

# 2020 Transportation Technology Deployment Report:

Land of Sky Clean Vehicles Coalition  
(Western North Carolina)

Expanded Edition

March 2021



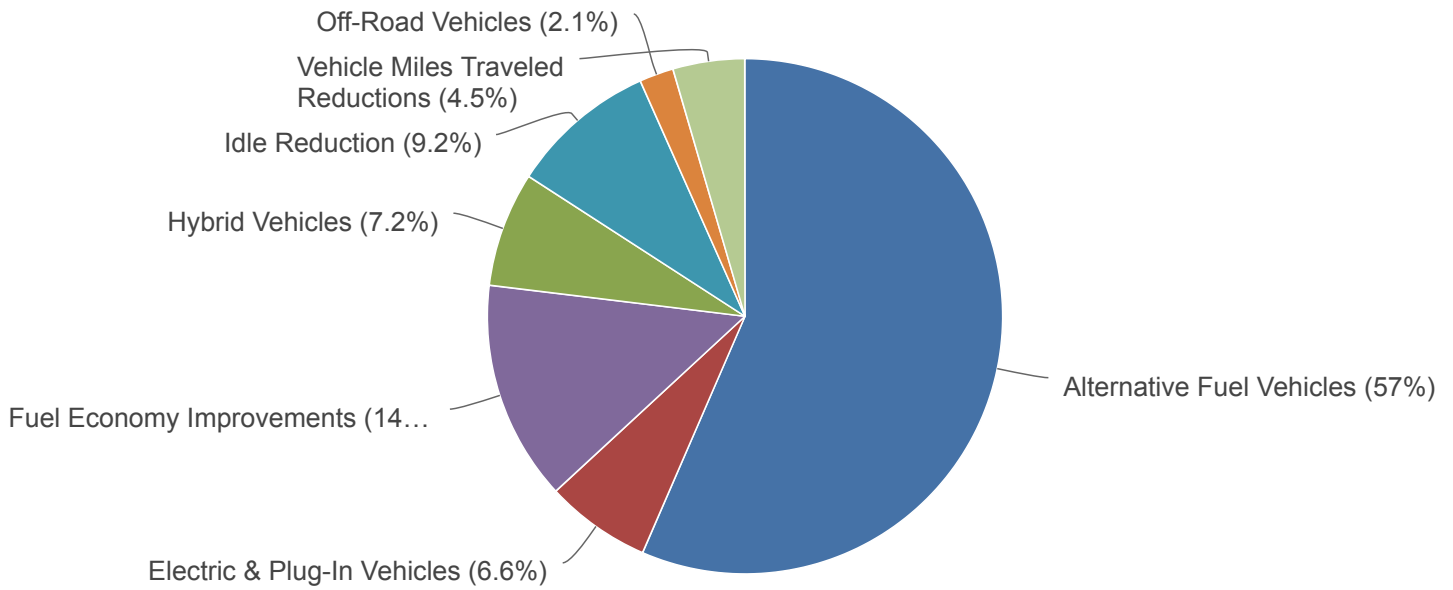
The U.S. Department of Energy's (DOE) Clean Cities Coalition Network fosters the nation's economic, environmental, and energy security by working locally to advance affordable, domestic transportation fuels, energy efficient mobility systems, and other fuel-saving technologies and practices. A national network of more than 75 coalitions serve as the foundation of Clean Cities by working in communities across the country to implement alternative fuels, fuel-saving technologies and practices, and new mobility choices.

Every year, each Clean Cities coalition submits to DOE an annual report of its activities and accomplishments for the previous calendar year. Coalition coordinators, who lead the local coalitions, provide information and data via an online database managed by the National Renewable Energy Laboratory (NREL). The data characterize membership, funding, projects, and activities of the coalitions. The coordinators also submit data on the sales of alternative fuels, deployment of alternative fuel vehicles, idle-reduction initiatives, fuel economy activities, and efforts to reduce vehicle miles traveled. NREL and DOE analyze the data and translate them into energy use impact, greenhouse gas reduction, and other metrics to show progress supporting the Clean Cities mission for individual coalitions and the network as a whole. This report summarizes those impacts for .

To view aggregated data for all local coalitions in the network, visit [cleancities.energy.gov/accomplishments](https://cleancities.energy.gov/accomplishments).

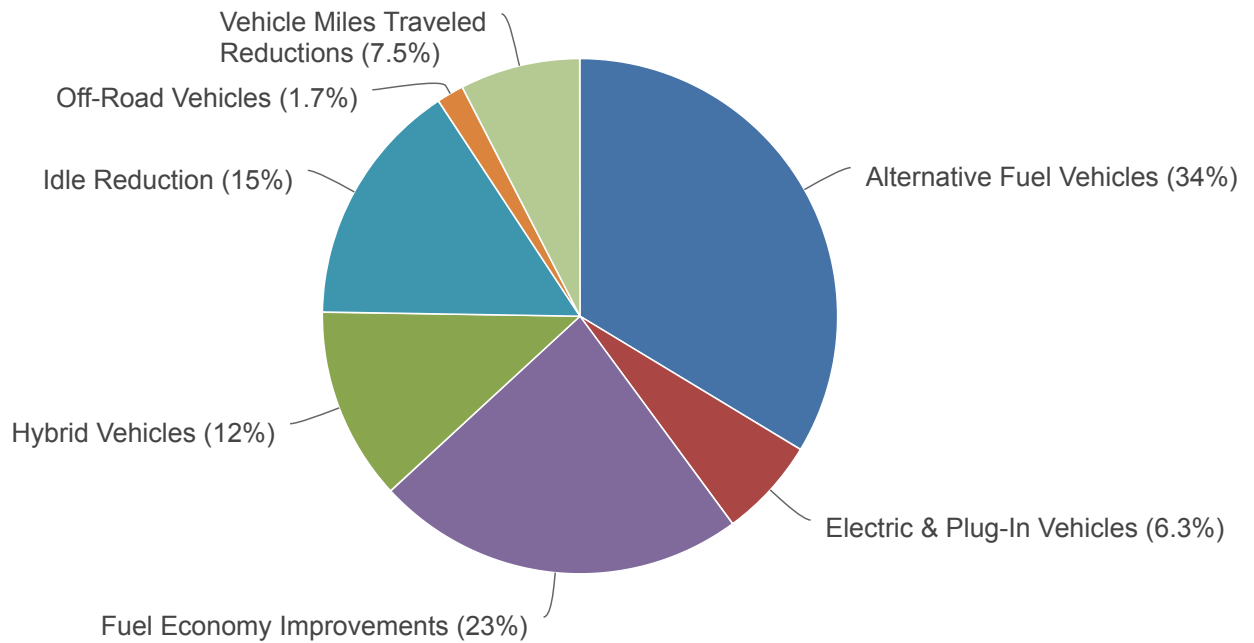
### 2020 Gallons of Gasoline Equivalent Reduced

807,598 gallons

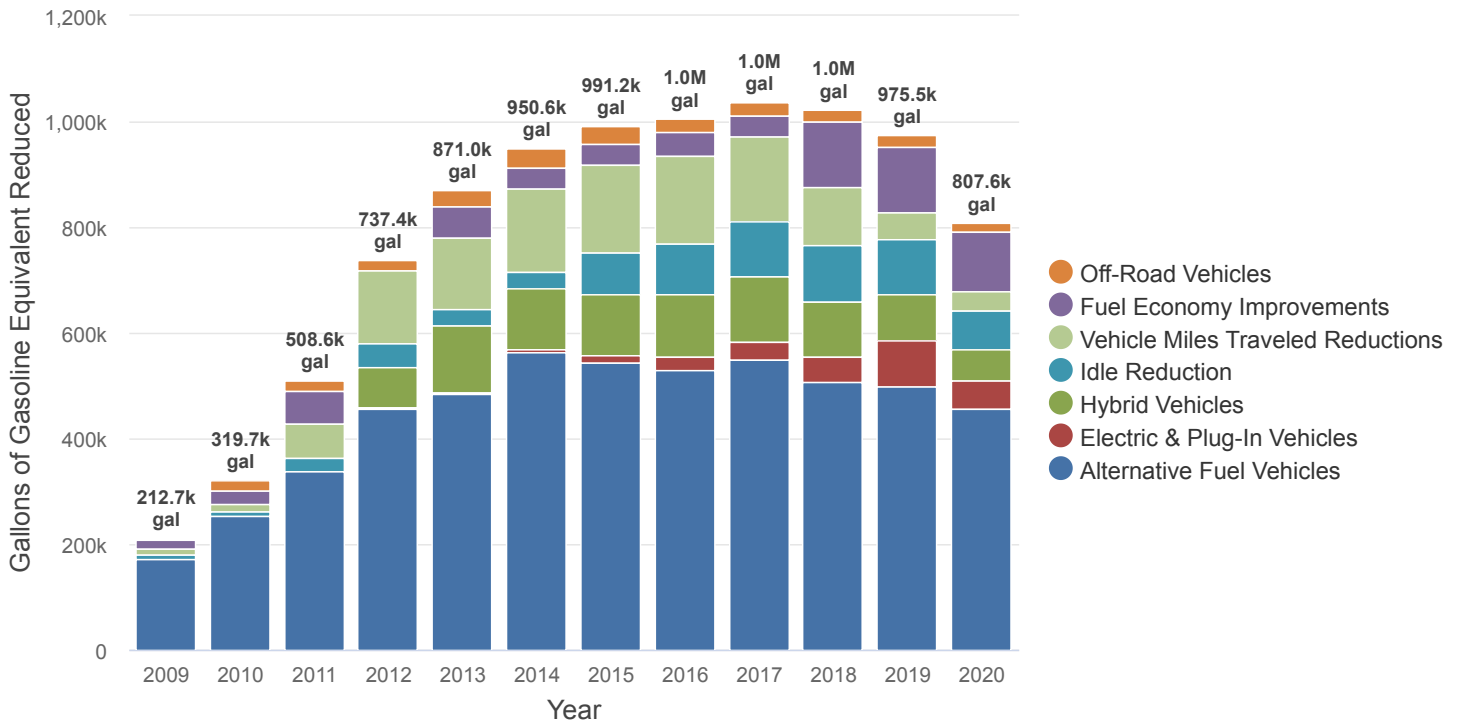


### 2020 Greenhouse Gas Emissions Reduced

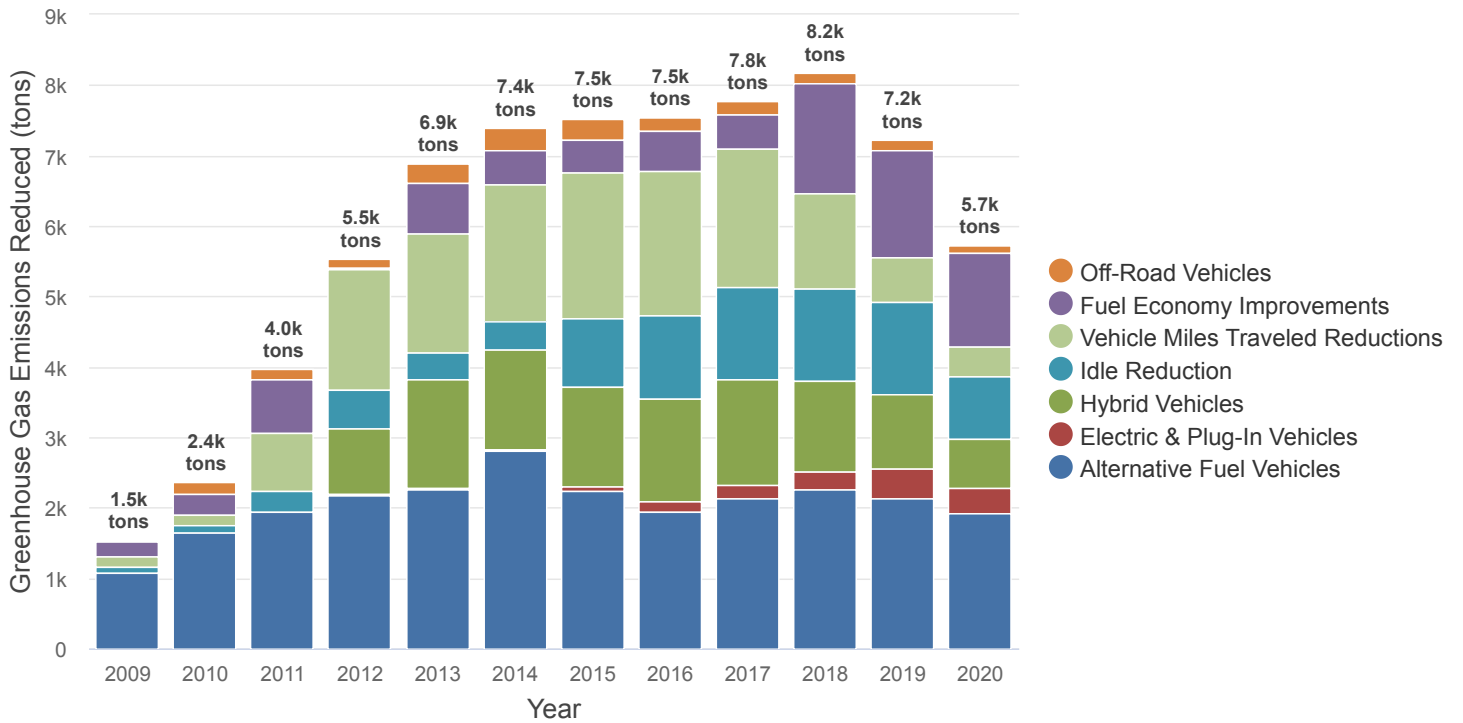
5,719 tons



## Historical Gallons of Gasoline Equivalent Reduced

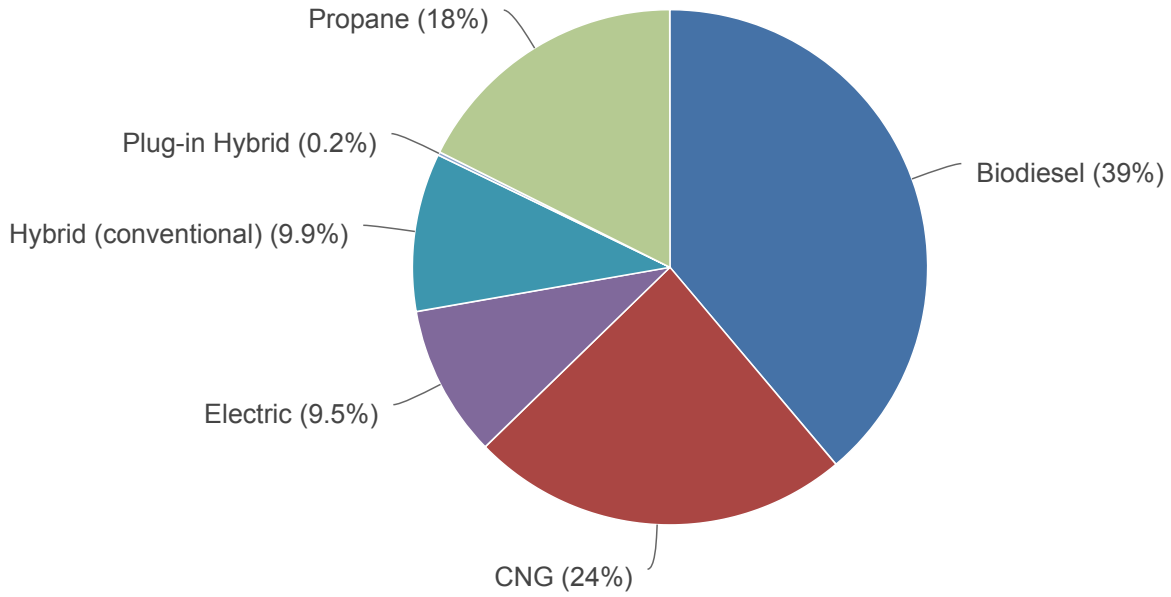


## Historical Greenhouse Gas Emissions Reduced



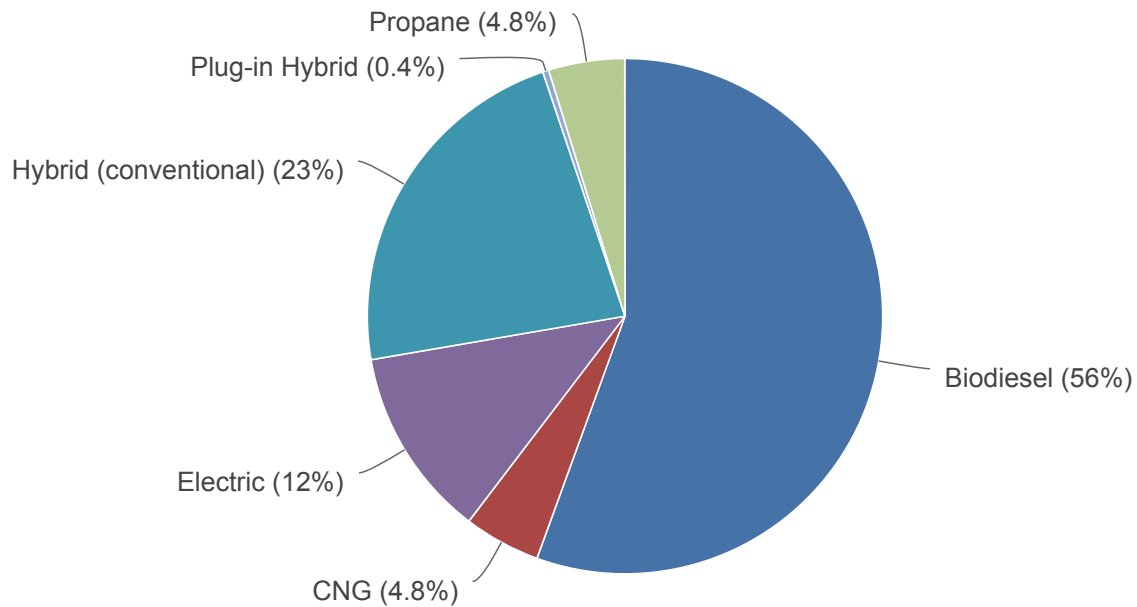
### 2020 Gallons of Gasoline Equivalent Reduced by Fuel Type for Alternative Fuel Projects

585,297 gallons



### 2020 Greenhouse Gas Emissions Reduced by Fuel Type for Alternative Fuel Projects

3,072 tons



## Criteria Pollutant Emissions Reduced

Criteria pollutants are chemicals that have been linked to human health effects and therefore regulated in the Clean Air Act of 1970. Criteria pollutants include nitrogen oxides (NOx) and volatile organic compounds (VOC), both precursors to ozone pollution or smog. They also include particulate matter (PM) grouped into 10 and 2.5 micron sizes. The Clean Cities annual report calculates them using the same assumptions and default values as AFLEET 2016, with some adjustments to fit specific data inputs. They are quantified at vehicle tailpipes, as those are the emissions contributing to the regulated "ambient" air quality of a given city. Upstream emissions from electric power plants, refineries, and biofuel feedstock farms are not included in this summary since those operations typically do not take place in or near population centers where the vehicles are operated and health effects can be documented. When a specific pollutant surpasses a given threshold for a given area, the area is considered to be in "nonattainment" for that pollutant. Nonattainment areas for given pollutants can be viewed at [www.epa.gov/green-book](http://www.epa.gov/green-book). Carbon Monoxide benefits are not included since no Clean Cities coalitions are in nonattainment areas for CO. To learn more about what your emissions numbers mean, please take the Understanding Emissions or Emissions Compliance courses at [Clean Cities University](http://CleanCitiesUniversity.com).

