

TimberRock EVC™ - Electric Vehicle Solar Charging Station

Don't Charge a Clean Car with Dirty Electricity

product overview

The introduction of production electric vehicles (EVs), takes the first steps toward reducing dependence on foreign oil and its negative economic and environmental consequences. However, the challenge of providing ubiquitous and clean EV charging infrastructure remains.

The TimberRock EVC™ addresses this challenge and is suitable for private residences, public or commercial parking lots and government facilities. The system integrates a sophisticated charging station and a grid-tied solar PV system providing an optimal solution.

benefits

By integrating solar energy generation and EV charging numerous benefits are achieved:

- High visibility solar canopies demonstrate the facilities commitment to sustainability
- Cost effective means of providing EV charging infrastructure
- Strong payback via solar electricity generated and back-feed to the building even in the early phases of EV adoption
- Significant beneficial impact on LEED certification effort ("Leadership in Energy and Environmental Design")
- EMS⁴ software allows management and web-based monitoring by facilities management

residential - 100% green power

For most EV owners the best charging location is at home. With a grid-tied installation, the TimberRock EVC™ provides the ideal solution and can be sized to satisfy 100% of the EV's power requirements. All energy harvested during the day, when the vehicle is not present, is fed to the grid for a credit, while in the evening the electricity is retrieved back, essentially at no cost.

government, institution and corporate fleets

Procuring a fleet of electric vehicles for a facility campus or organization is only part of the solution. Solar-based charging completes the picture achieving dramatic reductions in the environmental impact and operating costs of a fleet. The TimberRock EVC™ can be sized to fit any fleet and can be centralized with multiple charging bays or stand-alone systems can distributed across a campus, facility or city.

commercial and business parking

Company employees will need a place to charge their EVs, as will customers of airports, hotels and shopping centers. TimberRock offers a turn-key, six-vehicle solution. The systems has 15kW of solar energy generation capacity which can reduce a facility's total energy costs. An integrated EV charging meter allows access control, sophisticated monitoring and billing options.





product specifications

The TimberRock EVC conforms with all applicable building and electrical codes and are provided with PE-stamped drawings for permitting purposes.

- The structure is designed for 90 mph class (b) wind loads and 30 psf snow loads
- All PV, inverter, EV charging components are UL-listed and conform to the NEC
- Installations are performed by licensed and insured contractors

