

# 2017 Transportation Technology Deployment Report:

Middle-West Tennessee Clean Fuels  
Coalition

Expanded Edition

March 2018

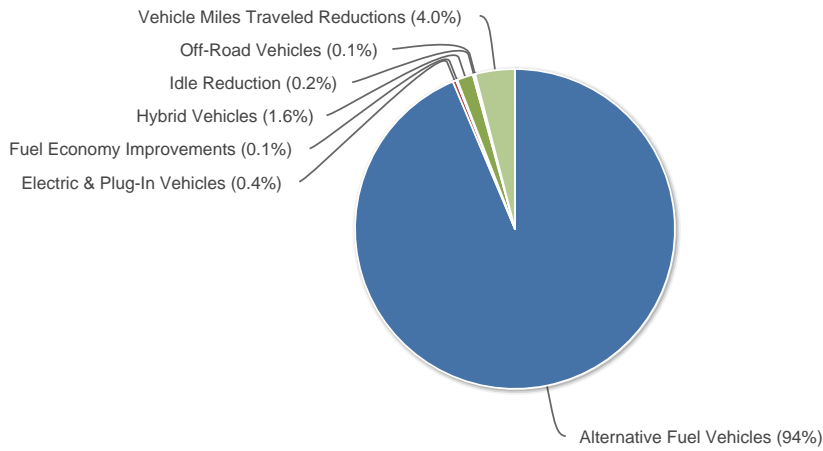
The U.S. Department of Energy's (DOE) Clean Cities program advances the nation's economic, environmental, and energy security by supporting local actions to reduce petroleum use in transportation. A national network of nearly 100 Clean Cities coalitions brings together stakeholders in the public and private sectors to deploy alternative and renewable fuels, idle-reduction measures, fuel economy improvements, and new transportation technologies, as they emerge.

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 and hybrid electric vehicles, idle-reduction initiatives, fuel economy activities, and programs to reduce vehicle miles traveled. NREL and DOE analyze the data and translate them into petroleum-use and greenhouse gas reduction impacts for individual coalitions and the program as a whole. This report summarizes those impacts for Middle-West Tennessee Clean Fuels Coalition.

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

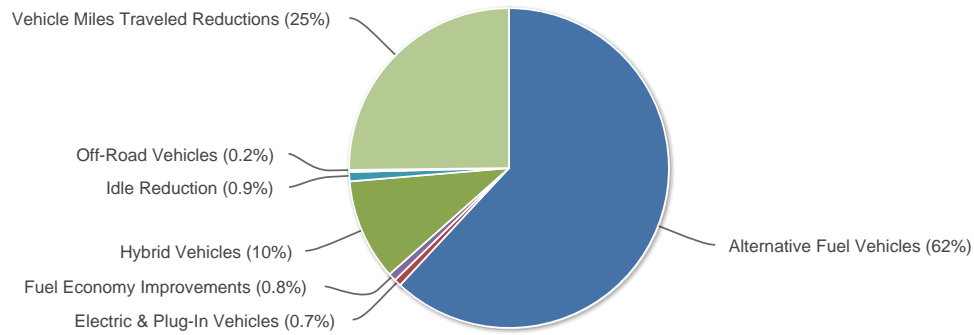
## 2017 Gallons of Gasoline Equivalent Reduced

