



# MINNESOTA BATTERY STEWARDSHIP REPORT

REPORTING PERIOD: 2015 & 2016

**Prepared for:**

Minnesota Pollution Control Agency  
520 Lafayette Rd.  
St. Paul, MN 55155

**Prepared and Submitted by:**

Call2Recycle, Inc.  
1000 Parkwood Circle, Suite 200  
Atlanta, GA 30339  
678-419-9990 | [call2recycle.org](http://call2recycle.org)

# MINNESOTA RECHARGEABLE BATTERY STEWARDSHIP REPORT – 2015 & 2016

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## Battery Recycling Collections

Over the past 12 months, batteries and cell phones collected by Call2Recycle, Inc. in Minnesota increased compared to 2015. In 2015, Call2Recycle collected 162,796 lbs. of cell phones and batteries. In 2016, that number increased to 327,540 lbs. – an increase of 101%. Below please find the specific recycling collection data by battery chemistry (Figure 1) and by industry sector (Figure 2):

FIGURE 1

Statewide Battery & Cellphone Collections				
Material Type	Material Name	2015	2016	% Chg
Rechargeable	Nickel Cadmium (Ni-Cd)	69,153	79,767	15%
Rechargeable	Small Sealed Lead Acid (SSLA/Pb)	30,105	36,784	22%
Rechargeable	Lithium Ion (Li-Ion)	36,751	32,247	-12%
Rechargeable	Nickel Metal Hydride (Ni-MH)	10,131	12,903	27%
Primary	Alkaline	12,288	162,867	1225%
Primary	Lithium	3,501	2,397	-32%
Cell Phone	Cell Phone	824	556	-33%
Cell Phone	Cell Phone Accessories	43	19	-56%
Total Battery & Cell Phones		162,796	327,540	101%
Total Rechargeable Battery		146,140	161,701	11%

FIGURE 2

Battery Collections by Industry Sectors			
Industry	2015	2016	% Chg
Retail/Wholesale	48,580	44,598	-8%
Municipality	47,767	254,843	434%
Manufacturing	16,289	11,796	-13%
Business	29,658	4,837	-84%
Public Agency	19,643	17,064	-13%

Also, below please find the estimated number of pounds of ALL rechargeable batteries sold (includes Call2Recycle, Inc. Stewards and Non-Stewards) into the State (Figure 3). These estimates were part of a May 2016 document released by Call2Recycle, Inc. called, "US Consumer Battery Sales & Available for Collection - 2014-2020."

FIGURE 3

Estimated Rechargeable Batteries Sold into State & Pounds Recovered		
Industry	2015	2016
Estimated Pounds of ALL Rechargeable Batteries Sold into the State	3,095,000	3,165,000

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## Battery Recycling “Downstream”

Batteries collected from Minnesota residents are transported to sorting facilities where they are separated by battery chemistry and then sent to the appropriate specialty processors. These processors extract material to be used in the manufacturing of new products. Below please find the “physical flow” (Figure 4) of where batteries go after they are dropped off at a Call2Recycle participating collection site.

FIGURE 4



Waste products are responsibly and safely disposed of according to Responsible Recycling (R2) and Basel Action Network (BAN) standards. Cellphones are either refurbished and resold or recycled, with the proceeds used to fund the cellphone collection program and educational outreach.

