

Energy Management

Reduce Operating Expenses with a Reliable and Sustainable Solution

With EV Connect's Energy Management features, businesses can reduce their utility bills, avoid electrical infrastructure upgrades, participate in Demand Response (DR) programs to earn money, fulfill incentive requirements, and help maintain the stability of the grid.

How It Works

1 Establish Energy Management Policies Based on Smart Load Balancing Options:

Proportional Load Sharing: Each active charging session receives a proportional percentage of the available power limit, scaled by the rated capacity of charging stations.

Fleet Optimization: Each active charging session is assigned with a power limit to ensure that vehicles are prioritized by departure time and are charged first. When a fleet vehicle connects to a charging station, EV Connect balances power limits across the station group to ensure on-time departure.

2 Set Power and Current Limits to Station Groups

So, you do not exceed the power available and cap the energy used at any given time to avoid peak demand charges.

3 Schedule Specified Charging Time Windows

Delays charging until cheaper periods.

4 Review Real-time Energy Data

With configurable filters by time, interval, power, location, and station groups.



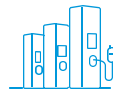
Ensure vehicles are fully charged while optimizing your energy costs with load balancing across your fleet.



Lower your utility bill by setting power thresholds to avoid peak demand charges and shift charging to less expensive time periods.



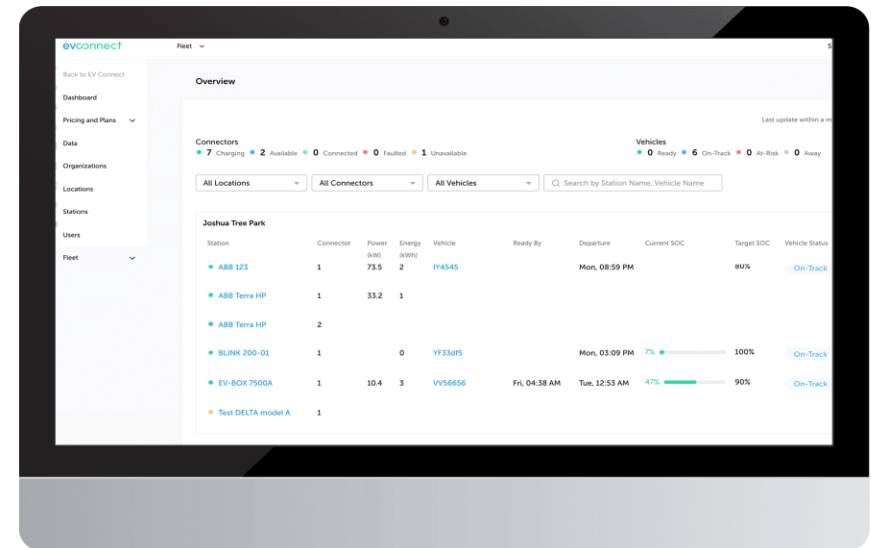
Avoid demand charges and earn money by shedding load with Utility Grid Services and Demand Response events.



Add more charging stations to your property without having to invest in additional infrastructure upgrades.



View real-time data and aggregate energy utilization data by location and station groups over time.



Load Management

Dynamic Power Sharing

Avoid the need for costly infrastructure upgrades and risk of installation tripping by efficiently managing the power used by EV charging stations. With EV Connect's software, we can specify a maximum current setpoint based on your site's load constraints.

The power sharing feature can dynamically throttle down and balance power across your stations to ensure total load never exceeds the maximum.

How It Works

1 Max Current Setpoint Defined

Determine the maximum amperage available from the panel.

2 Charging Occurs

Each station will utilize full capacity until the maximum set point.

3 Load Management Starts

Dynamic power sharing occurs amongst active charging stations.

Distribution depends on relative amperages of the stations.

