

Harmony Energy: Enhancing BESS Supply Chain Traceability



Why Traceability Future-Proofs BESS Bankability

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ESG and supply chain regulations have surged by 155% over the last decade, creating higher expectations for responsible sourcing.

Modern slavery laws, EU & US forced labour acts and the EU Battery Regulation increasingly require developers to evidence where raw materials come from and how risks are managed.

Traceability in battery supply chains is essential.

Battery Energy Storage System (BESS) supply chains depend on lithium iron phosphate (LFP) batteries containing lithium and graphite, sourced or processed from regions where supply chain risks may be present. Developers and manufacturers are further away from mining and processing activities, making it important to understand the origins of these materials and maintain visibility across the supply chain.

But battery supply chains are complex.

Materials pass through multiple countries and suppliers, from mining to refining, component manufacturing, cell production and final assembly. This fragmentation makes it difficult to access consistent data or build a complete picture of where risks may sit.

Traceability systems are needed to manage this risk.

Traceability systems allow BESS developers to map each BESS product's supply chain from mine to manufacture, capturing regional, company and manufacturing data along the supply chain, and identifying high-risks areas and incidents many tiers deep into the value chain.



Image Credit: (Harmony Energy) - Little Raith, 49.5 MW / 99 MWh, Lochgelly

Scale

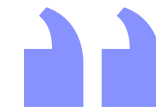
737 MW in operational BESS across the UK & France

13 GW Global BESS & Solar Pipeline

Founded in 2010, Harmony Energy is a leader in developing, building, owning and operating utility-scale battery energy storage. It has energised 18 BESS projects totalling 737 MW across the UK and France, and is also active in Germany, Italy and Poland, with a global pipeline of circa 13 GW in BESS and solar projects.



Traceability and transparency is a priority across all of our projects. It supports us to understand where our materials are coming from, how suppliers are managing risk, and ultimately supports targeted engagement with our suppliers.



Lucie Peralta Agass
Head of Sustainability
Harmony Energy



To support its growing portfolio of utility-scale battery energy storage projects, Harmony Energy partnered with Infyos to conduct an ESG and supply chain due diligence review of shortlisted battery manufacturers.

Key Outcomes

Multi-tier supply chain traceability for shortlisted manufacturers

Traceability & risk analysis

across mining, refining, and component suppliers.

ESG media scanning & regulatory compliance checks

Supplier industry benchmark comparison

to support targeted engagement and collaboration with top tier suppliers.





Image Credit: (Harmony Energy) – Bumpers (phase 1 and 2), 99 MW / 198 MWh, Buckinghamshire



The due diligence gives us transparency into each manufacturer's supply chain including where key materials were sourced, who the upstream suppliers were, and where any data gaps remained.

Having this information in a consistent, comparable format makes it much easier to assess and improve supplier performance. It provides visibility of any potential risks within their respective supply chains, and confirms where suppliers are meeting regulations like EU Battery Regulation and Extended Producer Responsibility requirements in the UK and Europe.

This level of clarity enables more targeted conversations with suppliers during the procurement process. The insights are helping Harmony to monitor the risks, embed risk mitigation into procurement decisions and support suppliers with corrective action plans.



Lucie Peralta Agass
Head of Sustainability
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