How field data improves battery safety and performance

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Kongress 1

Referent

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Kurzbeschreibung

Batteries are becoming a key component of our energy and mobility future. With this, the topic of battery performance and health becomes vital to the success of companies around the world. Deepening our understanding of batteries has never been more important, yet it has never been more challenging to keep up with the rapid developments in areas like material science, production processes, supplier diversity and business models.

To make informed decisions in an ever-accelerating battery world, companies need reliable data – about the electrochemical properties of batteries in the lab and about their real-life behavior in the field. The presentation will give an overview about the tools and methods that are available to collect, manage, and productively use battery field data.

Topics that will be covered include:

- Challenges that companies face
  - o Safety
  - o Performance
  - o Reliability
  - o Warranty

- Step-by-step description of all relevant aspects of data management (see Figure 1)

- Real-life examples of challenges and solutions regarding battery performance (see Figure 2)
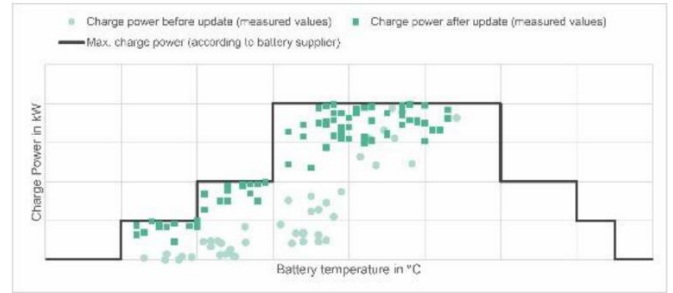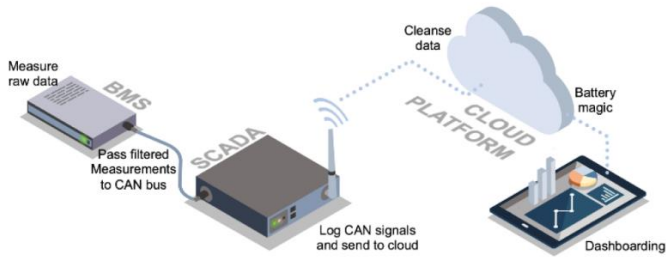
Figure 1: Steps of battery field data handling

Figure 2: Schematic real-life results