

Robotina d.o.o.

1. Company Overview

Robotina d.o.o., OIC 38, 6240 Kozina, Slovenia

- Established: 1990
- Private limited company (SME)
- Member of TECES partnerships
- Small enterprise (<50 employees)

Robotina is a control technology specialist with proprietary control and EDGE technology platforms. The company delivers advanced solutions across three core verticals:

- Energy
- Smart Spaces
- Industry

Robotina is a leader in energy efficiency and off-grid power solutions for both civil and defence applications. The company develops tactical microgrid controls and integrates diverse equipment into intelligent, resilient energy systems.

Website: www.robotina.com

2. Core Capabilities & Technologies

Robotina designs intelligent control systems and battery intelligence solutions for critical infrastructure and deployable energy systems.

Key Technological Strengths:

- Native control and EDGE computing platforms
- Tactical microgrid controllers (MIL-STD compliant systems)
- 800 V DC microgrid components
- Battery Energy Storage System (BESS) control
- AI-driven battery intelligence (SOX, State of Health monitoring)
- Hybrid diesel generator optimisation

- Mobile hybrid power supplies
- Smart building automation and digital transformation
- Predictive analytics and failure forecasting

Robotina integrates control, energy storage and generation systems into resilient and efficient microgrids for defence, industrial and commercial applications.

3. Product Portfolio Relevant for the Philippines

BTMS & BIQ: Battery Monitoring and Intelligence System

Advanced battery monitoring and AI-driven analytics platform for critical infrastructure.

- Continuous monitoring of Lead Acid, NiCd and Li-ion batteries
- State of Health (SOH) and SOX analysis
- AI-based failure prediction
- Decision-support tools
- Extension of battery lifetime
- Prevention of critical infrastructure failure
- Cost reduction and operational optimisation

Applications:

- Data centres
- Airports
- Banks
- Telecom networks
- Metro systems
- Defence installations

A military-grade version is planned for release by the end of 2026.

HYBROGEN: Hybrid Power Supply & Generator Hybridisation

Intelligent hybrid system for optimising diesel generator efficiency.

- Integration of smart controller and battery storage
- 30–50% increase in operational efficiency
- Significant fuel consumption reduction

- Demand-response capability
- Silent mode and reduced heat footprint
- “Battle switch” and mission-critical operational modes
- Suitable for forward bases, remote islands and border control

Applications:

- Military camps
- Remote communities
- Disaster-response sites
- Critical infrastructure backup
- Off-grid installations

Tactical Microgrid Controllers

- MIL-compliant device controllers
- Integration of renewables, generators and storage
- Scalable microgrid architecture
- Deployable camp energy systems
- Secure and resilient grid control

4. Target Sectors in the Philippines

- Department of National Defence
- Armed Forces of the Philippines
- Civil Defence and Disaster Risk Reduction authorities
- Data centre operators
- Airports and port operators
- Telecom providers
- Government and public infrastructure operators
- Hospitality and commercial building developers

5. Use Cases Relevant to the Philippines

Energy Resilience & Critical Infrastructure

- Battery intelligence for airports and telecom networks

- Failure prediction for data centres
- Optimised backup power for banks and financial institutions

Off-Grid & Island Power Solutions

- Hybridisation of diesel generators on remote islands
- Microgrid control for isolated communities
- Renewable integration with battery storage

Defence & Deployable Energy Systems

- Tactical microgrids for military camps
- Silent and fuel-efficient hybrid power for forward operations
- Deployable off-grid energy solutions for humanitarian missions

Smart Commercial Spaces

- Energy-efficient hotel and office automation
- Digital transformation of hospitals and commercial buildings
- Reduced operational expenditure through intelligent control

6. Competitive Advantages

- 30+ years of control technology expertise
- Proprietary EDGE and native control platforms
- AI-driven battery analytics and predictive maintenance
- Proven hybrid generator efficiency gains (30–50%)
- Experience in defence and dual-use energy programmes
- Strong presence in Europe, Asia-Pacific and MENA regions
- Scalable and modular system architecture

7. Reference Projects

- Dubai Airport
- King Salman Park
- Gulf Data Hub
- Honeywell projects
- Siemens collaborations

- Slovenian Ministry of Defence and Armed Forces
- Civil defence and industrial hybrid installations

8. Deployment & Cooperation Models

Robotina seeks cooperation in the Philippines through:

- Partnerships with system integrators (data centres, hotels, infrastructure)
- Distribution agreements for full product range
- Cooperation with UPS and battery manufacturers
- Government and defence procurement channels
- Local consulting and integration partners

Cooperation focus:

- Energy resilience and fuel reduction
- Critical infrastructure protection
- Tactical and deployable energy systems
- AI-based predictive maintenance
- Long-term local partnerships

9. Primary Contact

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