



REGIONAL AIR QUALITY COUNCIL

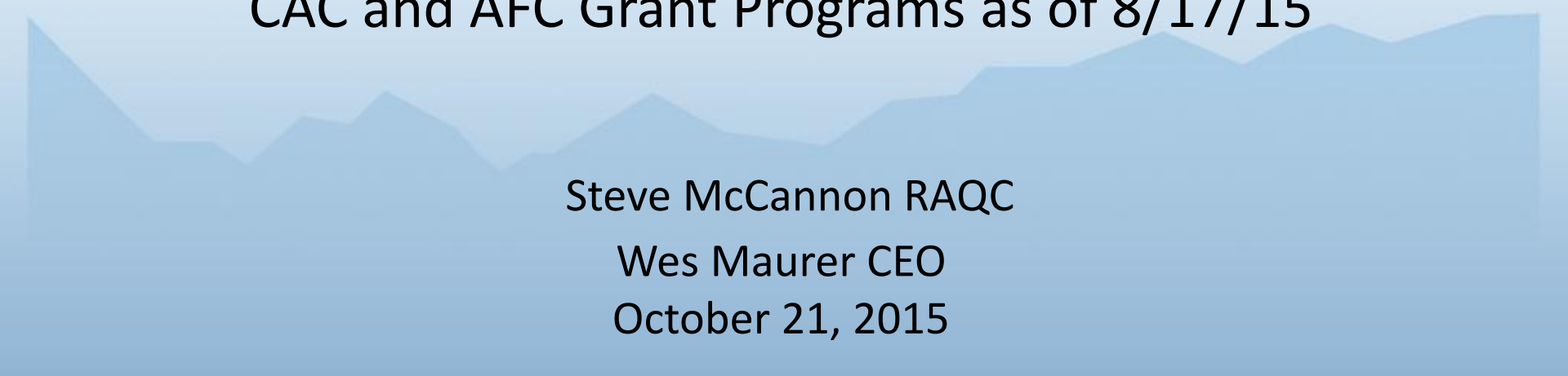
DRCOG Board Meeting

CAC and AFC Grant Programs as of 8/17/15

Steve McCannon RAQC

Wes Maurer CEO

October 21, 2015



CAC and AFC Development

- Charge Ahead Colorado (CAC) and ALT Fuels Colorado (AFC) started at different times and have been in operation for the past 2-3 years
- CAC and AFC taken together address the needs to develop the electric, natural gas and propane vehicle and infrastructure markets
- Multiple stakeholder groups have been formed to develop infrastructure, policy and marketing for these programs.
- We fund applications that are submitted to us. It's up to local governments and the private sector to apply for these funds.

RAQC Charge Ahead Colorado

Charge Ahead Colorado (CAC)

- Charge Ahead Colorado is a partnership between RAQC and Colorado Energy Office
 - Designed to incentivize the wide-spread, early adoption of electric vehicles and provide geographically dispersed charging points at key locations to address the charging concerns of the motoring public.
- The RAQC has DRCOG awarded CMAQ funding for electric vehicles (EV) and electric vehicle charging stations (EVSE)
- CEO has State funding for EVSE for applicants located outside the seven-county Denver Metro Area.

CAC Funding Overview

- RAQC and CEO will fund public, private and non-profit entities to pay 80% of the cost of EVSE up to:

EVSE Type	Maximum Funding
Level II, Single Port Station	\$3,260
Level II, Multi-port Station	\$6,260
Level III, Single Connection Standard Station	\$13,000
Level III, Multiple Connection Standard Station	\$16,000

- RAQC has funding to pay 80% of the incremental cost of an EV up to \$8,260 per vehicle for government and non-profit organizations ineligible for Colorado state tax credits.

