CELEBAL TECHNOLOGIES

Harness **Smart Meter Analytics Solution** for Optimal Energy Consumption & Cost Savings
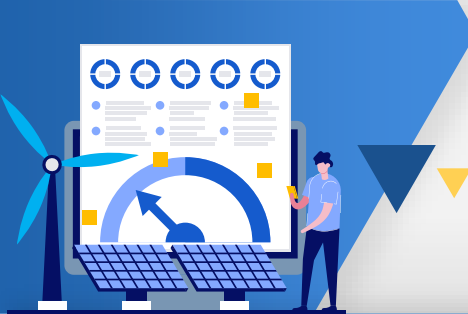
Smart Meter Analytics is an advanced, data-driven solution that empowers energy providers to **gain real-time insights into customer consumption by analyzing large volumes of smart meter data**. Leveraging the scalability of Microsoft Azure—featuring **Azure Databricks**, **MLflow**, and **Azure Delta Lake**—along with powerful machine learning libraries like **Pandas** and **NumPy**, it delivers actionable intelligence to optimize energy consumption. From identifying peak usage to recommending personalized efficiency strategies, it enables **proactive decision-making**, **reduces operational waste**, and **drives sustainability**.

Gartner projects **global IT spending** in the power and utilities sector to reach **$249.1 billion in 2025**, a **10% increase** from **$231.2 billion in 2024**. This growth is expected to continue with a **10.3% CAGR**, reaching **$385.6 billion by 2029**.

Key Features

- Real-time Data Acquisition & Analysis
- Predictive Analytics
- Comprehensive Energy Consumption Reporting
- Seamless Integration
- Automated Smart Alert Processing

Core Benefits

- Extend Equipment Lifespan
- Resource Optimization
- Proactive Energy Management
- Improved Operational Efficiency

Impacts

- **2X** Enhanced Decision-Making
- **60%** Cost Reduction
- **3X** Improved Efficiency
- **40%** Carbon Footprint Reduction