Reductions by Technology*	NOx	VOC**	PM10	PM2.5
CNG - Compressed Natural Gas	3,415 lb	54 lb	1 lb	1 lb
Electric (all-electric)	874 lb	179 lb	11 lb	10 lb
Hybrid (conventional)	34 lb	89 lb	0 lb	0 lb
Plug-in Hybrid	6 lb	9 lb	0 lb	0 lb
Propane	0 lb	35 lb	0 lb	0 lb
VMT Reduction (Gasoline)	142 lb	226 lb	57 lb	12 lb
<b>Total:</b>	<b>4,471 lb</b>	<b>592 lb</b>	<b>70 lb</b>	<b>24 lb</b>

\* This table accounts for criteria pollutants from alternative fuel vehicle, hybrid vehicle, and VMT reduction projects only. It does not include fuel economy, idle reduction, or off-road projects. Negative values indicate an increase in emissions.

\*\* VOC is interchangeable with NMOG (non-methane organic gases) and NMHC (non-methane hydrocarbons) for all purposes relevant to the Clean Cities suite of technologies.

# COALITION

## Land of Sky Clean Vehicles Coalition (Western North Carolina) - NC

<http://www.cleanvehiclescoalition.org/>

**Designated:** 07/26/2012

**Boundaries:** Counties: Buncombe, Haywood, Henderson, Madison, Transylvania

## COORDINATORS

	Address	Telephone	Fax
Sara Nichols		828-206-0884	
Number of coordinators			1
Coordinator(s) hours per week on Clean Cities			30 hours
Other staff hours per week on Clean Cities			30 hours
How long have you been the coordinator?			17 years

## OPERATING INFORMATION

Coalition organizational structure	Hosted in a planning organization (COG/MPO/RPC)
<b>Stakeholders</b>	
Number of stakeholders	55
Number of private stakeholders	30
Does the State Energy Office provide any financial support to the coalition or stakeholders?	No
How would you rate the quality of the data on your survey?	Good
How do you obtain most of your data for the survey?	Coalition records, Estimates, Paper, e-mail, or spreadsheet questionnaire to stakeholders, Phone calls to stakeholders
Has your coalition registered with <a href="http://www.grants.gov">www.grants.gov</a> ?	Yes

## 2020 Outside Funding

Stakeholder dues collected	\$0
How much funding is obtained from other sources to cover coalition operating expenses?	\$5,000
Non-DOE or ARRA grant and matching funds spent in 2020	\$100,000
Total non-DOE or ARRA funding in 2020	\$105,000

## VEHICLE & FUEL INVENTORY

### Alternative Fuel & Vehicles

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
Altech-Eco CNG Fleet	Light-Duty	CNG	9	3,815 GGE	3,624 gal	6.3 tons

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
<b>Market:</b> Corporate Fleet <b>Vehicle type:</b> Pickup/SUV/Van <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - Altech-Eco is a compressed natural gas conversion facility utilizing CNG vehicles for sales, demos and testing annually. QVM Ford Qualified Vehicle Modifier.						
Apple Country Transportation - CNG Shuttle Bus Fleet	Heavy-Duty	CNG	6	10,531 GGE	8,951 gal	5.8 tons
<b>Market:</b> Government - Local <b>Vehicle type:</b> Bus: Shuttle <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - 50% decrease in usage. (6) CNG Shuttles a total 60,824 miles with an average 5.78 MPG. Shuttles being replaced with (6) new CNG Shuttles. Apple Country Transportation/Western Carolina Community Action provides transportation services for Human Services agencies in Henderson County. (5) CNG shuttle buses put in service in September 2013. For 2014 (6) shuttle buses.						
AT&T CNG Vans	Light-Duty	CNG	5	100% of time	3,776 gal	6.5 tons
<b>Miles traveled per vehicle:</b> 10,600 mi <b>Average vehicle fuel economy:</b> 10 MPGge <b>Market:</b> Corporate Fleet <b>Vehicle type:</b> Pickup/SUV/Van <b>Percentage from coalition:</b> 75% <b>National Clean Fleets Partnership:</b> Yes <b>Energy Efficient Mobility Systems Partnership:</b> No 2020- Retired 4 vans 5 remaining. Operates dedicated CNG service vans in the Asheville area. In 2012 LOSRC encouraged AT&T to locate CNG vans in the Asheville area because of the three CNG stations in our region at this time.						
Biltmore Estate - LPG Pickup	Light-Duty	Propane	1	189 gal	143 gal	0.2 tons
<b>Market:</b> Corporate Fleet <b>Vehicle type:</b> Pickup/SUV/Van <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - New this report partial year. Ford F150 LPG pickup for fleet and operations use.						
Biltmore Estate - LPG Shuttle Bus	Light-Duty	Propane	2	4,170 gal	3,157 gal	4.7 tons
<b>Market:</b> Corporate Fleet <b>Vehicle type:</b> Pickup/SUV/Van <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - (6) LPG shuttles retired. 77% reduction due to COVID reduced operations. 2019 - 17% decrease in usage due to (2) shuttles retired and new gas only shuttles put in service. April 2013 with NCDENR MSER Grant funding for (4) propane shuttle conversions covered the incremental cost.						
Biltmore Estate - LPG SUV	Light-Duty	Propane	1	294 gal	223 gal	0.3 tons
<b>Market:</b> Corporate Fleet <b>Vehicle type:</b> Pickup/SUV/Van <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - (1) Ford Expedition LPG retired. 63% reduced usage due to COVID reduced operation. 2019 - (2) Ford Expedition LPG conversions for policing in service April 2013. NCDENR MSER Grant funded the incremental cost of the LPG conversion.						
Blossman / Alliance AutoGas LPG Station - Asheville	Light-Duty	Propane	20	8,340 gal	6,315 gal	9.4 tons



Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
<b>Market:</b> General/Unknown <b>Vehicle type:</b> Pickup/SUV/Van <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No <i>2020 - 20% reduction in usage. 2019 - Retail public propane station in Asheville, NC. Vehicle #'s is an estimate.</i>						
Blossman / Alliance AutoGas LPG Station - Burnsville	Light-Duty	Propane	10	2,720 gal	2,060 gal	3.1 tons
<b>Market:</b> General/Unknown <b>Vehicle type:</b> Pickup/SUV/Van <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No <i>2020 - 20% reduced usage. 2019 - Retail public propane station in Burnsville, NC. Vehicle #'s is an estimate.</i>						
Blossman / Alliance AutoGas LPG Station - Hendersonville	Light-Duty	Propane	10	3,840 gal	2,908 gal	4.3 tons
<b>Market:</b> General/Unknown <b>Vehicle type:</b> Pickup/SUV/Van <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No <i>2020 - 20% reduction in use. 2019 - Retail public propane station in Hendersonville, NC. Vehicle #'s is an estimate.</i>						
Blossman / Alliance AutoGas LPG Station - Sylva	Light-Duty	Propane	15	5,520 gal	4,180 gal	6.2 tons
<b>Market:</b> General/Unknown <b>Vehicle type:</b> Pickup/SUV/Van <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No <i>2020 - 20% reduction in usage. 2019 - Retail public propane station in Sylva, NC. Vehicle #'s is an estimate.</i>						
Blossman / Alliance AutoGas LPG Station - Waynesville	Light-Duty	Propane	15	5,840 gal	4,422 gal	6.6 tons
<b>Market:</b> General/Unknown <b>Vehicle type:</b> Pickup/SUV/Van <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No <i>2020 - 20% reduction in usage. 2019 - Retail public propane station in Waynesville, NC. Vehicle #'s is an estimate.</i>						
Blue Ridge Biofuels - Truck Biodiesel	Heavy-Duty	Biodiesel (20%)	7	5,175 gal	1,103 gal	8.1 tons
<b>Market:</b> Corporate Fleet <b>Vehicle type:</b> Truck: No Trailer <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No <i>2020 - 10% reduction due to covid. 2019 - No change. Average blend B20. Blue Ridge BioFuels operates (7) trucks for the delivery of biodiesel and collection of reclaimed cooking oils within our region. B10, B20, B50, and B99 used throughout the year.</i>						
Blue Ridge Parkway - LPG Pickups	Light-Duty	Propane	2	772 gal	438 gal	0.7 tons
<b>Market:</b> National Parks <b>Vehicle type:</b> Pickup/SUV/Van <b>Percentage from coalition:</b> 75% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No <i>2020 - 46% decrease in usage. 2019 - Slight increase in usage. LOSVC assisted Blue Ridge Parkway with the DOE Clean Cities National Parks Initiative Grant in 2013 to fund 4 Ford LPG pickups. 2 pickups in service in NC. 8,653 combined miles.</i>						

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
Buncombe County CNG Pickups	Light-Duty	CNG	5	3,950 GGE	3,753 gal	6.5 tons
<p><b>Market:</b> Government - Local  <b>Vehicle type:</b> Pickup/SUV/Van  <b>Percentage from coalition:</b> 100%  <b>National Clean Fleets Partnership:</b> No  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p><i>2020 Slight reduction. - CNG pickups near service life and planning to replace in 2021 with hybrid pickups. (5) 2014 CNG Bi-Fuel pickups. Pilot program to evaluate the use of CNG in service fall 2014.</i></p>						
Buncombe County - LPG Police Vehicle	Light-Duty	Propane	4	6,875 gal	5,206 gal	7.7 tons
<p><b>Market:</b> Government - Local  <b>Vehicle type:</b> Patrol Car  <b>Percentage from coalition:</b> 100%  <b>National Clean Fleets Partnership:</b> No  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p><i>2020 - 9% decrease in usage. (2) vehicle taken out of service in Jan 2021. 2018 - Fleet reduced to 4-vehicles and used for transport service Vehicles are being phased out in police patrol. Began in service January 2012 (10) LPG Bi-Fuel Crown Victoria's used in law enforcement investigations.</i></p>						
Carl Sandburg Home Nat. Historic Site	Light-Duty	Propane	2	61 gal	35 gal	0.1 tons
<p><b>Market:</b> National Parks  <b>Vehicle type:</b> Pickup/SUV/Van  <b>Percentage from coalition:</b> 75%  <b>National Clean Fleets Partnership:</b> No  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p><i>2020 - Carl Sandburg Home Nat. Historic Site converted 2-Ford Pickups to propane utilizing DOE Clean Cities National Parks Initiative Grant. Usage low this year due to COVID.</i></p>						
Cherokee Boys Club - Biodiesel Fleet	Heavy-Duty	Biodiesel (99%)	27	12,000 gal	12,659 gal	93.3 tons
<p><b>Market:</b> Government - Local  <b>Vehicle type:</b> Bus: School  <b>Percentage from coalition:</b> 100%  <b>National Clean Fleets Partnership:</b> No  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p><i>2020 - 37% decrease in usage due to COVID. Retired 1 truck. 2019 - 6% increase. Operates (26) school buses and 2 trucks on B20 blend. Makes its own biodiesel from reclaimed cooking oils with a 200 gal / day production capability.</i></p>						
City of Asheville - Biodiesel Heavy Truck	Heavy-Duty	Biodiesel (15%)	98	70,707 gal	11,301 gal	83.3 tons
<p><b>Market:</b> Government - Local  <b>Vehicle type:</b> Truck: No Trailer  <b>Percentage from coalition:</b> 100%  <b>National Clean Fleets Partnership:</b> No  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p><i>2020 - Revaluated the fleet size to 98 units using biodiesel. 2019 - B5 four months in winter; B20 rest of year.</i></p>						
City of Asheville - Biodiesel Refuse Truck	Heavy-Duty	Biodiesel (15%)	17	61,530 gal	9,835 gal	72.5 tons
<p><b>Market:</b> Government - Local  <b>Vehicle type:</b> Truck: Refuse  <b>Percentage from coalition:</b> 100%  <b>National Clean Fleets Partnership:</b> No  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p><i>2020 - Added one vehicle. 6% increase. 2019 - Avg. 9,875 miles per truck; avg. 3 mpg. B5 used 4 winter months; B20 rest of year. Avg. B15. B20 implemented in 2014 vs. B5 began in 2007.</i></p>						
City of Asheville - Biodiesel Transit Fleet	Heavy-Duty	Biodiesel (15%)	28	200,652 gal	32,071 gal	236.3 tons

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
<b>Market:</b> Government - Local <b>Vehicle type:</b> Bus: Transit <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - 10% decrease in fuel usage due to less miles traveled and change of diesel hybrid mix. Total miles 1,099,050. Average of 18 diesel and 10 diesel electric hybrid buses. Added 3 new diesel electric hybrid buses. Retired 2 diesel buses. B5 used 4 mos. in winter; B20 used 8 mos.; B15 avg. Switched to B20 for 2014 vs. B5 began in May 2007.						
City of Asheville - CNG Pickup	Light-Duty	CNG	24	8,965 GGE	8,517 gal	14.7 tons
<b>Market:</b> Government - Local <b>Vehicle type:</b> Pickup/SUV/Van <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - One vehicle retired leaving 24. 12% decrease in usage. 2019 -29% decrease in usage and (1) vehicle out of service for a total of (25) pickups. Estimated 4,017 avg. miles per vehicle. 2018 -(2) vehicles out of service. Avg. miles per vehicle is 5,520; 9.9 avg. mpg. 2012 - CNG pickups expanded through the CBS Grant (ARRA funds) by 25 vehicles.						
City of Asheville - CNG Refuse Truck	Heavy-Duty	CNG	6	13,066 GGE	11,106 gal	7.2 tons
<b>Market:</b> Government - Local <b>Vehicle type:</b> Truck: Refuse <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - 6% increase in usage. Avg. miles per vehicle is 5,954 miles; 2.9 avg. mpg. (6) CNG refuse trucks supported by a time-fill 6-post CNG private fuel station in 2014.						
City of Asheville - CNG Retail Station	Light-Duty	CNG	25	5,086 GGE	4,832 gal	8.3 tons
<b>Market:</b> Government - Local <b>Vehicle type:</b> Unknown/Other <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - City of Asheville, Mission Health, Buncombe County, AT&T and UNC-A CNG fleets documented separately in this report. City of Asheville CNG station is a retail 24/7 public access with VISA/MC credit card use only # of vehicles an estimate. Total dispensed 49,703 gals.						
City of Hendersonville - CNG Streets & Grounds Dump Truck	Heavy-Duty	CNG	2	1,391 GGE	1,183 gal	0.8 tons
<b>Market:</b> Government - Local <b>Vehicle type:</b> Truck: No Trailer <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - 330% increase in usage. (2) CNG dump trucks. Carolina Blue Skies Grant funded by ARRA funds reimbursed the incremental cost of the CNG conversions in service since 2012.						
City of Hendersonville - Recycle Refuse Truck	Heavy-Duty	CNG	1	2,230 GGE	1,895 gal	1.2 tons
<b>Market:</b> Government - Local <b>Vehicle type:</b> Truck: Refuse <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - 100% increase in usage.. Carolina Blue Skies Grant funded by ARRA reimbursed the incremental cost of CNG conversions in service in 2012.						

