



VEHICLE ELECTRIFICATION SERVICES

DKS Associates, an employee-owned transportation planning and engineering firm, provides a range of smart mobility services including Electric Vehicle Supply Equipment (EVSE) planning and design for public and transit agency fleet electrification, charging infrastructure master planning, and charging infrastructure siting and design.

FLEET ELECTRIFICATION
 Comprehensive vehicle and charging infrastructure planning to convert light, medium, and heavy-duty vehicles to electric propulsion.

EVSE DESIGN
 Infrastructure design for Level 2, DC Fast, and high power chargers including cost estimation, construction documentation, coordination with local utilities and EV charging networks.

TRANSIT ELECTRIFICATION
 Bus electrification planning including battery charging infrastructure alternatives, electrical substation feasibility, technology planning, operations and environmental review.

EV INFRASTRUCTURE PLANNING
 Strategic selection of sites for fleet, workplace, residential, public right-of-way, destination, and shared mobility EV charging based on travel demand expertise.



SERVICES PROVIDED:**TRANSITIONING METRO NON-BUS FLEETS TO ZERO EMISSIONS – FEASIBILITY STUDY**

Developing a strategic roadmap for transitioning King County Metro Transit's non-bus fleets to electric vehicles. Fleets include light, medium and heavy-duty non-revenue fleet vehicles (NRV), ACCESS paratransit fleet, and the nation's

largest rideshare operation. This effort includes support for a feasibility study, implementation plans, and decision support tools to increase fleet fuel efficiency and alternative fuels use in order to reduce greenhouse gas emissions.

CITY OF SEATTLE ELECTRIC VEHICLE SUPPLY EQUIPMENT SYSTEMWIDE ASSESSMENT

Assisting the City of Seattle implement its Climate Action and Green Fleet Action Plans by converting the majority of its 4,100-vehicle motor pool to an all-electric fleet. DKS is evaluating the City's existing facilities and electric load

capacity and planning charging infrastructure upgrades at 136 separate locations, conducting internal stakeholder engagement, estimating implementation costs and recommending EV and charging technology.

EAST BAY COMMUNITY ENERGY MUNICIPAL FLEET ELECTRIFICATION STUDY

Determining vehicle energy requirements and charging needs for the municipal fleets of the cities of Oakland, Berkeley, Dublin, Hayward, and Albany, California, including estimation of fleet electrical load calculations and associated charging infrastructure requirements, and cost

evaluations for infrastructure upgrades at each fleet facility. This evaluation will also recommend innovations such as dynamic load management, public charger sharing, mobile chargers and other technologies.

SOUTH SAN FRANCISCO ELECTRIC VEHICLE SELECTION

Evaluating and recommending battery electric (BEVs) and plug-in hybrid vehicles (PHEVs) for use by South San Francisco's fleets. The report will dovetail into South San Francisco's Electric Vehicle Charging Masterplan,

addressing the future of vehicle technology with subsequent periodic updates as new EV products become available to ensure the EV Masterplan's relevance as a living document.

CITY OF FREMONT ELECTRIFICATION STUDY FLEET

Assessing opportunities for fleet vehicle conversion to plug-in battery electric options, including the role of solar photo voltaic (PV) renewable energy systems paired with

energy storage systems (ESS) to electrify Fremont's 500+ vehicle municipal fleet.

ELECTRIC VEHICLE CHARGER DESIGN: ELUMINOCITY

Providing EV infrastructure design services for Eluminocity, helping the City of Seattle implement the Electric Vehicle Charging in the Right of Way (EVCROW) program. Performing engineering for Level 2 and DC Fast Chargers,

including installation design and design review; facilitating compliance with City of Seattle street use requirements including permitting of EVSE.

SERVICES PROVIDED:

KING COUNTY FERRY TERMINAL ELECTRIC VEHICLE CHARGER DESIGN

Providing technical support for this King County Metro RapidRide On-call, which included implementing two

electric charging stations at the Fauntleroy Ferry Dock in Seattle.

KING COUNTY METRO TRANSIT BASE ELECTRIFICATION

Leading the project design team's bus electrification planning, including battery charging infrastructure, electrical substation feasibility, technology planning, operations and environmental review in Metro's new transit base in Tukwila,

WA. This facility is expected to be the first large scale all-electric bus base in the Pacific Northwest, serving as a design prototype for transit electrification.

ELECTRIC BUS CHARGING INFRASTRUCTURE FOR SONOMA AND MENDOCINO COUNTY PLANNING & ENGINEERING STUDY

Helping Sonoma Clean Power Authority perform transit electrification study for Santa Rosa CityBus, Sonoma County Transit, Petaluma Transit, and Mendocino Transit Authority.

DKS is overseeing evaluation of electrical infrastructure capacity, fleet characteristics, duty cycles, and operating environments.

CITY OF SACRAMENTO EV IMPLEMENTATION BLUEPRINT

Developing pathways to achieve the City of Sacramento's EV Strategy goal of 75,000 Zero Emission Vehicles (ZEVs) in the city by 2025. DKS is preparing a public charging prioritization plan; recommending EV charging infrastructure

upgrades to optimize access to charging infrastructure; preparing an EV Toolkit, EV Deployment Plan, and advanced EV Mobility Opportunities Report.

SOUTH SAN FRANCISCO ELECTRICAL VEHICLE CHARGING STATION MASTER PLAN

Conducting needs assessment, defining alternatives, and developing plan to electrify virtually all the City's work sites and public facilities. Developing a hierarchy of priorities to

guide site selection, as well as a timeline to phase deployment of EV chargers throughout the city, more than doubling the number of EV chargers.

TO LEARN MORE, PLEASE CONTACT:

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