

Electrifying Transportation in Ski Towns

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CAST, Telluride CO

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People-Oriented Street
vs.
Auto-Oriented Street



www.strongtowns.org/slowthecars

It's all about mobility!

Congestion mitigation; vast parking lots of space wasted right in town; long walks schlepping gear. Air quality, climate emissions

Mobility = shared rides

Zero emissions = electric drive

- Buses; Shuttles; Taxi/Lyft



Electric drive is wise investment in green infrastructure.

Every ICE purchase is a 10-15yr lock-in to emissions and operational costs.

Buses

- CDOT's annual "Super Call" for projects; closes September 3rd.
- School buses / shuttle buses via Alt Fuels Colorado; Three times per year.

Fleets

- Charge Ahead Colorado can be used to support either public or fleet charging infrastructure; increased focus on rural, recreational, and tourist destinations.

Vocational vehicles / Off-road

- SB 260 will create three new enterprises that will dedicate additional funding to all project types (and more) over the next decade.

The vehicles are here, or “coming soon”.

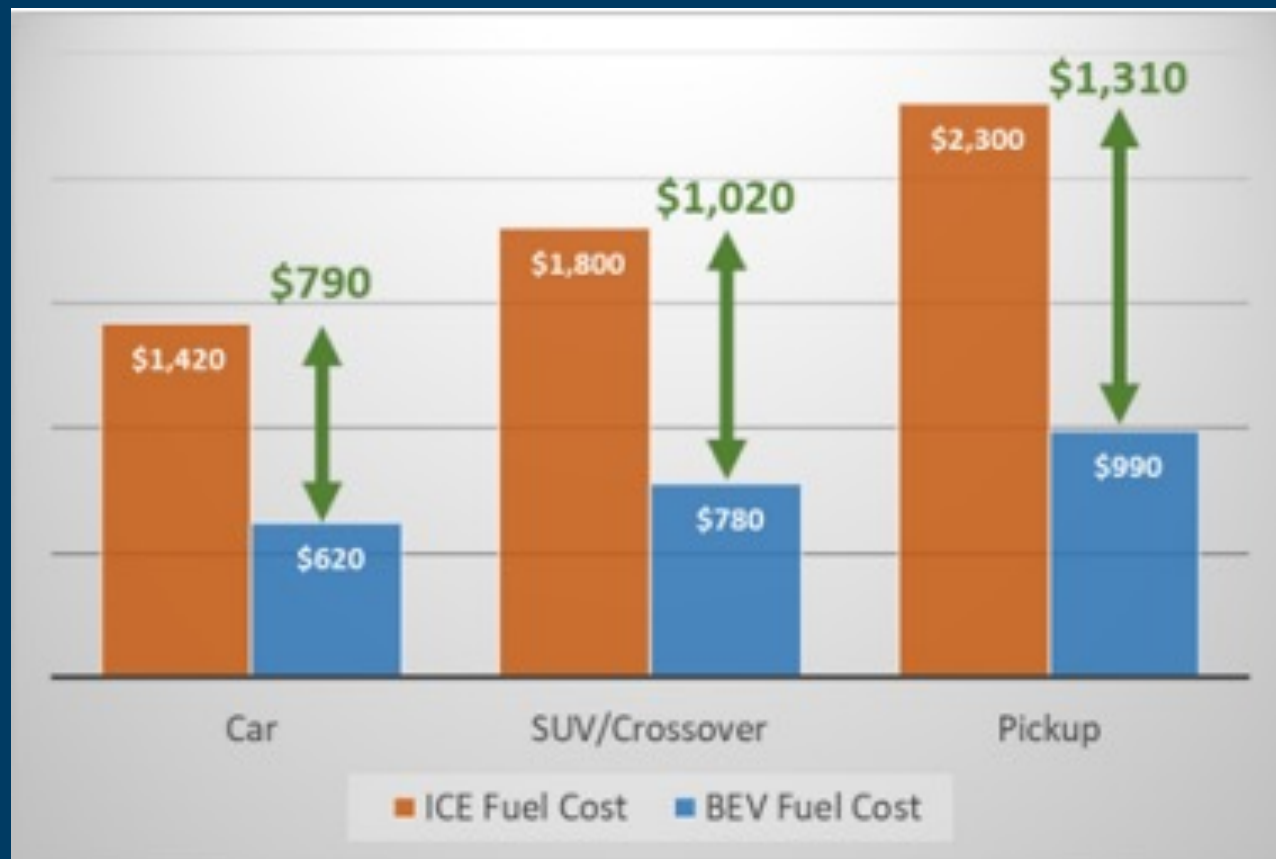


Figure 3.1. Estimated Fuel Cost for 15,000 Miles by Vehicle Class



ePTO



Heavy-Duty Bus



Medium-Duty Bus



Refuse



School Bus



Step & Panel Van

Decarbonization commitments around the world are generating a sea change in the auto industry