8,787,455 gallons

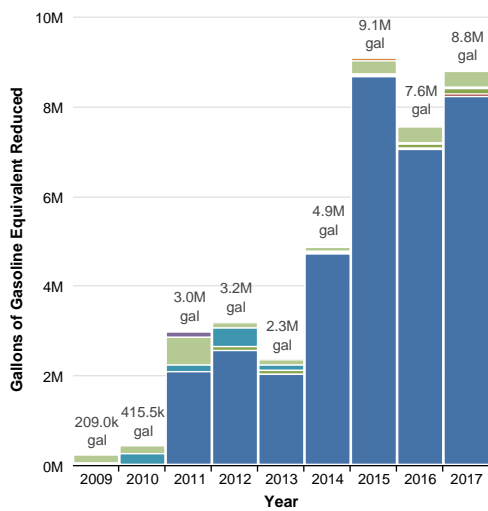


## 2017 Greenhouse Gas Emissions Reduced

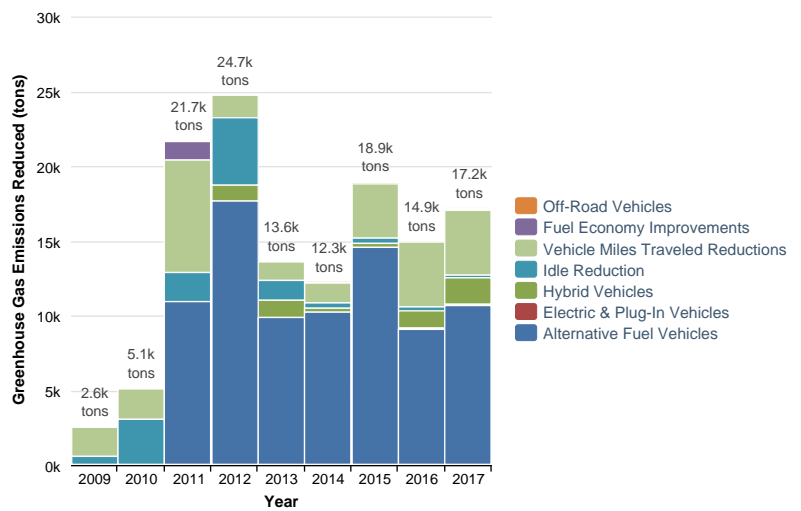
17,168 tons



## Historical Gallons of Gasoline Equivalent Reduced

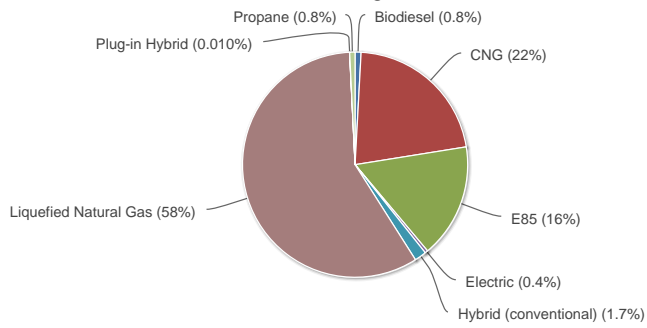


## Historical Greenhouse Gas Emissions Reduced



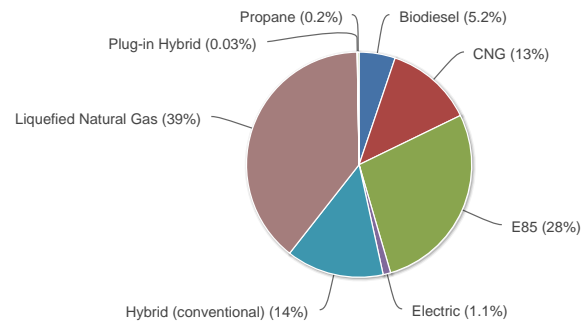
## 2017 Gallons of Gasoline Equivalent Reduced by Fuel Type for Alternative Fuel Projects

8,411,490 gallons



## 2017 Greenhouse Gas Emissions Reduced by Fuel Type for Alternative Fuel Projects

12,550 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. 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. This means that they omit emissions from sources such as electric power plants, refineries, and biofuel feedstock farms (where emissions are sufficiently removed from populations in order to minimize health effects). 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). To learn more about what your emissions numbers mean, please take the Understanding Emissions or Emissions Compliance courses at [Clean Cities University](http://CleanCitiesUniversity.org).

