



**Suppliers Partnership for the Environment (SP)
Responsible Battery Work Group Meeting
May 9, 2018**

DRAFT MEETING MINUTES

Kellen Mahoney, SP, called the Responsible Battery work group meeting to order at 12:30pm 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. Al Johnston, FCA, welcomed attendees to FCA US headquarters and reviewed safety and emergency procedures for the site.

Kellen shared information on a tour of Battery Solutions' Howell, Michigan battery recycling facility that had taken place earlier that morning and noted that a presentation on Battery Solutions' efforts would be distributed to the group.

Kellen provided an overview of the objective and status of the SP / RBC landscape assessment project, noting that SP and RBC are working to establish a baseline assessment of the current landscape of end-of-life (EOL) management for all types of lithium-ion batteries used in vehicles and to identify opportunities for the North American automotive industry to advance responsible management of such technologies. He noted that the survey is strictly limited to information members are willing to share freely in the context of this project, and that survey findings would only be shared in aggregate. It was noted that an executive summary of survey findings would be provided to survey participants by the end of June for their review/comment before being shared with other members of the SP / RBC work group for internal review. SP / RBC work group members will ultimately determine if/how information related to this survey is shared with others outside the work group, if at all.

Carole Mars, The Sustainability Consortium and expert on loan to RBC, provided an update on the mission and activities of the RBC. Carole shared that the RBC is working on a pilot project with John Bradburn in Arizona to repurpose Chevy Bolt battery cases for use in providing habitat for owls. Carole shared information on a range of organizations working on various issues related to batteries and discussed the unique role RBC is addressing in advancing life-cycle management practices here in North America and abroad. In addition to the SP / RBC EOL survey, Carole shared information on other RBC efforts related to hotspot analysis, life cycle modeling and defining principles for responsible energy storage design.

Participants then shared information on other existing efforts related to EOL battery management, including:

- World Economic Forum's Global Battery Alliance (<https://www.weforum.org/projects/global-battery-alliance>) is working on efforts related to responsible sourcing of raw materials, including cobalt and lithium. RBC is involved in the WEF Alliance and is helping to shape the agenda.
- End of Life Vehicle Solutions Corporation (ELVS) was created by the automotive industry to support proper management of substances of concern, such as mercury switches. Five OEMs are currently collaborating through ELVS on solutions for high voltage batteries, including providing educational information on the ELVS website (http://elvsolutions.org/?page_id=1304) and hosting a hotline for recycling information.
- GM has created the Recycle My Battery (<https://recyclemybattery.com/>) website to provide educational information on intermediate and high voltage batteries in GM vehicles. A link to this website is printed on GM IV/HV batteries.
- SAE's Battery Recycling Committee meets monthly and is coordinating with various battery organizations such as USABC, BCI, NAATBatt and others. Committee is working on approval of document J2974 providing common terms for battery recycling as well as preparing to consider an update to document J9984 related to battery labelling.
- Shared an example from a group of thermostat manufacturers who formed The Thermostat Recycling Corporation (TRC) over 20 years ago as a nonprofit group that was designed to facilitate and manage the voluntary collection and proper disposal of mercury-containing thermostats. Noted that while TRC was originally formed as a voluntary industry project several states ultimately passed mandatory thermostat collection regulations that are still today in place and are the subject in California of consent decree with a

group of thermostat manufacturers that have not sold mercury containing thermostats for over 15 years. The discussion highlighted importance of upfront engagement with federal and state regulators regarding voluntary initiatives.

- Noted that other auto industry organizations in North America, such as AIAG, the Automobile Alliance and Global Automakers, are not currently directly involved in issues discussed related to end of life management of lithium ion batteries. The Automobile Alliance and Global Automakers are not directly involved in discussions related to responsible sourcing of raw materials for those batteries.
- Noted that there has been limited engagement to date from utility sector on energy storage opportunities and that there is an opportunity for auto companies to take the lead on this issue.

Next Steps

- Kellen Mahoney will distribute notes and presentations from today's meeting.
- SP will review findings from the EOL survey and prepare an internal executive summary draft for survey participants review and comments by the end of June.
- Please contact SP as soon as possible if you have not had an opportunity to provide input to the survey and would like to do so.

The meeting adjourned at 1:30PM EDT.

Respectfully submitted,
Kellen Mahoney, Program Director

Attendees

Gary	Vegh	ERA Environmental Management Solutions
Adam	Westerdale	ES Group
Al	Johnston	FCA US LLC
Darnell	Jones	FCA US LLC
Sandra	Pelowski-Bresson	FCA US LLC
Jake	Porter	FCA US LLC
Nakia	Simon	FCA US LLC
Todd	Yaney	FCA US LLC
Dan	Adsit	Ford Motor Company
Renata	Arsenault	Ford Motor Company
Alessandra	Carreon	Ford Motor Company
George	Goddu	Ford Motor Company
Ewa	Gorski	Ford Motor Company
Peter	Karlson	General Motors
Lauren	Smith	General Motors
Chris	Robinson	Hitachi Automotive Systems Americas, Inc.
Kristan	Coy	Honda North America
Alissa	Yakali	Honda North America
Pat	Hayes	RBC
Tim	Lafond	RBC
John	Howes	Redland Energy Group
Steve	Hellem	SP
Kellen	Mahoney	SP
Luke	Contos	Sustainability Systems
Carole	Mars	The Sustainability Consortium
Kevin	Butt	Toyota
Mark	Yamauchi	Toyota
Kathy	Klein	WM