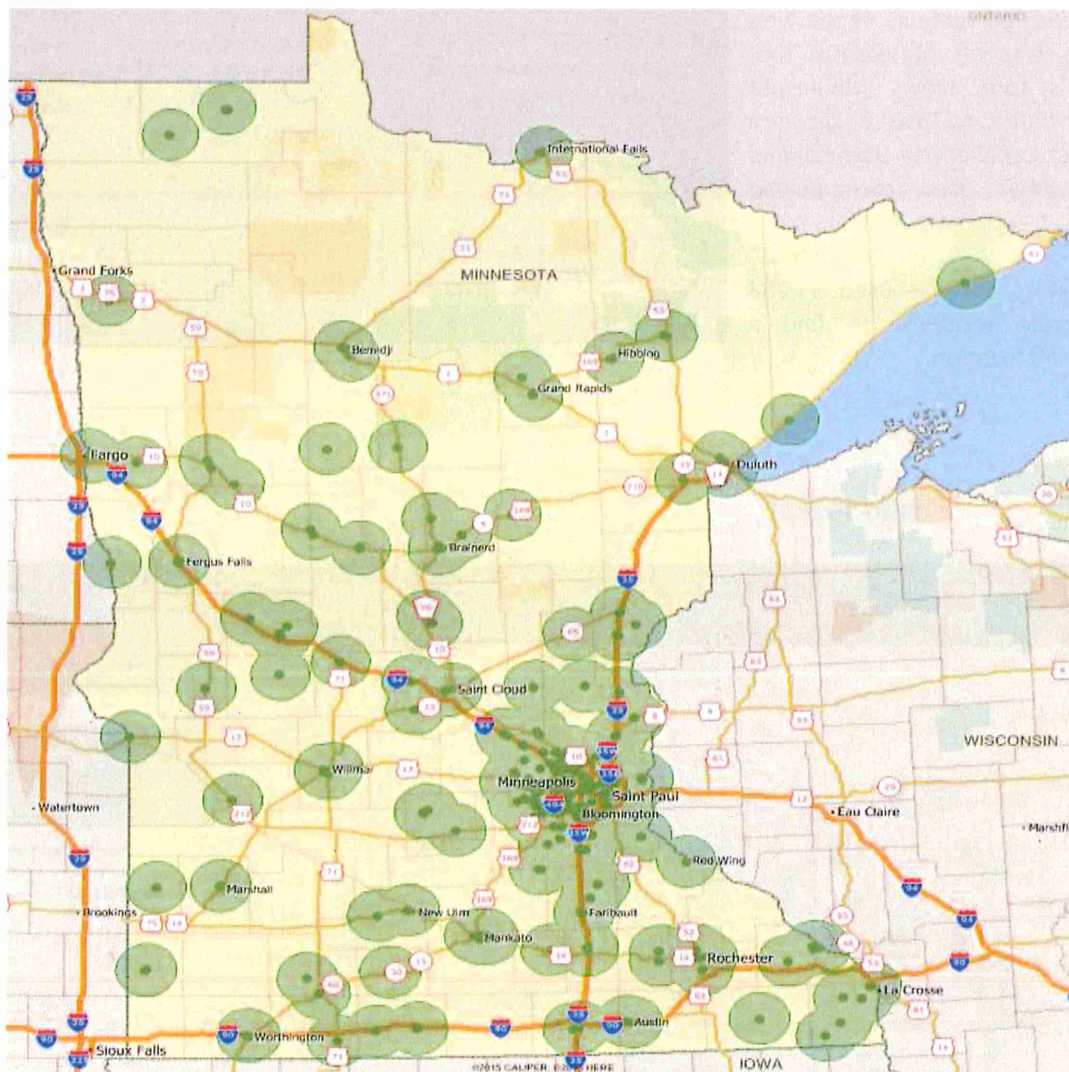


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## Public Recycling Site Accessibility

To optimize the percentage of the U.S. population that has access to battery and cell phone recycling through the Call2Recycle, Inc. collection site network, Call2Recycle, Inc. has developed an standard for measuring public recycling accessibility, specifically for batteries and cellphones. This accessibility rate measure the percent of a state's population that lives within a 10-mile radius of an available Call2Recycle, Inc. drop off location. By year's end, Call2Recycle, Inc. achieved a 85% accessibility rate in Minnesota. Please see the adjacent map (Figure 5) for specific details.

FIGURE 5



Collection Network	
Site Type	# of Sites
# of Active Public Sites	301
# of Active Private Sites	278
Public Accessibility Rate	85%

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## Web Site Statistics

Call2Recycle's outreach efforts focus on driving consumers to our interactive web site (Figure 6) that not only serves as an educational tool to encourage consumers to recycle batteries but also provides local sites where they can conveniently recycle batteries.

One of the most viewed sections of the web site is the public drop off site locator tool (Figure 7). This tool allows Minnesota residents to enter their City/Town or zip code to find the nearest Call2Recycle participating site to recycle their used rechargeable batteries.

In 2016, the locator tool was used 34,888 times by Minnesota residents to find a Call2Recycle drop-off location.

