GoParkin™

ELECTRIC VEHICLE CHARGING SOLUTION

ST Engineering

GoParkin™ Electric Vehicle Charging Solution

The future of mobility is electric. Demand for electric vehicles (EV) and charging solutions is growing globally as the cost of EV batteries decreases, technology advances and more countries are driving EV adoption by introducing incentives and setting sustainability targets to combat challenges from climate change.

ST Engineering's end-to-end GoParkin Electric Vehicle Charging solution comprises a modular EV management platform that supports a charging infrastructure catering to different charger makes and models. It is integrated with the GoParkin mobile app that enables seamless payment and convenient access to real-time charging information.

The versatile solution enhances operational efficiency and provides flexible EV operating models that are suitable for fleet owners, charge point operators, car park operators and property owners. It helps them to fully embrace the benefits of EVs that are cheaper to run and maintain compared to internal combustion engine vehicles.

By implementing a low carbon strategy with the switch to EVs, businesses are better poised to achieve their operational and sustainability goals, while contributing to a smarter and greener landscape.
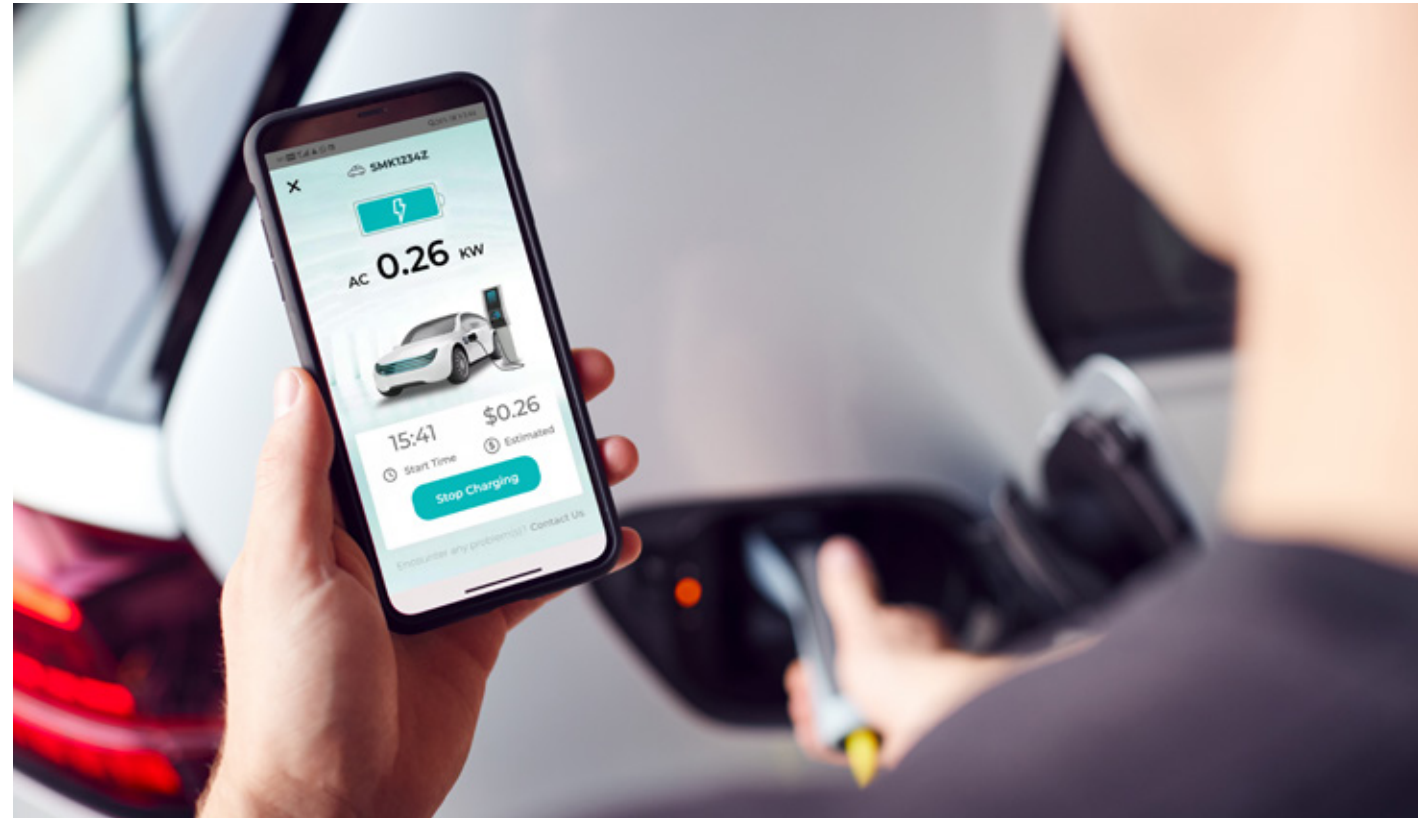
Key Challenges