Reductions by Fuel Type*	NOx	VOC	CO	PM10	PM2.5
Biodiesel	0 lb	0 lb	0 lb	0 lb	0 lb
CNG - Compressed Natural Gas	74,680 lb	155 lb	-159,089 lb	0 lb	0 lb
E85 - 85% Ethanol	43,544 lb	-2,835 lb	-71,463 lb	292 lb	71 lb
Electric (all-electric)	1,002 lb	22 lb	159 lb	5 lb	5 lb
Hybrid (conventional)	12 lb	34 lb	0 lb	0 lb	0 lb
LNG - Liquefied Natural Gas	288,090 lb	0 lb	-1,167,952 lb	0 lb	0 lb
Plug-in Hybrid	16 lb	3 lb	63 lb	0 lb	0 lb
Propane	3,110 lb	-218 lb	-5,310 lb	22 lb	5 lb
VMT Reduction (Gasoline)	1,630 lb	2,605 lb	46,766 lb	654 lb	143 lb
<b>Total:</b>	<b>412,085 lb</b>	<b>-234 lb</b>	<b>-1,356,825 lb</b>	<b>973 lb</b>	<b>224 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.

## COALITION

### Middle-West Tennessee Clean Fuels Coalition - TN

<http://www.tncleanfuels.org>

**Designated:** 10/13/2004

**Boundaries:** Counties: Bedford, Benton, Carroll, Cheatham, Chester, Crockett, Davidson, Decatur, Dickson, Dyer, Fayette, Gibson, Giles, Hardeman, Hardin, Haywood, Henderson, Henry, Hickman, Houston, Humphreys, Lake, Lauderdale, Lawrence, Lewis, Lincoln, Macon, Madison, Marshall, Maury, McNairy, Montgomery, Moore, Obion, Perry, Robertson, Rutherford, Shelby, Smith, Stewart, Sumner, Tipton, Trousdale, Wayne, Weakley, Williamson, Wilson

## COORDINATORS

	Address	Telephone	Fax
<b>Alexa Voytek</b>	Tennessee Department of Environment and Conservation P.O. Box 148725 Nashville, TN 37214		
<hr/>			
Number of coordinators			2
Coordinator(s) hours per week on Clean Cities			19 hours
Other staff hours per week on Clean Cities			8 hours
How long have you been the coordinator?			16 years

## OPERATING INFORMATION

Host organization	Government - State
<b>Stakeholders</b>	
Number of stakeholders	110
Number of private stakeholders	50
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?	Excellent
How do you obtain most of your data for the survey?	Coalition records, Estimates, Online questionnaire to stakeholders (SurveyMonkey, Google Forms, etc), 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

### 2017 Outside Funding

Stakeholder dues collected	\$30,000
How much funding is obtained from other sources to cover coalition operating expenses?	\$0
Non-DOE or ARRA grant and matching funds spent in 2017	\$0
Total non-DOE or ARRA funding in 2017	\$30,000

