



TRINIDAD & TOBAGO

BATTERY MANUFACTURING

LITHIUM-ION BATTERY CONSUMPTION

Globally, demand has exceeded supply for batteries used in energy storage systems for power grid, renewable energy and automotive applications. It is projected that battery use in global energy storage will grow to be a 50GWh per annum market by 2025 (46% Cumulative Average Growth Rate over the next 10 years). Lithium-ion batteries are forecasted to be the leading technology, with superior performance and rapidly falling costs helping to ensure it is the battery of choice in energy storage. Lithium-ion battery consumption will reach 48GWh (54% CAGR), equivalent to 97% of total battery use in energy storage. The U.S. is the largest market (350MWh in 2015) and is growing quickly; it accounts for 30% of global installations (1.1GWh in 2015). As a result, lithium carbonate demand should increase from virtually nothing in 2015 to 34kt LCE in 2025.

OEM COMPONENTS

In the Energy Storage Battery Industry, OEM components can either be battery cells, modules, or packs. Trinidad and Tobago possesses the strategic advantages of possessing a highly qualified labour force in the energy and manufacturing sectors, low electricity costs and low labour costs. These advantages make it an ideal place for investors to benefit from setting up an OEM manufacturing operation, scaled to provide battery modules and/or packs to major renewable energy and energy storage firms. Within the supply chain, battery module and pack manufacturing is less complex and has fewer safety risks than the cell manufacturing process.

GEOGRAPHIC ADVANTAGE

The major suppliers in the battery module and pack manufacturing sub segment include BYD (China), Storage Battery Systems (USA), Tesla Motors (USA), Samsung (Korea), A123 Systems (USA), AC Propulsion (USA), Boston Power (USA), Coda (USA), Compact Power/LG Chem (South Korea), Continental Automotive (Germany), Electrovaya (Canada), EnerDel (USA), GM (USA), GS Yuasa (Japan), Hitachi (Japan), Panasonic (Japan), Valence Technology (USA), Yardney (USA). **Trinidad and Tobago's geographic position would allow for companies to easily send and receive shipments from the Far East/Asia through the Panama Canal as well as from the continental USA via their east coast ports.**

OPPORTUNITY

Trinidad and Tobago possesses the manufacturing capabilities, business environment and logistical advantages to be a regional hub for OEM battery manufacturing and assembly within the Lithium-ion segment. There is an opportunity for an investor to design, build and operate a battery manufacturing and/or assembly plant in Trinidad and Tobago focusing on the pack and module production stage and where the majority of production will be exported internationally.



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FOR FURTHER INFORMATION ON THESE AND ADDITIONAL INVESTMENT OPPORTUNITIES PLEASE CONTACT US:

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