Electric Vehicles in Your Community

An Advantageous Option

With the advent of more diverse, reliable, and lower cost electric models, purchasing electric vehicles has become a feasible and advantageous option for local governments and residents. Electric vehicles are the future of the automobile industry. They are more efficient and require less maintenance than traditional models, and they present a great opportunity for local governments to save public dollars while reducing air pollution.

Growth in the Midwest

In the Midwest in 2019, there were more than 20 models of electric vehicles available for purchase, and new models are being introduced to the market including light duty vehicles, garbage trucks, school buses and street sweepers. With a median range of 73 miles per charge, electric vehicles are well suited to fit varying needs of local governments and commuters. Improvements in battery storage and quick-charging technology, as well as country-wide investment in charging infrastructure, have made electric vehicles more effective and accessible than ever.

Essential to Mitigation

Cities, towns and counties can spearhead the transition to a low-carbon, no tailpipe transportation sector by adopting electric fleets and improving access to vehicle charging infrastructure. Reducing emissions from the transportation sector is an essential part of mitigating climate change and improving air quality.



The Future is Electric

Throughout the world, nations have pledged to phase out the sale and production of gas and diesel vehicles.

- Norway by 2050
- India by 2030
- Scotland by 2035
- Britain by 2040
- France by 2040

China, the world's leading automobile manufacturer, has also announced its intentions to phase out gas and diesel vehicle production.

These major car manufacturers have announced plans to roll out between 15 and 20 new light duty electric models, each:

- Ford
- Volkswagen
- General Motors Nissan
- Volvo
- Jaguar Land Rover





Tools and Resources for Electric Vehicles

There are a variety of resources available to help local governments determine the feasibility of starting to purchase electric vehicles:

Cost Assessment

The DOE offers the **Vehicle Cost Calculator** to assess the affordability of electric vehicles.

Federal Incentives

The DOT and DOE published the Guide to Federal Funding, Financing, and Technical Assistance for Plug-in Electric Vehicles and Charging Stations.

Procurement Assistance

EV Smart Fleets is developing a multi-state procurement program to make electric vehicles more affordable for local governments. Also, the Electric Vehicle Procurement Best Practices Guide provides information about feasible procurement options for public fleets.

How to Support Electric Vehicles in Your Community

Beyond purchasing electric vehicles for municipal and county fleets, local governments can use incentives and policies to increase access to charging infrastructure. The DOE offers a search tool to find federal, state and local examples of incentives and laws used to encourage electric vehicle adoption and infrastructure development.

Communities can prepare for plug-in charging development by using the DOE's PEV Readiness Scorecard tool. The EVI-Pro Lite tool can estimate the quantity and type of charging stations needed to support regional adoption of electric vehicles. For more information about public charging stations, visit the DOE's Alternative Fuels Data Center.

Non-Renewable **Electricity Production?**

If your local power company is heavily dependent on fossil fuels for energy production, then charging electric vehicles will still produce air pollution in areas near the power plant. Electric vehicles are still better, however, because they can be up to twice as efficient as conventional vehicles. Further, electric vehicles do not produce pollution at the street-level, meaning ambient air quality, and public health, will substantially improve with expanded use of electric automobiles.

The Benefits of Electric Vehicles

Reduced Costs

Electric vehicles require less maintenance and are more efficient than internal combustion vehicles. leading to lower maintenance and fuel costs for local governments. Electricity prices are more stable than volatile gas prices, and fuel costs for electric vehicles are between one-half and onefourth the costs of conventional automobiles.

Public Health

Electric vehicles do not produce tailpipe pollutants, leading to reduced air pollution and improved public health.

Lower Carbon

Electric vehicles are more energy efficient, producing fewer greenhouse gas emissions. If electric vehicles are charged using renewable technologies, they can achieve carbon neutrality.