



GridBeyond®



Imerys

The world leader in mineral-based specialty solutions for industry, Imerys delivers high value-added, functional solutions to a diversified set of industrial sectors, from processing industries to consumer goods.

Its West Thurrock site in the United Kingdom, a global expert in calcium aluminate technology producing specialty binders, has partnered with GridBeyond to generate efficiencies and support decarbonisation.



IMERYS

Project overview

Key Details

Industry

Aggregate

Activity

Manufacture and distribution of Calcium Aluminates Cement

Project Type

- Access to Flexibility Market with a fast response frequency programme
- Participation in the Capacity Market
- Dynamic Asset Optimisation - peak charge avoidance

Project Facts

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- 2 x Mill Motors are connected to GridBeyond's platform, Point
- Over 1 Megawatt of energy flexibility is monetised through participation in fast-acting frequency response services and the Capacity Market
- Improved green credentials
- Optimised operation and a significant monthly revenue for the business

Customer Benefits

Reduced Carbon Footprint

Optimised operations while contributing to the decarbonisation of the energy network

Unlocked New Revenue Streams

New monthly revenue delivered from National Grid programmes via GridBeyond

Future Proofed Flexibility

Flexibility to switch seamlessly to higher revenue schemes as they become available

Business Intelligence

Energy monitoring and reporting

Fully Financed Installation

Installation with no cash outlay, including no upfront cost

No Risk to Operations

Advancing Net-Zero, Enhancing Sustainability



Imerys is the world leader in mineral-based specialty solutions for industry, with €3.8 billion revenue and 16,400 employees in 2020. The company delivers high value-added, functional solutions to a diversified set of industrial sectors, from processing industries to consumer goods. Imerys is determined to continue developing responsibly, in particular by fostering the emergence of environmentally-friendly products and processes.

The company recognises the need to act rapidly to provide solutions to the environmental and societal challenges facing the world. Imerys is already on a journey to achieve their ambition, with clear, measurable objectives, through what the company calls SustainAgility. This is an integral part of how Imerys operates.

The Imerys team is engaged in making the business more agile, always learning and improving, and leading the industry as they contribute to the UN's Sustainable Development Goals.

The company scales up its efforts to deliver new solutions and opportunities to extend the life cycle of its minerals, by assessing the portfolio of products against sustainability criteria, recognising the demands from both society and customers to produce the best quality products that stand the test of time.

In the global drive to combat climate change, Imerys is committed to act by reducing carbon emissions in their operations by 36% by 2030. Imerys is accelerating the pace of transition towards low-carbon energy and cleaner fossil fuel.

Transforming Energy into Opportunity



With those priorities in mind, Imerys was looking for a trusted and experienced technology partner to intelligently manage and optimise their energy demand while providing flexibility to the grid and enabling its decarbonisation.

The company started working with GridBeyond in October 2020.

By connecting energy-intensive mill motors at the West Thurrock Plant (UK) to GridBeyond's platform, Imerys is able to generate revenue from National Grid balancing programmes,

avoid peak charges, monitor and analyse energy consumption patterns while optimising equipment performance.

GridBeyond's AI-powered technology controls the demand of the plant in real-time, enabling the manufacturer to provide its energy flexibility to the grid and support the increased integration of renewables onto the electricity system.

All without any capital expenditure or impact on operational processes and product integrity.

"As a global industrial company, becoming more sustainable is one of Imerys' key priorities.

"Our partnership with GridBeyond has enabled us to successfully generate efficiencies and support decarbonisation"



How does it work?



We connect the aggregate industries' assets...

Suitable assets



Grinders



Conveyors



Kilns



Crushers



Bitumen
Tanks



Fans

Connected to our platform



Delivering



New Revenues



Energy Trading



Sustainability



Cost Saving



Equipment
Optimisation



Monitoring
& Control



GridBeyond®

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