



**Start Up
Energy Transition
2019 Global Top 100**

BluWave-ai Solution Overview

The Internet of Things

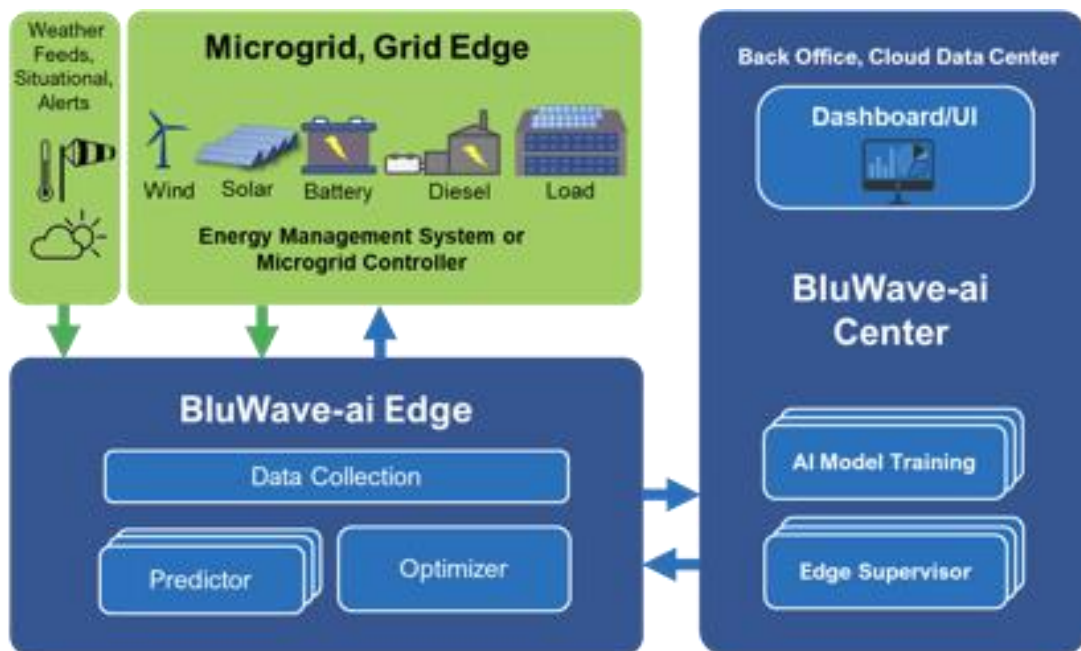
Today's grid operators have access to an unprecedented volume of data, which is difficult to process efficiently and effectively. As well, electrical grids are increasingly connected with digital sensors and monitoring devices, and employ advanced networking and automation technologies. While this modernized and connected smart grid is more reliable and efficient, its complexity also impacts an operator's ability to make timely optimized grid decisions.

BluWave-ai Platform

- Applies machine learning to provide AI-assisted grid optimization
- Flexible architecture with easy integration to IoT devices, SCADA & other industrial control systems
- Integrates external data sources including weather, planned schedules, event signals, & energy pricing
- 4 US PTO provisional patents

Grid Energy Optimization for Distribution Utilities and Microgrids

BluWave-ai's grid energy optimization platform balances the cost and intermittency of different energy sources – renewable and non-renewable - in real-time.



Save 10% or more on energy costs

Get more from renewables hardware or PPA's

Size energy storage requirements

Reduce GHG emissions

BluWave-ai Solution

Our SaaS-based solution consists of **BluWave-ai Edge** and **BluWave-ai Center**, and operates in either the public or private cloud. BluWave-ai Edge connects to IoT sensors and meters, using historical and real-time data to provide AI-assisted optimization of local energy generation and storage. BluWave-ai Center manages multiple BluWave-ai Edge locations, applying **machine learning** with new data to continuously adapt and improve the **AI models** used by BluWave-ai Edge to predict, optimize, and dispatch control. BluWave-ai holds four USPTO provisional patents.

BluWave-ai Center

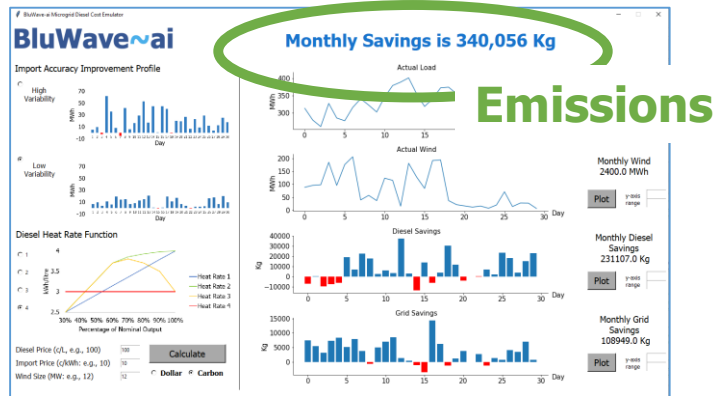
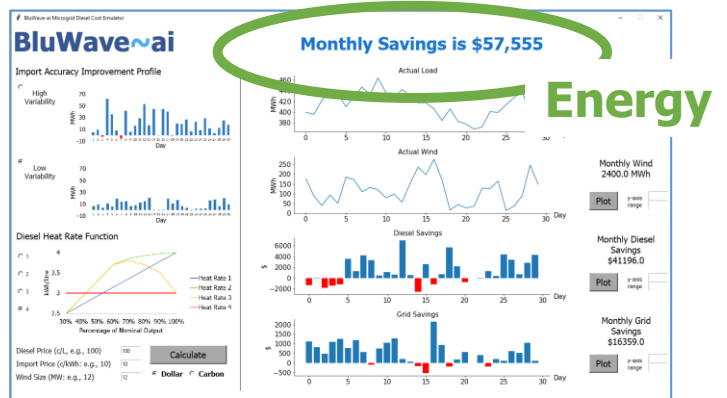
- Manages multiple Edge points
- Uses machine learning to continually improve AI models used by Edge

BluWave-ai Edge

- Connects to IoT sensors & meters
- Provides AI assisted optimization of local energy generation & storage

AI Models

- Wind Power Generation Predictors
- Solar Power Generation Predictors
- Load Predictors
- Optimization & energy storage control



About BluWave-ai

BluWave-ai puts the smart in smart grid. Our grid optimization platform lets communities, corporations, and utilities optimize their energy decisions for sustainability, reliability, and affordability. BluWave-ai is pleased to work with energy innovators like Tata Power, Hydro Ottawa, and Natural Resources Canada to realize a more sustainable grid for all.