

Energy monitoring solution significantly improved efficiency of Ethiopia's grid



TECH
mahindra

Standout Case Study

2023

Energy

Middle East and Africa



Opportunity

The client is Ethiopia's electricity utility. They needed solutions to improve their visibility into operations as a means to improve their efficiency.

As Ethiopia's digital economy expands, electricity has become increasingly vital. But their infrastructure was not always able to support their increased needs. A lack of visibility made it hard for the country to prepare for peak energy demands and anticipate critical failures.

Tech Mahindra partnered with Ethiopia Electric to consult on ways to improve the efficiency of their energy grid. This was their first engagement with the client.

Imagining IT Differently

Tech Mahindra devised an energy monitoring system that helped the client better manage their electrical grid. This solution depended on:

- IoT smart meters installed at each substation to capture energy parameters.
- A robust data infrastructure to gather, process and store information.
- ERP and data management applications to integrate energy data with customer information and capacity insights.

The client reported that this solution exceeded their expectations, particularly in the provider's skill scaling up their capabilities.

Future Made Possible

This solution was a critical step in delivering a more efficient energy infrastructure. It:

- helped significantly reduce energy losses and power theft.
- improved accuracy in demand forecasting, system resilience, and outage management.
- ensured precise billing and financial reporting.
- reduced costs through an optimized energy procurement strategy.

According to ISG, this case study is an example of a provider's role as a critical strategic partner, helping to realize process improvements.

