



Intelligent Chip-on-Cell Technology Creates Path to a Sustainable Battery Value Chain

Dukosi's Unique On-Cell Battery Monitoring Solution Provides Lifetime Data Logging and Traceability

EDINBURGH, United Kingdom, 10 October, 2023 -- Dukosi Ltd, the technology company revolutionizing the performance, safety and sustainability of battery systems, announced their unique chip-on-cell battery monitoring platform is enabling a circular economy by helping to reduce, reuse and recycle throughout the battery value chain. Dukosi's intelligent chip-on-cell solution transforms the way batteries are designed and monitored. With a chip on every cell, the solution continuously measures cell parameters, such as temperature and voltage. In addition, on-cell storage provides lifetime traceability with a unique ID, materials provenance and 24/7 data and event logging commencing from the first instant the Cell Monitor IC is installed. This advanced cell monitoring technology provides enhanced safety and performance throughout the life of the battery from first life applications such as electric vehicles (EV) to second/third life use in energy storage systems to end of life and recycling.

"Consumer adoption of electric vehicles continues to grow as the world moves toward greater electrification and transition to net-zero emissions," said Nat Edington, CEO of Dukosi. "Considering the potential of over 100 million EV batteries¹ coming to end of life in the next decade, designing batteries for sustainability is an economic, social, and environmental imperative. We are already seeing adoption of regulatory requirements for traceability at the battery level, but full traceability can only be achieved at the cell level, the smallest unit of the battery system, to achieve a truly circular economy."

Dukosi's patented chip-on-cell technology with lifetime traceability has many advantages over existing battery monitoring solutions, providing higher levels of safety, performance and efficiency throughout the battery value chain. For example, during cell manufacturing, Dukosi's Cell Monitor IC captures provenance data and starts 24/7 monitoring and lifetime data logging of the cell's voltage and temperature from day one, providing a more efficient manufacturing process and shorter test cycles. For pack builders, the 24/7 cell monitoring and lifetime event logging provides safer cell storage and transport, pack manufacturing and warehouse handling and improved aging predictions. Moreover, the solution allows a flexible pack design and improved maintenance by simply replacing the cells not meeting requirements. For OEMs and battery owners, more granular and accurate data stored on cell can provide improved battery safety and performance, warranty and liability protection and better residual value assessment. As provenance and lifetime data including event logging stays with the cell,

¹ [Battery recycling takes the driver's seat | McKinsey](#)

battery utilization and safety can be improved in second and third life use, e.g. in energy storage systems, to end of life and recycling.

Dukosi will move to volume production of its unique cell monitoring solution based on chip-on-cell technology and contactless communication by the end of the year. This innovative technology enables flexible battery design, optimized battery performance, high safety standards, and lifetime cell traceability – in automotive, stationary energy storage, and industrial applications.

About Dukosi

Dukosi develops revolutionary technologies that dramatically improve the performance, safety, and efficiency of battery systems, and enable a more sustainable battery value chain. The company provides a unique cell monitoring platform based on intelligent chip-on-cell technology and contactless communication for electric vehicles (EV), industrial transportation and stationary energy storage markets. Headquartered in Edinburgh, UK, Dukosi has a global footprint with locations in USA, Asia and Europe.

For more information, please visit www.dukosi.com

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