The Future of Energy and Urban Mobility

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

City travel is rapidly changing Urban mobility will transform over the next decade as: **Electric vehicles become Autonomous vehicles Ride sharing** more affordable enter the market continues to grow

These changes come amid broader shifts in energy usage



Cleaner, more **decentralized** and **digitalized** energy systems

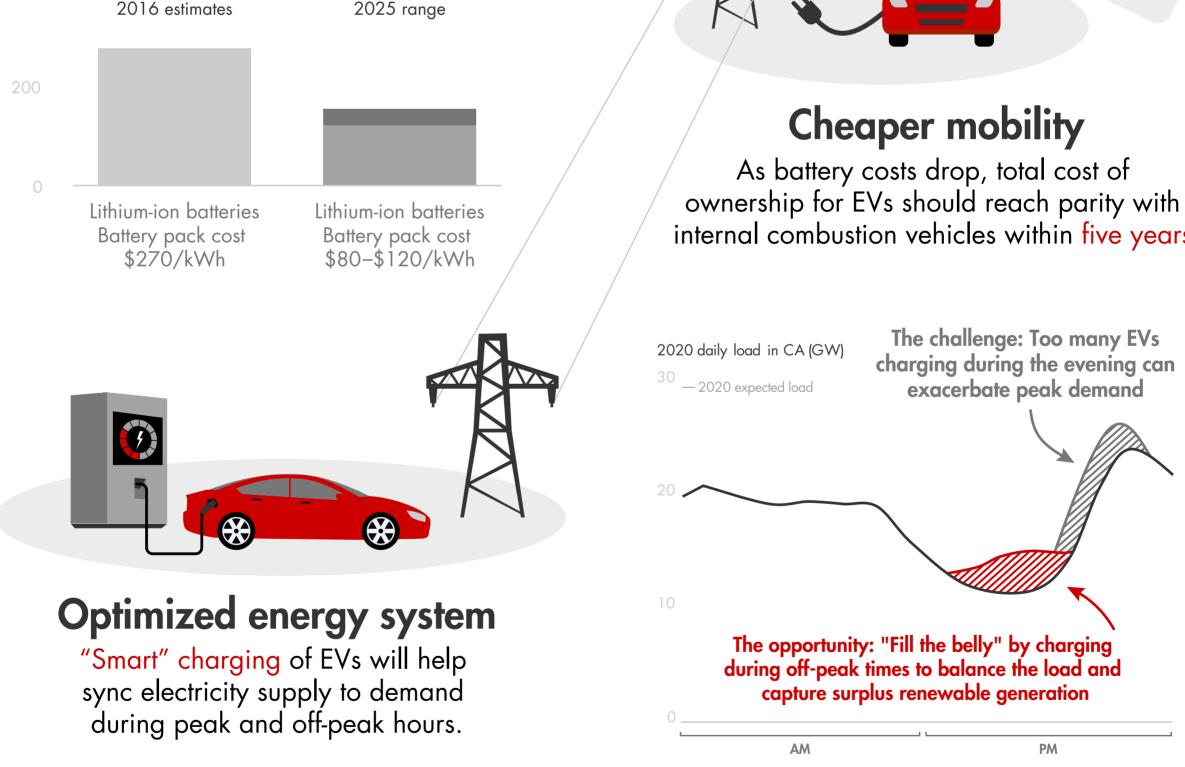
Cities see three major benefits in these trends

Greener cities

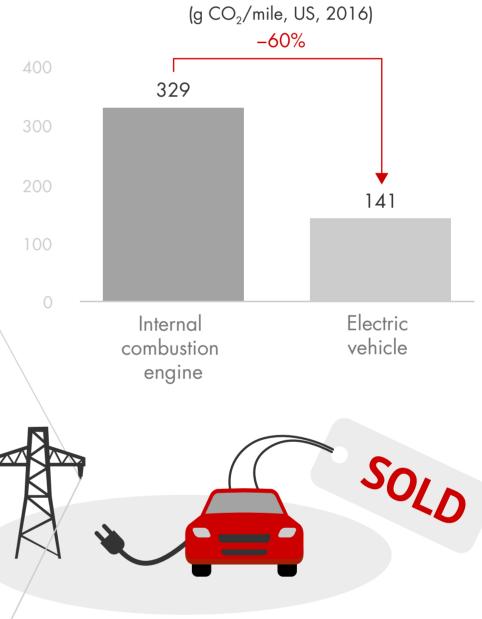
In the US, more than 20% of emissions come from light-duty vehicles. EVs can reduce CO_2 emissions by 60%.

Batteries are becoming cheaper to make, which pushes down the costs of EVs

400



Electric vehicles emit 60% lower CO₂ than vehicles with internal combustion engines



internal combustion vehicles within five years.

UTILITIES HAVE A SIGNIFICANT ROLE TO PLAY

Three principles will help utilities capture value from this transformation:

Begin the build-out today, but anticipate changes

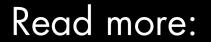
Most EV charging stations today are at homes or businesses. In the future, more will need to be close to fleets.

Develop custom local strategies

Each city will need to customize the way it deploys EV infrastructure to meet its needs and opportunities.

Identify sources of value, then prioritize investments

Most new value will come from managing demand and charging EVs at optimal times and locations.





ectric Cars Could Recharge Growth for Utilities

www.bain.com/urban-mobility