# VEHICLE & FUEL INVENTORY

## Alternative Fuel & Vehicles

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
Biodiesel Fleets - HD	Heavy-Duty	Biodiesel (20%)	724	27,086 gal	5,775 gal	50.6 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 <i>This is aggregated data for three fleets (one is State government, one is a transit provider, and one is a municipality). The vehicles are mostly a mix of dump trucks, tractor trailers, and HD transit vehicles. We estimate the use split between LD and HD fuel use for some cases.</i>						
Biodiesel Fleets - LD	Light-Duty	Biodiesel (20%)	68	1,100 gal	211 gal	1.9 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 <i>This is data for one State government fleet - included here are mostly LD pickup trucks. We estimate the HD/LD split in fuel use.</i>						
Biodiesel Stations - Middle-West TN	Light-Duty	Biodiesel (20%)	1,500	247,651 gal	63,359 gal	579.8 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 <i>This is an aggregate of Middle-West TN partner fueling stations that offer biodiesel blends. Unsure of the split of LD vs. HD, so we assumed mostly LD.</i>						
CNG Fleets - HD	Heavy-Duty	CNG	149	286,519 GGE	257,867 gal	217.1 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 <i>Vehicle type is a mix of different types of work trucks. We estimate the split between HD and LD fuel use.</i>						
CNG Fleets - LD	Light-Duty	CNG	178	120,808 GGE	114,768 gal	148.7 tons
<b>Market:</b> General/Unknown <b>Vehicle type:</b> Car <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <i>Vehicle types are mostly LD work trucks and cars. We estimate the split between HD and LD fuel use.</i>						
CNG Stations - Middle-West TN	Heavy-Duty	CNG	875	656,580 GGE	590,922 gal	497.6 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 <i>The number of vehicles is an estimate, as we do not have access to this information. 656,580 GGE of CNG sold (*) / year. (We assume 15,000 mi/yr avg vehicle) / (20 mpg) = 750 GAL/YR. Taking the total CNG usage at public stations (*) divided by the amount used per vehicle-year, we arrive at 875 vehicles using CNG in TN.</i>						
E85 Fleets - HD	Heavy-Duty	E85	12	41,536 gal	20,007 gal	49.2 tons
<b>Market:</b> Commuters <b>Vehicle type:</b> Bus: Shuttle <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <i>One fleet that provides transit shuttle services to a couple counties.</i>						

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
E85 Fleets - LD	Light-Duty	E85 (blender pump)	1,033	96,175 gal	55,589 gal	216.9 tons
<b>Market:</b> General/Unknown <b>Vehicle type:</b> Car <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <i>This is a mix of private, utility, and government fleets. Lionshare of vehicles being government service. One data provider could not confirm data utilization, only fleet vehicle numbers.</i>						
E85 Stations - Middle-West TN	Heavy-Duty	E85	9,032	2,709,658 gal	1,305,152 gal	3,207.4 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 <i>Mostly cars and SUVs. 2,709,658 Gal E85 sold (*) / year. (We assume 12,000 mi/yr avg vehicle) / (20 mpg) = 600 GAL/YR. If we then assume that the average user uses E85 50% of the time, then they would go through 300 gal/yr-vehicle.</i>  <i>So, taking that total E85 usage at public stations (*) and dividing by the amount used per vehicle-year, we arrive at 9,032 FFVs using E85 in TN (based on our estimates).</i>						
Frito-Lay - Heavy-duty CNG	Heavy-Duty	CNG	6	117,100 GGE	105,390 gal	88.7 tons
<b>Market:</b> Corporate Fleet <b>Vehicle type:</b> Truck: Semi-trailer <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> Yes <i>Frito-Lay Division Data Only</i>						
Propane Fleets - HD	Heavy-Duty	Propane	26	38,216 gal	19,527 gal	7.7 tons
<b>Market:</b> Utility <b>Vehicle type:</b> Unknown/Other <b>Percentage from coalition:</b> 75% <b>National Clean Fleets Partnership:</b> No <i>Aggregated data from two fleets. Most were buses. Some were work trucks.</i>						
Propane Fleets - LD	Light-Duty	Propane	4	6,256 gal	4,736 gal	6.7 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 <i>Aggregated data from two fleets. All were work trucks.</i>						
Schwan's - Medium-duty Propane	Heavy-Duty	Propane	13	55,847 gal	38,049 gal	14.9 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> Yes						
UPS - Heavy-duty LNG	Heavy-Duty	LNG	208	8,170,802 gal	4,897,579 gal	4,912.3 tons
<b>Market:</b> Corporate Fleet <b>Vehicle type:</b> Truck: Semi-trailer <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> Yes						



Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
Waste Management - Heavy-duty CNG	Heavy-Duty	CNG	98	832,960 GGE	749,664 gal	631.2 tons
Market: Corporate Fleet Vehicle type: Truck: Refuse Percentage from coalition: 100% National Clean Fleets Partnership: Yes						
<b>Total:</b>			<b>13,926</b>		<b>8,228,594 gal</b>	<b>10,631 tons</b>