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
Dominion - Asheville CNG Station Retail Credit Card Sales	Light-Duty	CNG	19	7,550 GGE	7,173 gal	12.4 tons
<p><b>Market:</b> General/Unknown  <b>Vehicle type:</b> Unknown/Other  <b>Percentage from coalition:</b> 100%  <b>National Clean Fleets Partnership:</b> No  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p><i>2020 - Slight decrease. 2019 - 10% increase. The number of vehicles is an estimate based on retail credit card sales. Does not include Dominion fleet. Total dispensed 32,999 GGE's.</i></p>						
Dominion - CNG Truck	Heavy-Duty	CNG	30	25,449 GGE	16,224 gal	10.6 tons
<p><b>Market:</b> Corporate Fleet  <b>Vehicle type:</b> Truck: No Trailer  <b>Percentage from coalition:</b> 75%  <b>National Clean Fleets Partnership:</b> No  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p><i>2020 - Slight decrease. 2019 - 5% increase in usage. Dominion CNG service body trucks in Asheville and Hendersonville.</i></p>						
Dominion - Mills River CNG Station Retail Credit Card Sales	Light-Duty	CNG	10	2,969 GGE	2,821 gal	4.9 tons
<p><b>Market:</b> General/Unknown  <b>Vehicle type:</b> Unknown/Other  <b>Percentage from coalition:</b> 100%  <b>National Clean Fleets Partnership:</b> No  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p><i>2020 - Slight decrease. 2019 - 5% increase. Dominion opened a public access CNG station at their facility in Mills River, NC in September 2015. The number of vehicles is an estimate based on retail credit card sales. Does not include Dominion fleet.</i></p>						
Gas-Up Retail Biodiesel	Light-Duty	Biodiesel (43%)	25	16,749 gal	9,209 gal	98.7 tons
<p><b>Market:</b> General/Unknown  <b>Vehicle type:</b> Unknown/Other  <b>Percentage from coalition:</b> 100%  <b>National Clean Fleets Partnership:</b> No  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p><i>2020 - 30% decrease in usage and an avg. B43 blend annually. 2019 - 4% increase in GGE reduction. B47 avg. blend annually. Biodiesel supplied by Blue Ridge BioFuels. Number of of vehicles an estimate.</i></p>						
Gray Line Trolley - Propane	Light-Duty	Propane	1	2,064 gal	1,563 gal	2.3 tons
<p><b>Market:</b> Corporate Fleet  <b>Vehicle type:</b> Pickup/SUV/Van  <b>Percentage from coalition:</b> 100%  <b>National Clean Fleets Partnership:</b> No  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p><i>2020 - New this report. Gray Line Tours of Asheville converted one trolley to propane for tourist tours partial year.</i></p>						
Great Smoky Mountains National Park - Biodiesel	Heavy-Duty	Biodiesel (20%)	15	8,000 gal	1,279 gal	9.4 tons
<p><b>Market:</b> National Parks  <b>Vehicle type:</b> Truck: No Trailer  <b>Percentage from coalition:</b> 75%  <b>National Clean Fleets Partnership:</b> No  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p><i>2020 - 20% reduction in use due to COVID.  2019 - No change. (15) medium &amp; heavy duty trucks on the NC side of park.</i></p>						
Great Smoky Mountains National Park - Propane Pickup	Light-Duty	Propane	1	632 gal	359 gal	0.5 tons

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
<b>Market:</b> National Parks <b>Vehicle type:</b> Pickup/SUV/Van <b>Percentage from coalition:</b> 75% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - 20% reduced usage. 2019 - No change. 2016 Ford Bi-Fuel Propane Pickup ICOM system. Funded through the National Parks Initiative. LOSCVC assisted with TN Clean Fuels Coalition.						
Haywood Public Transit - LPG Shuttle Vans	Light-Duty	Propane	12	13,499 gal	10,221 gal	15.2 tons
<b>Market:</b> Government - Local <b>Vehicle type:</b> Pickup/SUV/Van <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - Added 6 new shuttles for a total of 12. Usage increased 22%. 6 LPG shuttle vans began operation in February 2013.						
Henderson County - CNG Pickups	Light-Duty	CNG	9	4,861 GGE	4,618 gal	8.0 tons
<b>Market:</b> Government - Local <b>Vehicle type:</b> Pickup/SUV/Van <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - 15% decrease in usage. 2019 - Added (2) trucks. 10% increase in usage. Ford CNG pickups used in various departments for inspections and maintenance.						
Henderson County CNG Retail Station	Light-Duty	CNG	15	3,101 GGE	2,946 gal	5.1 tons
<b>Market:</b> General/Unknown <b>Vehicle type:</b> Unknown/Other <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - Retail use only. Henderson County CNG Station public access open 24/7 retail credit sales only. Vehicles is an estimate. Henderson County, Apple Country and City of Hendersonville not included in station retail sales. Total dispensed is 16,515.05 gals. # of retail vehicles estimated.						
Jackson County Transit LPG Shuttle Vans	Light-Duty	Propane	7	8,475 gal	6,417 gal	9.5 tons
<b>Market:</b> Government - Local <b>Vehicle type:</b> Pickup/SUV/Van <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - 37% decrease in usage covid related. in usage. Jackson County Transit operates (7) Ford E350 shuttle vans. Program began in 2014.						
Leading Green Distributors	Heavy-Duty	Biodiesel (80%)	5	830 gal	708 gal	5.2 tons
<b>Market:</b> Corporate Fleet <b>Vehicle type:</b> Truck: No Trailer <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - Blend B80 increased from B43. 12% increase in GGE reduced. 2019 - 664% increase in GGE reduction. Leading Green Distributors transport sustainable produce from farm to restaurants and grocers utilizing a B20 biodiesel fleet located in Black Mountain. New for 2014.						
Macon County Transit - LPG Shuttle Vans	Light-Duty	Propane	14	24,509 gal	18,558 gal	27.5 tons

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
<b>Market:</b> Government - Local <b>Vehicle type:</b> Pickup/SUV/Van <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - Slight decrease. (1) additional van in 2019. MY 2010 & 2012 Ford E450. MY 2013, 2014 Ford E350 and MY 2016 Ford Transit. Vehicles travel approximately 200 miles per day.						
M B Haynes - Propane	Light-Duty	Propane	9	6,109 gal	4,626 gal	6.9 tons
<b>Market:</b> Corporate Fleet <b>Vehicle type:</b> Pickup/SUV/Van <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - 483% increase. Expanded to nine LPG pickups and vans. 2019 - pilot project with 2 Service Vans. if successful add more LPG vehicles in 2020.						
Meals on Wheels - LPG	Light-Duty	Propane	2	1,012 gal	766 gal	1.1 tons
<b>Market:</b> General/Unknown <b>Vehicle type:</b> Pickup/SUV/Van <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - Slight decrease in usage. Meals on Wheels operates a 2012 & 2013 Chevy Van on propane for delivery.						
Mission Health - CNG Shuttle Bus	Heavy-Duty	CNG	2	1,399 GGE	1,189 gal	0.8 tons
<b>Market:</b> Corporate Fleet <b>Vehicle type:</b> Bus: Shuttle <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - No change. 2019 - 10% decrease in usage. (2) CNG 2012 Chevrolet 4500 4WD cutaway shuttle buses in service October 2012. Carolina Blue Skies Grant (ARRA) funded the incremental cost of the CNG conversions. Shuttles used for transportation on the hospital campus.						
Montreat College - Propane	Light-Duty	Propane	1	744 gal	563 gal	0.8 tons
<b>Market:</b> General/Unknown <b>Vehicle type:</b> Pickup/SUV/Van <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - First full year usage. 2019 - New this report. 1-Ford Transit Shuttle van used for student transport began Q3 2019.						
Mountain Mobility - CNG Shuttle Bus	Heavy-Duty	CNG	5	16,739 GGE	14,228 gal	9.3 tons
<b>Market:</b> Government - Local <b>Vehicle type:</b> Bus: Shuttle <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - 4% decrease in usage. The CNG shuttle fleet began in July 2011.						
Mountain Mobility - LPG Shuttle Bus	Light-Duty	Propane	25	14,922 gal	11,299 gal	16.8 tons
<b>Market:</b> Government - Local <b>Vehicle type:</b> Pickup/SUV/Van <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - 20% increase in usage. 2019 - Retired old shuttles added (25) new shuttles in service June. LPG shuttle buses in operation since July 2010.						

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
MSD - Biodiesel Truck Fleet	Heavy-Duty	Biodiesel (20%)	44	66,043 gal	14,075 gal	103.7 tons
<p><b>Market:</b> Government - Local  <b>Vehicle type:</b> Truck: No Trailer  <b>Percentage from coalition:</b> 100%  <b>National Clean Fleets Partnership:</b> No  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p>2020 - No change.. Metropolitan Sewerage District serves 42,000 residents and businesses in Buncombe County area utilizing B20 in their fleet. 8,750 miles/veh. 5.82 avg. mpg</p>						
NC-CNG Retail Fuel Station	Light-Duty	CNG	20	10,512 GGE	9,986 gal	17.2 tons
<p><b>Market:</b> General/Unknown  <b>Vehicle type:</b> Unknown/Other  <b>Percentage from coalition:</b> 100%  <b>National Clean Fleets Partnership:</b> No  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p>2020 - No change. Station operated by Transeco Corporation it is public access open 24/7. Fuel reported is retail MC/VISA credit card sales only. Number of vehicles is estimated by different credit cards used. Altech-Eco Fleet not included. 14,327 GGE's total dispensed.</p>						
NCDOT - Biodiesel Truck Fleet	Heavy-Duty	Biodiesel (20%)	495	759,259 gal	121,356 gal	894.3 tons
<p><b>Market:</b> Government - State  <b>Vehicle type:</b> Truck: No Trailer  <b>Percentage from coalition:</b> 75%  <b>National Clean Fleets Partnership:</b> No  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p>2020 33% increase due switching to biodiesel from diesel in additional counties. NCDOT Div. 13 &amp; 14 B20 biodiesel use in the coalition's nine Western North Carolina region in an estimated (470) NCDOT heavy duty trucks.</p>						
Schwan's - Medium-duty Propane	Light-Duty	Propane	4	17,270 gal	9,807 gal	14.6 tons
<p><b>Market:</b> Corporate Fleet  <b>Vehicle type:</b> Pickup/SUV/Van  <b>Percentage from coalition:</b> 75%  <b>National Clean Fleets Partnership:</b> Yes  <b>Energy Efficient Mobility Systems Partnership:</b> No</p>						
Town of Black Mountain - Biodiesel Truck Fleet	Heavy-Duty	Biodiesel (20%)	20	3,587 gal	764 gal	5.6 tons
<p><b>Market:</b> Government - Local  <b>Vehicle type:</b> Truck: No Trailer  <b>Percentage from coalition:</b> 100%  <b>National Clean Fleets Partnership:</b> No  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p>2020 - Slight increase. 2019 - 28% decrease in usage. Fueling infrastructure supplied by Blue Ridge Bio Fuels. Used for the Public Works 20+ diesel fleet.</p>						
Town of Waynesville - Biodiesel Fire Truck Fleet	Heavy-Duty	Biodiesel (5%)	7	5,500 gal	293 gal	2.2 tons
<p><b>Market:</b> Government - Local  <b>Vehicle type:</b> Truck: No Trailer  <b>Percentage from coalition:</b> 100%  <b>National Clean Fleets Partnership:</b> No  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p>2020 - Slight decrease in usage. Utilized in (7) Fire Trucks. Town of Waynesville mandated the use of B5 biodiesel in 2015.</p>						
Town of Waynesville - Police LPG Fleet	Light-Duty	Propane	19	6,300 gal	4,770 gal	7.1 tons

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
<b>Market:</b> Government - Local <b>Vehicle type:</b> Patrol Car <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - 51% decrease in usage. 2019 -32% decrease and one less vehicle. Town of Waynesville implemented (17) Dodge Charger LPG police vehicles mid year 2014. Add 3 police vehicles in 2016.						
Town of Waynesville - Public Works Biodiesel Refuse Fleet	Heavy-Duty	Biodiesel (5%)	7	13,500 gal	719 gal	5.3 tons
<b>Market:</b> Government - Local <b>Vehicle type:</b> Truck: Refuse <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - 10% decrease in usage and retired one refuse truck. Town of Waynesville mandated B5 biodiesel in their municipal fleet in 2015.						
Town of Waynesville - Public Works Biodiesel Truck Fleet	Heavy-Duty	Biodiesel (5%)	32	24,000 gal	1,279 gal	9.4 tons
<b>Market:</b> Government - Local <b>Vehicle type:</b> Truck: No Trailer <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - 4% increase in usage. B5 utilized in the Public Works Department Fleet. Town of Waynesville mandated the use of B5 biodiesel in 2015.						
Town of Waynesville - Public Works LPG LD Fleet	Light-Duty	Propane	6	2,500 gal	1,893 gal	2.8 tons
<b>Market:</b> Government - Local <b>Vehicle type:</b> Pickup/SUV/Van <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - 17% decrease in usage and reduced to 6 vehicles. 2014 - Town of Waynesville implemented (3) Ford LPG pickups mid year. 2015 - Increased LPG Light duty fleet to a total of (7) vehicles.						
UNC Asheville - Biodiesel Shuttle	Heavy-Duty	Biodiesel (10%)	3	600 gal	48 gal	0.4 tons
<b>Market:</b> Government - State <b>Vehicle type:</b> Bus: Shuttle <b>Percentage from coalition:</b> 75% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - Slight increase. 2019 - Slight increase in fuel usage. Operates (3) shuttle buses for student parking. Uses B10. Plans to replace with bi-fuel propane/gasoline shuttles. in 2021.						
UNC-Asheville CNG Truck	Light-Duty	CNG	1	500 GGE	356 gal	0.6 tons
<b>Market:</b> Government - State <b>Vehicle type:</b> Pickup/SUV/Van <b>Percentage from coalition:</b> 75% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - No change. 2019 - Retired the CNG Ford Transit Connect. Leaves (1) CNG Ford Pickup.						
Warren Wilson College - Biodiesel Truck	Heavy-Duty	Biodiesel (20%)	8	694 gal	148 gal	1.1 tons



Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
<b>Market:</b> General/Unknown <b>Vehicle type:</b> Truck: No Trailer <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - 47% decrease in usage. 2019 - 9% decrease in usage. B20 (8) Pickups & dump trucks.						
Warren Wilson College - Truck LPG	Light-Duty	Propane	1	90% of time	89 gal	0.1 tons
<b>Miles traveled per vehicle:</b> 1,560 mi <b>Average vehicle fuel economy:</b> 12 MPGge <b>Market:</b> General/Unknown <b>Vehicle type:</b> Pickup/SUV/Van <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - 81% decrease due to College shutdown in March 2020. 1994 LPG pickup used for maintenance operations. MPG is estimate.						
Waste Industries - CNG	Heavy-Duty	CNG	3	38,052 GGE	32,344 gal	21.1 tons
<b>Market:</b> Corporate Fleet <b>Vehicle type:</b> Truck: Refuse <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 -5% decrease. 2019 - 5% increase in usage. Current fleet has 14 CNG refuse trucks. (3) CNG refuse trucks dedicated for use in the LOSCVC 5-county region. All-Bright Sanitation sold to Waste Industries in 2014. Began CNG operation in July 2011.						
<b>Total:</b>			<b>1,219</b>		<b>456,384 gal</b>	<b>1,925 tons</b>

## Electric, Hybrid & Plug-in Vehicles

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
AT&T - Hybrid	Light-Duty	HEV	12	2,568 gal	30.5 tons
<b>Average vehicle fuel economy:</b> 46 MPG <b>Miles traveled per vehicle per year:</b> 10,095 mi <b>Market:</b> Corporate Fleet <b>Vehicle type:</b> Car <b>Percentage from coalition:</b> 75% <b>National Clean Fleets Partnership:</b> Yes <b>Workplace Charging Challenge:</b> - <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - Added 5 hybrids for a total of 12. 2019 - New this report. Hybrids used for administrative use.					
Blue Ridge Parkway - CMAX Hybrid	Light-Duty	HEV	2	336 gal	4.0 tons
<b>Average vehicle fuel economy:</b> 40 MPG <b>Miles traveled per vehicle per year:</b> 3,614 mi <b>Market:</b> National Parks <b>Vehicle type:</b> Car <b>Percentage from coalition:</b> 75% <b>National Clean Fleets Partnership:</b> No <b>Workplace Charging Challenge:</b> - <b>Energy Efficient Mobility Systems Partnership:</b> No 2020- 43% decrease in usage. (2) Ford CMAX replaced 91 Dodge PU and 93 Chev Caprice. LOSCVC assisted Blue Ridge Parkway with the DOE Clean Cities National Parks Initiative Grant in 2013 to fund (4) Ford CMAX hybrids. (2) used on NC side of Parkway. 12,634 miles combined.					
Blue Ridge Parkway - Honda Civic HEV	Light-Duty	HEV	1	15 gal	0.2 tons

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
<p>Average vehicle fuel economy: 33 MPG  Miles traveled per vehicle per year: 344 mi  Market: National Parks  Vehicle type: Car  Percentage from coalition: 75%  National Clean Fleets Partnership: No  Workplace Charging Challenge: -  Energy Efficient Mobility Systems Partnership: No</p> <p>2020 - New this report partial year only 345 miles used 10.45 gals. unleaded .</p>					
Blue Ridge Parkway - Hyundai Ioniq	Light-Duty	HEV	2	337 gal	4.0 tons
<p>Average vehicle fuel economy: 59 MPG  Miles traveled per vehicle per year: 5,363 mi  Market: National Parks  Vehicle type: Car  Percentage from coalition: 75%  National Clean Fleets Partnership: No  Workplace Charging Challenge: -  Energy Efficient Mobility Systems Partnership: No</p> <p>2020 - Slight decrease. 2019 - 46% decrease in usage. 2017 Hyundai Ioniq Hybrid used for administrative and outreach.</p>					
Buncombe County - Escape Hybrid	Light-Duty	HEV	5	278 gal	3.3 tons
<p>Average vehicle fuel economy: 27 MPG  Miles traveled per vehicle per year: 1,874 mi  Market: Government - Local  Vehicle type: Pickup/SUV/Van  Percentage from coalition: 100%  National Clean Fleets Partnership: No  Workplace Charging Challenge: -  Energy Efficient Mobility Systems Partnership: No</p> <p>2020 -2008 Ford Escape Hybrid. Used as spares in Fleet motor pool. (1) taken out of service Feb 2021.</p>					
Buncombe County - Police Ford Explorer P.I. Hybrid	Light-Duty	HEV	5	5,135 gal	60.9 tons
<p>Average vehicle fuel economy: 25 MPG  Miles traveled per vehicle per year: 19,450 mi  Market: Government - Local  Vehicle type: Patrol Car  Percentage from coalition: 100%  National Clean Fleets Partnership: No  Workplace Charging Challenge: -  Energy Efficient Mobility Systems Partnership: No</p> <p>2020 - New this report. (5) 2020 Ford Explorer Police Interceptor Hybrid. Replaced Ford Crown Victoria's P.I. \$0.07/mile vs. \$0.13/mile cost for Ford Crown Victoria. \$5,834.88 total savings in 2020. Successful pilot project resulting (24) units purchased for implementation in 2021.</p>					
Buncombe County - Prius Hybrid	Light-Duty	HEV	2	62 gal	0.7 tons
<p>Average vehicle fuel economy: 46 MPG  Miles traveled per vehicle per year: 1,449 mi  Market: Government - Local  Vehicle type: Car  Percentage from coalition: 100%  National Clean Fleets Partnership: No  Workplace Charging Challenge: -  Energy Efficient Mobility Systems Partnership: No</p> <p>2020 - 2008 Toyota Prius - Low usage moved to Motor Fleet.</p>					
Buncombe County - Volt PHEV	Light-Duty	PHEV	1	68 gal	0.7 tons

