



Battery Minerals, Chemicals & Fertilizers Center of Excellence



Bechtel's Battery Minerals, Chemicals & Fertilizers Center of Excellence (BCF CoE) offers solutions for all project phases, from conceptual studies to plant optimization, through to handover, to help you achieve your short, medium and long-term goals.

Our team has expertise in lithium cathode and anode material synthesis, lithium mineral processing, nitrogenous chemicals and fertilizers, phosphate mineral processing, phosphate fertilizers and industrial acids.

We offer the best available technologies to address challenges in capital efficiency, safe operations, environmental performance and sustainability on each project.

We work collaboratively with our customers to execute some of the world's most logistically challenging projects, often in remote locations and harsh climatical conditions, helping them to build extraordinary projects to responsibly unlock the resources needed for a cleaner and greener future.

We support your strategic objectives, sustainability and net zero commitments to ensure optional business solutions.

Expertise and Experience

Our team of specialists successfully deliver outcomes in all stages of project development, including:

- Preparation of business cases and cost estimates using benchmark data
- Front-end studies with seamless transfer to execution, including value creation or value adding
- Process engineering, energy optimization, decarbonization and waste minimization
- Technical due diligence
- Operational and plant performance reviews, process and plant design due diligence
- Review of test work programs and interpretation of results



Value for our Customers

Our customers are keen to frame their projects quicker, yet wish to consider all options to demonstrate the best business case is selected. Our front end studies have achieved:

<p>Speed to market</p> <p>30%</p> <p>reduction in traditional project schedules</p>	<p>Tracking of carbon generation</p> <p>70%</p> <p>of projects are committed to carbon reduction</p>	<p>Attractive business opportunities</p> <p>80%</p> <p>of concept studies transitioned to next phase</p>	<p>Delivering on emerging technologies</p> <p>LFP, P4, Si, Li</p> <p>for energy transition and electromobility</p>
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Our Battery Minerals, Chemicals & Fertilizers Global Experience



Capabilities

Business Optimization

Our business-focused outlook delivers solutions with optimized product mix and techno-economic evaluations with the aim of providing attractive business solutions for your project.

From Concept to Commissioning and Operations

We have a strong focus on framing the right project with the right technology for our customers and seamlessly transfer the findings of the front end studies into design, execution, commissioning and operations.

Our operational and commissioning experience allows us to deliver process improvements, energy input optimization, decarbonization, technical studies and provide brownfield technical support. Operational support ensures continuity of experience and knowledge to ensure optimal performance.

Technology Neutral

We are technology neutral with the sole aim of providing the best technology to suit your business needs and requirements. This is supported by long-standing relationships with technology licensors.

Test and Lab Work

Based on the experience of our subject matter experts and our track record of delivery, we are ready to partner with our customers and deliver:

- Metallurgical test work and process design
- Identification and selection of the most appropriate laboratory to conduct the selected test work program
- Geometallurgy and understanding of ore variability
- Engagement with testing laboratory and guidance on test program
- Analysis and interpretation of the test work leading to the development of the process design criteria



Contact

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