



Electro Mobility: *Economic Markets + Wider Impacts*

Infrastructure for electric vehicles is still underdeveloped at the present time and must experience significant growth in coming years if it is to keep up with the growth in sales of electric vehicles and develop its energy and mobility potentials. EDR Group is leveraging the global leadership of our affiliate EBP, to offer economic expertise in market analysis, forecasting and infrastructure investment planning for electric vehicles and charging stations, and evaluation of their wider mobility and economic impacts.

Feasibility and Prioritization of Fast Charging Stations to Support Long Distance Travel for Zero Emissions Vehicles. EDR Group, in association with our affiliate EBP and Stantec, has been assessing the feasibility of deploying fast charging stations on state property to support long distance travel for zero emissions vehicles (ZEVs) across Massachusetts. The study focuses on major travel corridors that facilitate long-distance travel, including work to: (1) assess market development, adoption rates and appropriate level of investment to support ZEV market growth; (2) determine where MassDOT can potentially fill gaps in the existing fast charging system for long distance ZEV travel on major corridors; (3) prioritize sites for hosting fast charging stations; and (4) estimate costs for deploying charging stations at the best suited sites. This work builds on electric vehicle adoption and use models first developed in Europe by our affiliate EBP.

E-Mobility Guidelines for Municipalities. Our affiliate EBP developed guidelines, offers courses and drafts action plans for municipal governments to support adoption of electric vehicles. Topics covered:

- *Planning.* How can cities develop and introduce measures promote the use of electric vehicles? What planning instruments and legal statutes can be applied?
- *Roles.* What can cities do to become effective role models by defining mobility concepts and implementing public-sector vehicle fleets and charging stations.
- *Information and consulting.* What communication channels (information networks, events, campaigns and incentives) can cities use to inform residents and target groups, especially real estate developers and operators as well as parking space facilities?
- *Infrastructure and services.* How can cities manage use of electric vehicles via public-private partnerships for publicly accessible charging stations and supportive sharing services.

Business Plans for Electric Vehicle Adoption. For a major energy supplier, EBP conducted a market analysis to identify attractive business fields and market niches for electric vehicle charging facilities, and a marketing strategy incorporating service design, site identification and pricing. For a major real-estate developer, EBP drafted specifications for the installation of charging stations on private property. This included surveying the needs of prospective tenants and defining appropriate types of charging technology, billing systems, space reservation systems, and investment levels. For a public bus operator, EBP supported the decision process for selection of charging infrastructure for battery electric buses.