CELEBAL TECHNOLOGIES

Discover the Future of Power Management with **Generation Forecasting**
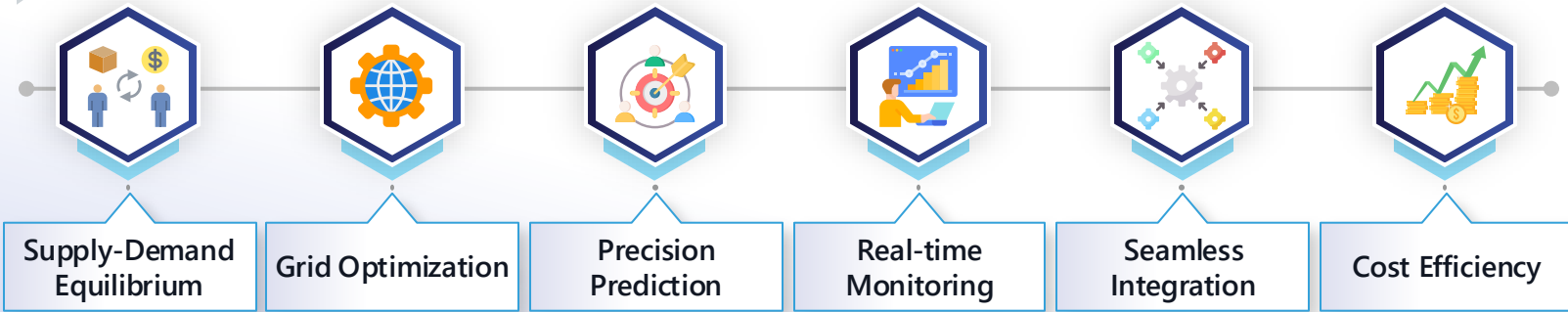
The Generation Forecasting Solution epitomizes cutting-edge energy management, **driven by Azure Machine Learning, Azure Blob Storage, Kubernetes, and AML Pipelines**. This innovative system accurately **anticipates electricity production**, from minutes to days ahead, seamlessly integrating diverse data sources and ensuring up-to-the-minute precision. Grid operators can **optimize supply and demand dynamically**, efficiently incorporating renewable energy sources for a greener footprint while minimizing operational costs. **Proactive risk management** and adherence to environmental regulations further **enhance grid stability and sustainability**.

*Gartner predicts an **8.0%** increase in global IT spending for power and utilities in 2023, reaching **$189** billion, up from **$175** billion in 2022. This growth is set to persist, with a 5-year **CAGR** of **8.2%**, reaching about **$242** billion by 2026.*

Key Benefits

- Supply-Demand Equilibrium
- Grid Optimization
- Precision Prediction
- Real-time Monitoring
- Seamless Integration
- Cost Efficiency

Features

- Advanced Data Analytics
- Regulatory Compliance
- Risk Mitigation
- User-Friendly Interface

Impacts

70%	3X	55%	5X
Cost Reduction	Risk Mitigation	Better Grid Optimization	Enhanced Sustainability