FIGURE 6

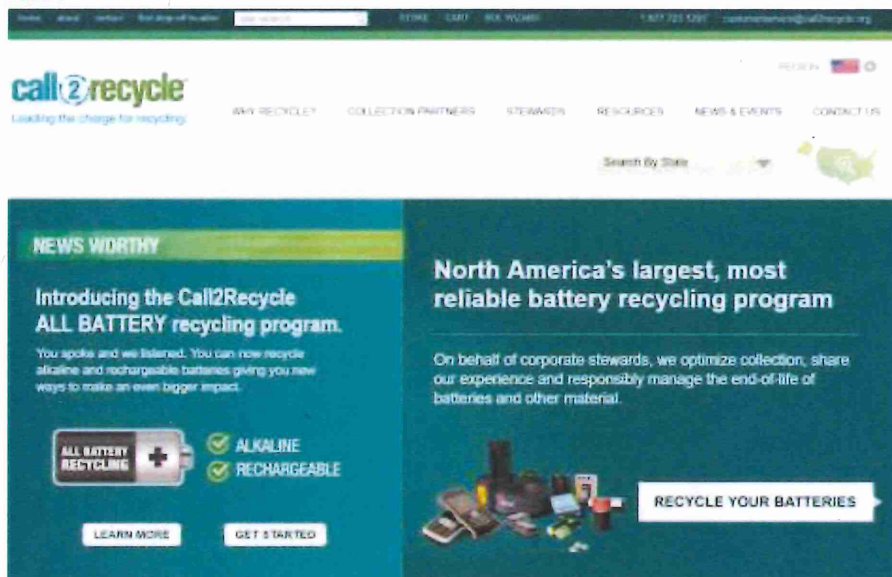
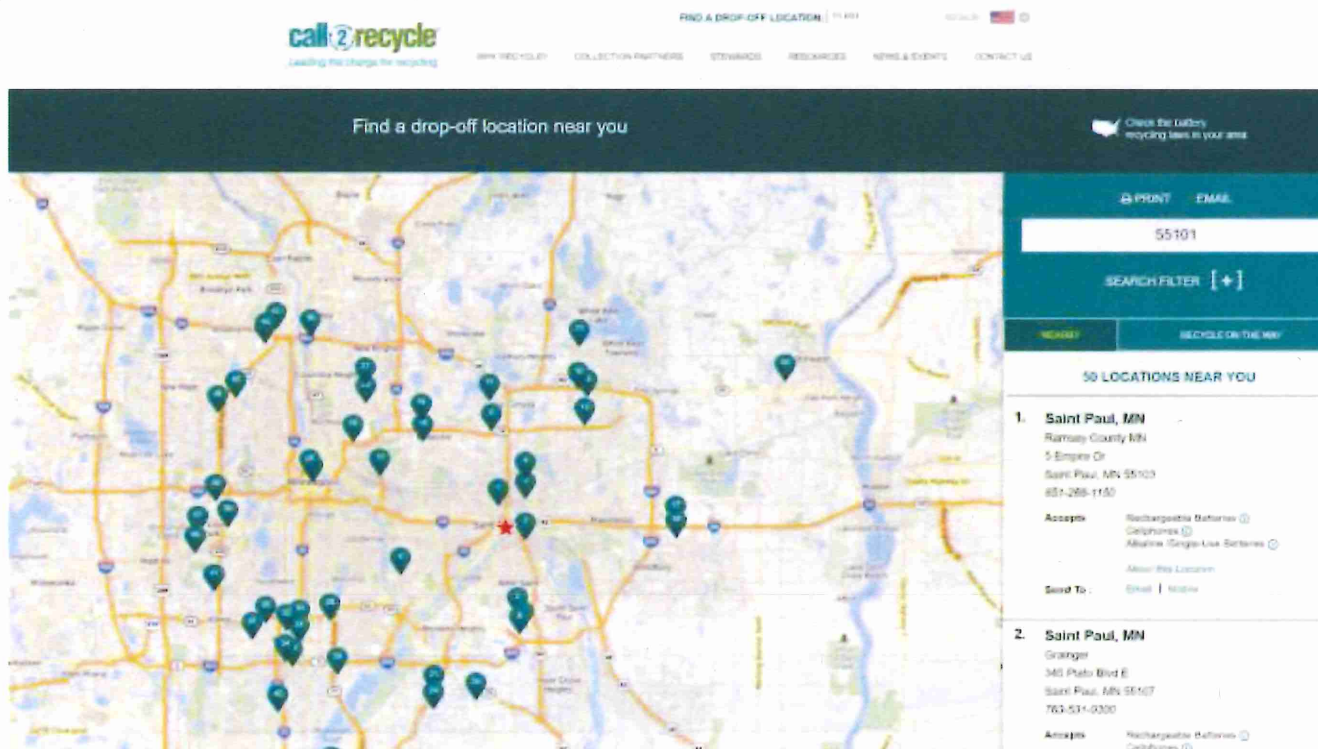