## Electric, Hybrid & Plug-in Vehicles

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
Electric - HD, buses	Heavy-Duty	Electric	9	29,650 gal	118.7 tons
Electricity used: 268,646 kWh Market: Government - Local Vehicle type: Bus: Transit Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: <i>These are transit buses from a local transit authority.</i>					
EV Fleet - LD	Light-Duty	Electric	7	370 gal	1.9 tons
Average electric fuel economy: - kWh/100mi Miles traveled per vehicle per year: 1,410 mi Market: Utility Vehicle type: Car Percentage from coalition: 75% National Clean Fleets Partnership: No Workplace Charging Challenge: <i>This information is from two utility fleets. We estimated the fuel economy of the EVs and conventional vehicles replaced as kwh usage was not reported for all vehicles.</i>					
Hybrid Fleets - HD	Heavy-Duty	HEV	44	114,860 gal	1,414.8 tons
Average vehicle fuel economy: 5 MPG Miles traveled per vehicle per year: 38,008 mi Market: General/Unknown Vehicle type: Bus: Transit Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: <i>Data aggregated from two transit fleets. One is local government and the other is a non-profit fleet. Vehicles are all Gillig or NABI buses.</i>					
Hybrid Fleets - LD	Light-Duty	HEV	43	7,720 gal	95.1 tons
Average vehicle fuel economy: 39 MPG Miles traveled per vehicle per year: 9,492 mi Market: General/Unknown Vehicle type: Car Percentage from coalition: 100% National Clean Fleets Partnership: No Workplace Charging Challenge: <i>This is a mix of hybrids from a transit company, utility companies, and state government fleets.</i>					
PHEV Fleet - LD	Light-Duty	PHEV	1	559 gal	2.9 tons
Electricity used: 4,868 kWh Market: Utility Vehicle type: Pickup/SUV/Van Percentage from coalition: 75% National Clean Fleets Partnership: No Workplace Charging Challenge: <i>Data from one utility fleet. Vehicle is a Chevy 1500.</i>					

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
PHEV Fleets - HD	Heavy-Duty	PHEV	2	242 gal	1.0 tons
Electricity used: 3,799 kWh Market: Utility Vehicle type: Unknown/Other Percentage from coalition: 75% National Clean Fleets Partnership: No Workplace Charging Challenge:					
Data aggregated from two utility fleets. One vehicle is a Odyne/Altec, one is Freightliner M2-106.					
UPS - Medium-duty Hybrids	Heavy-Duty	HEV	9	20,226 gal	249.1 tons
Average vehicle fuel economy: 24 MPG Miles traveled per vehicle per year: 18,742 mi Market: Corporate Fleet Vehicle type: Truck: No Trailer Percentage from coalition: 100% National Clean Fleets Partnership: Yes Workplace Charging Challenge:					
UPS indicates that their hybrid vehicles see up to 4x improvement in fuel economy compared to their conventional counterparts.					
<b>Total:</b>			<b>115</b>	<b>173,627 gal</b>	<b>1,884 tons</b>

