

OPTIMIZED OPERATIONAL EXPENDITURE (OPEX) THROUGH PREDICTIVE MAINTENANCE-AVERTLE™

For a Global Consumer Goods Manufacturer



Engagement

Predictive
Maintenance



Technology

AI on Edge



Ownership

100%



Outcome

Reduced
Maintenance Cost

BUSINESS NEED

Critical assets that are subjected to schedule-based inspections as part of preventive maintenance approach impacts OPEX. Another fallout from this approach is that it could result in accelerated wear and tear of components if not repaired or assembled properly on time. On other hand, even components that are replaced when they still have a useful operational life lead to loss of money and periodic shutdowns is another constraint caused due to schedule-based routine inspections

Our client a leading global CPG conglomerate wanted to implement Predictive Maintenance to their critical Detergent Process equipment to reduce breakdown of carbonate grinder which affected their OPEX costs and efforts spent on routine maintenance activities. The client onboarded L&T Technology Services to

- Develop a sustainable solution to reduce unplanned downtime in Detergent Manufacturing Line for Carbonate Grinder
- Reduce OPEX and maintenance costs associated with the critical asset and move from Preventive Maintenance to Predictive Maintenance

SOLUTION HIGHLIGHTS

- Early failure detection with AI on Edge for reduced Data Congestion and Latency.
- Physics based Pre-built Machine Learning (ML) Models available on Edge and Cloud for target equipment Type: **Carbonate Grinders**
- 24 X 7 Asset Health Monitoring and Alerts from Current, Temperature and Vibration Sensors
- Cloud agnostic visualization of Fault and Residual Life of Assets



BUSINESS VALUE DELIVERED

- Fault Prediction Accuracy: **85%**
- Reduced Annual maintenance contact (AMC) service cost **20%**
- Increased Overall equipment effectiveness (OEE) by **12%**
- Improved Asset Uptime: **85%**

