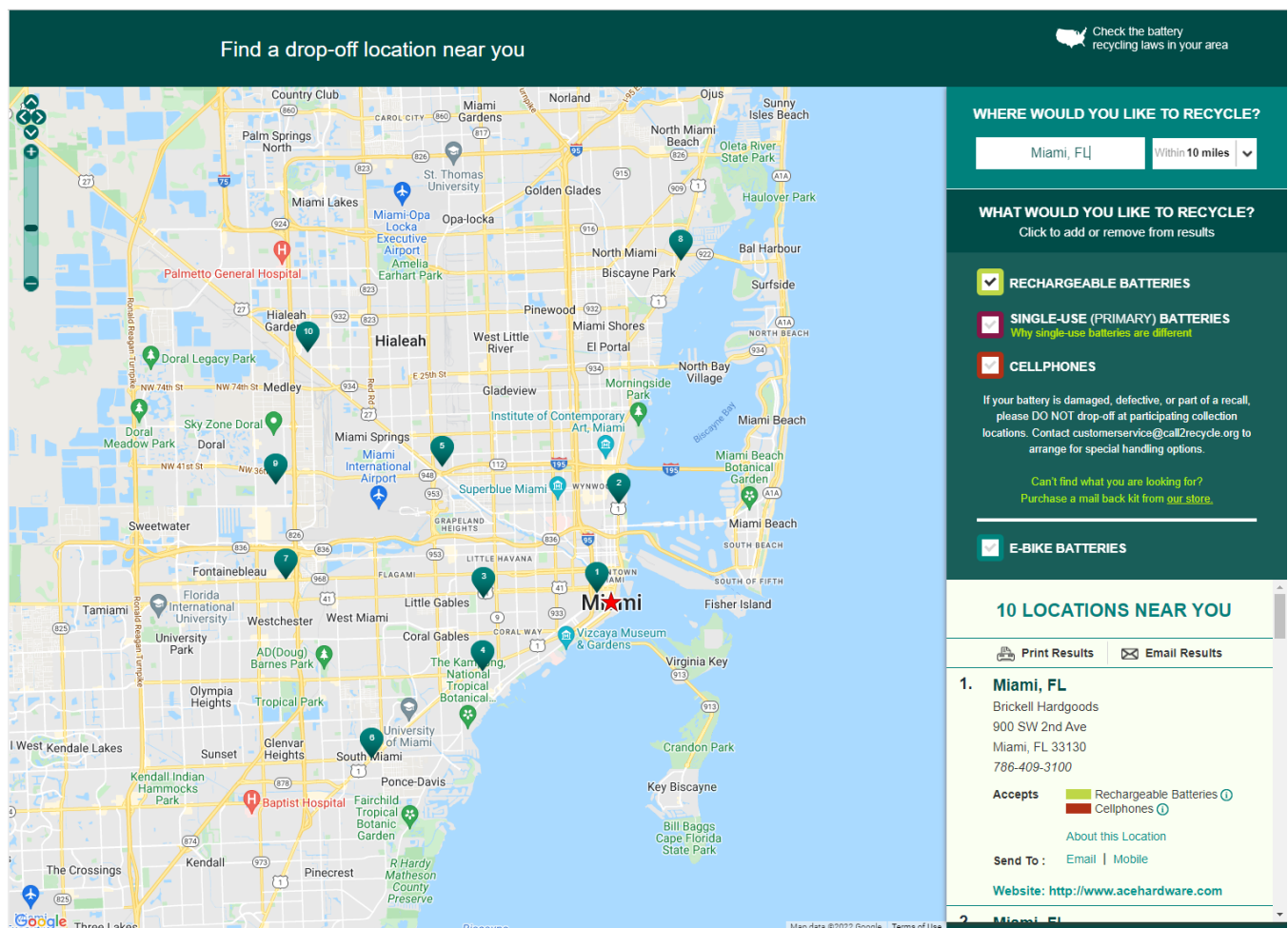
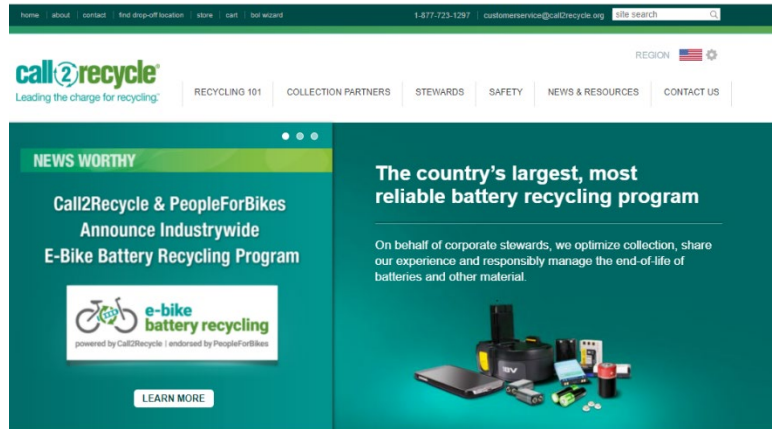
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## Website Statistics

Call2Recycle's outreach efforts focus on driving consumers to our interactive web site, which provides educational resources and a locator to identify convenient battery recycling drop-off sites.

