

Circular economy perspectives for future end-of-life EV batteries

Circular Impacts Workshop

7 December 2017

10:00 – 13:00

Venue: Energy Climate House, CEPS

Place du Congrès 1, 1000 Brussels

Concerns over climate change are leading to the rise of electric vehicles (EVs) that are increasingly penetrating the car market. This upsurge in EVs will also trigger an increase in the lithium-ion battery market which is forecast to rise from 62GWh in 2015 to 223GWh by 2025. Many companies are already planning to address the underlying question of what to do with the EV batteries after they reach the end of their first life-cycle. Managing the large number of end-of-life EV batteries will also entail economic, environmental and social impacts for the EU. This workshop will discuss the future challenges and opportunities arising from managing the large number of end-of-life EV batteries as well as the potential impacts. It will also present some preliminary results of research by CEPS as part of the Circular Impacts project.

The overall objective of the Circular Impacts project (<http://circular-impacts.eu/>) is to develop an assessment based on concrete data and indicators of the macro-economic, societal, environmental and labour market impacts of a successful transition to a circular economy. The assessment should support the European Commission in its discussions with the Member States on progress in the circular economy transition.

Agenda¹

10:00 – 10:30 Registration and coffee

10:30 – 11:30 Session 1: Introduction to the challenge and the impacts of the transition

10:30 – 11:35 Welcome by **Vasileios Rizos**, Research Fellow, CEPS Energy Climate House

10:35 – 10:50 Keynote speech provided by **José Rizo-Martin**, DG ENV, European Commission

10:50 – 11:00 Impacts of managing end-of-life batteries: Preliminary results from CEPS research work by **Vasileios Rizos & Eleanor Drabik**, CEPS Energy Climate House

11:00 – 11:30 Q&A

11:30 – 13:00 Session 2: Future challenges and opportunities for end-of-life EV batteries: Industry and research perspectives

- Future estimates of recycling costs
- Economic, employment and environmental impacts
- Innovation (product and process) in the sector
- Trade effects

11:30 – 11:35 Introduction to the session by chair **Arno Behrens**, Research Fellow, CEPS Energy Climate House

11:35 – 11:45 Insights on second use of traction batteries from **Silvia Bobba**, Researcher, Politecnico di Torino

11:45 – 11:55 **Carol Pettit**, REACH & Sustainability Manager, Cobalt Institute

11:55 – 12:05 **Willy Tomboy**, Director of the Industrial Battery Working Group, Recharge Batteries

12:05 – 12:15 **Jan Tytgat**, Director Government Affairs, Umicore

12:15 – 12:25 **William Todts**, Executive Director, Transport & Environment

12:25 – 12:55 Panel discussion followed by open discussion with Q&A

12:55 – 13:00 Concluding comments by **Arno Behrens**

13:00 End of meeting followed by a light lunch

¹ As of 8th November 2017