FIGURE 7



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



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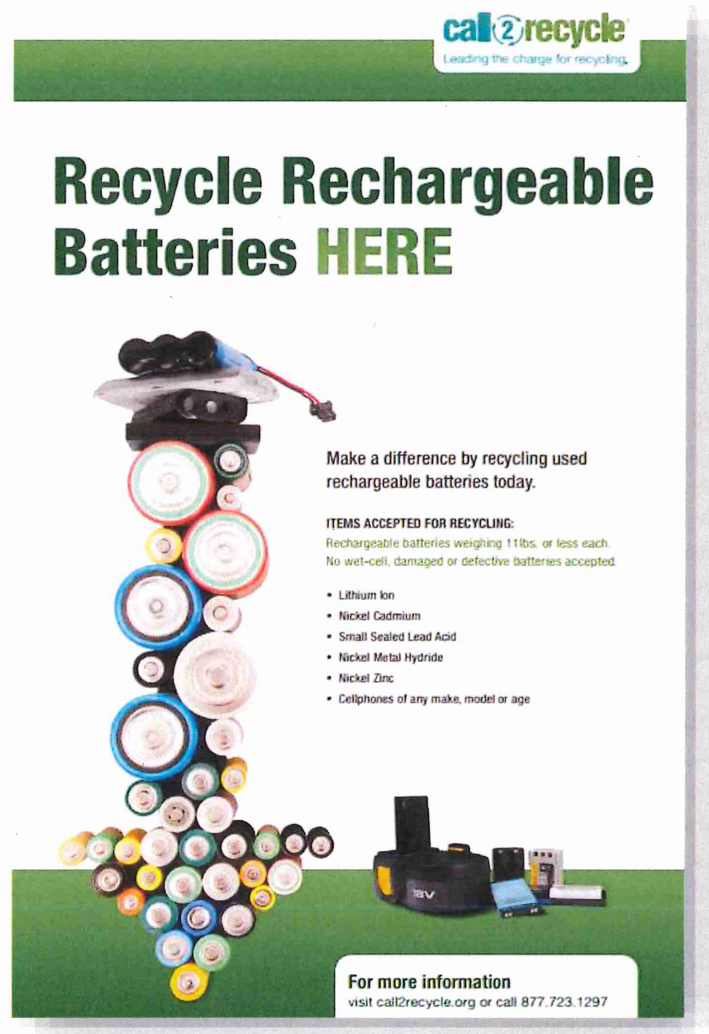
## Outreach and Customer Service Activity

Call2Recycle's Customer Service Team fields hundreds of daily inquiries from collection sites and consumers across the United States and Canada. Some of these inquiries are from the 1,200+ private and public battery collection sites in Minnesota.

In 2016, Call2Recycle's Customer Service Team fielded the following inquiries from Minnesota –

- Customer Requests Originating from Collection Sites/Consumers – 277
- New Collection Site Enrollments – 39
- Collection Boxes sent to Collection Sites – 3,397
- Collection Boxes returned from Collection Sites – 2,895

FIGURE 8 – COLLECTION SITE POSTER



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## Active Call2Recycle, Inc. Industry Stewards

