Company: VOX EPOWER (Vox Company Ltda.) **CIF/CNPJ: 48.760.021/0001-31**	
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Short Company presentation
(R & D guidelines, international activities, etc.)

Founded in 2022, VOX EPOWER is a Brazilian engineering and technology company specializing in electric vehicle (EV) charging infrastructure, digital platforms, and AI-driven energy management solutions.
Operating in Brazil and pursuing international expansion through Portugal, the company develops proprietary technologies, including VOX ECloud, its integrated charging management platform, and LumAI, an AI-powered intelligent agent designed to enhance user experience, monitor charging operations, predict demand, identify anomalies, and support data-driven operational decisions, when it is completely developed.
Its R&D activities focus on artificial intelligence, real-time data analytics, intelligent automation, and the optimization of EV charging infrastructure and energy management.

DESCRIPTION OF ITS TECHNOLOGY AND CAPABILITIES IN R & D
(Products, technologies, applications, services, etc.)

VOX EPOWER develops integrated hardware, software, and AI-driven solutions for electric vehicle (EV) charging infrastructure and intelligent energy management.

- VOX ECloud – EV Charging Management Platform: A digital platform connecting multi-vendor AC and DC charging stations through the Open Charge Point Protocol (OCPP). It enables centralized infrastructure management, real-time monitoring, remote diagnostics, payment integration, and operational analytics, supporting scalable and interoperable charging networks.

- LumAI – AI-Powered Intelligent Assistant: An AI-powered solution that enhances the charging experience and supports infrastructure operators through intelligent interactions, data interpretation, and operational assistance. Integrated with Vox ECloud, LumAI uses natural language processing and intelligent automation to facilitate charging, improve user support, and provide operators with insights from charging network data.

- ENERGY AI MARKET – Intelligent Energy Optimization and Digital Twin: A proposed R&D platform that builds on Vox ECloud and LumAI, incorporating predictive analytics and digital twin technologies to forecast energy demand, estimate charging station occupancy, simulate operating scenarios, and develop strategies to optimize energy consumption and infrastructure utilization.

- Engineering and Technical Services: VOX EPOWER also provides end-to-end engineering solutions, including EV charging infrastructure design, installation, commissioning, integration, operation, and maintenance.

R&D Capabilities: The company's technological development focuses on AI applications, IoT connectivity, real-time data acquisition, predictive modeling, intelligent energy management, charging infrastructure interoperability, and digital platform integration.

PROPOSED COLLABORATIVE PROJECT IN R & D

(As much detail as possible, both in what it offers and what you want in a potential partner)

- **Technology offered to international partners:** VOX EPOWER offers its expertise in EV charging infrastructure, interoperability, digital platform development, and AI-driven energy management. The company proposes integrating its proprietary VOX ECloud platform and LumAI intelligent assistant with international partners' charging technologies and operational systems. Its capabilities include OCPP-based connectivity, real-time monitoring, data acquisition, predictive analytics, and intelligent automation. The collaboration aims to advance the development of ENERGY AI MARKET, an intelligent platform combining artificial intelligence, energy forecasting, and digital twin technologies to optimize charging infrastructure performance and energy management.
- **Technology looking for an international partner:** VOX EPOWER seeks Spanish technology partners with expertise in advanced charging hardware, IoT sensors, artificial intelligence, machine learning, predictive energy modeling, and digital twin systems. Particular interest lies in collaboration with EV charger manufacturers, charging network operators, energy technology companies, and applied research institutions. The partnership should enable access to interoperable charging equipment, technical integration

capabilities, real-world operational datasets, and pilot environments to jointly develop and validate intelligent solutions for forecasting electricity demand, predicting charging station occupancy, optimizing infrastructure utilization, and improving energy efficiency.

- **Other specifications, requirements or comments:** VOX EPOWER seeks international R&D partnerships focused on technology integration, joint development, experimental validation, and knowledge exchange. Potential collaboration may include proof-of-concept projects, pilot deployments, AI model development, and applications for collaborative funding through Brazilian and international innovation programs.

  Technical responsibilities, access to equipment and operational data, data governance, intellectual property ownership, confidentiality, financial contributions, and validation criteria would be established through mutually agreed collaboration terms.

PROPOSED COLLABORATIVE PROJECT IN R & D:

Proposed project: Development and Validation of ENERGY AI MARKET: A National Artificial Intelligence Platform for Energy Demand and Electric Vehicle Charging Forecasting and Optimization

Objective: Jointly develop and validate an intelligent energy management platform integrating VOX ECloud, LumAI, artificial intelligence, predictive analytics, and digital twin technologies. The project aims to advance the development of ENERGY AI MARKET by combining real-time charging infrastructure data, energy demand forecasting, and intelligent decision-support tools to optimize charging operations, infrastructure utilization, and energy efficiency.

