

Case Study

Leading manufacturer in Africa enhances enterprise productivity, improves energy efficiency by 15%

Background

Headquartered in Africa, our client Ashut Engineers Ltd. is a leading manufacturer of a wide range of plastic products. A state-of-the-art manufacturing facility enables them to service multiple industries including edible and motor oils, agro chemicals, pharmaceuticals and veterinary.

Challenges

Strong competitive pressure meant Ashut needed to reduce costs and simultaneously improve quality and delivery reliability. Specifically, their strategy called for:

- Improve employee and equipment performance and efficiency
- Reduce energy costs
- Empower stakeholders with insights to improve decision making and issue resolution
- Single, unified solution regardless of machine type and OEM
- Integration with ERP and production planning systems

Solution

EcoAxis defined and designed Ashut’s digital enablement architecture to integrate disparate operational technologies (OT) such as compressors, chillers, energy meters, molding equipment (of varying vintage, capabilities and from different OEMs) and information technologies (IT) such as ERP and production planning.

EcoAxis and Ashut digitally connected 150 machines (135 process, 15 utility equipment) of 20 different makes and 33 different models.

Once digitally enabled, our client’s site was seamlessly and quickly integrated with EcoAxis' cloud based, Internet of Things (IoT) enabled, Artificial Intelligence (AI) and Business Intelligence (BI) ready Industry 4.0 product, axisPLAST4.0 to deliver business value through deep actionable insights.

Benefits

The advantages of deploying axisPLAST4.0 were evident immediately:



15% reduction in energy costs



Overall Equipment Effectiveness (OEE) improved by 7%, further 10% improvement expected in succeeding year



Improved employee performance, efficiency and satisfaction



Enhanced customer satisfaction through improved quality

“Energy and operational efficiency improvements were our immediate business goals. We decided to go for EcoAxis’ solution digitising our complete plant floor with access to analytics on anytime anywhere basis...we have achieved close to 15% energy efficiency...we are confident of achieving further 10% improvement on energy costs in the current year...and are confident that we would be able to drive upto 10% OEE improvements at the factory level.”

– Mehul Shah, Production Director at Ashut Engineers Ltd., Nairobi, Kenya