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CEO & FOUNDER
FLASH BATTERY

1. Who's Flash Battery?

Flash Battery produces lithium batteries for industrial machinery and electric vehicles. Since 2012, the year in which Kaitek Flash Battery was founded, the company has designed and produced more than 7,500 lithium batteries, it has found bespoke solutions and made more than 300 different models and installed over 100 MWh in various appliances in industrial machinery and electric vehicles.

Furthermore, Kaitek's Flash Battery batteries, which are in use in 54 different countries in the world, are automatically monitored on a daily basis by our proprietary remote control system, the Flash Data Center.

2. Talking about "electric revolution" there's two main types of machine architecture: the full electric and the hybrid one. Which of these will be the most adopted in the next two years and why?

The projects we are currently developing are vehicles and industrial machinery that will be sold in the next two years. 90% of these appliances are fully electric. Our vision, especially for industry, is to exploit the rapid charging of lithium batteries – perhaps charging during down time – so that intensive use requirements can be covered with fully electric systems.

However, hybrid systems will maintain a market share (although significantly smaller) especially in very energy-intensive applications. Let me give an example to illustrate the point: an excavator that is used all day on a construction site could have an autonomy of a few hours working only on electricity; if the machinery were required to work for 8-10 consecutive hours, a generator can be switched to bolster the battery when the machinery is in continuous use.

3. Excluding automotive industry, what do you think will be the sector that will explode in the next two years about these technologies?

Industry was the first sector to electrify, during 2019 we had many enquiries from the construction sector and the world of agriculture, so I think these areas will go from strength to strength in the next two years.

4. How does your company intend to penetrate this sector? What are the products already suitable or any expected product developments?

The agricultural and construction markets are perfect Flash Battery customers, as they need custom battery packs that integrate perfectly with their machinery. To produce a customized battery pack you need to understand the needs of manufacturers of industrial machinery and vehicles and you have to develop ad hoc solutions for their requirements, improving the overall features of these machines.

From next January, we will launch a new generation of Flash Battery lithium batteries with 35% higher energy density, so batteries with the same energy capacity will be significantly smaller and lighter.