

March 2, 2020  
Sanyo Chemical Industries, Ltd.

## **APB Starts Construction of the 1st Plant of All Polymer Battery in Fukui, Japan**

Sanyo Chemical Industries (Kyoto, Japan, “Sanyo Chemical”) announced today its subsidiary; APB Corporation (“APB”), a pioneer in development of next-generation lithium-ion batteries called "All Polymer Battery," has acquired land and a building for the 1st battery plant in Echizen City, Fukui, to start proof-of-concept of mass-production of the battery.

By building a new battery plant, APB will accelerate the world’s first establishment of mass-production technology and commercial production of All Polymer Battery.

### **Overview of New Plant**

Name	: APB Fukui Plant (tentative name)
Location	: Shodencho, Echizen City, Fukui
Total floor space	: Approx.23,733 m <sup>2</sup>
Building area	: Approx. 8,628 m <sup>2</sup>
Start of operation	: 2021

### **Overview of All Polymer Battery**

APB is a startup developing and manufacturing the first large scale bipolar lithium-ion battery modules called All Polymer Battery, which was co-developed by Hideaki Horie, current CEO of APB, and Sanyo Chemical. To realize high-quality batteries, we have developed a bipolar structure where current flows across the cell interfaces perpendicular to the electrode plane, and polymer as basic material. The electrode material of All Polymer Battery is wrapped with gel-like polymer containing electrolytic solution, which is realized by surface activity control technology of Sanyo Chemical. Through the adoption of such technologies, our All Polymer Battery is characterized by such features as high reliability, high energy density, and innovative manufacturing processes at the same time. With fewer parts needed thanks to bipolar structure and polymer-based constituent material, All Polymer Battery has high flexibility in size and shape of the cells, which will help us to create thicker electrodes and larger cells.

### **About APB Corporation**

Since	: October 2018
CEO	: Hideaki Horie
Business Area	: R&D, production and sales of lithium ion batteries
Head Office Location	: 4-12 Kanda Iwamotocho, Chiyoda-ku, Tokyo



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