One of the most viewed sections of the website is the public drop-off site locator tool. This tool allows Florida residents to enter their City/Town or zip code to find the nearest Call2Recycle participating site to recycle their used rechargeable batteries.

The locator tool was used 70,229 times by Florida residents to find a Call2Recycle drop-off location.



[www.call2recycle.org](http://www.call2recycle.org)

Outreach & Customer Service Activity

Call2Recycle’s Customer Service Team fields hundreds of daily inquiries from collection sites and consumers across the country, including from the 1,030 private and public battery collection sites in Florida.

Call2Recycle’s Customer Service Team fielded the following inquiries from Florida:

Florida Activity	2021 Totals
Calls or Service Tickets (web-based, emails, etc.) from Collection Sites into Call2Recycle Customer Service	473
New Collection Sites Added	183
Rate of New Sites that Recycled Batteries	5%
Call2Recycle collection boxes sent to collection sites	11,658
Call2Recycle collection boxes returned from collection sites	10,724

Damaged, Defective or Recalled Lithium-Ion Batteries

The safe handling, transport and disposal of used batteries, specifically lithium-based batteries, continues to be a core tenet of the Call2Recycle program. A difficult to manage subset of lithium-ion batteries are ones that are Damaged, Defective or Recalled (DDR).

These DDR batteries require special handling per U.S. Department of Transportation regulations and cannot be placed in a typical Call2Recycle collection box. In 2019, Call2Recycle began offering collection sites across the U.S., compliant and easy to use specialty storage and shipping kits (See below).

EXAMPLE OF A DDR BATTERY



CALL2RECYCLE DDR KIT





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## Active Participating Stewards

3M Automotive Aftermarket Division  
3M Constrctn & Home Imprv  
3M Electrical Markets Division (EMD)  
3M Food Safety Division (FSD)  
3M Medical Solutions Division (MSD)  
3M Oral Care Solutions Division (OCSD)  
3M Personal Safety Division  
A2Z Development Center Inc.  
Acer America Corporation  
Ademco  
Aero Design, Inc  
Allied Intl/Allied Tools  
Alta Cycling Group, LLC.  
Amazon.com, Inc.  
American Honda Motor Co., Inc.  
American Toppower  
AOB Products Company  
APC America Inc. Schneider Electric  
Arlo Technologies, Inc.  
Arris Group, Inc  
Asus Computer International, Inc.  
Away  
Baccus Global LLC  
Balmuda Inc.  
barnesandnoble.com, LLC  
Bayco Products, Inc.  
Belkin International, Inc.  
Best Buy Co., Inc.  
Bissell Homecare, Inc  
Bose Corporation  
Boxine US, Inc.  
Brother International Corporation  
Canadian Tire Corporation, Ltd  
Canon Canada Inc  
Canon U.S.A., Inc.  
Car Mate USA Inc.  
Century Optronic Inc.  
Chervon HK Limited  
Chervon HK Limited/Lowe's  
Chervon HK Limited/The Home Depot  
Cisco Systems Inc.  
Cleva North America, Inc.  
Computer Technology Link Corp (DBA CTL)  
Conair Corporation  
Daye North America  
Deere & Company (John Deere)  
Dell Canada Inc.  
Dell Inc  
Deltran USA LLC  
Dongguan Golden Cel Battery Co  
Dorcy International  
Duracell Canada Inc

Duracell US Operations  
Dynabook Americas, Inc  
Dynabook Canada Inc  
Eaton Corporation  
Echo Incorporated  
Empiric  
Enerco Group Inc.  
Energizer Holdings, LLC.  
EnerSys Delaware Inc.  
Epson America, Inc.  
Fdk America, Inc.  
Fedco Electronics, Inc.  
Finish Thompson, Inc.  
Fuji Electronics (Shenzhen) Co, Ltd.  
FujiFilm Holdings America Corp  
Fujitsu America  
Garmin International, Inc  
GiiNii Tech Corporation  
Global Technology Systems, Inc  
Globe (Jiangsu) Co., Ltd  
Google, Inc.  
GRACO, Inc.  
GS Yuasa Energy Solutions, Inc.  
Guangdong Fenghua New Energy Co. Ltd.  
Guangzhou Great Power Energy & Technology Co., Ltd.  
Guangzhou Great Power Energy Tech Co LTD  
Harman International Industries, Incorporated  
Hewlett Packard Inc  
Hilti, Inc.  
HoMedics USA, LLC  
Honeywell International Inc.  
Hong Kong Highpower Technology Ltd.  
HP Inc.  
HTC Corporation  
Huawei Device USA. Inc  
Husqvarna AB  
HYTORC Industrial Bolting Systems  
IDX System Technology Inc  
Inspired Energy, LLC  
Intermetro Industries Corp  
Invacare Corporation  
Invox Hardware Limited  
iRobot Corporation  
Jasco Products Company  
JC Technology Inc dba Ace Computers  
Jiawei Technologies (USA) Ltd.  
JIN CO Ltd  
JLG Industries Inc  
JVCKENWOOD USA Corp  
KAN Battery Co., Ltd  
Karcher North America