3M Automotive Aftermarket Division	Canon Canada Inc
3M Commercial Solutions Division (CSD)	Canon USA Inc
3M Constrctn & Home Imprv	Casio America, Inc.
3M Personal Safety Division	Cell-Con Inc
Accell North America	Century Optron Inc.
Ace Hardware Corporation	Changzhou Globe Tools Co. Ltd.
Acer America Corporation	Chervon HK Limited
Advanced Battery Systems	Chervon HK Limited/The Home Depot
Aero Design, Inc	Chervon HK Lmtd/The Home Depot Canada
Agilent Technologies	Chrysler Canada Inc.
Allied Intl/Allied Tools	Cisco Systems Inc.
Alltrade Tools LLC	CLD/Équipements Confortek
Alpha Source, Inc.	Cleva North America/LawnMaster
Amazon.com, Inc.	Cognex Inc.
American Lawn Mower Co	Coleman Company
American Toppower	Conair Corporation
Anton/Bauer	Costco Wholesale Canada
APC - Schneider Electric	Couche-Tard Inc.
Arris Group, Inc	CTE Energy Co., Ltd.
Asus Computer International	Cybertron International
Audio Enhancement, Inc.	DANTONA INDUSTRIES/ULTRALAST
Audio Video D.G. (Gestion Quemar)	Deere & Company (John Deere)
Axiom Mobile Group	Delhaize America (Hannaford Suprmkts)
Baccus Global	Dell Canada Inc.
barnesandnoble.com, LLC	Dell Inc
Batteries Dixon inc.	Deltran USA LLC
Batteries Du Quebec	Digi-Key Corporation
Batteries Illimites	Distributions Johnson Inc
Batteries St-Eustache	DLG (Shanghai) Electronic
Battery Specialties	Do it Best Corp.
Bayco Products	Dollar General Corporation
Bayer Healthcare	Dollarama L.P.
Belkin International, Inc.	Dorcy International
Best Buy Canada Ltd.	Duracell Canada Inc
Best Buy Co., Inc.	Duracell US Operations
BionX International	Eaton Corporation
Bissell Homecare, Inc	Echo Incorporated
BlackBerry Limited	Electro-5 Inc.
BMW Group Canada	Enerco Group Inc.
Bose Corporation	Energizer Canada Inc
Brother International	Energizer Holdings, LLC.
Buropro Citation inc.	Energizer Power Systems
Bushnell, Inc.	Energy Sales
BYD Company Limited	EnerSys Delaware Inc.
Canac-Marquis Grenier Ltee	Epson America, Inc.
Canadian Tire Corporation, Ltd	Esselte Corporation



## MINNESOTA RECHARGEABLE BATTERY STEWARDSHIP REPORT – 2015 & 2016

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Evergreen (C.P.) USA Inc  
EZsmart Gutter Cleaner, LLC  
Famiprix Inc  
Family Dollar Stores of NY, Inc  
FDK AMERICA  
Fedco Electronics, Inc.  
Ferno - Washington, Inc.  
Finish Thompson, Inc.  
Flying Dragon Development Ltd.  
Ford of Canada  
Furniture de Bureau Denis  
FujiFilm Holdings America Corp  
Fujitsu America  
GammaTech Computer Corporation  
Garmin International, Inc  
GE Healthcare Canada, Inc.  
General Motors of Canada Limited  
General Wireless Operations  
Getac Inc.  
Giant Tiger Stores Limited  
Gibson Innovations USA, Inc.  
GiiNii Tech Corporation  
Global Technology Systems, Inc  
Gold Peak Industries (NA), Inc  
GP Batteries  
GRACO, Inc.  
Gradus Group  
Grand & Toy  
Greatbatch Inc  
GreenSmoke, Inc.  
Groupe Blais inc.  
Groupe BMR Inc.  
GS Battery (USA) Inc.  
Harris Corporation  
HD Supply Holdings, Inc.  
Hewlett Packard Enterpris  
Hilti Canada Corporation  
Hilti, Inc.  
Hitachi Koki Canada Co.  
Hitachi Koki USA Ltd  
Hobbico, Inc  
Home Hardware Stores Limited  
HoMedics  
Honda Canada  
Honeywell International Inc.  
House of Batteries  
HP Inc.  
HTC Corporation

Huawei Device USA. Inc  
Husqvarna AB  
Hyundai Auto Canada Corp  
IDX System Technology Inc  
Illinois Tool Works  
IMA TEST Customer  
IMA Test Steward  
Indigo Books and Music Inc  
Industrial Battery Service Inc  
Ingersoll Rand  
Inspired Energy, LLC  
Intec Industries Co. Ltd.  
Intermetro Industries Corp  
Interstate Batteries Inc.  
Invacare Corporation  
Invox Hardware Limited  
iRobot Corp.  
iTech  
Jasco Products Company  
Jiawei Technologies (USA) Ltd.  
JKH Health Co., Ltd.  
JLG Industries Inc  
JVCKENWOOD USA Corp  
KAN Battery Co., Ltd  
Karcher North America  
Keysight Technologies  
Kia Canada Inc.  
Konica Minolta  
Kwonnie Electrical Products, LTD  
Laliberté Électronique  
Le Groupe Jean Coutu  
Lego Group  
Leica Camera Inc  
Lenmar Enterprises, Inc.  
Lenovo (Canada) Inc.  
Lenovo (United States) In  
Les magasins Korvette  
Les Variétés P. Prud'homme Inc  
LEXEL BATTERY CO LTD  
LG Electronics Canada, Inc.  
LG Electronics MobileComm USA  
L'Image Home Products Inc. (IHP)  
Loblaws Inc.  
Logic Technology Development  
LOGITECH INC.  
Mag Instrument, Inc  
Magnacharge Battery Corpo  
Maha Energy

