Reducing oil supply risk and CO2 emission has become the major concern of governments in the transportation sector. Electric Vehicles are one of the reliable ways to decrease the dependence of the transportation system on crude oil and reduce greenhouse gases emission. The development of the 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 the global outlook of electric vehicle charging infrastructure, we are presenting the current situation of the electric vehicle and charging market, the current electric vehicle charging technology situation and the electric vehicle charging architecture and regulations.

Furthermore, this report includes a study of two successful charging companies; CHAdeMo and Charge point, and one unsuccessful charging company, Better Place as well as a study of 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 five major affecting factors and analyzed how each of these factors can affect the electric vehicle charging’s future path.

Finally, this report, according to the systematic study of electric vehicle charging infrastructure, provides 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.