UTILITIES HAVE A SIGNIFICANT ROLE TO PLAY

Three principles will help utilities capture value from this transformation:

1. **Begin the build-out today, but anticipate changes**
   
   Most EV charging stations today are at homes or businesses. In the future, more will need to be close to fleets.

2. **Develop custom local strategies**
   
   Each city will need to customize the way it deploys EV infrastructure to meet its needs and opportunities.

3. **Identify sources of value, then prioritize investments**
   
   Most new value will come from managing demand and charging EVs at optimal times and locations.

**GREENER CITIES**

In the US, more than 20% of emissions come from light-duty vehicles. EVs can reduce CO2 emissions by 60%.

**CHEAPER MOBILITY**

As battery costs drop, total cost of ownership for EVs should reach parity with internal combustion vehicles within five years.

**OPTIMIZED ENERGY SYSTEM**

“Smart” charging of EVs will help peak electricity supply to demand during peak and off-peak hours.

**CITIES SEE THREE MAJOR BENEFITS IN THESE TRENDS**

- **Greener cities**
  - In the US, more than 20% of emissions come from light-duty vehicles. EVs can reduce CO2 emissions by 60%.
- **Cheaper mobility**
  - As battery costs drop, total cost of ownership for EVs should reach parity with internal combustion vehicles within five years.
- **Optimized energy system**
  - “Smart” charging of EVs will help peak electricity supply to demand during peak and off-peak hours.

**THE FUTURE OF ENERGY AND URBAN MOBILITY**

The growth of electric and autonomous vehicles in cities creates new opportunities for utilities.