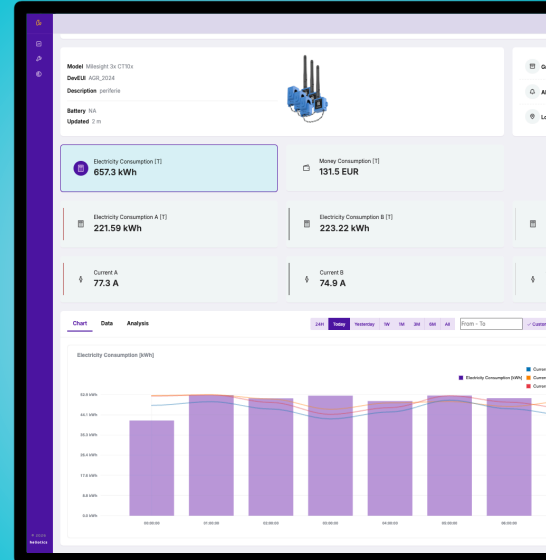


## What We Do

Heliotics delivers **real-time operations insights** using industrial wireless sensors, our private LoRaWAN network and web-based dashboards.

**No cables. No IT projects. No long deployments.**  
Built by people with deep operations experience.

- ✓ Industrial wireless, battery-powered sensors (up to 10 years)
- ✓ Private LoRaWAN operator – secure, long-range data transfer
- ✓ Web app with intuitive, ready-to-use dashboards
- ✓ Data & dashboards in 2 hours
- ✓ Low installation cost & fast ROI
- ✓ Affordable today, scalable tomorrow
- ✓ **Your 24/7 invisible employee for operational visibility**



## Why Heliotics?

### Simplicity

no IT, no hassle

### Speed

insights in hours

### Control

full visibility & real-time alerts

### Savings

money, energy, resources

## Use Cases



### Energy Monitoring

(consumption, idle waste)



### Air & Environment

(temperature, humidity, CO<sub>2</sub>, dust particles)



### Material & Levels

(tanks, silos, waste bins)



### Vibration & Condition

(motors, pumps, CNCs)



### Andon & Control

(issue reporting, device control)



### Assets & Cabinets

(open/close, shock, light)



# Case Study

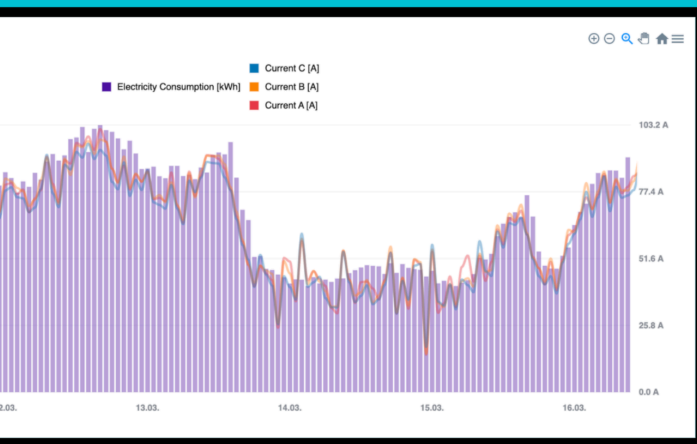
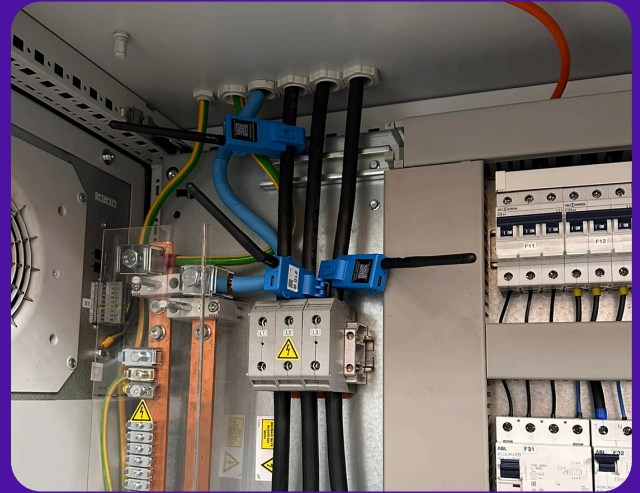
## Energy Monitoring & Utilization Optimization

### Problem:

High energy costs, unclear utilization, hidden peaks, reactive maintenance.

### What We Monitored:

- Energy per cycle
- Running / idle / off states
- Peaks & micro-peaks
- Long-term maintenance trends
- Efficiency differences between identical machines



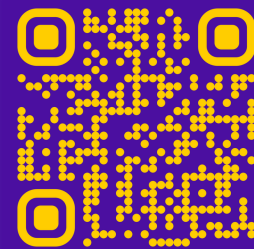
## Results

- ✓ 21% energy cost reduction
- ✓ €50,000 annual savings (10 machines)
- ✓ 17% fewer unplanned downtimes
- ✓ 11% lower maintenance costs

Efficiency gap found (1.24 vs. 1.5 kWh per cycle) → immediate correction

## Extended Impact

- Idle waste eliminated
- Lower contracted power fees
- Clear machine comparison for planning and calculations
- Early detection of cooling/wear/lubrication issues
- Higher overall equipment availability



Let's Find Your First Quick Wins