



SUPPLIERS PARTNERSHIP
FOR THE ENVIRONMENT

Suppliers Partnership for the Environment (SP)
Responsible Battery Work Group
July 13, 2020

DRAFT MEETING MINUTES

Kellen Mahoney, SP, called the SP Responsible Battery Work Group meeting to order at 2:00pm EDT. He reviewed SP's antitrust guidelines and recommended that everyone indicate in their notes of the meeting that the guidelines were reviewed and that they would be complied with. He also encouraged attendees to view a virtual tour video of Battery Solutions' Michigan facility available at <https://youtu.be/7fgVhKgGDmE>

Mathy Stanislaus, Global Battery Alliance, reviewed the vision, mission and participants of the Global Battery Alliance (GBA). He then shared an update on GBA's Battery Passport initiative, including the project's guiding principles and value propositions, planned short-term and long-term objectives, and deliverables. There was a question on the scope of "batteries" included by GBA in the Passport, and Mathy responded that the current focus of the effort is on EV Batteries, specifically lithium-ion batteries in light-duty passenger vehicles, but that this scope may expand in future to include other battery types. There was also a question on opportunities for SP members to provide input to GBA on the Battery Passport concept, and Mathy responded that SP would be welcome to provide input on behalf of a collective of its members for the GBA project team's consideration, and that it would be helpful to note indications of interest in engagement in the next phase of the initiative in 2021.

Hiroko Kawai, Clarios, introduced an automotive lithium-ion recycling project that Clarios and its partners are developing as part of DOE's Battery Recycling Prize program to leverage their existing EOL automotive collection network to develop a closed loop collection program for Li-On and single solution for OEM and Aftermarket Retail customers. There was a comment regarding an existing DOT exception for automotive lead batteries, and that since a similar exception for Li-On batteries does not yet exist, DOT HazMat requirements would apply to shipment in the case that Li-On batteries are shipped together with Lead batteries. It was suggested there may be an opportunity for industry groups with interest in this issue to come together to provide comments to DOT regarding this issue.

Kris Hunter, Global Battery Solutions, introduced GBS as a new member of SP and reviewed the battery lifecycle management services the company provides. She discussed challenges with data silos related to battery management and data solutions GBS has developed to address this, as well as potential benefits of increased data sharing in supporting repair, repurposing and recycling of EV batteries. Kris noted that GBS is seeking to work with additional partners interested in advancing data tracking and reporting for EV Batteries.

Dawn New-Echlin, Battery Solutions, discussed practices for managing EOL EV batteries across the value chain. She shared information on Battery Solutions process and practices related to collection, logistics, discharge / disassembly, storage and recycling of EV batteries, and highlighted a few key opportunities within each stage. She also noted that Battery Solutions has developed an internal system to enable traceability of recycled battery materials down to the component level.

There was a discussion of common challenges relating to battery disassembly, as well as recycling of non-cell battery materials, and the potential for additional collaboration between OEMs, their suppliers and recyclers on design for disassembly / recycling opportunities. It was suggested there may be an opportunity for SP to facilitate a process / subcommittee to promote additional communication and collaboration between OEMs and recyclers on these issues.

Joe Day, TerraCycle Regulated Waste, introduced TerraCycle's work with large brands to encourage and incentivize customers to bring challenging to recycle products into stores for recycling, using example of Staples Binder Recycling program. He then introduced a concept to develop a national OEM recycling program for customer's TPMS batteries at auto dealerships / service centers using a similar model. Joe invited participants to connect with him to learn more about the concept and discuss potential opportunities to work together on this.

Kellen Mahoney reviewed the outcomes of an SP Quick Survey conducted earlier this year on EV battery data requested by recyclers / repurposers. He shared a new resource page that has been added to SP's website collecting public information from OEMs and other partners related to proper handling and disposal of EV batteries. Kellen encourage members to review the webpage (<https://www.supplierspartnership.org/evb-recycling/>) and contact SP with any comments or suggestions.

ACTION ITEMS

- SP to evaluate member interest in working together on issues discussed during today's meeting. Please contact Kellen by July 31 if your company would be interested in working with others related to one or more of key issues discussed, including,
 - developing collective SP feedback regarding the GBA Battery Passport initiative. If there is sufficient interest, SP will coordinate with interested members to collect and summarize feedback for additional discussion with GBA.
 - identifying opportunities to work with other industry groups to address DOT exception for Li-On batteries, modeled after existing exception for Lead batteries
 - forming a subcommittee to identify and share common challenges faced by EV battery recyclers and identify potential opportunities that could be considered related to design for disassembly / recycling.
- Please contact Kellen if there are additional resources that you would like to see considered for inclusion on EV Battery Recycling resource page on SP's website: <https://www.supplierspartnership.org/evb-recycling/>

The meeting adjourned at 4:00pm EDT.

Respectfully submitted,
Kellen Mahoney
Program Director

ATTENDEES

Jeff Spangenberg	Argonne National Laboratory
Linda Gaines	Argonne National Laboratory
Emil Nusbaum	Automotive Recyclers Association
Jessica Andrews	Automotive Recyclers Association
Sandy Blalock	Automotive Recyclers Association
Lisa Dry	Battery Council International
Dawn New	Battery Solutions LLC
Danielle Spalding	Battery Solutions, LLC.
Jeff Haltrecht	Call2Recycle, Inc.
Hiroko Kawai	Clarios
Stephanie Valdez Streaty	Cox
Lea Malloy	Cox Automotive
Denise Jarrus	DEKRA
Troy Greiss	East Penn Manufacturing
David O'Ryan	Ecoclean Group
Gilberto Garcia Ruiz	Edison Energy
Stephanie Shaw	EPRI
Gary Vegh	ERA Environmental Management Solutions

John Bradburn	ERA Environmental Management Solutions
Lauren Roman	Everledger
Krystal Brown	FCA
Sandra Pelowski-Bresson	FCA
Traci Madden	FCA
Dionisio Menchero	Ford Motor Company
Julie Piccone	Ford Motor Company
Laura Wagner	Ford Motor Company
Breitner Marczewski	General Motors
Graciela Canales	General Motors
Rae Howard	General Motors
Tammy Giroux	General Motors of Canada
Thomas Johnson	GHD
Mathy Stanislaus	Global Battery Alliance
Kris Hunter	Global Battery Solutions
Ellington Ellis	Global Battery Solutions
Javier Avina	Grupo Urvina
Octavio Garcia	Grupo Urvina
Curt Cramer	GWTInsight
Phil Cozad	Honda of America Mfg., Inc.
Negar Gilsinger	Honda R&D
Michele Christian	Hutchinson Industries, Incorporated
Joel Tenney	ICL IP
Justin Chiu	Li-Cycle Corp.
Kunal Phalpher	Li-Cycle Corp.
Payton Rossiter	Li-Cycle Corp.
Sean Gixti	Li-Cycle Corp.
Chris Babcock	Michigan Department of the Environment, Great Lakes and Energy
John Howes	Redland Energy Group
Mark Drezdzon	RSR Technologies
Kellen Mahoney	Suppliers Partnership for the Environment
Shannon Helllem	Suppliers Partnership for the Environment
Steve Hellem	Suppliers Partnership for the Environment
Joe Day	TerraCycle Regulated Waste
Sean O'Day	Titan AES
John Redman	Toyota Motor North America
Kevin Butt	Toyota Motor North America
Mark Yamauchi	Toyota Motor North America
Mary Lemm	US Ecology, Inc
Greg Pool	Verogy Solar
Vickie Lewis	VMX International