## Off-Road Vehicles

Fleet Name	Application	Method	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
Biodiesel Fleet - Off-road HD	Other	Alternative fuel or vehicles	Biodiesel (20%)	220	679 gal	5.9 tons
Fuel used: 4,249 gal Percentage from coalition: 75% National Clean Fleets Partnership: No This is data for off-road HD biodiesel vehicles from two fleets. Vehicles represent a mix of excavation equipment, loaders, motor graders, dozers, drilling equipment and asphalt equipment. We estimated the split between LD/HD fuel consumption. One fleet is EPA-mandated to use alternative fuel, so we decreased the contribution to 75%.						
Biodiesel Fleet - Off-road LD	Other	Alternative fuel or vehicles	Biodiesel (20%)	512	1,435 gal	12.6 tons
Fuel used: 8,973 gal Percentage from coalition: 75% National Clean Fleets Partnership: No This is data for off-road LD biodiesel vehicles from two fleets. Vehicles represent a mix of tractors, mowing equipment, asphalt equipment, backhoes, brush chippers, and forklifts. We estimated the split between LD/HD fuel use. One fleet is EPA-mandated to use alternative fuels, so shifted the contribution from the coalition to 75%.						
EV fleet - off-road LD	Other	Alternative fuel or vehicles	Electric	27	4,023 gal	16.1 tons
Fuel used: 63,180 kWh Percentage from coalition: 75% National Clean Fleets Partnership: No Data is from one utility fleet. Vehicles are comprised of a mix of forklifts and utility carts.						
Propane Fleets - Forklifts	Other	Alternative fuel or vehicles	Propane	1	33 gal	0.0 tons
Fuel used: 48 gal Percentage from coalition: 100% National Clean Fleets Partnership: No Data from one local utility.						
Propane Fleets - Mowers	Landscaping and lawn equipment	Alternative fuel or vehicles	Propane	10	3,099 gal	1.2 tons
Fuel used: 4,549 gal Percentage from coalition: 100% National Clean Fleets Partnership: No Data from local propane mower users.						
<b>Total:</b>				<b>770</b>	<b>9,269 gal</b>	<b>36 tons</b>

# FUEL ECONOMY

## Fuel Economy Improvements

Fleet Name	Previous Fuel	Current Fuel	Number of Vehicles	Miles Traveled per Vehicle	GGE Reduced	GHG Reduced
City of Jackson Fuel Economy Improvements - HD  Method: Vehicle - More efficient Vehicle class: Heavy-Duty Market: General/Unknown Vehicle type: Unknown/Other Percentage from coalition: 100% National Clean Fleets Partnership: No  <i>Four Ford F-450s replaced with newer, more fuel efficient model year vehicle by municipal fleet.</i>	5 MPG	8 MPG	4	9,500 mi	4,088 gal	50.7 tons
City of Jackson Fuel Economy Improvements - LD  Method: Vehicle - More efficient Vehicle class: Light-Duty Market: General/Unknown Vehicle type: Patrol Car Percentage from coalition: 100% National Clean Fleets Partnership: No  <i>Two municipal police vehicles were replaced with newer, more fuel efficient alternatives. Two Crown Vics replaced with one Ford Taurus and one Ford Explorer.</i>	8 MPG	15 MPG	8	13,140 mi	6,766 gal	83.3 tons
<b>Total:</b>			<b>12</b>	<b>22,640 mi</b>	<b>10,854 gal</b>	<b>134 tons</b>

## Vehicle Miles Traveled Reductions

Project Name	Method	Vehicle Class	GGE Reduced	GHG Reduced
Middle TN Vanpool  Fuel type of vehicles driven less: Gasoline Fuel economy of vehicles driven less: 20 MPG Number of vehicles driven less: 573 VMT reduction per vehicle being driven less: 15,370 mi Fuel type of additional vehicles: Gasoline Fuel economy of additional vehicles: 15 MPG Number of additional vehicles: 90 VMT per additional vehicle: 15,000 mi Percentage from coalition: 100% National Clean Fleets Partnership: No  <i>15-county regional vanpool. With no "vehicle taken off road data," we used an average (from Bureau of Transportation Statistics) of the 2 LDV categories of "short-wheel base" (formerly passenger cars) and "long-wheel base" which includes larger cars and trucks, which were 23 MPG for former cat. and 17 MPG for latter cat., which equals 20 MPG.</i>	Vanpooling	Light-Duty	350,947 gal	4,322.9 tons
<b>Total:</b>			<b>350,947 gal</b>	<b>4,323 tons</b>

