

Feyree Smart Wallbox with App Control Showcased at Dubai Electricity and New Energy Exhibition 2024



Shenzhen, Guangdong Aug 27, 2026 ([IssueWire.com](https://www.issuewire.com)) - The Middle East EV charging infrastructure market has expanded rapidly as Gulf countries invest in electrification and renewable energy integration. Smart charging solutions that offer remote management, load optimization, and user analytics have become a priority for regional distributors and utility partners evaluating technology suppliers. At the Dubai Electricity and New Energy Exhibition 2024, Feyree presented its [smart wallbox series](#) with app-based control as a practical solution for residential and commercial installations across the region.

Dubai Exhibition as a Gateway to the Middle East EV Market

The Dubai Electricity and New Energy Exhibition serves as a platform connecting EV charging technology providers with regional distributors, utility companies, and infrastructure developers across the Middle East and North Africa. For Feyree, participation in the 2024 edition provided an opportunity to demonstrate how its smart wallbox series addresses the specific requirements of the regional market. Three operational challenges define the smart charging solution requirements for this region:

Equipment reliability in high-temperature and dusty environments — the IP65 or IP66 weatherproof enclosure protects against dust ingress and water jets, the charging cable uses 99.95 percent pure copper conductors with TÜV-certified TPU insulation that resists UV degradation and abrasion, and the enclosure materials meet UL94 V-0 flame-retardant standards, with an operating temperature range of -30°C to +55°C covering the Gulf's extreme summer conditions.

Grid load fluctuations and household appliance conflicts — dynamic load balancing continuously measures total household current draw and adjusts charging power in real time, with three configurable strategies (single-phase monitoring, three-phase per-phase monitoring, and three-phase aggregate monitoring). The charger supports adjustable current from 8 A to 32 A across single-phase and three-phase configurations, along with wide voltage compatibility (85 V to 264 V single-phase, 160 V to 450 V three-phase, 50/60 Hz).

Complexity of multi-country certification and cross-market deployment — the wallbox series carries CE, RoHS, FCC, and UKCA approvals, along with IEC 61851-1 compliance, allowing the same hardware platform to serve markets across the Gulf Cooperation Council, Europe, and the United Kingdom with connector changes rather than full product redesigns.

Smart Wallbox Features for Remote Charging Management

Feyree's smart wallbox series integrates remote app control and charging management through the Tuya Smart and Smart Life mobile applications, enabling users to start and stop charging sessions, schedule charging during off-peak tariff periods, and monitor real-time charging data including voltage, current, power output, and session energy consumption from any location. The wallbox supports over-the-air (OTA) firmware updates, allowing new features and security patches to be delivered remotely without requiring on-site technician visits — a practical advantage for distributed installations across the Middle East region where travel distances between installations can be significant. The mobile application interface can be branded for OEM partners, enabling distribution networks to offer their own white-label charging experience. Detailed specifications for the wallbox series are available at the [Feyree Taurus wallbox product page](#).

DLB and Adaptability for Regional Grid Conditions

For installations managed through app control, the wallbox provides real-time visibility into charging status. Middle East residential and commercial electrical installations include both single-phase and three-phase configurations, often shared with high-power appliances such as air conditioning units, water heaters, and refrigeration systems. Feyree's dynamic load balancing (DLB) technology addresses this by continuously measuring the total household current draw through a CT sensor clamped around the mains feed cable and communicating via RS485 to the wallbox. When total load approaches the circuit breaker threshold, the charger automatically reduces its output; when the load drops, charging power increases. Two selectable DLB strategies accommodate different installation types: single-phase monitoring for residential setups, three-phase per-phase monitoring for unbalanced loads, and three-phase aggregate monitoring for installations where the goal is maximum total power utilization. The system pauses charging automatically when available current falls below 8 A and resumes when capacity returns. These features are integrated alongside Type B residual current protection (AC 30 mA and DC 6 mA) and IP65 or IP66 enclosure ratings, ensuring reliable operation in the Gulf's high-temperature, dusty outdoor conditions.

Certification Readiness for Multi-Market Distribution

Smart wallboxes displayed at the Dubai exhibition carry a certification portfolio designed for multi-region distribution. CE marking covers the European Union's Low Voltage Directive and EMC requirements,

RoHS confirms the elimination of restricted hazardous substances, FCC approval enables entry into the North American market, and UKCA covers the United Kingdom, with products designed in accordance with IEC 61851-1 for conductive charging systems. The charging cable assembly in these units uses 99.95 percent pure copper conductors, a TÜV-certified TPU jacket for independent safety and durability verification, and silver-plated connector pins. With an operating temperature range of -30°C to +55°C, these wallboxes are built to perform reliably from European winters to Gulf summers. Complete certification documentation is available for buyer verification through the [official website](#).

Wallbox Series Suitable for the Middle East Market

Feyree's [Taurus wallbox series](#) combines DLB with RFID card access control, WiFi and Bluetooth connectivity, and an IP66 weatherproof enclosure, supporting 7.6 kW, 11 kW, and 22 kW power levels across Type 2, Type 1, NACS, and GB/T connector variants. The Pisces series adds a 4.3-inch LCD color screen that displays real-time charging data and maintains a 500-record charging log and 100-record fault log locally on the device. Both series are compatible with electric vehicles using Type 2 charging ports, including Tesla, BMW, BYD, Volvo, and Volkswagen models, and are backed by a two-year warranty covering core components. For regional distributors and utility partners evaluating products at the Dubai exhibition, the combination of remote app control, adaptable DLB strategies, multi-market certification, and documented material quality provides a verifiable reference point for supplier qualification.

For regional partners evaluating smart wallbox technology, the combination of app control and certification coverage creates a practical solution for multi-market distribution. The Middle East EV charging market continues to expand as Gulf countries advance their electrification targets. Smart wallbox solutions that combine app-based remote control, dynamic load management, and multi-market certification coverage will play an increasing role in residential and commercial charging infrastructure across the region. Feyree's presence at the Dubai Electricity and New Energy Exhibition 2024 offers distributors and infrastructure developers a concrete reference for evaluating smart charging technology suitable for the regional climate, grid conditions, and regulatory landscape.

More information regarding smart wallbox specifications and Middle East distribution programs is available at the official company website: <https://www.feyree.com/>.



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