

Battery Manufacturing Economics

Enabling an electric vehicle OEM to build a Li-Ion battery electrolyte manufacturing capability in Europe



Quick overview

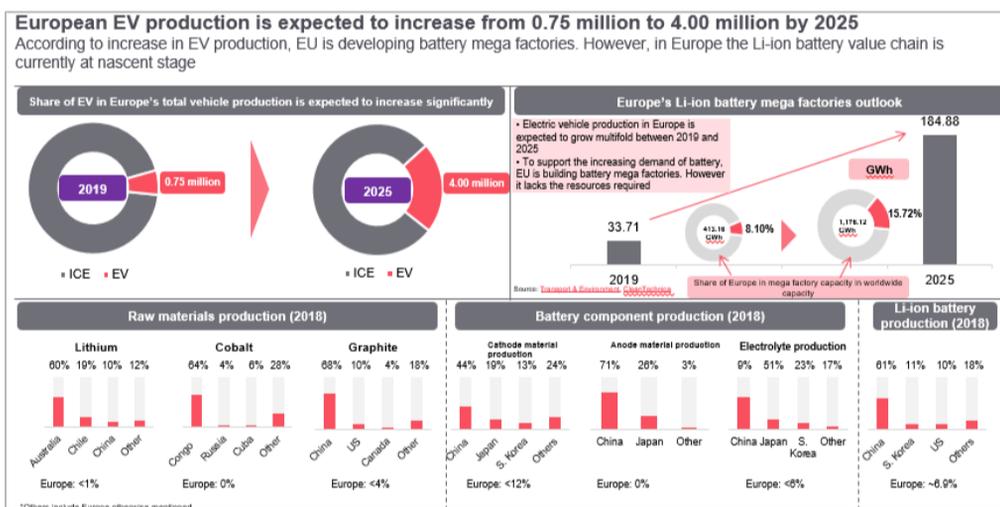
Our client specializes in electric and battery-powered passenger vehicles. They needed our help to develop a manufacturing strategy that could help them to build their own battery manufacturing capability in Europe. Our client needed to understand manufacturing economics of Li-ion electrolyte and its components (LiPF₆ salt, solvents and additives).

Client success details

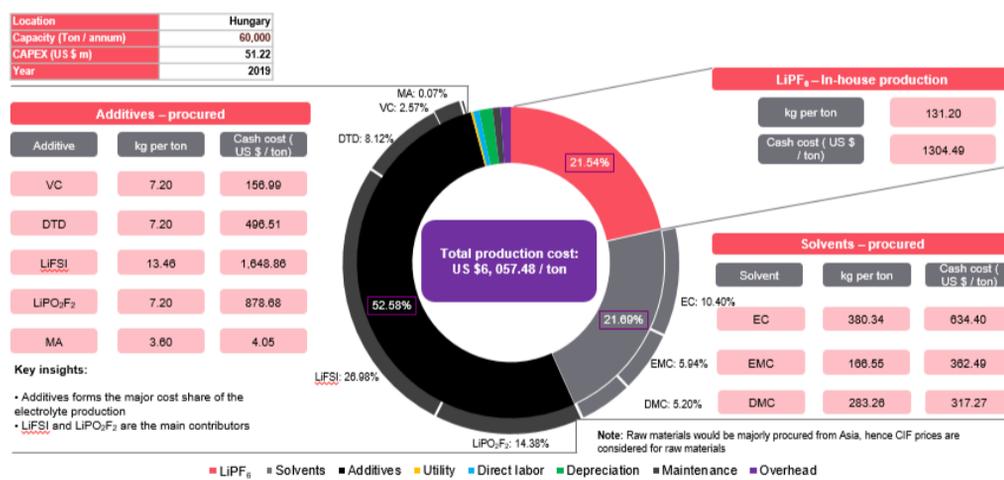
With our help, our client was able to understand the market structure, manufacturing economics of Li-ion battery electrolyte and its components. FutureBridge answered several strategic questions including:

Li-Ion batteries are main core of the electric vehicle segment and developing manufacturing capability is very important to gain competitive advantages

- How is the supply chain for electrolyte production, which are the key nodes and level of integration?
- Which are the key raw materials, process steps / unit operations (process diagram)?
- Which are various equipment required in each process, analysis of CAPEX / depreciation cost?
- Which are the cost drivers for electrolyte production?



FutureBridge conducted extensive primary and secondary research across Li-Ion battery value chain in different regions. Primary research included interviews with major additives, solvents, LiPF₆ and electrolyte manufacturers and industry experts to assess the manufacturing economics of electrolyte & its components



FutureBridge further analyzed current industry activities, proposals and the plans of key players, plus various related technical, commercial and regulatory factors to understand the future of Li-Ion battery value chain. The manufacturing cost analysis of each additives and LiPF₆ salt was done. The work FutureBridge carried out enabled our client to define their business plan and operational roadmaps.

About FutureBridge

FutureBridge tracks and advises on the future of industries from a 1-to-25 year perspective.

We keep you ahead on the technology curve, propel your growth, identify new opportunities, markets and business models, answer your unknowns, and facilitate best-fit solutions and partnerships using our platforms, programs, and access to global ecosystems and players.