



INTELLISENSE.IO HELPS
GLOBALFOUNDRIES
DRESDEN REDUCE FAB
UTILITY COST WITHOUT
CAPEX INVESTMENT.



“Significant Savings”

“The main benefits for us have been the obvious savings we have made without capex intensive equipment upgrade. This has enabled us to generate payback within the first 12 months.”

WERNER FREIMANN
- DIRECTOR OF SITE FACILITIES
GLOBAL FOUNDRIES

OVERVIEW

INDUSTRY

- Semiconductor Fabrication Plant

APPLICATION & PRODUCT

- Plant Utility System Optimisation
- Brains WSN & Brains.app

RESULTS

- Payback within the first 12 months through savings of both electrical and thermal energy generating an ROI exceeding more than 500%

SITUATION

The Dresden facility had experienced more than 20% increase in its use of energy consumption and the facilities team were looking to diagnose the root cause. They wanted a solution that was flexible, could work within their existing utility control systems without any interference and where money could be saved while avoiding any capex expenditure.

Initially, the team tried to source a solution through energy consultants. “We really didn’t feel that the consultant proposals matched our requirements. We eventually chose IntelliSense.io as they used wireless sensing technology to source real time data to identify performance improvement areas and worked in partnership with our team across the entire project life cycle.” said **Werner Freimann, the Director of Facilities for Dresden Operations.**

SOLUTION

NO CAPEX DEPLOYMENT

The team at GLOBALFOUNDRIES Dresden decided to deploy the IntelliSense.io Brains Products, Brains WSN (Sensors + Wireless Sensor Network) and Brains.app, targeting Process Cooling Water (PCW) and Clean Compressed Air (CCA) systems. IntelliSense.io solutions, including the deployed Intelligent Factory, are made available through annual subscriptions and helps customers avoid upfront capital costs.

BENEFITS

The fact that IntelliSense.io developed their optimisation recommendations based on analysis of real time data gave greater level of confidence in the findings. Optimisation projects were executed which helped GLOBALFOUNDRIES to save electrical and thermal energy, extend the operating life of current assets, identify leakages in the compressed air and gases systems, and offered a clear business case to support future system design upgrades.