Overview

The Partners worked closely with multiple stakeholders to manage a sustainability and commercialization program for the beneficial reuse of industrial waste products. This was a comprehensive program which spanned R&D, technical, commercial, regulatory, and cost estimating activities while balancing the objectives of all the stakeholders. The program was structured in two phases; first to look at the technical and financial benefits of the waste product management approach and second was to identify beneficial reuse and commercialization opportunities.

Challenge

- Significant long-term costs to manage waste products due to regulator requirements and volume being generated
- Alternative ways of storage, transportation and use of the waste products were not technically proven or approved by regulatory agencies
- Business case for alternative methods of managing waste products did not solve due to high CAPEX
- There were multiple internal and external stakeholders, with varying degrees of incentives to participate in the program

Impact

- Managed a global team to drive closure of all the deliverables of the program
- Demonstrated positive environmental results enabling program to move forward
- Delivered a technically viable solution which met all the financial hurdles
- Supported active regulatory engagement to facilitate approval to proceed
- Delivered a positive business case which showcased the attractiveness of large scale industrialization and commercialization.

Project Approach

Environment

- Coordinated lab tests and environmental risk assessments
- •Outlined options to facilitate end product commercialization

Technical

•Identified financially viable technical solutions for environmentally safe storage that minimized technical risks and enabled commercialization

Regulatory

- •Supported engagement with regulatory bodies to facilitate support for the program
- Worked with internal and external subject matter experts

Financial

- Identified a solution that met stringent NPV targets
- Demonstrated attractiveness of commercialization to key stakeholders

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