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Keyence Corporation of America  
Koki Holdings America Ltd  
Koki Holdings Canada Co., Ltd  
Konica Minolta  
Kwonnle Electrical Products Ltd  
L3Harris Technologies Inc  
Ledvance, LLC.  
LEGO Brand Retail, Inc.  
Lenovo (United States) Inc.  
LG Electronics Canada, Inc.  
LG Electronics USA, Inc.  
L'Image Home Products Inc.  
Logic Technology Development  
Logitech Inc.  
Luxottica of America  
Mag Instrument, Inc  
Maha Energy  
Makita Canada, Inc.  
Makita U.S.A. Inc.  
Mattel, Inc.  
Metabo Corporation  
Microsoft Corporation  
Midland Radio Corporation  
Miller Manufacturing Company  
Mi-T-M  
Mophie  
Motorola Mobility, LLC  
Motorola Solutions, Inc.  
MTRLC LLC  
National Power Corp  
Neptune Technology Group Inc.  
Netgear, Inc.  
Nikkiso America, Inc.  
Normark Innovations Inc.  
Novel Direct  
O2COOL, LLC  
OM Digital Solutions Americas, Inc.  
Omron Healthcare, Inc  
Oracle America, Inc.  
Panasonic Corporation  
Pelican Products, Inc.  
Pellenc America Inc.  
Philip Morris USA Inc.  
Philips  
Pitney Bowes, Inc.  
Plantronics Inc. (Poly)  
Police Security  
Positec Tool Corporation  
Power Products  
Privoro, LLC  
ProTeam, Inc.  
Razor USA LLC  
Ricoh Imaging Americas Corporation  
Ridge Tool Company (RIDGID)

Riese Und Muller GmbH  
RJ Reynolds Vapor Company  
Robert Bosch Tool Corporation  
Royal Consumer Information Products, Inc.  
RRC POWER SOLUTIONS  
Sager Electronics  
Saicome Industries Limited  
Samsung Electronics America Inc.  
Sato America Inc  
Scosche Industries, Inc.  
SDI Technologies Inc  
Senco Products, Inc.  
Sensidyne LP  
Shanghai PYTES Energy Co., LTD  
SharkNinja Operating LLC  
Sharp Electronics Corporation  
Sigma Corporation  
Snap-on Incorporated  
Sonos, Inc.  
Sony Corporation of America  
Southwick Technologies Inc  
Southwire Company, LLC  
Stanley Black & Decker, Inc.  
Stihl Incorporated  
Stihl Limited  
StorTronics  
Streamlight, Inc.  
Summer Infant, Inc.  
SUNBEAM PRODUCTS  
TCT Mobile Canada Limited (CA10)  
TCT MOBILE INC-ALCATEL BlackBerry  
Techtronic Cordless GP  
Techtronic Industries GmbH  
Techtronic Trading Ltd  
Tennant Company  
Test Rite Products Corp  
Texas Instruments Inc  
The Coleman Company  
The Gillette Co/Braun Div  
The Gillette Co/Oral-B Div  
The Source (Bell) Electronics Inc.  
The Toro Company  
Tianjin Lishen Battery Joint-stock Co.,Ltd  
Tokyo Seimitsu Co., LTD  
TomTom Inc.  
Transcosmos America Inc.  
Transource Services Corp  
Traxxas L.P.  
Trek Bicycle Corporation  
TTEK Assemblies Inc.  
TWS Technology(Guangzhou) Limited  
Ultralife Corporation  
Uniden America Corporation  
VARTA Microbattery Inc.

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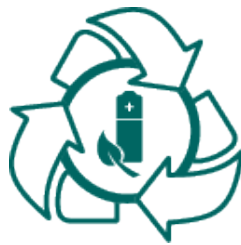
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Veritas Technologies LLC  
Vernier Software & Technology LLC  
Vibratex, Inc.  
Vornado Air, LLC  
VTech Telecommunications Ltd

Wacom Technology Corporation  
Whill, Inc  
Zebra Technologies Corporation  
Zhongshan Tianmao Battery Co., Ltd.  
Zippo Manufacturing Company

# Call2Recycle, Inc.

Changing habits. Inspiring action.™



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