RAQC Awards To-Date

- \$2.7 million allocated and available funds
 - RAQC has funded \$1.2 million in electric vehicle and charging station projects and \$1.5 million remaining for electrification
 - We plan on having more funding available in the future
- 70 awarded charging station projects
 - 68 Level 2 installed and 89 in progress
 - 2 Level 3 installed and 2 in progress
- 37 electric vehicles for government and non-profit fleets

Denver Metro Area Funded Organizations

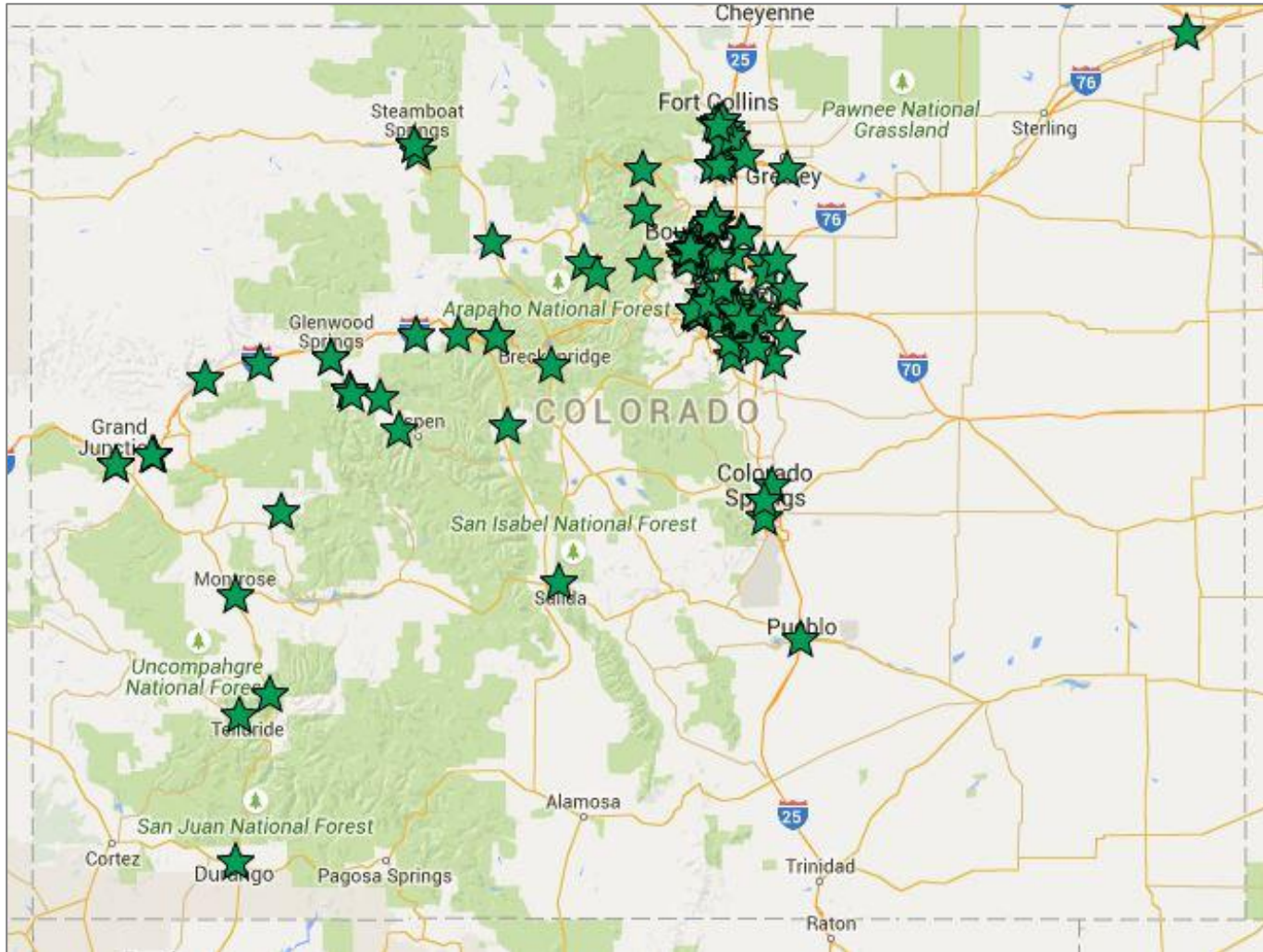
- Adams County
- Boulder County
- City of Arvada
- City of Aurora
- City of Brighton
- City of Boulder
- City and County of Denver
- City of Golden
- City of Lafayette
- City of Lakewood
- City of Littleton
- City of Longmont
- City of Louisville
- City of Westminster
- Multiple hospitals
- Multiple private companies, HOAs

