# ioTORQ

## Advanced utility and process optimization software

# ioTORQ Overview

**ioTORQ** integrates multiple data sources, real-time dashboards and AI-driven analytics to manage performance, engage stakeholders and drive performance gains.

**Why use ioTORQ?** Maximize cost savings, avoid losses, reduce risk and improve environmental compliance with our Microsoft Azure hosted cloud solution.

*"ioTORQ offers maximum integration and reporting flexibility, while balancing ease of use with complex energy management and process optimization functions."*
***Craig Holden - Panevo CEO***

- ✓ Hosting of 10Bn data points for 500 facilities
- ✓ $15M total annual savings identified
- ✓ Real-time analytics with Azure IoT hub
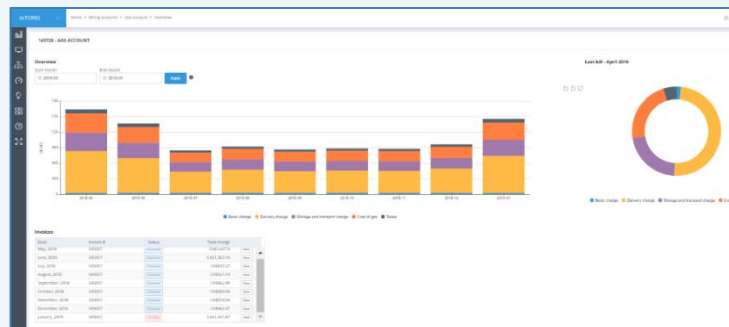- ✓ Over 99.9% uptime and unlimited scaling

# **ioTORQ** Applications

## Resource Management & Corporate Reporting

➢ Utilize flexible dashboards, advanced target setting and alerting to maximize utility savings, avoid losses, monitor emissions and manage waste.
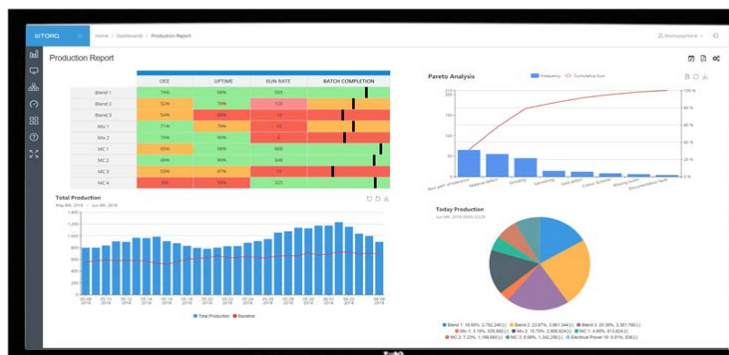
## Utility Bill Management

➢ Automatic utility bill processing, error checking, rate optimization analysis and procurement insights.

## Lean Manufacturing & Continuous Improvement

➢ Track production, monitor assets, report downtime, quantify losses and reveal continuous improvement opportunities.

# **ioTORQ** Features

## Advanced Analytics

Establish KPIs, generate intelligent targets, identify savings and perform project monitoring and verification.
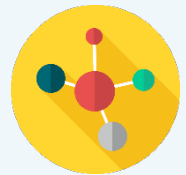
## Flexible Data Integration

Collect data from a wide range of locations, systems & formats, including: FTP(s), HTTP(s), process historians & IoT devices.

## User Customization

From asset monitoring to facility benchmarking, all reports, live dashboards and presentations are user customizable.

## Machine Learning

Our advanced analytics module utilizes machine learning algorithms to enable asset optimization and maximize cost savings.

## Automated Alerts

Set targets and receive real-time notifications to ensure optimal asset, area or departmental performance.

## Schematic Builder

Build system models, map on meter data and visualize performance with our intuitive schematic builder component.

