ABB Ability™ Energy Management for Sites

OPTIMAX® for Smart Charging

Smart Energy Management for EV Charging

MODULE	Essential	Adaptive	Predictive	Site EMS
FEATURE	**For sites with a fixed charging allocation:** - Optimally use your allocation in line with remaining budget, vehicle battery needs, site schedules, etc. - Protect equipment and the safety of your site by never exceeding your limitations - Easily change the static limit of charging	**For sites with dynamic and changing charging needs:** - Optimally and cost effectively adapt EV charging capacity based on based on site consumption - Advanced monitoring for grid usage - Option to include in the optimization: - Battery (BESS) as a load booster - Solar monitoring and visualization - Additional on site flexible loads	**For large EV fleets, bus and service centers:** - Optimally charge your fleet based on power price, weather, load predictions and fleet schedules - Plan your fleet schedules based on energy prices and grid peaks - Advanced monitoring and visualization of site energy consumption	**For sites with on-site generation:** - Monitor, manage, and optimize on site energy generation and consumption - Leverage predictive scheduling and forecasting - Scale production based on energy needs - Option to include in the optimization: - PV Solar; BESS; CHP; Flexible loads - Renewable & Grid forecasts - Demand Response calls
BENEFIT	• Improved safety • Never exceed your grid limit • Avoid overloading your circuit • Reduce likelihood of a grid extension	• Flexibility to meet your site needs • Maximized charging power • Avoid overloading your circuit • Reduce energy costs	• Reduce energy costs • Reduce grid extensions • Safe and optimal control • Enable data based decision making	• Maximize on-site generation • Reduce energy costs • Safe and optimal control • Enable data based decision making

A solution to fit the needs of every charging application