Ev charging simulator

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Welcome to the documentation for the Electric Vehicle Charging Toolkit, a comprehensive package that includes both the EV Charging Simulator and the EV Charging Assets projects. This toolkit provides tools, models, and simulations for managing and simulating electric vehicle charging infrastructure and assets.

Import the Package: Import the toolkit package into your Python project nfigure Charging Scenarios: Set up and configure charging scenarios n Simulations: Execute simulations and analyze results.For detailed instructions and code examples, visit the Getting Started guide.

EV Charging SimulatorThe EV Charging Simulator project allows you to simulate EV charging scenarios, user interactions, and grid integration. Explore this section to learn more:

Usage ExamplesExplore various usage examples and scenarios in the Usage Examples section. Learn how to simulate common EV charging situations, analyze results, and integrate the simulator into your projects.

API ReferenceRefer to the API Reference for comprehensive documentation of the simulator"s classes, methods, and attributes. This section provides in-depth technical information for developers and users who want to customize or extend the simulator.

ConfigurationThe simulator allows for flexible configuration to adapt to different use cases. Learn how to configure charging scenarios, user behavior, and grid parameters in the Configuration Guide.

Custom Charging ProfilesReal-Time InteractionGrid Integration StrategiesThese topics provide insights into advanced usage and customization options for the EV Charging Simulator.

ModelsReview the available Pydantic models for EV charging assets in the Models section. These models can be used to validate, serialize, and work with data structures commonly found in EV charging stations.

ContributingWe welcome contributions from the community! If you"d like to contribute to the Electric Vehicle Charging Toolkit project, please review our contribution guidelines to get started.

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If you have your own data set of EV charging sessions or you have already built your EV model with evprof, the best place to start is the Get started chapter in the package website.

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(Catalonia) in collaboration with Resourcefully, an energy transition consulting company based in Amsterdam, The Netherlands.

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