CEO Charge Ahead Colorado

CEO Charge Ahead Colorado

- CEO has funded \$450,000 in charging station projects and has \$350,000 in SFY2015 for electrification.
- Current funding total outside of the Denver Metro Area
 - 81 Level 2 chargers
 - 2 Level 3 fast chargers
- 79 publicly accessible charging stations in Colorado at the beginning of 2013.
- With CEO and RAQC there are more than 250 publicly accessible charging stations currently either planned or available.

Charging Stations Statewide



RAQC AFC Vehicle Program

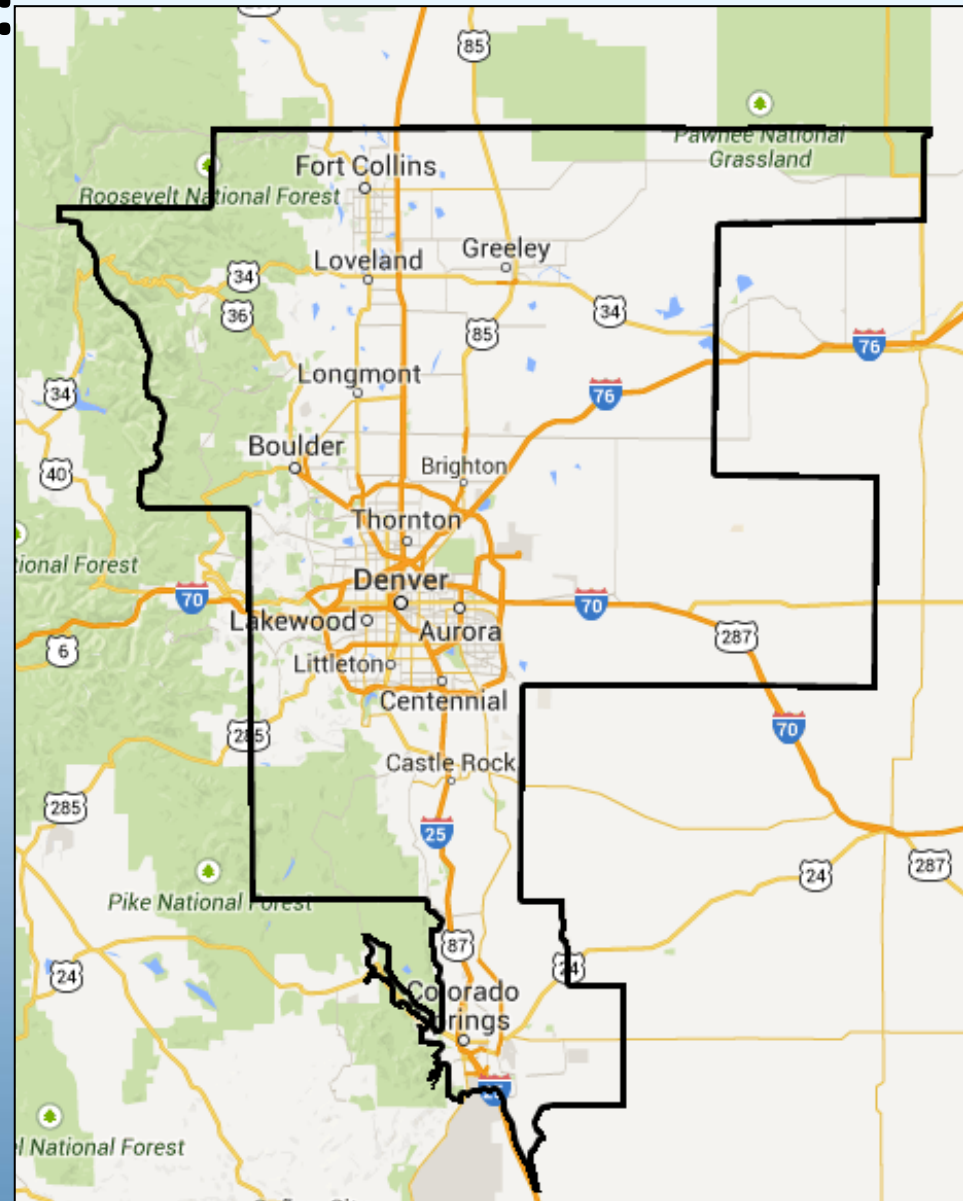
ALT Fuels Colorado Program

- CEO/RAQC/CDOT/DOLA/FHWA/Noble Energy partnership on a \$45M project.
 - \$15 million CMAQ from RAQC is dedicated to vehicles in the 11 county program area
 - \$15 million CMAQ from CEO is dedicated to infrastructure statewide
 - DOLA has \$10 million for infrastructure and vehicles