The need for
- Comprehensive suite of EV charging solutions and services
- Seamless data to bill processing
- Reliable load management to ensure safe operation within power capacity
- Scalable and future-proof solution to meet various operational needs
- A versatile EV charging solution that connects with different operators and systems

Key Capabilities

- Modular and secure cloud-based EV management platform that supports various charging infrastructures
- User-friendly GoParkin mobile app integrated with payment options and e-transactions
- Unified management of operations and maintenance
- Platform is independent of charger models
- Support multi-tenant/operator access
- 24/7 customer service (optional)
- Installation and preventive maintenance services (optional)

Key Benefits

Faster deployment
- Easy-to-customise EV charging solution that can be put into operation within weeks instead of months

Increase operational efficiency
- Scalable and modular EV charging solution that can be customised to meet the business and operational needs of EV operators and fleet owners

Uninterrupted fleet operations
- Ensure fleet has enough charge for scheduled tasks through dynamic load management and range monitoring
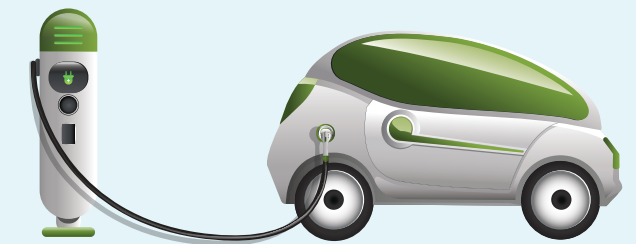
Access to wider network of chargers and end-user base
- Uses standard Open Charge Point Interface (OCPI) to connect seamlessly with other e-Mobility Service Providers (eMSPs). EV drivers can access a wider network of chargers while EV operators can increase their user base

Minimise downtime with remote diagnostics
- Real-time monitoring with fault-recovery algorithms to reduce operation disruption and maintenance effort

Key Features

Simplified Network Management
- Real-time operations overview
- Suitable for individual / fleet charging behaviour
- Fault detection and remote troubleshooting

Flexible Tariff Management
- Charging per kWh (or charging per minute), off-peak pricing
- Promotion and rebates
- Idle fee collection to encourage lot turnover

Maximise Charger Usage
- Queue management optimisation
- Lot reservation

Seamless Billing and Payment
- Transaction overview of individual EV / EV fleet
- Payment processing
- Per charge management or account-based processing

Dynamic Load Management
- Manage different sources of power
- Remote management of charging speed
- Rule-based power allocation (first-in, first out and equal-share)

Easy Integration with Other Systems
- Leverage open APIs to integrate with enterprise resource planning (ERP) systems, fleet management systems, building management systems, energy storage systems, energy management systems, preferred payment service providers and proprietary systems
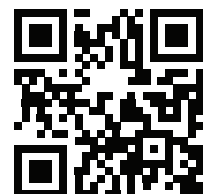
Redefine Smart Car Park Management with EV Charging

ST Engineering's GoParkin Smart Car Park Suite integrates car park management with EV charging, enabling owners and operators to easily monitor their parking and charging operations through a unified dashboard. Drivers can access both parking and charging services, and make payments through a single mobile app, while fleet owners can use our management platform to ensure their vehicles meet their daily schedules.

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