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Makita Canada, Inc.	Plantronics, Inc.
Makita USA	PLR IP Holdings, LLC
Mattel, Inc.	Polycorn, Inc.
Maxell Corporation of America	Positec Tool Corporation
McKesson Canada	POWER PRODUCTS
McMahon Distrib Pharmaceutique	Powermax USA
Meritool LLC	ProTeam, Inc.
Metabo Corporation	Quality One Wireless
Metro Richelieu Inc	Quebec Membre
Michaels Stores Inc.	Rapport, Inc.
Microsoft	Reckitt Benckiser
Midland Radio Corporation	Resistacap
Miller Mfg Co	Richpower Industries, Inc.
Milwaukee Electric Tool Corporation	Ridge Tool Company (RIDGID)
Mitsubishi Motor Sales of Canada, Inc.	Rite Aid
Moshi	RKI Instrument, Inc
Motorola Mobility, LLC	Robert Bosch Inc (Canada)
Motorola Solutions, Inc	Robert Bosch Tool Corporation
MTD Products Inc	RONA Inc.
myCharge	Royal Consumer Information Products, Inc.
National Battery	Rozon Batteries Inc.
National Power Corp	RRC POWER SOLUTIONS
NEC Corporation of America	SAIL plein-air inc.
Neptune Technology Group Inc.	Samsung Electronics Co
Netgear, Inc.	SANYO Energy (USA) Corp.
Nikon Canada Inc	Scosche Industries
Nippon Primex Inc.	Scotts Canada Ltd.
Nissan Canada Inc.	SDI Technologies Inc
Noble Gift Packaging Inc	Sears Canada Inc.
Normark Innovations Inc.	Senco Products, Inc
Novatel Wireless Inc	Sensidyne LP
Novexco	Sharp Electronics Corporation
NU MARK LLC	Sharp Electronics of Canada
Nylube Products Company LLC	SHIMANO
O2COOL, LLC	Shoppers Drug Mart Inc
Oculus VR LLC	Sigma Corporation
Olympus Corp of the Americas	Sinopower Technology (HK) Ltd
OOMA INC	Snap-on Inc
Oracle America, Inc.	Sobeys Quebec Inc.
Original Power	Sony Electronics, Inc
Palladium Energy	Sophos Ltd
Panasonic Canada Inc	Southern Telecom, Inc.
Panasonic Corporation	SOUTHWICK TECHNOLOGIES INC
Pantech Co Ltd	Southwire Company
Pelican Products, Inc.	Spectrum Brands
Philips Consumer Electron	SRAM, LLC
Philips Electronics LTD	Stanley Black & Decker Canada
Philips Lighting	Stanley Black & Decker, Inc.

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Staples Canada, Inc.  
Stihl Incorporated  
Stihl Limited  
StorTronics  
Strand Europe Ltd  
Streamlight, Inc.  
Summer Infant, Inc.  
Surefire, LLC  
Suzuki Canada Inc.  
SY KESSLER SALES, INC  
Tacony Corporation  
Technical Power Systems Inc.  
Techtronic Industries GmbH  
Techtronic Trading Ltd  
Test Rite Products Corp  
Texas Instruments Inc  
The Gillette Co/Braun Div  
The Gillette Co/Oral-B Div  
The Home Depot of Canada, Inc.  
The Source (Bell) Electronics Inc.  
The Toro Company  
TNR Technical  
TomTom Inc.  
TOSHIBA AMERICA  
Toshiba of Canada Limited  
Toyota Canada Inc.  
Toys R Us Canada, LTD

Toys R Us, Inc.  
Tractor Supply Company  
Transcosmos America Inc.  
Traxxas L.P.  
Trek Bicycle Corporation  
True Value Company  
TTEK ASSEMBLIES INC  
TTI (Macao Comm OfSh) Ltd  
UAP Inc  
ULTRALIFE CORPORATION  
Uniden America Corporation  
Uniprix Inc  
Variétés B. Desmarais 1992 Inc  
VARTA Microbattery Inc.  
Venom Power  
Vera Bradley  
Vernier Software & Technology  
Vibratex, Inc.  
Vizio Inc.  
VTech Telecommunications Ltd  
WACOM TECHNOLOGY CORP  
Walmart Canada  
WATER PIK, INC.  
WOHLER USA  
Xplore Technologies Corp.  
Zebra Technologies Enterprise Corp  
Zippo Manufacturing Company