

# News Release

## **Vehicle Energy Japan's Battery Modules Adopted by Nissan "Kicks e-POWER"**

**Tokyo, October 8, 2020** --- Vehicle Energy Japan Inc. ("Vehicle Energy Japan", Representative Director, President and Chief Executive Officer: Meiro Iwasaki) today announced that its lithium-ion battery systems have been adopted by Nissan "Kicks e-POWER" has released on Jun 30, 2020.

Kicks e-power is equipped with an inline 3-cylinder 1.2-liter engine, an electric motor, and lithium-ion battery. It produces a maximum output 95kW (129PS) and a maximum torque 260Nm, and is 21.6km/L in WLTC mode (JC08 mode: 30.0km/L).

This battery system, in collaboration with Nissan, has realized an electrical/mechanical design that ensures vehicle safety and a cooling design that maximizes battery performance, making it an optimal battery system for the e-POWER system. The installed battery cells are new prismatic battery cells that have improved output characteristics up to 40% compared to our conventional product.

The battery management system (BMS) incorporates battery control technology specialized for large-current charging/discharging to maximize the battery performance to meet the requirements of the e-POWER system and has realized the controllability of achieving safety and the life of the battery. In addition, the battery voltage and control circuit can be monitored at high speed and with high accuracy by adopting its proprietary battery voltage monitoring device. This BMS also supports ISO 26262, titled "Road vehicles – Functional safety".

Vehicle Energy Japan will strengthen its battery products, such as battery packs and battery modules, to contribute to the widespread use of electric vehicles from automakers, and for environmental conservation.



Lithium ion-battery module

## ■ Outline of Company

Company Name : Vehicle Energy Japan Inc.

Representative : Meiro Iwasaki Representative Director,  
President and Chief Executive Officer

Shareholders : 5.8 billion yen (Investment ratio INCJ, Ltd.47%  
Maxell Holdings, Ltd.47%  
Hitachi Automotive Systems, Ltd.6%)

Established : June 25, 2004

Start of Business : July 1, 2004

Headquarters : 1410 Inada, Hitachinaka-shi, Ibaraki-Ken, 312-8505 Japan

Business : Development, manufacturing and sales of automotive  
lithium-ion batteries

Vehicle Energy Japan transitioned to a joint-stock partnership structure with INCJ, Ltd., Maxell Holdings, Ltd., and Hitachi Automotive Systems, Ltd., also changed its company name from Hitachi Vehicle Energy, Ltd. to Vehicle Energy Japan Inc. since March 29, 2019.

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Information contained in this news release is current as of the date of  
the press announcement, but may be subject to change without prior notice.

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