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
<p>Average vehicle fuel economy: 42 MPG  Miles traveled per vehicle per year: 2,604 mi  Market: Government - Local  Vehicle type: Car  Percentage from coalition: 100%  National Clean Fleets Partnership: No  Workplace Charging Challenge: -  Energy Efficient Mobility Systems Partnership: No</p> <p>2020 - Slight increase. Used in Information Technology.</p>					
City of Asheville - BOLT EV	Light-Duty	Electric	3	850 gal	7.0 tons
<p>Average electric fuel economy: 28 kWh/100mi  Miles traveled per vehicle per year: 6,800 mi  Market: Government - Local  Vehicle type: Car  Percentage from coalition: 100%  National Clean Fleets Partnership: No  Workplace Charging Challenge: -  Energy Efficient Mobility Systems Partnership: No</p> <p>2020 - New this report. 3 Chevy Bolt EV's used in Parking Enforcement.</p>					
City of Asheville - Ford Escape Hybrid	Light-Duty	HEV	11	2,407 gal	28.6 tons
<p>Average vehicle fuel economy: 29 MPG  Miles traveled per vehicle per year: 6,800 mi  Market: Government - Local  Vehicle type: Pickup/SUV/Van  Percentage from coalition: 100%  National Clean Fleets Partnership: No  Workplace Charging Challenge: -  Energy Efficient Mobility Systems Partnership: No</p> <p>2020 Added 2 vehicles. 18% increase in usage. 2019 - No change. Escape hybrids used in Fire, Police, Public Works and Water departments.</p>					
City of Asheville GEM Electric	Light-Duty	Electric	9	399 gal	3.9 tons
<p>Average electric fuel economy: 17 kWh/100mi  Miles traveled per vehicle per year: 975 mi  Market: Government - Local  Vehicle type: Low-Speed/Neighborhood  Percentage from coalition: 100%  National Clean Fleets Partnership: No  Workplace Charging Challenge: -  Energy Efficient Mobility Systems Partnership: No</p> <p>2020 - Retired 2 GEM's. 2019 - No change. 2017 - Added one unit. GEM NEV's used for policing, parking enforcement, grounds maintenance and courier services. 17 kWh/100 miles calculation from GEM staff.</p>					
City of Asheville Hybrid Pilot	Light-Duty	HEV	8	2,348 gal	27.9 tons
<p>Average vehicle fuel economy: 30 MPG  Miles traveled per vehicle per year: 7,706 mi  Market: Government - Local  Vehicle type: Car  Percentage from coalition: 100%  National Clean Fleets Partnership: No  Workplace Charging Challenge: -  Energy Efficient Mobility Systems Partnership: No</p> <p>2020 - Added 4 vehicles for a total of 8. 2018 - New this report. 2- Ford Fusion Hybrids and 2 - Ford CMAX Hybrids for trial in the Police Department. Replaced Chevy Impala Police Pkg vehicles.</p>					
City of Asheville - Police Ford Explorer P.I. Hybrid	Light-Duty	HEV	5	1,761 gal	20.9 tons

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
<p><b>Average vehicle fuel economy:</b> 24 MPG  <b>Miles traveled per vehicle per year:</b> 6,800 mi  <b>Market:</b> Government - Local  <b>Vehicle type:</b> Patrol Car  <b>Percentage from coalition:</b> 100%  <b>National Clean Fleets Partnership:</b> No  <b>Workplace Charging Challenge:</b> -  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p><i>2020 - New this report. (5) 2020 Ford Explorer Police Interceptor Hybrid. Replaced Ford Crown Victoria's P.I. Partial year usage.</i></p>					
City of Asheville Transit Diesel-Electric Hybrid Bus	Heavy-Duty	HEV	10	16,963 gal	203.3 tons
<p><b>Average vehicle fuel economy:</b> 6 MPG  <b>Miles traveled per vehicle per year:</b> 42,248 mi  <b>Market:</b> Government - Local  <b>Vehicle type:</b> Bus: Transit  <b>Percentage from coalition:</b> 100%  <b>National Clean Fleets Partnership:</b> No  <b>Workplace Charging Challenge:</b> -  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p><i>2020 - 20% decrease in usage due to COVID. Added 3 new diesel-electric hybrids. Operates (10) Gillig 30-foot diesel-electric hybrid buses. Replaced old, inefficient transit bus averaging 5.1 MPG. (5) in operation since April 2011, (2) added in 2012 and (3) added in 2020.</i></p>					
City of Asheville Transit - Proterra Electric	Heavy-Duty	Electric	5	23,803 gal	144.2 tons
<p><b>Electricity used:</b> 264,588 kWh  <b>Market:</b> Government - Local  <b>Vehicle type:</b> Bus: Transit  <b>Percentage from coalition:</b> 100%  <b>National Clean Fleets Partnership:</b> No  <b>Workplace Charging Challenge:</b> -  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p><i>2020 - First full year in service. 30,419 avg. miles per bus, 2019 - (5) 35-Ft Proterra Catalyst Electrics in service for 9 months this year.</i></p>					
City of Asheville - Volt Police Enforcement Vehicle	Light-Duty	PHEV	1	174 gal	1.9 tons
<p><b>Average vehicle fuel economy:</b> 42 MPG  <b>Miles traveled per vehicle per year:</b> 2,591 mi  <b>Market:</b> Government - Local  <b>Vehicle type:</b> Patrol Car  <b>Percentage from coalition:</b> 100%  <b>National Clean Fleets Partnership:</b> No  <b>Workplace Charging Challenge:</b> -  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p><i>2020 - 70% reduced usage. 2019 - No change. 2012 Volt for police use in service in September 2012.</i></p>					
CSD Consulting Hybrid	Light-Duty	HEV	1	29 gal	0.3 tons
<p><b>Average vehicle fuel economy:</b> 48 MPG  <b>Miles traveled per vehicle per year:</b> 987 mi  <b>Market:</b> Government - Local  <b>Vehicle type:</b> Car  <b>Percentage from coalition:</b> 100%  <b>National Clean Fleets Partnership:</b> No  <b>Workplace Charging Challenge:</b> -  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p><i>2020 - 75% decrease in usage due to COVID restrictions. 2013 Toyota Prius used for administrative work for the Land of Sky Clean Vehicles Coalition.</i></p>					
Great Smoky Mountain National Park - EVSE Station	Light-Duty	Electric	4	4 gal	0.0 tons

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
<p>Electricity used: 52 kWh  Market: National Parks  Vehicle type: Car  Percentage from coalition: 75%  National Clean Fleets Partnership: No  Workplace Charging Challenge: -  Energy Efficient Mobility Systems Partnership: No</p> <p>2020 - No change. Level 2 charger out of service DCFC only used four times. Investigating unreliability. Funded through the National Parks Initiative. LOSCVC assisted with TN Clean Fuels Coalition. In service September 2015.</p>					
Great Smoky Mountains National Park - Electric Truck	Light-Duty	Electric	1	18 gal	0.2 tons
<p>Average electric fuel economy: 20 kWh/100mi  Miles traveled per vehicle per year: 360 mi  Market: National Parks  Vehicle type: Low-Speed/Neighborhood  Percentage from coalition: 75%  National Clean Fleets Partnership: No  Workplace Charging Challenge: -  Energy Efficient Mobility Systems Partnership: No</p> <p>2020 - 20% reduced use due to COVID. Funded through the National Parks Initiative. LOSCVC assisted with TN Clean Fuels Coalition. Great Smoky Mountains National Park utilizes (1) electric truck for maintenance NC side of park in service September 2015.</p>					
Great Smoky Mountains National Park - Escape Hybrids	Light-Duty	HEV	7	405 gal	4.8 tons
<p>Average vehicle fuel economy: 20 MPG  Miles traveled per vehicle per year: 3,600 mi  Market: National Parks  Vehicle type: Pickup/SUV/Van  Percentage from coalition: 75%  National Clean Fleets Partnership: No  Workplace Charging Challenge: -  Energy Efficient Mobility Systems Partnership: No</p> <p>2020 - 20% reduced usage due to COVID. Ford Hybrid Escapes for education, outreach and fuel/emissions reductions on NC Side of park. Coalition got 100% funding through CMAQ for these vehicles in 2012.</p>					
Great Smoky Mountains National Park - Prius Hybrid	Light-Duty	HEV	2	187 gal	2.2 tons
<p>Average vehicle fuel economy: 46 MPG  Miles traveled per vehicle per year: 4,400 mi  Market: National Parks  Vehicle type: Car  Percentage from coalition: 75%  National Clean Fleets Partnership: No  Workplace Charging Challenge: -  Energy Efficient Mobility Systems Partnership: No</p> <p>2020 - 20% reduced usage due to COVID. (2) Toyota Prius for administrative and education outreach on NC side of park.</p>					
Haywood Community College - Prius	Light-Duty	HEV	1	23 gal	0.3 tons
<p>Average vehicle fuel economy: 50 MPG  Miles traveled per vehicle per year: 770 mi  Market: Government - Local  Vehicle type: Car  Percentage from coalition: 100%  National Clean Fleets Partnership: No  Workplace Charging Challenge: -  Energy Efficient Mobility Systems Partnership: No</p> <p>2020 - 82% reduction due to COVID closing college. 2019 - 30% decrease in use. Prius Hybrid for administrative use. .</p>					
Henderson County - Prius Hybrid	Light-Duty	HEV	3	475 gal	5.6 tons

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
<p><b>Average vehicle fuel economy:</b> 44 MPG  <b>Miles traveled per vehicle per year:</b> 3,600 mi  <b>Market:</b> Government - Local  <b>Vehicle type:</b> Car  <b>Percentage from coalition:</b> 100%  <b>National Clean Fleets Partnership:</b> No  <b>Workplace Charging Challenge:</b> -  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p><i>2020 - 75% reduction in use. Henderson County replaced full-size vehicles and a SUV with three 2015 Toyota Prius for the Health Dept. and DSS. In service in September 2015.</i></p>					
J&J Cab - Car Hybrid Fleet	Light-Duty	HEV	14	18,627 gal	221.0 tons
<p><b>Average vehicle fuel economy:</b> 42 MPG  <b>Miles traveled per vehicle per year:</b> 38,000 mi  <b>Market:</b> Taxis  <b>Vehicle type:</b> Car  <b>Percentage from coalition:</b> 100%  <b>National Clean Fleets Partnership:</b> No  <b>Workplace Charging Challenge:</b> -  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p><i>2020 - 20% decrease due to COVID. 2019 - Slight decrease. Average 47,500 miles per vehicle/annually. 2016 - usage off 38% the curse of UBER/LYFT. Averaging 50,000 miles/hybrid. 2015 - Operates (12) Toyota Prius and (2) Toyota Camry averaging 80,000 miles per vehicle. Expanded from (7) hybrids in 2011. Utilized in four different cab companies in the Asheville area.</i></p>					
NC Arboretum - Prius c Hybrid	Light-Duty	HEV	1	122 gal	1.4 tons
<p><b>Average vehicle fuel economy:</b> 46 MPG  <b>Miles traveled per vehicle per year:</b> 6,500 mi  <b>Market:</b> Government - State  <b>Vehicle type:</b> Car  <b>Percentage from coalition:</b> 75%  <b>National Clean Fleets Partnership:</b> No  <b>Workplace Charging Challenge:</b> -  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p><i>2020 - 50% reduced usage. - Toyota Prius c with educational wrap used for events and state travel. 6 months operation in 2017.</i></p>					
NCDENR DAQ - Chevy Volt PHEV	Light-Duty	PHEV	1	108 gal	1.1 tons
<p><b>Average vehicle fuel economy:</b> 40 MPG  <b>Miles traveled per vehicle per year:</b> 3,911 mi  <b>Market:</b> Government - Local  <b>Vehicle type:</b> Car  <b>Percentage from coalition:</b> 100%  <b>National Clean Fleets Partnership:</b> No  <b>Workplace Charging Challenge:</b> -  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p><i>2020 - 66% decrease in usage due to virtual meeting vs. in person events cancelled. 2019 Chevy Volt used for Education &amp; Outreach programs and Administration. Began in service May 2019.</i></p>					
Town of Black Mountain - GEM Electric	Light-Duty	Electric	1	77 gal	0.8 tons
<p><b>Average electric fuel economy:</b> 17 kWh/100mi  <b>Miles traveled per vehicle per year:</b> 1,150 mi  <b>Market:</b> Government - Local  <b>Vehicle type:</b> Unknown/Other  <b>Percentage from coalition:</b> 100%  <b>National Clean Fleets Partnership:</b> No  <b>Workplace Charging Challenge:</b> -  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p><i>2020- Slight decrease in usage. Police department utilizes a GEM NEV for community policing on green-ways. 17 kWh/100 miles calculation from GEM staff.</i></p>					
Town of Waynesville - HEV Car	Light-Duty	HEV	2	700 gal	8.3 tons

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
<p>Average vehicle fuel economy: 48 MPG  Miles traveled per vehicle per year: 12,000 mi  Market: Government - Local  Vehicle type: Car  Percentage from coalition: 100%  National Clean Fleets Partnership: No  Workplace Charging Challenge: -  Energy Efficient Mobility Systems Partnership: No</p> <p>2020 - Slight decrease in usage. Town of Waynesville (2) Toyota Prius.</p>					
Town of Waynesville - Leaf EV	Light-Duty	Electric	1	147 gal	1.3 tons
<p>Average electric fuel economy: 30 kWh/100mi  Miles traveled per vehicle per year: 2,500 mi  Market: Government - Local  Vehicle type: Car  Percentage from coalition: 100%  National Clean Fleets Partnership: No  Workplace Charging Challenge: -  Energy Efficient Mobility Systems Partnership: No</p> <p>2020 - No change. Nissan Leaf in service in mid-December 2016.</p>					
Town of Waynesville - PHEV Fleet	Light-Duty	PHEV	2	821 gal	7.7 tons
<p>Average vehicle fuel economy: 70 MPG  Miles traveled per vehicle per year: 11,500 mi  Market: Government - Local  Vehicle type: Car  Percentage from coalition: 100%  National Clean Fleets Partnership: No  Workplace Charging Challenge: -  Energy Efficient Mobility Systems Partnership: No</p> <p>2020 - No change. Town of Waynesville put in service (1) Ford Fusion Energi PHEV in 2016. For 2015 added a Chevy Volt. Actual 70 mpge.</p>					
Town of Weaverville - Police Ford Explorer P.I. Hybrid	Light-Duty	HEV	3	2,187 gal	25.9 tons
<p>Average vehicle fuel economy: 25 MPG  Miles traveled per vehicle per year: 13,637 mi  Market: Government - Local  Vehicle type: Patrol Car  Percentage from coalition: 100%  National Clean Fleets Partnership: No  Workplace Charging Challenge: -  Energy Efficient Mobility Systems Partnership: No</p> <p>New this report. 3 - 2020 Ford Explorer P. I. Hybrid in service partial year. Plan to add additional unit in 2021.</p>					
UNC-A Chev Bolt	Light-Duty	Electric	2	225 gal	2.0 tons
<p>Average electric fuel economy: 29 kWh/100mi  Miles traveled per vehicle per year: 3,000 mi  Market: Government - State  Vehicle type: Car  Percentage from coalition: 75%  National Clean Fleets Partnership: No  Workplace Charging Challenge: -  Energy Efficient Mobility Systems Partnership: No</p> <p>2020- New this report. (2) Chevy Bolts replaced (2) Dodge Caravans used in rental program for faculty staff. Usage for half year.</p>					
UNC-A Nissan Leaf	Light-Duty	Electric	1	141 gal	1.1 tons

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
<p>Average electric fuel economy: 30 kWh/100mi  Miles traveled per vehicle per year: 4,500 mi  Market: Government - State  Vehicle type: Car  Percentage from coalition: 75%  National Clean Fleets Partnership: No  Workplace Charging Challenge: -  Energy Efficient Mobility Systems Partnership: No</p> <p>2020- 2014 Nissan Leaf used for security and administration.</p>					
UPS - Medium-duty Hybrids	Heavy-Duty	HEV	3	2,749 gal	32.9 tons
<p>Average vehicle fuel economy: 24 MPG  Miles traveled per vehicle per year: 9,635 mi  Market: Corporate Fleet  Vehicle type: Truck: No Trailer  Percentage from coalition: 75%  National Clean Fleets Partnership: Yes  Workplace Charging Challenge: -  Energy Efficient Mobility Systems Partnership: No</p> <p>UPS indicates that their hybrid vehicles see up to 4x improvement in fuel economy compared to their conventional counterparts.</p>					
UPS - Medium-duty PHEV	Heavy-Duty	PHEV	3	5 gal	0.0 tons
<p>Electricity used: 52 kWh  Market: Corporate Fleet  Vehicle type: Truck: No Trailer  Percentage from coalition: 75%  National Clean Fleets Partnership: Yes  Workplace Charging Challenge: -  Energy Efficient Mobility Systems Partnership: No</p>					
Warren Wilson College - Accord Hybrid	Light-Duty	HEV	1	23 gal	0.3 tons
<p>Average vehicle fuel economy: 27 MPG  Miles traveled per vehicle per year: 1,775 mi  Market: General/Unknown  Vehicle type: Car  Percentage from coalition: 100%  National Clean Fleets Partnership: No  Workplace Charging Challenge: -  Energy Efficient Mobility Systems Partnership: No</p> <p>2020 75% reduced usage due College closing. - No change. 2007 Honda Accord used for administrative use.</p>					
Warren Wilson College - Ford Fusion Hybrid	Light-Duty	HEV	1	47 gal	0.6 tons
<p>Average vehicle fuel economy: 41 MPG  Miles traveled per vehicle per year: 1,845 mi  Market: General/Unknown  Vehicle type: Car  Percentage from coalition: 100%  National Clean Fleets Partnership: No  Workplace Charging Challenge: -  Energy Efficient Mobility Systems Partnership: No</p> <p>2020 - 75% reduced usage due to College closing. 2015 Ford Fusion used for administrative use.</p>					
Warren Wilson College - Prius	Light-Duty	HEV	1	158 gal	1.9 tons
<p>Average vehicle fuel economy: 45 MPG  Miles traveled per vehicle per year: 5,685 mi  Market: General/Unknown  Vehicle type: Car  Percentage from coalition: 100%  National Clean Fleets Partnership: No  Workplace Charging Challenge: -  Energy Efficient Mobility Systems Partnership: No</p> <p>2020 - 50% reduced usage. Toyota Prius used for administration. Replaced early 2000 sedan.</p>					
WNC Electric Vehicle Charging Stations	Light-Duty	Electric	35,799	26,579 gal	185.6 tons



Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
<p><b>Electricity used:</b> 304,295 kWh  <b>Market:</b> General/Unknown  <b>Vehicle type:</b> Unknown/Other  <b>Percentage from coalition:</b> 80%  <b>National Clean Fleets Partnership:</b> No  <b>Workplace Charging Challenge:</b> -  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p><i>2020 - Added 24 Public level 2 &amp; 3 cords. Due to Covid 20% decrease in usage. 2019 - 16% increase in usage. Added 34 (16 Public &amp; 10 Private) level 2 &amp; 3 cords. Each session per cord equals 8.5 kWh. (Charge Point updated 2018 data). Number of vehicles equals number of sessions annually times number of cords with a total of 292 Level 2 &amp; 3 cords. (122.6 sessions))(292 cords= 35,799 vehicles. kWh - (35,799 vehicles.)x(8.5 kWh per vehicles.)= 304,295 kWh annually. Land of Sky Clean Vehicles Coalition instrumental in EVSE development in the region and obtaining grant funding for deployment.</i></p>					
WNCRAQ Agency - Ford Escape Hybrid	Light-Duty	HEV	2	227 gal	2.7 tons
<p><b>Average vehicle fuel economy:</b> 31 MPG  <b>Miles traveled per vehicle per year:</b> 3,266 mi  <b>Market:</b> Government - Local  <b>Vehicle type:</b> Pickup/SUV/Van  <b>Percentage from coalition:</b> 100%  <b>National Clean Fleets Partnership:</b> No  <b>Workplace Charging Challenge:</b> -  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p><i>2020 - 121% decrease in usage due to COVID. 2008 Ford Escape Hybrid and Toyota Prius used with combined miles 6,531. Combined gallons used 208 gals. 31.4 avg. MPG. 2019 - Slight decrease in use. 2008 Ford Escape Hybrid used for inspections and complaint investigations.</i></p>					
<b>Total:</b>			<b>35,939</b>	<b>111,588 gal</b>	<b>1,050 tons</b>

## Off-Road Vehicles

Fleet Name	Application	Method	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
Asheville Airport - Electric Belt Loaders	Planes	Alternative fuel or vehicles	Electric	3	3,329 gal	19.5 tons
<p><b>Fuel used:</b> 38,198 kWh  <b>Percentage from coalition:</b> 100%  <b>National Clean Fleets Partnership:</b> No  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p><i>2020 - No change. (3) Charlotte Mobile Electric Belt Loaders replacing diesel powered belt loaders. The electric belt loaders are utilized approximately 9,323 hours annually. LOSCVC assisted with partial funding from NC Department of Environmental Natural Resources Division of Air Quality Mobile Source Emissions Reduction Grant in 2009.</i></p>						
Asheville Airport - LPG Forklifts	Forklifts	Alternative fuel or vehicles	Propane	1	53 gal	0.0 tons
<p><b>Fuel used:</b> 84 gal  <b>Percentage from coalition:</b> 100%  <b>National Clean Fleets Partnership:</b> No  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p><i>2020 - No change. Maintenance use.</i></p>						
Blue Ridge Parkway - LPG Mower	Landscaping and lawn equipment	Alternative fuel or vehicles	Propane	2	1,041 gal	-0.5 tons
<p><b>Fuel used:</b> 2,200 gal  <b>Percentage from coalition:</b> 75%  <b>National Clean Fleets Partnership:</b> No  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p><i>2020 - Estimated mowing season of (22 weeks) x (5 days/ week) x (5 hrs./ day)x (2 gals propane/hr. fuel burn rate)x(2 mowers on NC side)= 2,200 gals. propane for both mowers. New for 2015 2 LPG Ventrac mowers.</i></p>						
BRB Farm Sales	Farm equipment	Alternative fuel or vehicles	Biodiesel (65%)	5	481 gal	3.5 tons

Fleet Name	Application	Method	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
<p>Fuel used: 695 gal  Percentage from coalition: 100%  National Clean Fleets Partnership: No  Energy Efficient Mobility Systems Partnership: No</p> <p>2020 - New this report. Blue Ridge Biofuels sales to 3 farms. B65 avg blend annually. Pisgah Plants, River Farm &amp; York Farm.</p>						
Carl Sandburg Home Nat. Historic Site- Mowers	Landscaping and lawn equipment	Alternative fuel or vehicles	Propane	1	213 gal	-0.1 tons
<p>Fuel used: 450 gal  Percentage from coalition: 75%  National Clean Fleets Partnership: No  Energy Efficient Mobility Systems Partnership: No</p> <p>2020 - Converted a new Husqvarna Zero Turn Mower to propane through a DOE Clean Cities National Parks Initiative Grant. Usage low this year due to COVID.</p>						
City of Asheville - Biodiesel Construction Equipment	Construction equipment	Alternative fuel or vehicles	Biodiesel (15%)	91	7,832 gal	57.7 tons
<p>Fuel used: 49,000 gal  Percentage from coalition: 100%  National Clean Fleets Partnership: No  Energy Efficient Mobility Systems Partnership: No</p> <p>2020 - Realigned the off-road equipment using biodiesel. 2019 - No change. Uses B5 4 months in winter and B20 rest of year. (91) various pieces of backhoes, skid steers, loaders, etc. Adopted B20 in 2014.</p>						
City of Hendersonville - Forklifts LPG Fleet	Forklifts	Alternative fuel or vehicles	Propane	3	118 gal	-0.1 tons
<p>Fuel used: 187 gal  Percentage from coalition: 100%  National Clean Fleets Partnership: No  Energy Efficient Mobility Systems Partnership: No</p> <p>2020 - (3) LPG Forklifts used in Public Works, Water &amp; Sewer departments.</p>						
City of Hendersonville - LPG Mower	Landscaping and lawn equipment	Alternative fuel or vehicles	Propane	7	790 gal	-0.4 tons
<p>Fuel used: 1,253 gal  Percentage from coalition: 100%  National Clean Fleets Partnership: No  Energy Efficient Mobility Systems Partnership: No</p> <p>2020 - (5) new propane mowers added in 2020. 2019 - New this report. (2) propane mowers used in the Public Works department.</p>						
City of Hendersonville - Street Sweeper	Street sweeper	Alternative fuel or vehicles	CNG	1	223 gal	0.1 tons
<p>Fuel used: 262 GGE  Percentage from coalition: 100%  National Clean Fleets Partnership: No  Energy Efficient Mobility Systems Partnership: No</p> <p>2020 - Low usage as a spare.. CNG Dual-Engine street sweeper. ARRA grant 2012.</p>						
Gaia Herbs Farm - Biodiesel	Farm equipment	Alternative fuel or vehicles	Biodiesel (20%)	5	927 gal	6.8 tons
<p>Fuel used: 4,350 gal  Percentage from coalition: 100%  National Clean Fleets Partnership: No  Energy Efficient Mobility Systems Partnership: No</p> <p>2020 - Switched to B20 from B93 avg. 300% decrease in GGE. 2019 - 34% increase in GGE reduction. Natural herb grower for health care products. B20, B99 used for farm equipment throughout the year. B93 avg. annually Has own biodiesel tank.</p>						
Great Smoky Mountains National Park - LPG Mowers	Landscaping and lawn equipment	Alternative fuel or vehicles	Propane	2	416 gal	-0.2 tons

Fleet Name	Application	Method	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
<p>Fuel used: 880 gal  Percentage from coalition: 75%  National Clean Fleets Partnership: No  Energy Efficient Mobility Systems Partnership: No</p> <p>2020 - 20% reduced usage due to COVID. 2019 - New for 2015 2 LPG Gravely mowers used approximately 4months a year on the NC side for a total of 250 hrs/mower with a fuel burn rate of 2+ LPG gals per hr.</p>						
Hickory Nut Gap Farm Biodiesel	Farm equipment	Alternative fuel or vehicles	Biodiesel (20%)	3	213 gal	1.6 tons
<p>Fuel used: 1,000 gal  Percentage from coalition: 100%  National Clean Fleets Partnership: No  Energy Efficient Mobility Systems Partnership: No</p> <p>2020 - 48% increase. 2019 - 21% decrease. B20 used year round in 3 farm tractors.</p>						
MSD - LPG Forklifts	Forklifts	Alternative fuel or vehicles	Propane	3	208 gal	-0.1 tons
<p>Fuel used: 330 gal  Percentage from coalition: 100%  National Clean Fleets Partnership: No  Energy Efficient Mobility Systems Partnership: No</p> <p>2020 - No change. 2019 - LPG forklifts utilized in material handling.</p>						
Town of Waynesville - Biodiesel Off-road	Construction equipment	Alternative fuel or vehicles	Biodiesel (5%)	24	240 gal	1.8 tons
<p>Fuel used: 4,500 gal  Percentage from coalition: 100%  National Clean Fleets Partnership: No  Energy Efficient Mobility Systems Partnership: No</p> <p>2020 - No change. Biodiesel used in 24 pieces of construction equipment.</p>						
UNC-A Biodiesel Maintenance Equipment	Construction equipment	Alternative fuel or vehicles	Biodiesel (10%)	6	150 gal	1.1 tons
<p>Fuel used: 1,411 gal  Percentage from coalition: 100%  National Clean Fleets Partnership: No  Energy Efficient Mobility Systems Partnership: No</p> <p>2020 - No change.  2019 - Slight decrease. (6) B10 biodiesel powered pieces of eqt for grounds maintenance. EX: Skid-Steer, Tractor, Backhoe and Utility Vehicle, etc.</p>						
UNC-A Low Speed Electrics	Other	Alternative fuel or vehicles	Electric	15	144 gal	0.8 tons
<p>Fuel used: 1,650 kWh  Percentage from coalition: 100%  National Clean Fleets Partnership: No  Energy Efficient Mobility Systems Partnership: No</p> <p>2020 - No change. 2019- Adjusted an avg. of 1,000 miles/vehicle. Replaced (2) vehicles with (2) GEM LSV. 2016 - (15) LSV's used for passenger transport, courier and maintenance on campus.  1,000 miles avg. per year times \$0.11 kWh's per mile times 15 LSV's = 3,712.5 kWh. .  Source GEM website 2009.</p>						
Warren Wilson College - Biodiesel Farm Eqt	Farm equipment	Alternative fuel or vehicles	Biodiesel (20%)	9	729 gal	5.4 tons
<p>Fuel used: 3,419 gal  Percentage from coalition: 100%  National Clean Fleets Partnership: No  Energy Efficient Mobility Systems Partnership: No</p> <p>2020 - Slight increase. 2019 - 6% decrease. in usage. Use B20 in 9 pieces of farm equipment &amp; construction equipment.</p>						

Fleet Name	Application	Method	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
Warren Wilson College - LPG Mowers	Landscaping and lawn equipment	Alternative fuel or vehicles	Propane	3	216 gal	-0.1 tons
<b>Fuel used:</b> 343 gal <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No <i>2020 - Decreased usage due to College shutdown in March 2020 and outside contractor mowing. 2019 - Retired (3) old mowers replaced with one new mower. 2016 - (5) propane mowers used for landscaping maintenance.</i>						
<b>Total:</b>				<b>184</b>	<b>17,325 gal</b>	<b>97 tons</b>

## FUEL ECONOMY

### Fuel Economy Improvements

Fleet Name	Previous Fuel	Current Fuel	Number of Vehicles	Miles Traveled per Vehicle	GGE Reduced	GHG Reduced
Asheville Airport - Ford Expedition Eco-Boost	15 MPG	18 MPG	2	5,000 mi	111 gal	1.3 tons
<b>Method:</b> Vehicle - More efficient <b>Vehicle class:</b> Light-Duty <b>Market:</b> Airport <b>Vehicle type:</b> Pickup/SUV/Van <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No <i>2020 - No change. Asheville Airport replaced (2) older Ford Expedition V8 vehicles with (2) 2015 Ford Expedition Eco-Boost V6 vehicles. Updated MPG 15 vs. 18</i>						
Asheville Airport -Ford Explorer Eco-Boost	13 MPG	19 MPG	1	10,000 mi	243 gal	2.9 tons
<b>Method:</b> Vehicle - More efficient <b>Vehicle class:</b> Light-Duty <b>Market:</b> Airport <b>Vehicle type:</b> Pickup/SUV/Van <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No <i>2020 - No change. Replaced a Ford Crown Victoria V-8 with a 2018 Explorer for airport security.</i>						
Buncombe County Ford Explorer PI	11 MPG	19 MPG	80	13,500 mi	41,340 gal	490.5 tons
<b>Method:</b> Vehicle - More efficient <b>Vehicle class:</b> Light-Duty <b>Market:</b> Government - Local <b>Vehicle type:</b> Pickup/SUV/Van <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No <i>2020 - 10% reduced usage. 2019 - Replaced 2008 -12 Ford Crown Victoria, Chev Impala and Dodge Charger Police Vehicles with Ford Explorer Police Interceptors.</i>						
City of Asheville Chev Equinox Fleet	19 MPG	24 MPG	27	11,000 mi	3,257 gal	38.6 tons

Fleet Name	Previous Fuel	Current Fuel	Number of Vehicles	Miles Traveled per Vehicle	GGE Reduced	GHG Reduced
<p><b>Method:</b> Vehicle - More efficient  <b>Vehicle class:</b> Light-Duty  <b>Market:</b> Government - Local  <b>Vehicle type:</b> Car  <b>Percentage from coalition:</b> 100%  <b>National Clean Fleets Partnership:</b> No  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p>2020 - Retired 2 vehicles for a total of 27.  2019 - Replaced less fuel efficient vehicles in administration and inspections in 2014 &amp; 2015.</p>						
City of Asheville Ford Explorer Interceptor Police Fleet	11 MPG	16 MPG	22	10,000 mi	6,250 gal	74.2 tons
<p><b>Method:</b> Vehicle - More efficient  <b>Vehicle class:</b> Light-Duty  <b>Market:</b> Government - Local  <b>Vehicle type:</b> Patrol Car  <b>Percentage from coalition:</b> 100%  <b>National Clean Fleets Partnership:</b> No  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p>2020 - Slight reduced usage. 2019 - No Change. Ford Explorer Interceptor patrol vehicles replacing Dodge Chargers and Ford Crown Victoria's.</p>						
City of Asheville - Ford LCF Dump	4 MPG	6 MPG	1	7,000 mi	673 gal	8.1 tons
<p><b>Method:</b> Vehicle - More efficient  <b>Vehicle class:</b> Heavy-Duty  <b>Market:</b> Government - Local  <b>Vehicle type:</b> Truck: No Trailer  <b>Percentage from coalition:</b> 100%  <b>National Clean Fleets Partnership:</b> No  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p>2020 -11% increased usage. 2019 - 2007 Ford Low Cab Forward dump body truck replacing 1990s inefficient truck with dump body.</p>						
City of Asheville - Isuzu Med. Refuse Truck	3 MPG	12 MPG	1	7,500 mi	2,164 gal	25.9 tons
<p><b>Method:</b> Vehicle - More efficient  <b>Vehicle class:</b> Heavy-Duty  <b>Market:</b> Government - Local  <b>Vehicle type:</b> Truck: Refuse  <b>Percentage from coalition:</b> 100%  <b>National Clean Fleets Partnership:</b> No  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p>2020 - In service for full year. 2019 - Miles traveled 2,500 miles. 2018 -New this report. Replaced larger refuse truck with a 2018 Isuzu 17,000 GVW refuse truck.</p>						
City of Asheville Refuse Truck	4 MPG	6 MPG	9	10,000 mi	8,656 gal	103.7 tons
<p><b>Method:</b> Vehicle - More efficient  <b>Vehicle class:</b> Heavy-Duty  <b>Market:</b> Government - Local  <b>Vehicle type:</b> Truck: Refuse  <b>Percentage from coalition:</b> 100%  <b>National Clean Fleets Partnership:</b> No  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p>2020 - No change. Added 3 add'l in 2017.Replaced in 2014 &amp; 2015 (6) older refuse trucks with new Freightliner refuse trucks. New trucks avg. 6 MPG vs. 4 MPG older trucks.</p>						
City of Asheville Transit Diesel Fleet	3 MPG	5 MPG	7	37,227 mi	36,867 gal	441.8 tons

Fleet Name	Previous Fuel	Current Fuel	Number of Vehicles	Miles Traveled per Vehicle	GGE Reduced	GHG Reduced
<b>Method:</b> Vehicle - More efficient <b>Vehicle class:</b> Heavy-Duty <b>Market:</b> Government - Local <b>Vehicle type:</b> Bus: Transit <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - Slight decrease. (7) Clean Diesel buses replacing older less fuel efficient buses. (5) in 2013 and (2) in 2014.						
City of Hendersonville - Fire Pickup	11 MPG	12 MPG	2	4,000 mi	117 gal	1.4 tons
<b>Method:</b> Vehicle - More efficient <b>Vehicle class:</b> Light-Duty <b>Market:</b> Government - Local <b>Vehicle type:</b> Pickup/SUV/Van <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - New (2) efficient pickups used in the Fire Dept.						
City of Hendersonville - Police Pickup	11 MPG	15 MPG	12	16,200 mi	4,892 gal	58.0 tons
<b>Method:</b> Vehicle - More efficient <b>Vehicle class:</b> Light-Duty <b>Market:</b> Government - Local <b>Vehicle type:</b> Pickup/SUV/Van <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - 10% reduction in use. 2019 - New (6) replacement pickups used in the Police Dept. In service Feb 2019.						
City of Hendersonville - PW Pickup	9 MPG	13 MPG	6	2,500 mi	594 gal	7.0 tons
<b>Method:</b> Vehicle - More efficient <b>Vehicle class:</b> Light-Duty <b>Market:</b> Government - Local <b>Vehicle type:</b> Pickup/SUV/Van <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - No change. 2019 - Added (2) vehicles in 2019. No change. More efficient replacement pickups in Public Works maintenance.						
Henderson County Ford Escape	17 MPG	24 MPG	3	6,400 mi	329 gal	3.9 tons
<b>Method:</b> Vehicle - More efficient <b>Vehicle class:</b> Light-Duty <b>Market:</b> Government - Local <b>Vehicle type:</b> Pickup/SUV/Van <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - 20% reduced usage. 2019 - (3) Ford Escapes replacing less fuel efficient vehicles.						
Henderson County Ford Fusion	19 MPG	27 MPG	2	8,000 mi	250 gal	3.0 tons
<b>Method:</b> Vehicle - More efficient <b>Vehicle class:</b> Light-Duty <b>Market:</b> Government - Local <b>Vehicle type:</b> Car <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 20% reduced usage. 2019 - (2) Ford Fusions replacing old, less fuel efficient vehicles						

