Reducing oil supply risk and CO2 carbon emission has became the major concern of governments in transportation sector. Electric Vehicle is one of the reliable way to decrease the dependence of transportation system on crude oil and reduce the greenhouse gases emission. the development of electric vehicle market has a close tie to electric charging infrastructure development in order to satisfy the charging needs of the electric vehicle and motivate more people to purchase electric vehicles.

In the first part of this report ,for better understanding of global outlook of electric vehicle charging infrastructure, we presented the current situation of electric vehicle market and electric vehicle charging market , current electric vehicle charging technology situation ; electric vehicle charging architecture and regulation.

Furthermore, this report has studied two successful charging companies; CHAdeMo and Charge point, and one unsuccessful charging company, Better Place. Then we have studied California’s and Estonia’s electric vehicle charging situation and challenges.

Based on current electric vehicle charging situations and case studies, this report has concluded 5 major effecting factors and analyzed how each of these factors can effect electric vehicle charging future path.

At the end, this report according to the systematic study of electric vehicle charging infrastructure provide short term and long term strategies for electric vehicle charging companies who are already in the market or want to enter and invest in this market in near future.