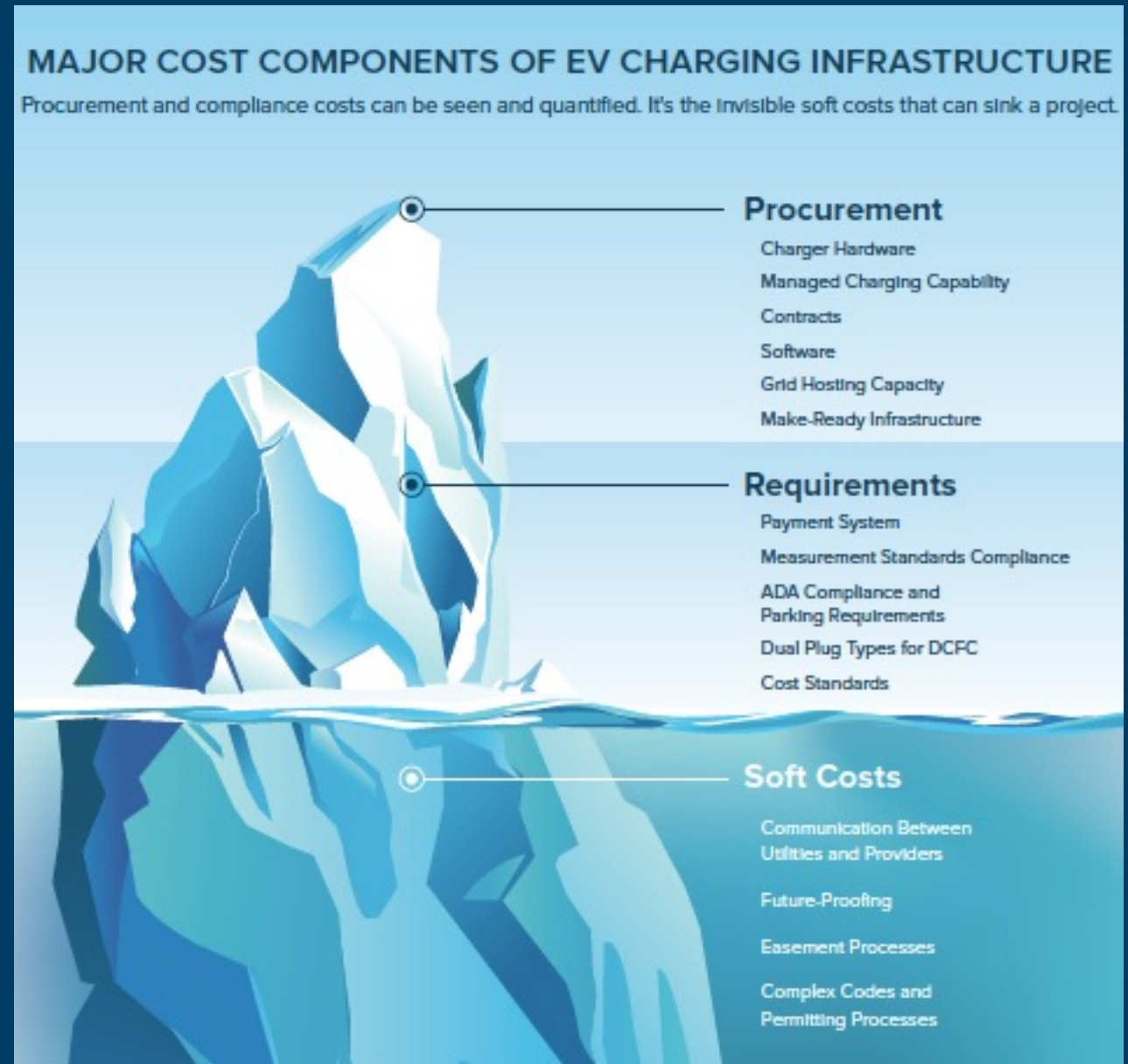
- 31 countries, states and cities have bans on diesel or gasoline
- \$400B is currently invested in the EV supply chain
- 7 of 44 US assembly plants are slated for all EV by 2025 *so far*
- Most auto manufactures have committed to all electrification
- **Near half expect 50% of sales to be EV by 2030**

Why Local Governments Should Act Now



Municipal and county role in critical to new electric fueling infrastructure?

Because soft costs inhibit the private market from stepping in early, local governments can guide desired locations, and can streamline processes.



Experience is key to new technology adoption

- Local governments *Lead by Doing*
- Municipal fleets are a gateway drug to EV
- Buses and shuttles amplify the benefits of EV
- Taxi, Lyft, Uber rides allow conversations about EVs

Resilience through Electric Drive Technology



Wildfires, Floods, Electricity Outage

Resilient infrastructure is essential.

Is that stores of explosive fuel?

Or can it be self supporting
microgrids?

- First/second response facilities and shelters
- Community centers
- Renewable energy + battery storage
...+ more battery storage



FORD INTELLIGENT BACKUP POWER

Be prepared for what nature throws at you with the 2022 Ford F-150 Lightning. Available Ford Intelligent Backup Power, enabled by the 80-amp Ford Charge Station Pro, allows you to use your truck as a backup power source to your home during a power outage. * The power transfer can be triggered automatically or manually based on customer preference.

*When home is properly equipped and home transfer switch disconnects home from the grid.





- Mobility and positive experiences
- Electric vehicles are zero emissions
- Resilency can be built in

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Climate Mitigation and Adaptation