 - Noble Energy has \$2 million for matching funds in the RAQC vehicle program area and \$2.8 designated only for Weld

RAQC Vehicle Program:

Fleets in the following counties are eligible for funding:

- Adams
- Arapahoe
- Boulder
- Broomfield
- Denver
- Douglas
- Jefferson
- Parts of Larimer
- Parts of Weld
- Parts of El Paso and
- Parts of Teller counties



AFC Program Funding

- How much?
 - 80% of the incremental cost between the AFV and the comparable conventionally fueled diesel or gas vehicle up to the caps below
 - Private fleets may be eligible for added tax credits

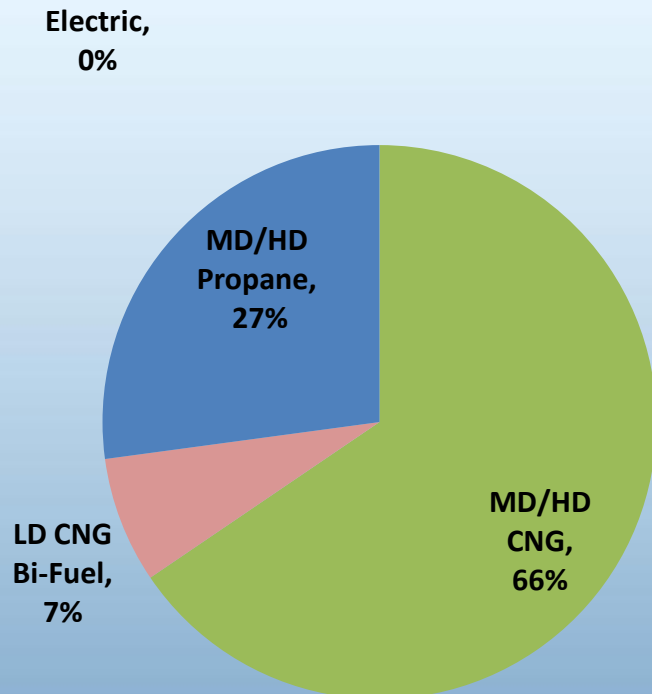
	Public and Non-profit Fleets	Private Fleets
Light-duty AFV (6,001-10,000 lbs.)	\$7,000	\$3,000
Medium-duty AFV (10,001-26,000 lbs.)	\$25,000	\$15,000
Heavy-duty AFV (26,001 + lbs.)	\$35,000	\$22,000

