

The world's largest aluminum producer **saved 303 hours of factory downtime** with Predictive Analytics & Remote Monitoring techniques.



About The Client

A diversified energy & resources business operating in 3 continents and produces more than 1/3rd of India's aluminum.



Business Case

Unplanned downtime of even a minute can delay production output, impacting the bottom line or attracting additional maintenance. With a 360-degree view of asset performance and the ability to predict an unforeseen event like equipment failure, access to smart data-driven analytics can help improve factory performance and efficiency with the **below objectives**.



Objectives

- Reduce the equipment downtime and increase asset reliability with real-time monitoring
- Drive sustainable manufacturing with an innovative data-driven model
- Reduce man-machine interface and Zero-Tolerance toward work safety



Cloud-Enabled Predictive Monitoring Solution

Infinite Uptime worked with the asset reliability teams to identify **16 machine groups** and **350+ exposure points** across **13 critical processes**, with key monitoring locations such as:

- Rodding
- Gas anode plant
- Cast house
- Bake oven
- Potline

The maintenance team gained the needed visibility into real-time data with predictive analytics and dashboards. Inspecting equipment and scheduling became a seamless exercise with Observations, Diagnostics, and Recommendations.

Business Impact

303 Hrs

Unplanned downtime saved in 6 months

Building a Digital Enterprise

The customer has now planned to scale the digitization program to **4000+ exposure points** in the coming months, a **10x increase** in the scope to monitor critical and semi-critical applications across plants.