# **ioTORQ** **Benefits**

## Energy & Resource Management

➢ Identify operational savings and avoid losses

➢ Identify capital equipment projects, perform M&V

➢ Deploy with ISO 50001 Energy Management System



## Utility Bill Management

➢ Identify errors and rate optimization opportunities

➢ Automate data aggregation for corporate reporting and benchmarking



## Lean Manufacturing & Continuous Improvement

➢ Deliver productivity and labour gains

➢ Identify downtime issues and quantify OEE
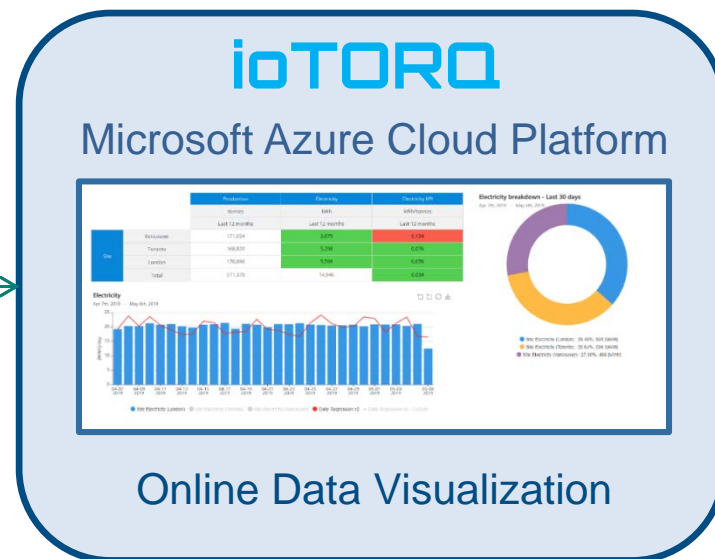
➢ Prioritize CI initiatives

# ioTORQ Infrastructure

**On site solutions**

- Process Historian
- Sub-Meters
- IoT Sensors
- PLC Network

**Off site services**

- Utility Meters
- Utility Bill Data
- Weather Data
- Supplier API

## ioTORQ
### Microsoft Azure Cloud Platform



### Online Data Visualization

## Supported services and protocols include:

➢ Data import from PLCs, SCADA, process historians and databases

➢ Connect devices with OPC, OPC UA, Modbus (RTU/TCP), MQTT and Azure IoT Hub

➢ Data export to enterprise data warehouses and visualization tools, such as Microsoft Power BI

➢ Flexible API to connect 3rd party client applications

# ioTORQ Customers

ACTEMIUM    BCFerries    BWXT BWX Technologies, Inc.    CN

Compass Minerals    FINNING CAT    LINCOLN ELECTRIC    PEPSICO CANADA FOODS - ALIMENTS

Saputo    TERRA Grain Fuels    TREE ISLAND STEEL    zayo

*"ioTORQ is our trusted energy management and reporting system"*

**Global EHS Standards Manager**

*"With ioTORQ we have delivered utility performance gains across our facilities"*

**Sustainability Director**

*"ioTORQ is our preferred Strategic Energy Management software platform"*

**Business Development Manager**

**Contact us today to arrange your free trial :**   info@iotorq.com   /   +1 604 563 4055   /   iotorq.com

➢ This global top 50 food & beverage processor is top 10 in their sector.

➢ Panevo has implemented ioTORQ along with Energy Management Systems at over one third of their Canadian facilities, resulting in the performance monitoring of around $20M/year of energy and water usage, along with key process variables.

➢ **With Panevo's support, the company is benefiting from over $2M of conservation incentives and is on track to achieve over $4M/year of ongoing cost savings.**

➢ **ioTORQ** continues to be utilized to avoid losses, identify utility conservation projects and determine process loss reduction initiatives, with further facility rollout planned.

*"Panevo has delivered significant cost savings across our facilities, while improving our environmental compliance"*

***Environmental Affairs & Sustainability Director***

# About PANEVO

**Panevo** is a Canadian based industrial energy management services and software company, offering:

## Services

- Utility & process conservation auditing
- Engineering and sustainability advisory
- Utility procurement
- Project delivery

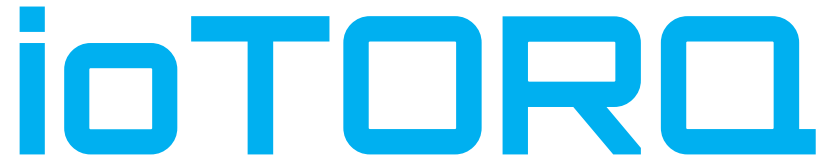## ioTORQ SaaS

- Energy management
- Corporate reporting
- Lean manufacturing
- Utility bill management

## Background

- ➢ Incorporated in 2013
- ➢ Offices in Vancouver BC and Toronto ON
- ➢ >400 projects completed

- ➢ Team benefits from >75 years experience
- ➢ >40 GWh/year of electricity saved, $15M/year total savings identified & $10M of incentives generated
- ➢ Microsoft Partner and Co-Sell participant

# ioTORQ

## Advanced utility and process optimization software



Contact us at :  **info@iotorq.com**  /  **+1 604 563 4055**  /  **iotorq.com**

*Panevo Services Limited*