Fleet Name	Previous Fuel	Current Fuel	Number of Vehicles	Miles Traveled per Vehicle	GGE Reduced	GHG Reduced
Henderson County Subaru Forester	17 MPG	28 MPG	1	6,400 mi	148 gal	1.8 tons
<p><b>Method:</b> Vehicle - More efficient  <b>Vehicle class:</b> Light-Duty  <b>Market:</b> Government - Local  <b>Vehicle type:</b> Car  <b>Percentage from coalition:</b> 100%  <b>National Clean Fleets Partnership:</b> No  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p><i>2020 - 20% reduced usage. 2019 - No change. 2016 Subaru Forester replaced a 2010 Chevy Impala in the Henderson County Motor Pool Fleet in August 2016.</i></p>						
UNC-A Ford Explorer	14 MPG	18 MPG	2	11,600 mi	276 gal	3.3 tons
<p><b>Method:</b> Vehicle - More efficient  <b>Vehicle class:</b> Light-Duty  <b>Market:</b> Government - Local  <b>Vehicle type:</b> Pickup/SUV/Van  <b>Percentage from coalition:</b> 75%  <b>National Clean Fleets Partnership:</b> No  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p><i>2020 - 20% reduced usage. 2019 - Replaced a 2008 &amp; 2009 Ford Explorer Police Interceptor with (2) 2019 Ford Explorer. Average 14,500 miles per year and 4 mpg better fuel economy.</i></p>						
UNC Asheville Security Taurus	14 MPG	20 MPG	2	10,000 mi	429 gal	5.1 tons
<p><b>Method:</b> Vehicle - More efficient  <b>Vehicle class:</b> Light-Duty  <b>Market:</b> Government - Local  <b>Vehicle type:</b> Patrol Car  <b>Percentage from coalition:</b> 100%  <b>National Clean Fleets Partnership:</b> No  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p><i>2020 - No change. Replaced a 2011 Chevy Impala Police Interceptor with a 2015 Ford Taurus 2.0L for security patrol.</i></p>						
UNC Asheville - Shuttle Bus Fleet	7 MPG	10 MPG	4	20,282 mi	4,947 gal	59.3 tons
<p><b>Method:</b> Driver training  <b>Vehicle class:</b> Heavy-Duty  <b>Market:</b> Government - Local  <b>Vehicle type:</b> Bus: Shuttle  <b>Percentage from coalition:</b> 100%  <b>National Clean Fleets Partnership:</b> No  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p><i>2020 - 10% decrease in ridership due to COVID. Operates (4) shuttle buses on UNC Asheville campus for a 16-wk/semester for 2 semesters per year. Through route optimization, idle reduction and driver training average fuel economy has improved by 52%. Each bus averages 22,535 miles per year. 84,455 riders per 2-semester year.</i></p>						
<b>Total:</b>			<b>184</b>	<b>196,609 mi</b>	<b>111,542 gal</b>	<b>1,330 tons</b>

## Vehicle Miles Traveled Reductions

Project Name	Method	Vehicle Class	GGE Reduced	GHG Reduced
Asheville Airport Park and Ride	Carpooling	Light-Duty	1,406 gal	16.7 tons
<p><b>Fuel type of vehicles driven less:</b> Gasoline  <b>Fuel economy of vehicles driven less:</b> 20 MPG  <b>Number of vehicles driven less:</b> 5  <b>VMT project per vehicle being driven less:</b> 7,500 mi  <b>Percentage from coalition:</b> 75%  <b>National Clean Fleets Partnership:</b> No  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p><i>2020 - Usage down due to COVID. Average commute to Asheville/Hendersonville/Brevard for 5 vehicles per day, 30 miles round trip per vehicle. 5 days/week/50 weeks. This lot utilization is 19%. LOSCVC promoting the use of this Park and Ride through literature distribution. Lots surveyed 2 times per year and data averaged.</i></p>				

Project Name	Method	Vehicle Class	GGE Reduced	GHG Reduced
Biltmore Estate - Guest Shuttles	Other	Light-Duty	1,505 gal	17.9 tons
<p>Fuel saved: 1,505 gallons            Percentage from coalition: 100%            National Clean Fleets Partnership: No            Energy Efficient Mobility Systems Partnership: No</p> <p>2020 - Due to COVID shuttle operation reduced by 90%. (2) shuttles remain for ADA and Hotel operations as needed. 2019 - No change. Shuttle operation under expansion and current data not available. Biltmore Estate transported 70,875 guests by 15-25 passenger shuttle buses from the Inn on Biltmore to the Biltmore House, DeerPark, Conservatory and Winery for an average of 8.5-mile round trip. Estimating average 2- person vehicle occupancy displacing 35,438 vehicles averaging 20 mpg displacing a total of 301,122 miles and 15,061 gals.</p>				
Black Mountain Park and Ride	Carpooling	Light-Duty	1,275 gal	15.1 tons
<p>Fuel type of vehicles driven less: Gasoline            Fuel economy of vehicles driven less: 20 MPG            Number of vehicles driven less: 4            VMT project per vehicle being driven less: 8,500 mi            Percentage from coalition: 75%            National Clean Fleets Partnership: No            Energy Efficient Mobility Systems Partnership: No</p> <p>2020 - Usage down due to COVID. 2018 - New this report. Average commute to Asheville 4 vehicles per day, 34 miles round trip per vehicle. 5 days/week/50 weeks. This lot utilization is 19%. LOSCVC promoting the use of this Park and Ride through literature distribution. Lots surveyed 2 times per year and data averaged.</p>				
Canton Park-N-Ride	Carpooling	Light-Duty	3,713 gal	44.0 tons
<p>Fuel type of vehicles driven less: Gasoline            Fuel economy of vehicles driven less: 20 MPG            Number of vehicles driven less: 11            VMT project per vehicle being driven less: 9,000 mi            Percentage from coalition: 75%            National Clean Fleets Partnership: No            Energy Efficient Mobility Systems Partnership: No</p> <p>2020 - Reduced usage due to COVID. Average commute to Asheville for 11 vehicles per day, 36 miles round trip per vehicle. 5 days/week/50 weeks. LOSCVC helped promote the use of this Ride Share Lot. Utilization of this lot is 39%.</p>				
City of Asheville - Employee 4/10's Commute	Compressed work week	Light-Duty	10,800 gal	128.1 tons
<p>Fuel type of vehicles driven less: Gasoline            Fuel economy of vehicles driven less: 20 MPG            Number of vehicles driven less: 216            VMT project per vehicle being driven less: 1,000 mi            Percentage from coalition: 100%            National Clean Fleets Partnership: No            Energy Efficient Mobility Systems Partnership: No</p> <p>2020 - 216 (19%) of the City of Asheville employees work a 4-day/10-hr per day schedule for 50 weeks. 20-mile average round-trip commute.</p>				
City of Asheville - Remote Workers	Telecommute	Light-Duty	11,647 gal	138.2 tons
<p>Fuel type of vehicles driven less: Gasoline            Fuel economy of vehicles driven less: 23 MPG            Number of vehicles driven less: 214            VMT project per vehicle being driven less: 1,230 mi            Percentage from coalition: 100%            National Clean Fleets Partnership: No            Energy Efficient Mobility Systems Partnership: No</p> <p>2020 - Due to COVID 214 City of Asheville staff working remoting for 3-days per week for 41 weeks with an 10-mile average commute one-way (Mar - Dec). (3 days)(41 weeks)(10 miles)=1,230 miles per vehicle.</p>				
City of Hendersonville - Covid Related Remote Work	Telecommute	Light-Duty	93 gal	1.1 tons
<p>Fuel saved: 93 gallons            Percentage from coalition: 100%            National Clean Fleets Partnership: No            Energy Efficient Mobility Systems Partnership: No</p> <p>2020 - Remote work due to Covid-19 saved 92.8 gals for three gasoline vehicles.</p>				
Mars Hill Park and Ride	Carpooling	Light-Duty	3,000 gal	35.6 tons



Project Name	Method	Vehicle Class	GGE Reduced	GHG Reduced
<b>Fuel type of vehicles driven less:</b> Gasoline <b>Fuel economy of vehicles driven less:</b> 20 MPG <b>Number of vehicles driven less:</b> 8 <b>VMT project per vehicle being driven less:</b> 10,000 mi <b>Percentage from coalition:</b> 75% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No <i>2020 - Reduced usage due to COVID. Average commute to Asheville for 8 vehicles per day, 40 miles round trip per vehicle. 5 days/week/50 weeks per year. LOSCVC promoting the use of this Park and Ride through literature distribution. This lot utilization is 33%. Lots surveyed 2 times per year and data averaged.</i>				
Rosman Park and Ride	Carpooling	Light-Duty	1,688 gal	20.0 tons
<b>Fuel type of vehicles driven less:</b> Gasoline <b>Fuel economy of vehicles driven less:</b> 20 MPG <b>Number of vehicles driven less:</b> 5 <b>VMT project per vehicle being driven less:</b> 9,000 mi <b>Percentage from coalition:</b> 75% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No <i>2020 - Reduced usage due to COVID. Average commute to Asheville/Hendersonville for 5 vehicles per day, 36 miles round trip per vehicle. 5 days/week/50 weeks. Lot utilization is 33%. LOSCVC promoting the use of this Park and Ride through literature distribution. Lots surveyed 2 times per year and data averaged.</i>				
Waynesville Park and Ride	Carpooling	Light-Duty	563 gal	6.7 tons
<b>Fuel type of vehicles driven less:</b> Gasoline <b>Fuel economy of vehicles driven less:</b> 20 MPG <b>Number of vehicles driven less:</b> 1 <b>VMT project per vehicle being driven less:</b> 15,000 mi <b>Percentage from coalition:</b> 75% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No <i>2020 - Reduced usage due to COVID. Average commute to Asheville area for 1 vehicle per day, 60 miles round trip per vehicle. 5 days/week/50 weeks. This lot utilization is 7%. LOSCVC promoting the use of this Park and Ride through literature distribution. Lots surveyed 2 times per year and data averaged.</i>				
Weaverville Park and Ride	Carpooling	Light-Duty	703 gal	8.3 tons
<b>Fuel type of vehicles driven less:</b> Gasoline <b>Fuel economy of vehicles driven less:</b> 20 MPG <b>Number of vehicles driven less:</b> 3 <b>VMT project per vehicle being driven less:</b> 6,250 mi <b>Percentage from coalition:</b> 75% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No <i>2020 - Reduced usage due to COVID. Average commute to Asheville area for 3 vehicles per day, 25 miles round trip per vehicle. 5 days/week/50 weeks. This lot utilization is 11%. LOSCVC promoting the use of this Park and Ride through literature distribution. Lots surveyed 2 times per year and data averaged.</i>				
<b>Total:</b>			<b>36,392 gal</b>	<b>432 tons</b>

## IDLE REDUCTION

### Idle Reduction

Project Name	Number of Vehicles	Idling Reduced per Vehicle	Fuel Saved per Vehicle	GGE Reduced	GHG Reduced
City of Asheville - Patrol Car Idle Reduction Program	57	120 mins/day 365 days/year	0.70 gal/hr	29,127 gal	345.6 tons

Project Name	Number of Vehicles	Idling Reduced per Vehicle	Fuel Saved per Vehicle	GGE Reduced	GHG Reduced
<p><b>Type of project:</b> Onboard batteries  <b>Type of vehicle:</b> Light-Duty  <b>Percentage from coalition:</b> 100%  <b>National Clean Fleets Partnership:</b> No  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p><i>2020 - 20% reduction in use. 57 vehicles. 2019 - No change. 2017 - Increased from 50 vehicles to 72 vehicles. New for 2015 - City of Asheville police patrol fleet installed Havis Idle Right Systems on 45 vehicles. This system allows the use of electronics with the engine off. Restarts vehicle when battery charge is below a certain level ensuring vehicle will restart. Reduces idling by 2 hours during a shift.</i></p>					
Food Lion Truck Fleet Trucking	8	299 mins/day 365 days/year	1.00 gal/hr	12,596 gal	150.9 tons
<p><b>Type of project:</b> Auxiliary power unit (APU)  <b>Type of vehicle:</b> Heavy-Duty - Truck: Long-Haul  <b>Percentage from coalition:</b> 75%  <b>National Clean Fleets Partnership:</b> No  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p><i>2020 - 20% reduced in usage. 8 tractors. 2019 - Food Lion Trucking operates 10 tractor trailers with APU's in our region.</i></p>					
Ricker Trucking	12	300 mins/day 250 days/year	1.00 gal/hr	17,312 gal	207.5 tons
<p><b>Type of project:</b> Auxiliary power unit (APU)  <b>Type of vehicle:</b> Heavy-Duty - Truck: Long-Haul  <b>Percentage from coalition:</b> 100%  <b>National Clean Fleets Partnership:</b> No  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p><i>2020 - No change. 2016 - Reduced hours of use slightly. Funded through a DENR DAQ Grant in 2012.</i></p>					
Schools Idle Reduction Program - Brevard Academy	35	10 mins/day 74 days/year	0.26 gal/hr	113 gal	1.3 tons
<p><b>Type of project:</b> Driver training  <b>Type of vehicle:</b> Light-Duty  <b>Percentage from coalition:</b> 100%  <b>National Clean Fleets Partnership:</b> No  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p><i>2020 - Due to Covid NC Governor order schools closed for 59% of year. Mar 12 to Sep 28. Open on a A/B hybrid schedule Sep 28 to Dec 31. LOSCVC on-going program for the Brevard Academy. Program educates parents to turn off their engines when dropping off and picking up their children through signage and literature distribution. Reduction based on an estimate of 35 vehicles per school on a 180-day school year. Fuel usage per hour idling estimate .262 gal. The 35 vehicles per school participating represents a 75% compliance.</i></p>					
Schools Idle Reduction Program - Buncombe County	2,050	10 mins/day 74 days/year	0.26 gal/hr	6,624 gal	78.6 tons
<p><b>Type of project:</b> Driver training  <b>Type of vehicle:</b> Light-Duty  <b>Percentage from coalition:</b> 100%  <b>National Clean Fleets Partnership:</b> No  <b>Energy Efficient Mobility Systems Partnership:</b> No</p> <p><i>2020 - Due to Covid NC Governor order schools closed for 59% of year. Mar 12 to Sep 28. Open on a A/B hybrid schedule Sep 28 to Dec 31. LOSCVC on-going program in 41 Buncombe County and Asheville City schools. Program educates parents to turn off their engines when dropping off and picking up their children through signage and literature distribution. Reduction based on an estimate of 50 vehicles per school on a 180-day school year. Fuel usage per hour idling estimate .262 gal. The 50 vehicles per school participating represents a 75% compliance.</i></p>					
Schools Idle Reduction Program - Evergreen Community Charter School	100	10 mins/day 74 days/year	0.26 gal/hr	323 gal	3.8 tons

Project Name	Number of Vehicles	Idling Reduced per Vehicle	Fuel Saved per Vehicle	GGE Reduced	GHG Reduced
<b>Type of project:</b> Driver training <b>Type of vehicle:</b> Light-Duty <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - Due to Covid NC Governor order schools closed for 59% of year. Mar 12 to Sep 28. Open on a A/B hybrid schedule Sep 28 to Dec 31. Evergreen Community Charter Schools. Program educates parents to turn off their engines when dropping off and picking up their children through signage and literature distribution. Reduction based on an estimate on 100 vehicles on a 180-day school year. Fuel usage per hour idling estimate .262 gal. The 100 vehicles per school participating represents a 75% compliance. Land of Sky Clean Vehicles Coalition staff supplied reduce idling signs and literature on idle reduction.					
Schools Idle Reduction Program - Haywood County	700	10 mins/day 74 days/year	0.26 gal/hr	2,262 gal	26.8 tons
<b>Type of project:</b> Driver training <b>Type of vehicle:</b> Light-Duty <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - Due to Covid NC Governor order schools closed for 59% of year. Mar 12 to Sep 28. Open on a A/B hybrid schedule Sep 28 to Dec 31. LOSCVC on-going program in 14 Haywood County schools. Program educates parents to turn off their engines when dropping off and picking up their children through signage and literature distribution. Reduction based on an estimate of 50 vehicles per school on a 180-day school year. Fuel usage per hour idling estimate .262 gal. The 50 vehicles per school participating represents a 75% compliance.					
Schools Idle Reduction Program - Henderson County	1,100	10 mins/day 74 days/year	0.26 gal/hr	3,554 gal	42.2 tons
<b>Type of project:</b> Driver training <b>Type of vehicle:</b> Light-Duty <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - Due to Covid NC Governor order schools closed for 59% of year. Mar 12 to Sep 28. Open on a A/B hybrid schedule Sep 28 to Dec 31. LOSCVC on-going program in 22 Henderson County schools. Program educates parents to turn off their engines when dropping off and picking up their children through signage and literature distribution. Reduction based on an estimate of 50 vehicles per school on a 180-day school year. Fuel usage per hour idling estimate .262 gal. The 50 vehicles per school participating represents a 75% compliance.					
Schools Idle Reduction Program - Madison County	250	10 mins/day 74 days/year	0.26 gal/hr	808 gal	9.6 tons
<b>Type of project:</b> Driver training <b>Type of vehicle:</b> Light-Duty <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - Due to Covid NC Governor order schools closed for 59% of year. Mar 12 to Sep 28. Open on a A/B hybrid schedule Sep 28 to Dec 31. LOSCVC on-going program in 5 Madison County schools. Program educates parents to turn off their engines when dropping off and picking up their children through signage and literature distribution. Reduction based on an estimate of 50 vehicles per school on a 180-day school year. Fuel usage per hour idling estimate .262 gal. The 50 vehicles per school participating represents a 75% compliance.					
Schools Idle Reduction Program - Shining Rock Academy - Charter School	30	10 mins/day 74 days/year	0.26 gal/hr	97 gal	1.2 tons
<b>Type of project:</b> Driver training <b>Type of vehicle:</b> Light-Duty <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No 2020 - Due to Covid NC Governor order schools closed for 59% of year. Mar 12 to Sep 28. Open on a A/B hybrid schedule Sep 28 to Dec 31. LOSCVC on-going program for Shining Rock Academy. Program educates parents to turn off their engines when dropping off and picking up their children through signage and literature distribution. Reduction based on an estimate of 30 vehicles on a 180-day school year. Fuel usage per hour idling estimate .262 gal. The 30 vehicles participating represents a 75% compliance.					
Schools Idle Reduction Program - The Mountain Community	30	10 mins/day 74 days/year	0.26 gal/hr	97 gal	1.2 tons

