

## Solid state sUlfide Based LI-MEtal batteries for EV applications

D3.3 Report on delivery of 10 kg batches for WP5

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## **Publishable summary**

In the frame of the WP3 for materials optimisation and scaling up, batches representative of the ten kg scale of sulfide solid electrolyte have been synthesized on a large scale equipment developed and installed at Solvay.

Based on GEN-I and GEN-II materials developed by CEA and that exhibit limited conductivity features, choice was done to orient GEN-III toward sulfides with conductivity above 1 mS/cm. These compounds were first synthesized at 10 g and 100 g scale before up scaling with same quality at 1 kg scale. The final upscale in the framework of the SUBLIME project to a multi kilogram scale was done after definition of the relevant tools and working conditions to operate in full safety mode.

A multi kg batch with an ionic conductivity above 2 mS/cm at room temperature was produced and shipped to the WP5 partners.