AFC Awards To-Date

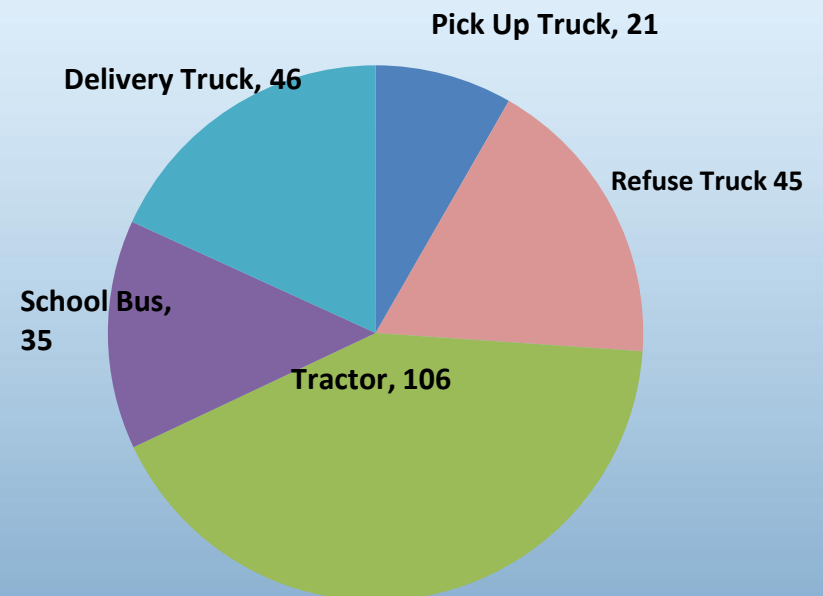
- Incentivize the purchase of class 2-8 OEM CNG, CNG bi-fuel, electric and propane vehicles
- \$7 million allocated by CDOT to-date with \$4.5 million in awards
- 253 vehicles funded for 26 fleets
- Investigating funding transit vehicles with CDOT but it's complicated
 - These funds are FHWA CMAQ and must be flexed to FTA for transit
 - Or could switch CMAQ funds for State funds to simplify matters

