DRIVE electric
NORTHERN COLORADO
DriveElectricNoCo.org

# Fleet Transition

## Transitioning conventional fleets into Electric Vehicles

*Drive Electric Northern Colorado* (DENC) is a first-of-its-kind, community-wide initiative designed to achieve widespread deployment of plug-in electric vehicles (PEVs) in the Northern Colorado region. Through public-private partnerships and strong community participation, DENC will develop an electric vehicle ecosystem to promote widespread PEV ownership for individuals, families, businesses, and commercial vehicle fleets in Northern Colorado. DENC has formed partnerships with the City of Fort Collins, the City of Loveland, and Colorado State University to facilitate the transformation of Northern Colorado into an Electric Vehicle deployment community. We are also working with businesses like yours to find solutions for electrifying fleets.

### *The Case for Electrification*

America's dependence on oil is putting the environment, economy, and national security at risk. Transportation accounts for 70 percent of the oil we consume in the United States, and oil provides more than 90 percent of the fuel for our vehicles. Using electricity to power our vehicles offers a low-cost, convenient and clean alternative to oil that is available today. Automakers like GM, Ford, Nissan, Honda, Mitsubishi, and BMW already offer electric passenger vehicles, and dozens of additional models are expected to debut in the coming months and years.


A number of companies currently offer electric trucks as well. Companies like FedEx Express, UPS, Frito-Lay, Coca-Cola Refreshments, Staples and even local companies like Morning Fresh Diary, New Belgium Brewery, and Chippers Lanes have already deployed these vehicles in their fleets.

### *Why your Business should consider PEVs in your fleet*

There are many compelling reasons to consider fleet transition that will ultimately make a sustainable impact on your fleet's bottom line.

**After adding 10 PEVs to their Manhattan fleet, FedEx spoke about how the vehicles improved their company image**

**"People actually flag [our trucks] down to ask questions. They want to know about the technology because it looks so different and unique. I think that has real value for the FedEx brand."**

- Operating cost
  - Energy cost stability- Compared to rising prices and substantial instability of petroleum and other liquid fuels, the price of electricity has proven to be extremely stable.
  - Maintenance- PEVs have lower costs due to fewer moving parts, no use of oil or transmission fluids, and regenerative braking, which reduces wear and tear.
- Increase efficiency
  - PEVs eliminate the need to spend time refueling during hours because of the ease of overnight charging from your business location.
- Sustainability practices
  - Emissions- PEVs have extremely limited tailpipe emissions ($CO_2$, SOx, NOx) compared to conventional vehicles.
  - Improvement over time- Electric vehicles are the only vehicles that will get cleaner over time with no new investment on your part, due to the transition from coal generation to natural gas and renewable energy sources that is currently taking place in the United States.
- Improve fuel diversity and United States energy security
  - Internal combustion engine vehicles are dependent upon a singular fuel that is traded on a global market and vulnerable to price shocks and volatility.
  - Electric vehicles are sheltered from volatility by taking advantage of a diverse set of domestic fuels

***Let's Charge Our Community!***
***DriveElectricNoCo.org***

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## *Some of the Currently Available Vehicles*

With new models becoming available every year, there are many options to meet your fleet needs, and depending on the vehicle or infrastructure, there may be significant savings available through state and federal incentives. Below is a chart listing the models available.

### Passenger Vehicles

| OEM | Model | Class | Range |
|---|---|---|---|
| GM | Chevy Volt | Sub-Compact | 35 Electric+ICE |
| Toyota | Plug-In Prius | Midsize | 11 Electric+ICE |
| BMW | *I3 and I8* | Sedan | 99 Miles (out Jan 1) |
| Ford | Focus Electric | Compact | 76 Miles |
| Honda | Fit EV | Sub-Compact | 82 Miles |
| Mercedes- Benz | Smart for Two | Two-Seater | 98 Miles |
| Mitsubishi | I-MIEV | Sub-Compact | 62 Miles |
| Nissan Motor Co. | Leaf | Midsize | 73 Miles |
| Tesla Motors | Model- S | Sedan | 300 Miles |

### Commercial Trucks

| OEM | Model | Class | Range |
|---|---|---|---|
| Boulder Electric Vehicles | DV-500 | Class 3 | 80-120 Miles |
| EVI | | Class 4-5 | 90 Miles |
| Smith Electric | Newton | Class 5-7 | 40-150 Miles |
| Navistar | eStar | Class 3 | 100 Miles |
| Electorides | zerotruck | Class 3-5 | 75 Miles |
| Via Motors (After Market) | VTRUX | Class 1-2 | 40 Electric+ICE |

## *More information*

There are also significant resources on our website www.DriveElectricNoCo.org that can help with cost modeling, give other fleet transition case studies, and helpful background on the broader campaign.

To learn more and/or to begin your fleet transition:

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