

## **Theme: Next Gen. Battery**

### **- Sub Theme: Low-Cost Battery**

With the recent spread of electric vehicles and the rapid changes in the global environment, fluctuating prices of LIB materials are a major risk factor for EV OEMs and battery companies. There is also a growing need for low-cost batteries, especially new material design, cell design, and innovative processes for the low-cost battery system.

The topics we request through this GRO are as follows.

#### **- Low-cost cathode materials**

- 1) A new composition system or a new structure that may show performance at the level of the existing ternary system with a cathode active material that does not contain Ni and Co
- 2) Ideas for improving performance such as structure and composition, coating, doping, etc. that can drive high voltage while not including Ni and Co less or free
- 3) A new proposal that can dramatically simplify the manufacturing process through innovative processes with active material manufacturing methods, including 1) and 2)

#### **- Low-cost battery materials other than cathode materials**

#### **- Innovative electrodes and cell manufacturing processes for low-cost battery**

\* Process cost can be lowered through increased productivity and decreased CAPEX

#### **- Innovative cell designs for low-cost battery**

※ Participants are also encouraged to propose new ideas outside the topics above.

※ Funding: Up to USD 150,000 per year