Roles and Responsibilities: VOX EPOWER would lead the integration of its proprietary VOX ECloud platform, contribute to the development of AI-driven energy management applications, and coordinate the proposed ENERGY AI MARKET architecture, data analytics, and platform validation. Spanish partners would contribute expertise in advanced EV charging technologies, energy management systems, AI algorithms, digital twin development, and access to representative charging infrastructure, technical data, and testing environments. Both teams would collaborate on system design, predictive model development, experimental validation, performance assessment, and knowledge exchange.

Expected Outcomes: Advancement of scientific and technological knowledge in AI-driven EV charging and intelligent energy management, including the development and experimental validation of predictive models, digital twin methodologies, and data-driven optimization strategies. The project is expected to generate structured experimental datasets, assess the applicability and transferability of AI models across different charging

environments, and establish technical foundations for future collaborative research and technological development.

Performance Indicators: The project would assess forecasting accuracy, peak-load reduction potential, charging station utilization, energy consumption, operational cost optimization, system interoperability, and predictive model transferability across different charging environments, using jointly established baselines and validation criteria.

Funding and Intellectual Property: The collaboration may be supported through joint R&D funding mechanisms available in Brazil and Spain, subject to applicable eligibility requirements. Project funding, technical responsibilities, data governance, intellectual property rights, and potential technology transfer arrangements would be defined through mutually agreed collaboration terms.

General comments:

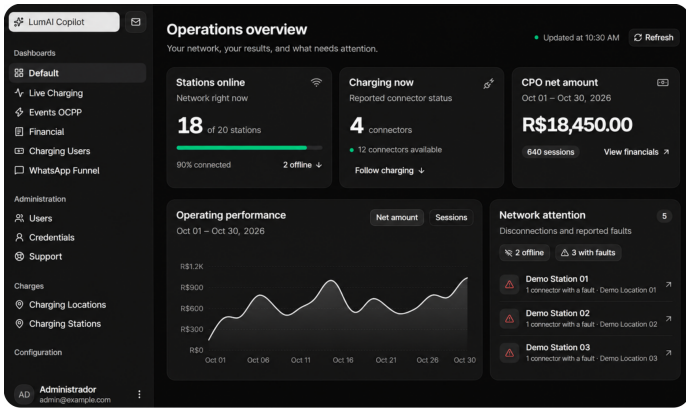
- By sending this information document authorizing its dissemination.
- A profile of the company must be attached

AI-Mobility for EV charging

Founded in 2022, VOX EPower is a Brazilian engineering and technology company developing proprietary software and artificial intelligence for electric vehicle charging. Its experience in AC/DC infrastructure deployment and operations informs the development of digital tools for charging network operators and drivers.

Vox ECloud

A white-label platform for managing charging networks under the operator's own brand. OCPP connectivity links compatible AC and DC chargers from different manufacturers.



Operational capabilities

Real-time charger monitoring and remote commands.

Session and payment management, pricing and operational analytics.

LumAI

The AI layer connected to ECloud serves both drivers and operators. Drivers receive charging guidance, payment assistance and session updates through WhatsApp, without a dedicated charging app. Operators use LumAI Copilot to ask questions in natural language and receive answers based on network data.



200+
Chargers installed

5,000+
Active users

#1 Startup
Google Cloud Bootcamp 2026

Installation figures refer to VOX's deployment experience, not chargers managed by ECloud. Active users refer to charging users across the VOX ecosystem.

R&D capabilities & international collaboration

Applied technology and engineering

VOX combines digital platform development, OCPP interoperability and IoT connectivity with charging infrastructure engineering. Its technical work includes operational data acquisition, systems integration and AI-assisted data interpretation, supported by experience in installation, commissioning, operation and maintenance.

ENERGY AI MARKET

PROPOSED RESEARCH & DEVELOPMENT PROJECT

ENERGY AI MARKET is a proposed R&D platform integrating ECloud and LumAI with predictive analytics and digital twin technologies. The research aims to forecast electricity demand and charging station occupancy, simulate operating scenarios and investigate ways to improve infrastructure utilization and energy efficiency.

Forecasting, digital twins and optimization are research objectives for joint development and experimental validation, rather than functions presented here as commercially available products.

Collaboration with Spanish partners

VOX seeks complementary expertise from charging technology companies, network operators and applied research organizations. It would contribute its proprietary platform, integration expertise and Brazilian operational experience to jointly define and validate the solution.

AI & predictive models

Energy demand and occupancy forecasting, model assessment and transferability across charging environments.

Digital twins & integration

Simulation methods, interoperable equipment, IoT sensors and integration with operational systems.

Data & validation environments

Representative operational datasets and pilot sites for proof-of-concept testing and performance evaluation.

Technical roles, data access, confidentiality, intellectual property and validation criteria would be agreed jointly. Funding arrangements remain subject to the applicable programmes and collaboration terms.

Institutional contact

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