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Research Report on Chinese Power Li-ion Battery Market, 2009-2010

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Abstracts

With the improvement in safety and performance, as well as the decrease of cost, power lithium-ion batteries begin to display strong vitality. It will bring relevant enterprises a prosperous future.

Petroleum depletion and environment pollution will cause petroleum to be replaced by new energy for automobiles. This will promote a technological revolution in the auto industry. One of the main directions for the revolution is HEV or EV with power storage batteries as the main or assistant power supply.

Lithium-ion storage batteries have been the main power supply for mobiles, laptops and digital electronic products since the commercialization of lithium-ion batteries by Sony in 1991. Lithium-ion battery are featured with the high energy density, power density, no memory effect, little self-discharge and a long circling life. Therefore, it becomes a main choice for automobile power supply. Currently lithium-ion battery powered electric vehicles are being developed by many famous auto manufacturers such as Ford and Chrysler in America, Toyota, Mitsubishi and Nissan in Japan, Korean Hyundai, Courreges and Ventury in France, etc.

Governments and enterprises of many countries multiply their efforts in R&D of lithium batteries for HEV and EV. Japan has presented New Sun Plan. The participants include Hitachi, GS-Yuasa and Panasonic. Toyota has acquired the operation right of Ni-MH battery for HEV. Meanwhile, the company has invested for its own production line of power lithium-ion storage barriers. It is also making effort to apply power lithium-ion storage barriers in HEV. NEDO disclosed new development plan on storage barriers for electric vehicle in February, 2007. Moreover, LG in Korea begins to develop high-power polymer lithium-ion batteries. Two types -- 6Ah-144Wh/kg and 10Ah-158Wh/kg have

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been released. United States Department of Energy (USDOE) has supported the R&D of three-generation lithium-ion storage batteries. SAFT of France has already developed two types of high-power lithium-ion batteries, with power mass ratio of l500W/kg and 350W/kg respectively.

Power lithium-ion batteries arouse wide concern in recent years. They are widely applied in the fields of electric tools and electric toys. There are also potential prospects for lithium-ion batteries in the fields of EV/HEV, electric canoe, electric bicycle, etc.

There are a large number of enterprises in Chinese lithium-ion battery industry. However, only a few are large-scale ones with high-level technology and equipment. Fewer have advanced innovation capacity.

From 2006 to 2008, there was high enthusiasm for Chinese enterprises' to invest in power lithium-ion battery. Due to the delayed domestic electric auto industry, most enterprises focused the investment on electric tools, electric toys and electric bicycles. Encouraged by a series of policies about new energy vehicles in 2008 and 2009, new investment on the power lithium-ion industry will be launched. Power lithium-ion batteries are recognized as developing products. It is unrealistic for large-scale application in a short time. In the mid-long term (5-10 years), prospects of power lithium-ion batteries would be considerably optimistic.

Through this report, readers can acquire more information:

- Development of Chinese power battery industry
- Development of Chinese power lithium battery industry
- Competition in Chinese power lithium battery market
- Main enterprises in Chinese power lithium battery industry and their operations
- The upstream and downstream industries of Chinese power lithium battery industry
- Development trend of Chinese power lithium battery industry

Following persons are recommended to buy this report:

- Power battery manufacturers
- Power battery traders
- Downstream industries applying power battery
- Investors concerning Chinese power battery industry
- Research institutions concerning Chinese power battery industry
- Other persons concerning Chinese power battery industry

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5.9 Xiamen Powerlong Industrial Co., Ltd.
5.10 Advanced Battery Technologies, Inc.

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5.11 Shenzhen Herewin Technology Co., Ltd.
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