



Electric Vehicle (EV) Charging Qualifications

Since 1986, Arora Engineers (Arora) has been Rethinking Infrastructure®, delivering innovative engineering solutions across transportation, aviation, education, and commercial sectors. Our expertise in electric vehicle (EV) charging infrastructure is built on decades of experience designing complex electrical and technology systems that prioritize sustainability, resilience, and seamless integration.

As demand for sustainable transportation solutions accelerates, clients require more than just EV charging stations—they need future-ready infrastructure that supports evolving technology, adapts to user behavior, and meets increasingly rigorous environmental goals. Arora delivers this through end-to-end services including power load analysis, layout and routing, utility coordination, cost estimation, and construction-phase support. We also specialize in integrating smart systems for usage monitoring, network connectivity, and long-term maintainability.

Arora is proud to be nationally recognized for excellence in transportation and infrastructure design. In 2024, Arora ranked #19 on Building Design+Construction's (BD+C) list of Top Transit Facility Engineering Firms and #22 among Top Parking Structure Engineering Firms. Arora also earned the #9 spot on BD+C's 2024 Top Airport Terminal Engineering Firms list and ranked #36 among the Top 75 Engineering Firms. Additional accolades include being named to the INC. 5000 list of fastest-growing companies, CSE Magazine's MEP Giants, and consistently ranking in Engineering News-Record's Top 500 Design Firms.

Arora was proud to support the Port Authority of New York and New Jersey in **developing the world's first centralized, all-electric Ground Support Equipment (GSE) fleet at the New Terminal One at JFK International Airport**. Our team provided engineering, project controls, and construction phase services for high-capacity EV infrastructure, including a 2,000kW eGSE Level 3 system for 120 vehicles and a 1,000kW Level 3 electric bus charging system. This initiative serves as a model for combining operational efficiency with aggressive carbon reduction goals.

Arora also installed 24 EV charging stations at Philadelphia International Airport and Center City garages in partnership with the Philadelphia Parking Authority. At Hartsfield-Jackson Atlanta International Airport, Arora delivered EV infrastructure for the new West Parking Garage and contributed to strategic planning aligned with ATL's 100% renewable energy goals. Across numerous airports and facilities nationwide, our work reflects a deep understanding of the unique demands of EV infrastructure.

Together, these efforts demonstrate Arora's unmatched ability to design and deliver cutting-edge utility systems and sustainable infrastructure that power the future of electric mobility.



Rethinking Infrastructure®

aroraengineers.com

Selected Project Experience



◀ Philadelphia Parking Authority, Electric Vehicle Charging Stations, Philadelphia, PA

Provided engineering design services for twenty four Level II EV charging stations at the PHL airport and other various garages in center city Philadelphia locations in conjunction with the Philadelphia Parking Authority. Design services included generation of the EV charging station installation Basis of Design documents, field investigations of the various locations to determine the adequacy of available power supplies, assessment of the proposed locations for constructibility issues, and analysis of cellular connection capabilities for EV charging station wireless payment interface.



◀ Allegheny County Airport Authority – Multimodal Center/Consolidated Rental Car Facility, Pittsburgh International Airport, Pittsburgh, PA

The TMP Landside projects include a new, billion-dollar 700,000 SF terminal that consolidates ticketing, security checkpoints and baggage claim, and multimodal complex that includes a new 3,300-space parking garage connected to the Landside Terminal by two pedestrian bridges, rental car facilities and entrance roadways designed to improve the passenger experience. Arora's scope of work included the Parking Garage electrical distribution and equipment/system power connections to provide a fully functional electrical system including thirty three Level II EV charging stations. Arora was also responsible for the coordination of Charger equipment and installation.



◀ Port Authority of New York and New Jersey, New Terminal One, John F. Kennedy International Airport, Queens, NY

As a key member of the design/build team for the New Terminal One at JFK, Arora provided engineering, project controls, and construction phase services to support the development of the global first centralized, all-electric Ground Support Equipment (GSE) fleet. This landmark initiative serves as a cornerstone of the Port Authority's goals to achieve net-zero emissions, combining sustainability with operational excellence. Arora's scope of work includes a 1200KW Level 3 EV charger system that we are specifying, a 1000KW Level 3 Electric Bus Charging system as well as the 2000KW eGSE Level 3 system for 120 vehicles.



◀ City of Atlanta, Domestic Terminal Parking Decks Reconstruction & Replacement, West Parking Deck, Hartsfield-Jackson Atlanta International Airport, Atlanta, GA

As part of the Joint Venture Team, Arora provided electrical (power and lightning) design services for the West Parking Deck to provide additional parking for approximately 6,000 vehicles. Arora's scope of work included EV charging station design and electrical Infrastructure as well as coordination of Electric Vehicle equipment and installation.



◀ City of Atlanta, Facility, Asset Management and Sustainability (FAMS) On-Call, Hartsfield-Jackson Atlanta International Airport (ATL), Atlanta, GA

Arora was subcontracted to provide engineering assessment and planning services to the Haley Aldrich Jacobsen Daniels Joint Venture team in the development, support, and implementation of programs in support of ATL's 100% Renewable Energy Plan. Tasks under this on-call agreement included electrical engineering services for EV charging station telemetrics, as well as an electrical evaluation and interior electrical routing services for an EV charging station infrastructure plan. Arora reviewed existing electrical infrastructure conditions and facilities and provided schematics of electrical utilities and provided plans for EV charging station options and locations with strategic 'smart growth' and design for future installations and anticipated parking demand considerations. In addition, our team provided a review of existing electrical infrastructure near two re-charger locations that could accommodate future electric shuttle buses.

