



Fortum Battery Solutions

Fortum Recycling & Waste
Mr. Janne Koivisto, Public Affairs Manager



This is Fortum

Energy company with activities in more than

40 countries

Power generation in **the Nordic and Baltic countries, Germany, Hungary, Netherlands, UK, Russia, Poland and India**

3rd largest

producer of CO2-free electricity in Europe

Forerunner in circular economy with advanced recycling and waste management solutions

19 000

experts worldwide

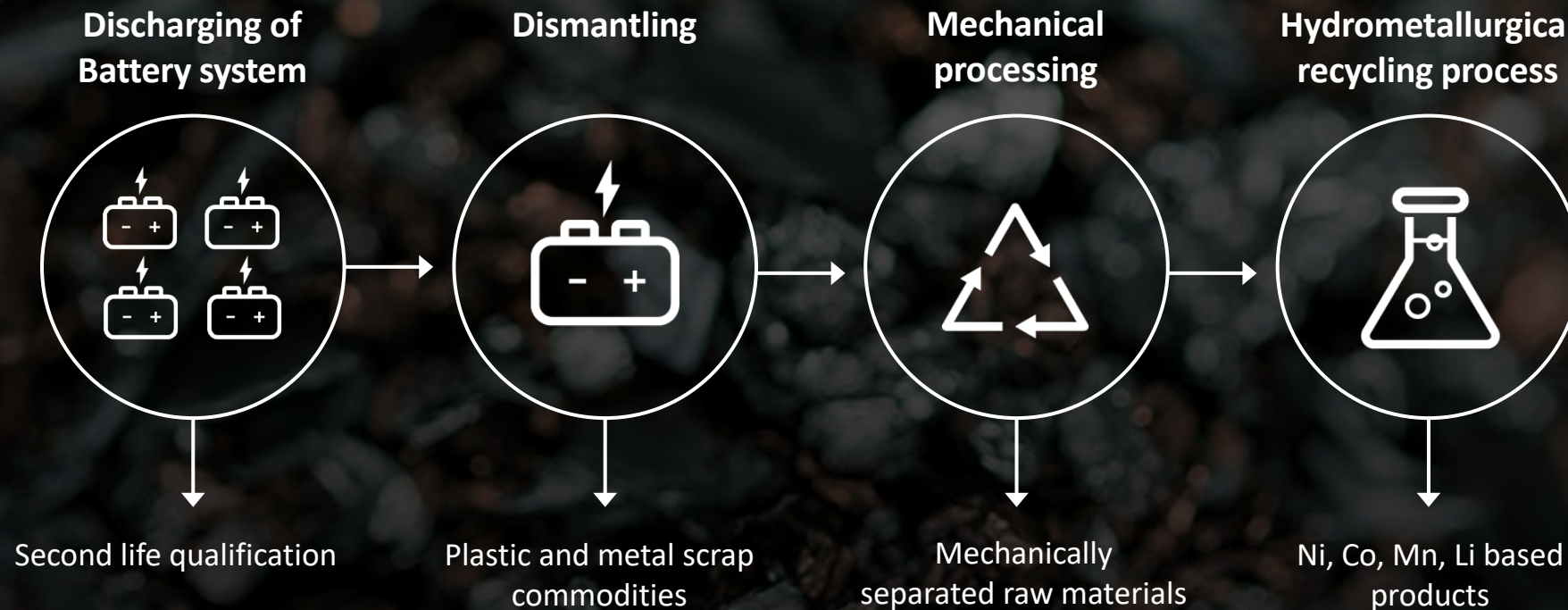
Uniper became Fortum's subsidiary in March 2020

EBITDA 2019

3,3 billion €

(combined with Uniper)

Efficient and low CO₂ recycling process with high safety and high recovery rate



Battery black mass treatment in an industrial scale

- We operate an innovative, low CO2 hydrometallurgical recycling facility located in Harjavalta, Finland
- In the hydrometallurgical process the 'black mass' from batteries is treated to:
 - Nickel sulfate
 - Cobalt sulfate
 - Manganese sulfate
- Our low-CO2 solution makes over 80% of the battery recyclable, returns the scarce metals used back into circulation, and resolves the sustainability
- Recent news: Fortum patents technology to recover Lithium

recycling
today®

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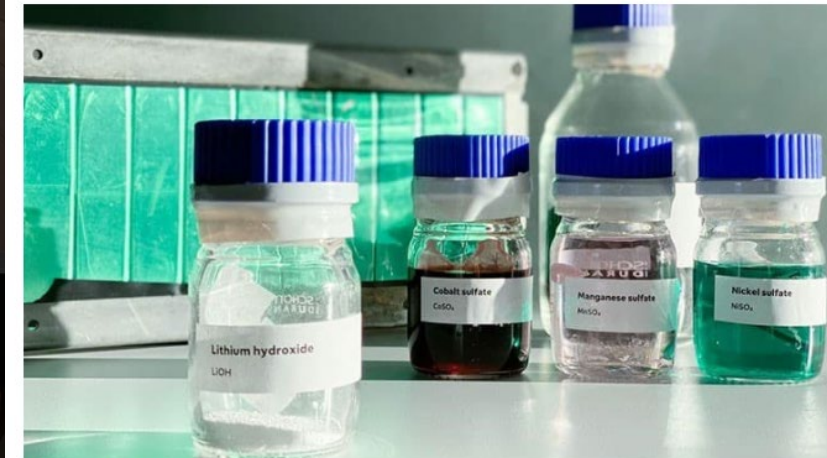


Photo courtesy of Fortum

Finnish company patents technology to recover lithium from EV batteries

COM proposal on Batteries - Fortum's views

- We welcome the targets on recycled content - a key measure to increase the demand of recycled raw materials. Similar targets should be set for portable Li-Ion batteries.
- EU should ensure that all batteries entering the market meet the standards set by the new regulation.
- Modulation requirements should be introduced in EPR schemes. Use of recycled materials should be rewarded.
- EU should take effective measures to prevent illegal shipments of waste batteries to third countries. In this context it is important to include waste codes for the new types of batteries.

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