



DEN FLEET EV TRANSITION

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Director of DEN Fleet Management

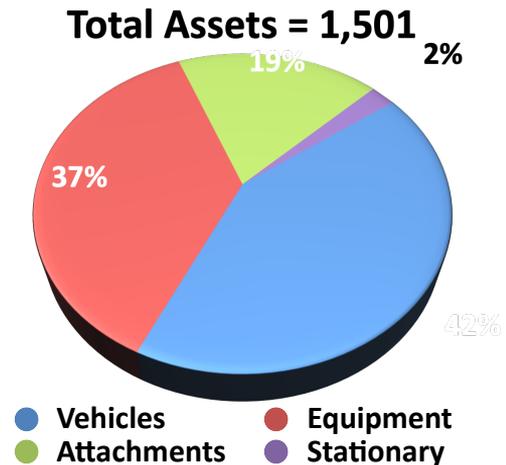


Staff (70 FTE's)

- Administrative = 12 (17%)
- Technical = 58 (83%)

Assets Managed (1,433)

- Vehicles – FHWA Classes 1 - 9
- Equipment – Un-licensed / No GVWR
- Attachments – Plows / Material Spreaders
- Stationary – Generators / Fire Pumps



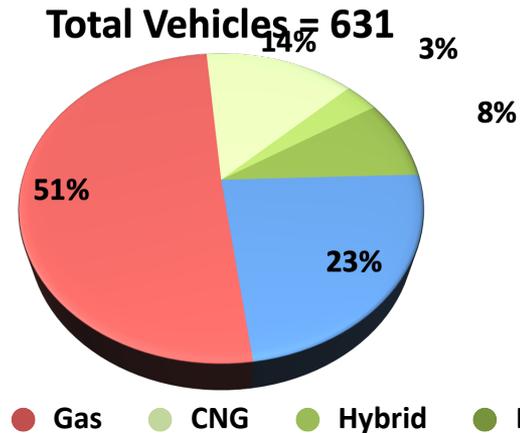
FLEET EV TRANSITION INITIATIVE

Historically recognized as a “Green” Fleet



Strategy/Roadmap

- Mix of fuel sources to balance efficiency, sustainability, and functional operability
- Begin transition from CNG to Electric
 - Necessity as CNG Upfits no longer available
- Developing projects to coordinate vehicles, charger network and electrical infrastructure



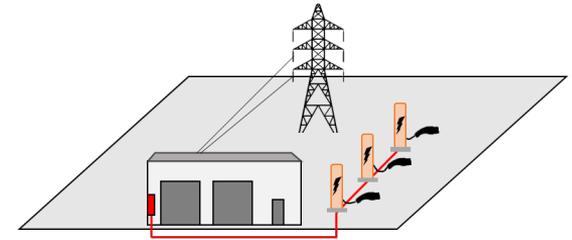
2019 EV PILOT PROGRAM

- Source two Zenith full electric vans for an EV pilot.
 - Sourced two standard non network level two chargers for the pilot.
- This pilot provided us with the information we needed to move forward with an EV transition.
 - Vehicles were proven to be highly unreliable with little manufacture support & chargers provided no data.



Overview/Goal

- Quick all-inclusive dive into EV's
 - Complete in one year @ “net-0” cost
- Key Focus Areas
 - Vehicles
 - Solid candidate replacements
 - Charging Network
 - Focus on future management
 - Infrastructure
 - Use of available resources



Vehicles

- Fleet analysis to find good EV candidate vehicles from our current replacement list
 - High utilization on a single shift
 - Manufacturer deliverable in the same year
 - Filled a deficient operational need
 - Opportunity for right-sizing/typing
- Identified 8 vehicles as EV candidates
 - Downsized fleet by 5 vehicles
 - Replacing CNG, Diesel, and Hybrids



