

Future direction and interdependency of customer and supplier ESG in the battery minerals supply chain

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Keywords:

ABSTRACT

While BASF's brand is "we create chemistry", our aim is to enable customers to use reagents and other chemistry as efficiently as possible to maximize operational sustainability. In line with this BASF has reaffirmed its ambitious climate targets of its goal of net zero emissions globally by 2050. As a seller and buyer from mines supplying the battery value chain, ESG is a core pillar for our business.

Sourcing requirement for battery minerals is evolving with the impact of German supply chain law from January 2023. Our dedicated Responsible Sourcing Office for battery minerals will audit the value chain starting at mining to document and calculate scope III emissions. This paper highlights the importance of BASF's scope III emissions, and the unique opportunity Australia must differentiate from other mining jurisdictions. Our own net zero ambitions require sourcing from suppliers with low emissions that may also be sourcing chemistry from BASF, thus making them partially dependent on our own scope I and II emissions.

Examples of our chemistry's efficiency, as well as enablers such as the BASF Intelligent Mine powered by Intellisense.io will be explored for the battery mineral value chain. Sodium Sulfur NAS® battery development will highlight chemistry innovation translated into fully commercialized units for remote real world energy storage solutions. BASF's customers success on their journey to net zero is critical since BASF also needs to source sustainable battery minerals.

Commentary on vertical integration and market evolution will be explored to give upstream producers a unique perspective on industry 4.0; renewable energy storage; reagent chemistry and sourcing requirement for the sustainability footprint of modern battery mineral mines. Driving innovation in partnership with our suppliers and customers to find efficient and sustainable battery minerals flowsheets to enable transition to a net zero economy is core to BASF's future success.