Japan battery testing

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The battery is the key component of the electric vehicle. As demand for electric cars and vehicles increases, manufacturers need to be confident the high-voltage batteries they use meet international standards for safety, reliability, endurance, and performance.

All battery tests are conducted in accordance with international standards and original equipment manufacturer (OEM) specifications including ISO, IEC, UN ECE, SAE, LV, AK and many more. We can also perform bespoke tests to customer requirements if required.

Electromobility is undergoing rapid technological change. As well as being actively involved with standardization bodies, we offer full consultancy and testing services, helping manufacturers create efficient, economically viable electric vehicles and cars.

With ISO/IEC 17025 laboratory accreditation, lithium battery expertise and over 30 years" experience of the requirements and test methods of vehicle manufacturers, we can meet all your battery testing needs.

Armed with precise knowledge and skills, Center staff is dedicated to meeting the needs of customers through a wide range of services, including for single-cell batteries and packed systems, and for charging/discharging in safety limit testing.

The Center"s staff handles all aspects of testing--from meetings to performing the tests--relying on vast testing experience and specialized equipment to provide concrete solutions.

The Center can evaluate various products, including cells, modules, and packs. Battery degradation testing and characterization results can be provided in a wide variety of formats. We also provide traceability with official certification documents and tests.

Large-scale battery energy storage systems including lithium-ion batteries are regarded as essential for full-scale introduction of renewable energy sources and also power backup source in case of power failures. These systems also attract much attention globally, as they may be developed for further use of frequency response and voltage support.

The testing and evaluating for such large-scale products and systems, however, demand large-scale facilities that are beyond the means of the private sector.Thus, in April 2016, NITE launched the National Laboratory for Advanced Energy Storage Technologies (NLAB) in Osaka’s Bay Area—Japan’s first testing and evaluating facility for large-scale battery energy storage systems.

As one of the world’s largest testing and evaluating facilities for large-scale battery energy storage

systems, NLAB Large Chamber enables to conduct propagation testing of large-scale and operation testing of safety devices such as fire extinguishing equipment.

The NLAB Testing Facilities can be utilized to conduct various testings on large-scale modules and pack-size batteries such as vibration testing by simulating seismic waves and vibration in transportation, charge/discharge and external short-circuit testing under temperature-variable conditions.

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