Project Name	Number of Vehicles	Idling Reduced per Vehicle	Fuel Saved per Vehicle	GGE Reduced	GHG Reduced
<b>Type of project:</b> Driver training <b>Type of vehicle:</b> Light-Duty <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No  <i>2020 - Due to Covid NC Governor order schools closed for 59% of year. Mar 12 to Sep 28. Open on a A/B hybrid schedule Sep 28 to Dec 31. LOOSCVC on-going program for the Mountain Community schools. Program educates parents to turn off their engines when dropping off and picking up their children through signage and literature distribution. Reduction based on an estimate of 30 vehicles per school on a 180-day school year. Fuel usage per hour idling estimate .262 gal. The 30 vehicles per school participating represents a 75% compliance.</i>					
Schools Idle Reduction Program - Transylvania County	450	10 mins/day 74 days/year	0.26 gal/hr	1,454 gal	17.3 tons
<b>Type of project:</b> Driver training <b>Type of vehicle:</b> Light-Duty <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <b>Energy Efficient Mobility Systems Partnership:</b> No  <i>2020 - Due to Covid NC Governor order schools closed for 59% of year. Mar 12 to Sep 28. Open on a A/B hybrid schedule Sep 28 to Dec 31. LOOSCVC on-going program in 9 Transylvania County schools. Program educates parents to turn off their engines when dropping off and picking up their children through signage and literature distribution. Reduction based on an estimate of 50 vehicles per school on a 180-day school year. Fuel usage per hour idling estimate .262 gal. The 50 vehicles per school participating represents a 75% compliance.</i>					
<b>Total:</b>	<b>4,822</b>			<b>74,368 gal</b>	<b>886 tons</b>

## FUEL STATIONS

### New Stations

Fuel	Public Stations	Private Stations
Biodiesel	-	-
CNG - Compressed Natural Gas	-	-
E85 - 85% Ethanol	-	-
Electric Charging Outlets: Level 1 & Level 2	24	-
Electric Charging Outlets: DC Fast Chargers	2	-
Hydrogen	-	-
LNG - Liquefied Natural Gas	-	-
Propane	-	1
<b>Total:</b>	<b>26</b>	<b>1</b>

## OUTREACH ACTIVITIES

Activity Name	Dates	Activity Type	Percentage from Coalition	Persons Reached
Clean Air Campaign Stakeholder Meeting	01/08/2020, 02/20/2020, 03/20/2020, 04/17/2020, 05/10/2020, 06/10/2020, 07/09/2020, 09/17/2020, 10/09/2020, 11/12/2020, 12/10/2020	Meeting - Stakeholder	100%	6

Activity Name	Dates	Activity Type	Percentage from Coalition	Persons Reached
<p><b>Technology:</b> Biodiesel, Electric vehicles, Fuel economy improvements, Hybrid electric vehicles, Idle reduction, Natural gas vehicles, Propane, Vehicle miles traveled reduction</p> <p><b>Audience:</b> Airport, Delivery, General Public, Government, Private Fleets, Transit, Utility, Waste, Other</p> <p><i>Clean Air Campaign stakeholders serve as the Education and Outreach Committee for the Land of Sky Clean Vehicles Coalition. Meetings to plan, organize AFV events and outreach throughout the year.</i></p>				
"Electric vehicles Are Here" WLOS 13 TV	02/13/2020	Media Event	100%	104,686
<p><b>Technology:</b> Electric vehicles</p> <p><b>Audience:</b> General Public</p> <p><i>"Electric vehicles Are Here" aired a video with LOSVCV stakeholders and WLOS 13 staff driving a Tesla and highlighting the advantages of electric vehicles. 4-min. clip.</i></p>				
UNC-A Fleet Meeting	03/02/2020	Meeting - Other	100%	4
<p><b>Technology:</b> Biodiesel, Hybrid electric vehicles, Natural gas vehicles, Propane</p> <p><b>Audience:</b> Government</p> <p><i>UNC-Asheville fleet staff meeting to discuss alt fuel usage including biodiesel, propane, electric and off- road alt. fuel vehicles. New opportunities with VW Settlement funds.</i></p>				
Blue Ridge EV Club E&O Planning Meeting	01/29/2020	Meeting - Other	100%	10
<p><b>Technology:</b> Electric vehicles, Hybrid electric vehicles</p> <p><b>Audience:</b> General Public, Government</p> <p><i>Blue Ridge EV Club stakeholder and LOSVCV staff meeting to discuss education and outreach events planning.</i></p>				
Plug-In NC Steering Committee Conference Call	02/24/2020, 03/30/2020, 04/10/2020, 06/29/2020	Meeting - Other	100%	20
<p><b>Technology:</b> Electric vehicles, Hybrid electric vehicles</p> <p><b>Audience:</b> General Public, Government</p> <p><i>Plug-In NC Steering Committee Skipe Mtg. to update the EVSE effort throughout NC. LOSVCV is a steering committee member.</i></p>				
Buncombe County Fleet Meeting	01/22/2020, 03/05/2020	Meeting - Other	100%	3
<p><b>Technology:</b> Hybrid electric vehicles, Natural gas vehicles</p> <p><b>Audience:</b> Government</p> <p><i>Buncombe County Fleet staff meeting with Buncombe County Sustainability Coordinator, Jeremiah LeRoy, to discuss county sustainability plan, alt. fuel usage, and future opportunities. Considering police hybrids and pickup hybrids.</i></p>				
Asheville ABC Meeting	02/24/2020	Meeting - Other	100%	3
<p><b>Technology:</b> Natural gas vehicles</p> <p><b>Audience:</b> Government</p> <p><i>Alcohol Beverage Control (ABC) staff meeting to discuss CNG truck and VW Settlement application.</i></p>				
General Motors SE Fleet Mgr. Mtg.	03/03/2020, 12/04/2020	Meeting - Other	100%	8
<p><b>Technology:</b> Electric vehicles, Hybrid electric vehicles</p> <p><b>Audience:</b> General Public, Government, Private Fleets</p> <p><i>Met with General Motors Southeast Region Fleet Mgr. to discuss collaborating on education &amp; outreach opportunities promoting electric vehicles, alt. fuels and dealer education. Met with GM NC district manager to plan potential dealer education pilot program.</i></p>				
LOSCVC Renewable Natural Gas Workshop	01/08/2020, 01/14/2020	Workshop Held By Coalition	100%	60
<p><b>Technology:</b> Natural gas vehicles</p> <p><b>Audience:</b> General Public, Government, Private Fleets, Utility</p> <p><i>1/8 - Planning meeting for RNG Workshop. 1/14 - LOSVCV facilitated the first Renewable Natural Gas Workshop in our region. Presentations by industry and local businesses capturing RNG from their processes. Sponsored by Dominion Energy and Biltmore Company. 60 attendees.</i></p>				
City of Asheville Fleet Meeting	01/15/2020	Meeting - Other	100%	2

Activity Name	Dates	Activity Type	Percentage from Coalition	Persons Reached
<p><b>Technology:</b> Biodiesel, Fuel economy improvements, Hybrid electric vehicles, Idle reduction, Natural gas vehicles, Vehicle miles traveled reduction</p> <p><b>Audience:</b> Government, Transit</p> <p><i>Meeting with City of Asheville fleet manager to discuss alt. fuel efforts and future opportunities.</i></p>				
Asheville Transit Fleet Meeting	02/19/2020	Meeting - Other	100%	4
<p><b>Technology:</b> Biodiesel, Electric vehicles, Fuel economy improvements, Hybrid electric vehicles</p> <p><b>Audience:</b> Government, Transit</p> <p><i>Meeting with Asheville Transit Fleet staff to discuss alt fuel efforts and new Proterra Electric buses.</i></p>				
Biltmore Company Fleet Meeting	01/31/2020	Meeting - Other	100%	2
<p><b>Technology:</b> Biodiesel, Propane, Vehicle miles traveled reduction</p> <p><b>Audience:</b> Private Fleets</p> <p><i>Meeting with Biltmore Company fleet manger to discuss results of ongoing alt fuel efforts. Discussed future opportunities.</i></p>				
Purchasing and Policy Considerations of Electric Vehicles for Organizations, Fleets and Municipalities - Webinar	08/27/2020	Workshop Held By Coalition	100%	79
<p><b>Technology:</b> Electric vehicles, Hybrid electric vehicles</p> <p><b>Audience:</b> General Public, Government, Private Fleets, Transit</p> <p><i>Clean Cities Coalitions of North Carolina and Plug-in NC held a free webinar, the second in a three-part series, on factors and issues that organizations, fleets and municipalities should consider when looking to purchase electric vehicles.</i></p> <ul style="list-style-type: none"> <li><i>• Bill Eaker of the Land of Sky Clean Vehicles Coalition, who helped secure funding for multiple applicants in North Carolina's Department of Environmental Quality VW Settlement, presented on multiple grant opportunities.</i></li> <li><i>• Chris Davis of the City of Charlotte, shared his experience electrifying the City's motor fleet and its criteria for assessing the electrification potential of medium- and heavy-duty vehicles.</i></li> <li><i>• Mark McGrew with Lion Electric, highlighted vehicle offerings from the truck and bus manufacturer, pilot projects underway across the country and purchasing opportunities in North Carolina.</i></li> </ul>				
National Drive Electric Week - Virtual Drive Electric Event Asheville - Zoom Mtg.	09/26/2020	Workshop Held By Coalition	100%	250
<p><b>Technology:</b> Electric vehicles, Hybrid electric vehicles</p> <p><b>Audience:</b> General Public</p> <p><i>A virtual drive electric event in Asheville. This event was sponsored by the Blue Ridge EV Club, Western North Carolina Tesla Owners Group, Land-Of-Sky Clean Vehicle Coalition and Southern Alliance for Clean Energy.</i></p> <p><i>The days activities included the following:</i></p> <p><i>Tony Sebo presented a very engaging video on Future of Transportation in North Carolina, particularly how disruption will accelerate adoption (YouTube).</i></p> <p><i>Zoom panel session with women from around the area telling us what they love best about EVs and what got them into sustainable transportation.</i></p> <p><i>Video presentation of the History and Engineering of EV's</i></p> <p><i>EV Owners Forum, the pros and cons of driving electric - an open discussion.</i></p>				
MB Haynes Virtual Fleet Tour	11/05/2020	Workshop Held By Coalition	100%	10
<p><b>Technology:</b> Propane</p> <p><b>Audience:</b> Government, Private Fleets</p> <p><i>MB Haynes Virtual Fleet Tour video filming for future use. Highlights LPG conversion of 9 light trucks and Alliance AutoGas fueling infrastructure on site. Demonstrated fueling a LPG vehicle and ride along. Interviews by MB Haynes staff, Alliance AutoGas staff and LOSCVC staff.</i></p>				
City of Hendersonville/Henderson County Virtual Fleet Tour	11/06/2020	Workshop Held By Coalition	100%	8

Activity Name	Dates	Activity Type	Percentage from Coalition	Persons Reached
<b>Technology:</b> Hybrid electric vehicles, Natural gas vehicles, Propane <b>Audience:</b> Government <i>City of Hendersonville/Henderson County Virtual Fleet Tour filming. Highlights City of Hendersonville CNG vehicles, Propane mowers and Plug-In Hybrid. Highlights of Henderson County fueling infrastructure. Interview with Dominion Energy (NG Provider). City of Hendersonville staff and Mayor.</i>				
Annual State of Our Air Briefing and Press Virtual Conference	10/30/2020	Media Event	100%	106,663
<b>Technology:</b> Biodiesel, E85, Electric vehicles, Fuel economy improvements, Hybrid electric vehicles, Idle reduction, Natural gas vehicles, Propane, Vehicle miles traveled reduction <b>Audience:</b> General Public, Government <i>Press conference attended by the Buncombe County Channel TV and print media highlighting ozone season monitoring, regional, state and federal air quality updates by local and state agencies. LOSCVC Coordinator presented on AFV opportunities in region. 25 in attendance at meeting. 5 print media outlets and Buncombe County TV covered the event.</i>				
LOSCVC Autonomous & Connected Vehicles Workshop	01/24/2020	Workshop Held By Coalition	100%	104,696
<b>Technology:</b> Electric vehicles <b>Audience:</b> General Public, Private Fleets, Transit <i>Autonomous &amp; Connected Vehicles Workshop collaboration with Land of Sky Clean Vehicles Coalition, Waste Reduction Partners, French Broad River MPO and Centralina Clean Fuels Coalition. Speaker from NCDOT, Volvo, Kimley-Horn and US DOE Vehicle Technologies Office. 60 attendees. WLOS ABC TV affiliate reported on event (104,636 avg. viewers).</i>				
Proterra Meeting Representative	02/25/2020	Meeting - Other	100%	2
<b>Technology:</b> Electric vehicles <b>Audience:</b> Transit <i>Meeting with Eric Reynolds of Proterra regarding electric transit buses and potential tour of Greenville, SC plant.</i>				
Duke Energy-Meeting	02/25/2020, 07/22/2020, 07/24/2020, 08/04/2020, 08/19/2020	Meeting - Other	100%	2
<b>Technology:</b> Electric vehicles <b>Audience:</b> Government, Private Fleets <i>Meeting with Lisa Poger, Duke Energy EV program manager for NC to discuss collaborating on upcoming educational events. Meeting with Lang Reynolds regarding VW and Duke energy EV transportation pilot.</i>				
I-40 Alt Fuel Corridor Plan Project Management Committee	02/26/2020, 03/19/2020, 03/25/2020, 04/08/2020, 05/27/2020, 06/24/2020, 07/22/2020, 09/23/2020	Meeting - Stakeholder	100%	15
<b>Technology:</b> Electric vehicles, Natural gas vehicles <b>Audience:</b> General Public, Government, Private Fleets, Transit, Utility, Waste <i>Meeting of project management committee to develop plan for I-40 corridor.</i>				
Blue Ridge Community College Meeting First Responder Training	02/28/2020	Meeting - Other	100%	2
<b>Technology:</b> Biodiesel, Electric vehicles, Hybrid electric vehicles, Natural gas vehicles, Propane <b>Audience:</b> Government <i>Meeting with Joe Shook regarding first responder training.</i>				
CFAT funding meetings	03/05/2020	Meeting - Other	100%	2

Activity Name	Dates	Activity Type	Percentage from Coalition	Persons Reached
<b>Technology:</b> Electric vehicles <b>Audience:</b> General Public, Government, Private Fleets <i>Calls with CFAT program administrator and WNC air quality agency rep. regarding funding for charging stations in Buncombe County parking decks.</i>				
CFAT funding meeting	03/06/2020	Meeting - Other	100%	3
<b>Technology:</b> Electric vehicles <b>Audience:</b> General Public, Government, Private Fleets <i>Meeting with Don Francis and Stan Cross regarding CFAT funding for EVSE.</i>				
Isothermal COG meeting	03/11/2020	Meeting - Other	100%	3
<b>Technology:</b> Electric vehicles <b>Audience:</b> General Public, Government, Private Fleets <i>Meeting with Scott Dadson ED of Isothermal COG regarding funding for charging stations.</i>				
NC DOT meeting ZEV plan	03/20/2020	Meeting - Other	100%	3
<b>Technology:</b> Electric vehicles <b>Audience:</b> General Public, Government, Private Fleets <i>Meeting with NCDOT regarding ZEV planning.</i>				
NC Electric Membership Coop Association	04/21/2020	Meeting - Stakeholder	100%	4
<b>Technology:</b> Electric vehicles <b>Audience:</b> General Public, Government, Private Fleets <i>Meeting with Evan Fitzgerald of NC EMC association regarding existing and future charging station projects.</i>				
Georgia Clean Cities Meeting	05/14/2020	Meeting - Other	100%	3
<b>Technology:</b> Electric vehicles <b>Audience:</b> General Public, Government, Private Fleets <i>Meeting with Georgia Clean Cities Coordinators to discuss designating US23 from NC to GA as alt fuel corridor.</i>				
Federal Alt Fuel Excise Tax Credit Outreach	05/28/2020	Meeting - Stakeholder	100%	8
<b>Technology:</b> Natural gas vehicles, Propane <b>Audience:</b> Government, Private Fleets <i>Advise fleet stakeholders of alternative fuel excise tax credit reinstated.</i>				
Ingles market meeting	05/28/2020	Meeting - Other	100%	2
<b>Technology:</b> Electric vehicles <b>Audience:</b> General Public <i>Meeting with Peter Sprague to discuss EVSE installations at Ingles stores.</i>				
Lion Electric Info Meeting	03/20/2020, 07/07/2020	Meeting - Other	100%	20
<b>Technology:</b> Electric vehicles <b>Audience:</b> Government <i>Southeast Clean Cities call with Lion Electric to discuss EV. Call to discuss NC state contract.</i>				
Alliance AutoGas Meeting regarding AutoGas answers event	02/26/2020, 07/28/2020, 09/18/2020, 10/16/2020	Meeting - Other	100%	4
<b>Technology:</b> Propane <b>Audience:</b> Government, Private Fleets <i>Meeting with Jessica Johnson of Alliance AutoGas regarding future event planning.</i>				
Haywood Electric Coop Meeting	04/13/2020, 08/19/2020, 08/24/2020, 11/25/2020, 12/01/2020	Meeting - Stakeholder	100%	2