Sustainability: Our goal is to become the greenest airport in the world

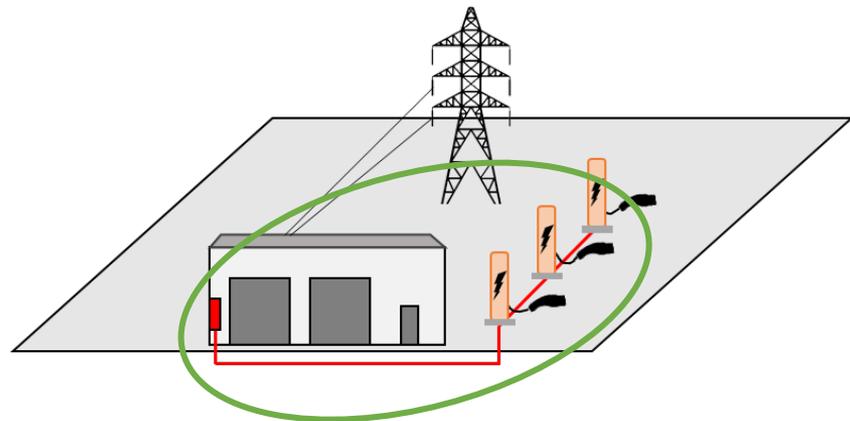
Vehicles (Cont.)

- Four (4) E-Transit chassis
 - 1 cargo van, 2 Stake bed, 1 custom bed
 - Right-typed from 5 CNG/Diesel trucks
- Two (2) Chevy Bolts
 - Vehicle Sharing (Motor Pool)
 - Replaced Hybrids
- Two (2) Aebi Schmidt eSwingo 200+
 - Right-typed from 6 CNG scrubber/sweepers



Infrastructure

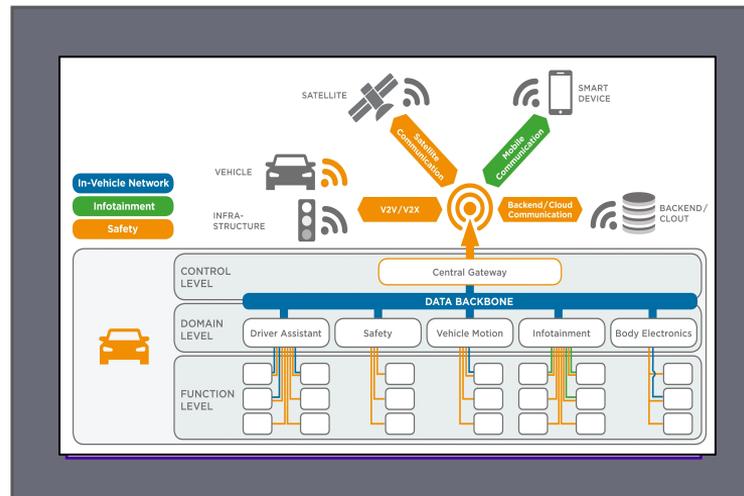
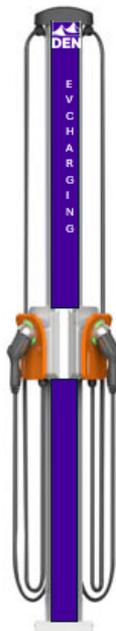
- Use available resources to enable quick implementation
 - Doing the work entirely in-house
 - Finding access to available power
 - Develop for expansion if possible
- Installing infrastructure for new vehicles plus capacity for 6 additional vehicles
 - Completed with in-house electricians and equipment operators



Charging Network

- Focus on future management
 - Dumb vs. Smart chargers
 - Charging capability (e.g. Level 1/2/3)
 - Management (e.g. metrics and reports)
 - Maintenance requirements

- Selected networked charging solution
 - Upgrading current dumb chargers
 - Fleet program Administrator to manage systems
 - Telematics, Charging, Vehicle Sharing



LESSONS LEARNED

- End user buy in is difficult but important.
- Training- system management, infrastructure, operators, vehicle service.
- Proper vehicle and use case is key.



INDUSTRY LEADERS



**DRIVE CLEAN
COLORADO**

a Clean Cities Coalition

GHG Reduction Award

2015 & 2016



Top 50 Fleet for 7 Straight Years
#1 Mid-Size Fleet in 2020 & 2022



Top 100 Fleet for 11 Years



Leading Airport Fleet in 2022



Top 30 Fleet for 7 Years
Top 4 in 2017, 2020 & 2022
*#1 in 2025

NGV AMERICA

Natural Gas Vehicles for America

25+ Years of Exemplary NGV

Industry Leadership

Achievement Award 2014