Certification of International Safety Standard Compliance

TÜV Rheinland issues first TÜV-S mark to a lithium-ion battery cell

AUGUST 12, 2011

Tokyo, Japan, August 8,2011— ELIIY Power Co., Ltd. (ELP), a pioneer in manufacturing large lithium-ion batteries, announced today that it has become the world's first large lithium-ion battery manufacturer to have its products' safety certified by TÜV Rheinland Japan Ltd., receiving the international independent assessment institution's TUV S-Mark.

Ensuring the safety of electric storage systems using lithium-ion batteries was previously sought through overall system control. ELP, however, has prioritized the safety of the cells themselves in the product development process in order to cover any possible eventuality. The company had already achieved the highest safety standards in the world to the extent that its batteries can withstand a nail puncture without emitting smoke or flames, or without breaking apart. ELP decided, however, to seek the certification of an independent safety standards organization to certify the safety of the batteries in order to promote household use of the batteries.

With no resolution in sight for electricity supply shortages in Japan following the Great East Japan Earthquake, the importance of energy storage systems that can efficiently store and provide electric power has increased enormously. ELP believes that lithium-ion batteries will see widespread implementation, and constitute an essential part of the future energy industry, conceivably alleviating energy and environmental concerns globally.

In addition to their existing manufacturing plant with an annual production capacity of 200,000 battery cells, ELP plans to complete the construction of a fully automated production plant with a capacity of 1 million cells in Kawasaki in 2012. The company will then have total production capacity of 1.2 million cells.

1.Examination item （11 following examinations and factory inspection）

- ☑ Vibration
- ☑ Free Fall
- ☑ Penetration
- ☑ Immersion
- ☑ Mechanical Shock
- ☑ Overcharge
- ☑ Crush
- ☑ ShortCircuit
- ☑ Thermal Abuse
- ☑ Themal Shoch Cycling
- ☑ Forced Discharge

2.TÜV Rheinland Japan Ltd.

Japanese arm of TÜV Rheinland Group.

TÜVRheinland®
Precisely Right.

3.TÜV S-Mark

4.Product features

- ・High safety
- ・$LiFePO_4$ is used for cathode
- ・Stacking type cell
- ・An available temperature range　from -20℃ to 60℃
- ・high-capacity per cell　capacity50 (Ah)

<Large lithium-ion battery cell>

5.About ELIIY Power Co. Ltd.

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<Established>　28 September 2006
<Capital>　16,609 million Yen (capital stock: 8,344 million Yen)