AFC Vehicles by Fuel and Class

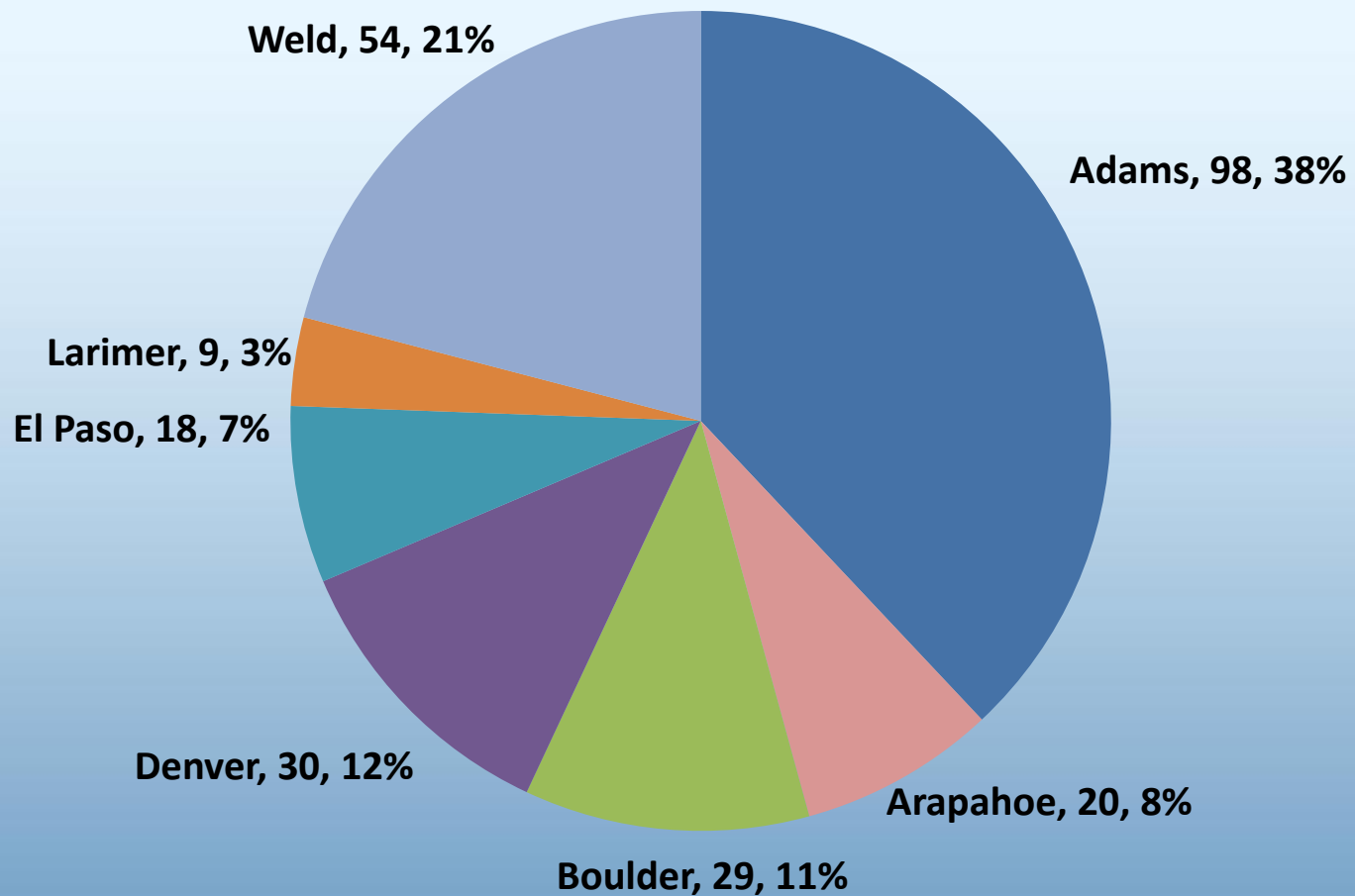
Vehicles Funded by Fuel Type



Vehicles by Type



County of Operations



CEO ALT Fuels Colorado



COLORADO
Energy Office

ALT Fuels Colorado - Station Incentives

Front Range

- Over half of the state's existing stations
- Many within the Denver Metro Area

Statewide Corridor

- Overcoming range anxiety is crucial to vehicle adoption
- Key station locations
- 20-30 new CNG stations

Incentives

- 80% equipment capped at \$500,000 for CNG stations
- Additional \$50,000 grants available for co-located EV and propane stations



CEO Station Progress & Timeline

\$7.5 million for 15 stations awarded within first 1.5 years



~4.5 million gasoline gallon equivalent (GGE) sales projected in first full year



January, 2016 – Next funding round for CNG station development



Station rounds to be announced approximately every 6 months

RAQC Retrofits

- RAQC has operated its Clean Air Fleets Program since 2002
- Program has allocated \$5.2 million in CMAQ and EPA funding focused primarily on older diesel vehicle retrofits within the Denver metro area
 - Vehicles retrofitted include school buses, trash trucks, delivery vehicles, etc.
- These retrofits include telematics equipment, tailpipe retrofits and idling reduction equipment for mobile source emissions reductions

Denver Metro Area Funded Organizations

- All school districts
- City and County of Denver
- City of Arvada
- City of Aurora
- City of Boulder
- City of Brighton
- City of Broomfield
- City of Commerce City
- City of Englewood
- Jefferson County
- City of Thornton
- City of Longmont
- City of Louisville
- City of Westminster
- Dozens of private companies

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