Activity Name	Dates	Activity Type	Percentage from Coalition	Persons Reached
<b>Technology:</b> Electric vehicles <b>Audience:</b> General Public, Government, Private Fleets <i>Meetings with Ken Thomas of Haywood Electric Coop and Whitney Schmidt of ChargePoint regarding potential DCFC at Pilot Station on I-40 in Haywood County.</i>				
AutoGas Answers Virtual Zoom Webinar	11/17/2020	Workshop Held By Coalition	100%	35
<b>Technology:</b> Propane <b>Audience:</b> General Public, Government, Private Fleets, Transit <i>LOSCVC Coalition sponsored and facilitated AutoGas Answers Virtual Zoom Webinar. Co-Sponsors - PERC, NC Propane Gas Association, and Alliance AutoGas. 35 persons reached and webinar recorded for future use.</i>				
Pineshore Energy Meeting	01/09/2020, 10/28/2020, 11/05/2020, 11/25/2020	Meeting - Other	100%	2
<b>Technology:</b> Electric vehicles <b>Audience:</b> Other <i>Meeting with David Thompson, Pineshore, to discuss DCFC in Transylvania County, level 2 chargers at Haywood Regional Medical Center, installation of new chargers at AB-Tech college, and funding sources.</i>				
Plug In NC Dealer Education Meeting	05/18/2020	Meeting - Other	100%	6
<b>Technology:</b> Electric vehicles <b>Audience:</b> Government, Private Fleets, Other <i>Meeting with Plug in NC dealer education workgroup</i>				
NFPA First Responder Alt Fuel Vehicle Safety training	10/27/2020	Workshop Held By Coalition	100%	28
<b>Technology:</b> Electric vehicles, Hybrid electric vehicles, Hydrogen, Natural gas vehicles, Propane <b>Audience:</b> Government, Other <i>LOS CVC collaborated with Triangle and Centralina Clean Cities Coalitions and the National Fire Protection association to conduct a day long first responder training alternative fuel vehicle response.</i>				
Dominion Energy Call	06/03/2020	Meeting - Other	100%	2
<b>Technology:</b> Natural gas vehicles <b>Audience:</b> Delivery, Government, Private Fleets, Waste <i>Meeting with Lee McElrath of Dominion Energy regarding I-40 Alt fuel corridor plan</i>				
Southern Alliance of Clean Energy EV policy meeting	06/04/2020	Meeting - Other	100%	30
<b>Technology:</b> Electric vehicles <b>Audience:</b> Delivery, Government, Private Fleets, Transit, Utility <i>Meeting to discuss EV policies in NC</i>				
Plug In NC infrastructure meeting	05/07/2020, 06/05/2020, 07/10/2020, 08/07/2020, 10/02/2020, 12/04/2020	Meeting - Other	100%	8
<b>Technology:</b> Electric vehicles <b>Audience:</b> General Public, Government, Private Fleets, Utility <i>Plug In NC infrastructure meetings</i>				
North Carolina Stakeholder Input Meeting for I-40 corridor plan	06/08/2020	Meeting - Stakeholder	100%	30
<b>Technology:</b> Electric vehicles, Natural gas vehicles <b>Audience:</b> Delivery, General Public, Government, Private Fleets, Utility <i>North Carolina stakeholder input meeting regarding I-40 AFC plan</i>				

Activity Name	Dates	Activity Type	Percentage from Coalition	Persons Reached
Meeting with Kitsbow regarding EV charger <b>Technology:</b> Electric vehicles <b>Audience:</b> General Public <i>Meeting with Kitsbow manufacturing regarding EV charging infrastructure</i>	10/21/2020	Meeting - Other	100%	3
City of Brevard EV charger meeting <b>Technology:</b> Electric vehicles <b>Audience:</b> General Public, Government <i>Meeting with City of Brevard regarding EV station and funding sources.</i>	11/06/2020	Meeting - Other	100%	2
Plug in NC EV webinar planning <b>Technology:</b> Electric vehicles <b>Audience:</b> General Public, Government, Private Fleets <i>Meeting Jacob Bolin of PINC regarding planning electric vehicle webinars</i>	05/05/2020, 05/19/2020, 05/29/2020, 06/05/2020, 06/12/2020, 06/16/2020, 06/19/2020, 06/23/2020, 06/26/2020, 07/09/2020, 07/24/2020, 07/30/2020, 08/17/2020, 08/24/2020, 09/09/2020, 09/29/2020, 10/19/2020	Meeting - Other	100%	6
Mountain True and City of Asheville Meeting regarding EVs for City <b>Technology:</b> Electric vehicles <b>Audience:</b> Government, Transit <i>Meeting with Mountain True and City of Asheville City Council person to discuss expansion of city's EV fleet and grant opportunities including VW.</i>	07/10/2020	Meeting - Other	100%	5
Mill Spring Ag center meeting regarding EV station <b>Technology:</b> Electric vehicles <b>Audience:</b> General Public, Government <i>Meeting with Anwar Timol of Mill Spring Ag Center regarding EV station and funding sources.</i>	11/11/2020	Meeting - Other	100%	2
WHKP radio interview on air quality and ALT fuel vehicles <b>Technology:</b> Electric vehicles, Natural gas vehicles, Propane <b>Audience:</b> General Public, Government, Private Fleets <i>Interview with WHKP radio outreach regarding alt fuels</i>	07/13/2020, 11/05/2020	Media Event	100%	10,000
Transylvania County Transportation System Meeting <b>Technology:</b> Propane <b>Audience:</b> Transit <i>Meeting with April Alm, director of Transylvania County Transit, regarding conversion of vehicles to propane and funding sources.</i>	11/09/2020, 11/19/2020, 11/30/2020	One-on-One Fleet Outreach	100%	2

Activity Name	Dates	Activity Type	Percentage from Coalition	Persons Reached
Eastern Band of Cherokee Indians Meeting (EBCI)	06/02/2020, 06/09/2020, 06/22/2020, 07/16/2020	Meeting - Other	100%	4
<b>Technology:</b> Electric vehicles <b>Audience:</b> Government <i>Meetings with Katie Tiger, Matt Hampton, and Mike Parker EBCI regarding VW funding and purchase of Chevy Bolts</i>				
Electric Transit and School Bus Initiatives in the Southeast Webinar	07/22/2020	Workshop Held By Coalition	100%	155
<b>Technology:</b> Electric vehicles, Hybrid electric vehicles <b>Audience:</b> General Public, Government, Transit, Utility <i>NC Clean Cities Coalitions and Plug-in NC co-sponsored a free webinar, the first of a three-part series, to learn about electric transit and school bus deployments in the Southeast. Kathleen Staples from Dominion Energy shared an update and overview of Dominion Energy's Electric School Bus Program in Virginia. George Linney and Jay Perkins of Greensboro Transit Authority shared the benefits and lessons learned from one of the earliest electric bus deployments in North Carolina.</i>				
Blue Ridge Parkway Foundation Meeting	07/31/2020	Meeting - Other	100%	2
<b>Technology:</b> Electric vehicles <b>Audience:</b> General Public <i>Meeting with George Ivey Blue Ridge Parkway Foundation regarding EVSE along parkway and VW grant opportunity.</i>				
Alliance Autogas Meeting	05/15/2020, 08/03/2020	Meeting - Other	100%	2
<b>Technology:</b> Propane <b>Audience:</b> General Public, Government, Private Fleets, Transit <i>Meeting with Alliance AutoGas representative regarding status of projects MB Haynes, Smokies National Park, and Greyline Tours. Discussed propane powered electric generator EVSE technology.</i>				
SE Coalition Alt Fuel Corridor Council	01/10/2020, 01/23/2020, 03/19/2020, 04/16/2020, 05/21/2020, 06/18/2020, 07/16/2020, 08/13/2020, 08/20/2020, 09/17/2020, 10/15/2020, 11/19/2020, 12/17/2020	Meeting - Stakeholder	50%	30
<b>Technology:</b> Electric vehicles, Hydrogen, Natural gas vehicles, Propane <b>Audience:</b> Government <i>Southeast Coordinator Council Alternative Fuel Corridor Project to promote expanding Interstate corridors through increasing alt fuel fueling infrastructure and corridor educational signage. 9-state participation coordinated by TN Clean Fuels.</i>				
NC DOT meeting regarding alt fuel corridors	09/25/2020	Meeting - Other	100%	7
<b>Technology:</b> Electric vehicles, Natural gas vehicles, Propane <b>Audience:</b> Delivery, General Public, Government, Private Fleets <i>Meeting with Heather Hildebrandt, NC DOT, to coordinate according alt fuel corridor nominations and signage.</i>				
A Utility's Perspective: Medium & Heavy-Duty Vehicle Electrification - Webinar	10/09/2020	Workshop Held By Coalition	100%	62

Activity Name	Dates	Activity Type	Percentage from Coalition	Persons Reached
<p><b>Technology:</b> Electric vehicles, Hybrid electric vehicles  <b>Audience:</b> General Public, Government, Private Fleets, Utility</p> <p><i>Clean Cities Coalitions of North Carolina and Plug-in NC concluded the 3-part webinar series on Transportation Electrification in the Medium- and Heavy-Duty sectors. In the third and final webinar, we heard perspectives from one of the nation's largest investor-owned utilities: Duke Energy.</i></p> <p><i>Mike Rowand, Director of Technology Development for Duke Energy, presented on power and planning considerations for medium- and heavy-duty operators and how utilities can help with future transportation and infrastructure planning.</i></p> <p><i>Jim Poch, transportation manager of Duke Energy South Carolina, shared current initiatives and highlighted successful collaboration with case studies from various Duke Energy service territories.</i></p>				
AB Tech College EV charger Signage	11/13/2020	One-on-One Fleet Outreach	100%	2
<p><b>Technology:</b> Electric vehicles  <b>Audience:</b> General Public, Government</p> <p><i>Meeting with AB Tech rep regarding signage for EV charging station.</i></p>				
VW Settlement Level 2 RFP Outreach	11/17/2020, 12/11/2020, 12/22/2020	Literature Distribution	100%	150
<p><b>Technology:</b> Electric vehicles  <b>Audience:</b> Airport, Delivery, General Public, Government, Private Fleets, Transit, Utility, Waste, Other</p> <p><i>Outreach regarding announcement of VW settlement level 2 RFP and state sponsored application webinar.</i></p>				
Haywood Regional Medical Center EVSE Meetings	11/23/2020, 12/01/2020, 12/11/2020	One-on-One Fleet Outreach	100%	6
<p><b>Technology:</b> Electric vehicles  <b>Audience:</b> General Public, Private Fleets</p> <p><i>Meetings with Haywood Regional medical center staff regarding installation of EVSEs at hospital and grant opportunities.</i></p>				
Coalition Stakeholder meeting	12/15/2020	Meeting - Stakeholder	100%	25
<p><b>Technology:</b> Biodiesel, Electric vehicles, Fuel economy improvements, Hybrid electric vehicles, Idle reduction, Natural gas vehicles, Propane, Vehicle miles traveled reduction  <b>Audience:</b> Airport, Delivery, General Public, Government, Private Fleets, Transit, Utility, Waste, Other</p> <p><i>Meeting to discuss coalition staff transition, annual report request information, upcoming VW, and other grant opportunities</i></p>				
Land of Sky Regional Council Meeting Presentation	10/28/2020	Meeting - Stakeholder	100%	30
<p><b>Technology:</b> Electric vehicles, Fuel economy improvements, Propane  <b>Audience:</b> General Public, Government</p> <p><i>CVC staff presented program update to the Land of Sky Regional Council monthly meeting.</i></p>				
VW Settlement Call with Blue Ridge Parkway Foundation	12/23/2020	Meeting - Other	100%	2
<p><b>Technology:</b> Electric vehicles  <b>Audience:</b> Other</p> <p><i>Meeting with Kevin Brandt from Blue Ridge Parkway Foundation to discuss participation in VW Settlement Funds</i></p>				
VW Settlement Call with Town of Black Mountain	12/28/2020	Meeting - Other	100%	2
<p><b>Technology:</b> E85  <b>Audience:</b> Government</p> <p><i>Meeting with Town of Black Mountain staff about participation in VW Settlement RFP</i></p>				
AB Tech EV Charger Commissioning	12/11/2020	Meeting - Other	100%	15
<p><b>Technology:</b> Electric vehicles  <b>Audience:</b> General Public</p> <p><i>Participated in commissioning of new EV charging station at AB Tech with community college staff and Blue Ridge EV Club</i></p>				
Social Media Outreach	12/31/2020	Social Media	100%	2,194

Activity Name	Dates	Activity Type	Percentage from Coalition	Persons Reached
<p><b>Technology:</b> Biodiesel, Electric vehicles, Fuel economy improvements, Hybrid electric vehicles, Idle reduction, Natural gas vehicles, Propane, Vehicle miles traveled reduction</p> <p><b>Audience:</b> Airport, Delivery, General Public, Government, Private Fleets, Transit, Utility, Waste, Other</p> <p><i>Facebook social media post views for 2020. Page is followed by 166 people.</i></p>				
Strive Not To Drive Social Media Outreach	05/18/2020	Social Media	100%	131,000
<p><b>Technology:</b> Vehicle miles traveled reduction</p> <p><b>Audience:</b> General Public, Government</p> <p><i>The 2020 focus was for providing virtual at-home activities as well as activities that furthered VMT education. 9 total email registrations for the Bike Rack Scavenger Hunt. Social media reached 1,049 with our expanded outreach. We did our main focused push for the Strive Week (3rd week in May) but all of our activities were available from the start of May and available through even June. Media coverage was good - WLOS 13 ABC affiliate coverage as well as good local print/online coverage. Due to Covid were unable to compile any VMT statistics for the event.</i></p>				
Introduction to Air Quality Resources	01/06/2020	Meeting - Other	100%	45
<p><b>Technology:</b> Biodiesel, E85, Electric vehicles, Fuel economy improvements, Hybrid electric vehicles, Idle reduction, Natural gas vehicles, Propane, Vehicle miles traveled reduction</p> <p><b>Audience:</b> General Public, Government</p> <p><i>Coalition stakeholder with NCDENR-Asheville Teacher workshop discussing air quality including alternative fuels and technologies.</i></p>				
Air Is All Around Us	01/08/2020, 01/10/2020	Meeting - Other	100%	50
<p><b>Technology:</b> Fuel economy improvements, Hybrid electric vehicles, Idle reduction, Vehicle miles traveled reduction</p> <p><b>Audience:</b> General Public, Government</p> <p><i>Curricula based education presented by NC DAQ staff in the public school system on air quality and solutions including AFV's/Technologies.</i></p>				
The Air We Breathe	02/18/2020	Meeting - Other	100%	18
<p><b>Technology:</b> Biodiesel, Electric vehicles, Fuel economy improvements, Hybrid electric vehicles, Idle reduction, Natural gas vehicles, Propane, Vehicle miles traveled reduction</p> <p><b>Audience:</b> General Public, Government</p> <p><i>NCDENR Asheville coalition stakeholder presented information on air quality and vehicle emissions.</i></p>				
When There Is Smoke	01/07/2020, 03/04/2020, 12/10/2020	Meeting - Other	100%	185
<p><b>Technology:</b> Fuel economy improvements, Hybrid electric vehicles, Idle reduction, Vehicle miles traveled reduction</p> <p><b>Audience:</b> General Public, Government</p> <p><i>NCDAQ Curricula based education in the Middle Schools system on air quality, AFV's and technologies.</i></p>				
AQ-IQ Awards Program	07/18/2020	Meeting - Other	100%	60
<p><b>Technology:</b> Biodiesel, Electric vehicles, Fuel economy improvements, Hybrid electric vehicles, Idle reduction, Natural gas vehicles, Propane, Vehicle miles traveled reduction</p> <p><b>Audience:</b> General Public</p> <p><i>LOSCVC stakeholders assist with judging and an Awards Program recognizing air quality awareness contest highlighting air quality causes and solutions. Program for 7th grade students within the region. WEBEX mtg. due to COVID.</i></p>				
Envirothon	03/11/2020	Meeting - Other	100%	140
<p><b>Technology:</b> Fuel economy improvements, Hybrid electric vehicles, Idle reduction, Vehicle miles traveled reduction</p> <p><b>Audience:</b> General Public</p> <p><i>LOSCVC stakeholder NC DAQ organized school competition event on Air quality and AFV information display.</i></p>				
Fuels Fix article regarding renewable natural gas workshops	03/03/2020	Media Event	100%	800
<p><b>Technology:</b> Natural gas vehicles</p> <p><b>Audience:</b> Airport, Delivery, General Public, Government, Private Fleets, Transit, Utility, Waste, Other</p> <p><i>Article on renewable natural gas workshops in North Carolina.</i></p>				
<b>Total:</b>				<b>461,736</b>

## GRANTS

Name	Grantor	Total Grant Amount	Total Matching Funds	Total Project Funding	Grant Amount Spent in 2020	Matching Funds Spent in 2020	Total Project Funding Spent in 2020
	NCDOT-CMAQ	\$80,000	\$20,000	\$100,000	\$80,000	\$20,000	\$100,000
<b>Additional grant money added since start:</b> \$0 <b>Additional matching funds added since start:</b> \$0 <b>Length of grant:</b> 3 years <b>Year grant began:</b> 2018 <b>Sources of the grant:</b> Congestion Mitigation and Air Quality Improvement (CMAQ) Program <b>Partners:</b> Alliance AutoGas, Biltmore Co, Duke Energy, GRSMNP, LOSRC, NC Propane Gas Association, PERC, Proterra, PSNC <b>Technologies:</b> B100 - 100 percent Biodiesel, Biodiesel Blends, CNG - Compressed Natural Gas, Electricity, Fuel Economy Improvements, Idle Reduction, Propane, Vehicle-Miles Traveled Reductions <b>Purpose:</b> LOSRC - Education and outreach promoting use of low emission vehicles.							
<b>Total:</b>		<b>\$80,000</b>	<b>\$20,000</b>	<b>\$100,000</b>	<b>\$80,000</b>	<b>\$20,000</b>	<b>\$100,000</b>