## IDLE REDUCTION

### Truck Stop Electrification

Project Name	Number of Bays	Usage per Bay	GGE Reduced	GHG Reduced
Pilot #53 Hurricane Mills - IdleAir	15	522 hrs/year	8,671 gal	92.7 tons
Percentage from coalition: 100% National Clean Fleets Partnership: No <i>Data provided by IdleAir.</i>				
<b>Total:</b>	<b>15</b>		<b>8,671 gal</b>	<b>93 tons</b>

### Idle Reduction

Project Name	Number of Vehicles	Idling Reduced per Vehicle	Fuel Saved per Vehicle	GGE Reduced	GHG Reduced
Clarksville Montgomery County School System - Espar Heater Systems	34	30 mins/day 60 days/year	1 gal/hr	1,129 gal	14.0 tons
Type of project: Direct-fire heater Type of vehicle: Heavy-Duty - Bus: School Percentage from coalition: 100% National Clean Fleets Partnership: No <i>CMCCS is a great example of a progressive school fleet by using propane and idle reduction measures. They use Espar heaters to prevent idling.</i>					
Clarksville Montgomery County School System - Idle Shutoff	291	15 mins/day 60 days/year	1 gal/hr	4,365 gal	54.1 tons
Type of project: Other Type of vehicle: Heavy-Duty - Bus: School Percentage from coalition: 100% National Clean Fleets Partnership: No <i>Idle reduction ECM is from the OEM, but the school sets it to 15 minutes. Combination of BB &amp; TB; Cummins engine.</i>					
<b>Total:</b>	<b>325</b>			<b>5,494 gal</b>	<b>68 tons</b>

## FUEL STATIONS

### New Stations

Fuel	Public Stations	Private Stations
Biodiesel	-	-
CNG - Compressed Natural Gas	1	1
E85 - 85% Ethanol	-	-
Electric Charging Outlets	-	-
Hydrogen	-	-
LNG - Liquefied Natural Gas	-	-
Propane	-	-
<b>Total:</b>	<b>1</b>	<b>1</b>

# OUTREACH ACTIVITIES

Activity Name	Dates	Activity Type	Percentage from Coalition	Persons Reached
<b>Nashville MWTCF Coalition Meeting</b> <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> Airport, Delivery, General Public, Government, Private Fleets, Transit, Utility, Waste, Other <i>On April 11, Alexa, Jonathan, and Melissa hosted the Middle-West Tennessee Clean Fuels Coalition (MWTCF) meeting at the Lane Motor Museum in Nashville. Guest presentations highlighted the Nashville Metropolitan Transit Authority's electric buses, the TMA Group's transportation demand management programs (such as VanStar), Gold Coast Commodities' biodiesel production, and the Nashville International Airport's new CNG shuttles. During the meeting, Jonathan, Alexa, and Melissa also shared details and information on the following news, notes and events:</i> <ul style="list-style-type: none"> <li>- UPS' Commitment to RNG Use in its Memphis Fleet</li> <li>- Chattanooga's 15 Ford Focus EVs and New EV rideshare program</li> <li>- New CNG stations in Knoxville and Fayetteville</li> <li>- Electric buses in Nashville and Chattanooga</li> <li>- New E85 Stations in Tennessee</li> <li>- Clarksville-Montgomery County Schools' 15 New Propane School Buses</li> <li>- Great Smoky Mountains National Park's New Propane Equipment and Dispensers</li> <li>- University of Memphis' New Propane Vehicles and EVSE for Students, Professors, Staff</li> <li>- Kingsport Propane Video by the Propane Education and Research Council</li> <li>- Golf Course Propane Event: June 13, Sevierville, TN</li> <li>- Tennessee Sustainable Transportation Awards &amp; Forum – Nashville, May 23-24</li> <li>- CMAQ, VW and other potential funding updates</li> <li>- Planned Statewide AFV training for Emergency Responders</li> </ul>	04/11/2017	Meeting - Stakeholder	100%	32
<b>Clarksville-Montgomery County School System Propane School Bus Fleet Launch</b> <b>Technology:</b> Propane <b>Audience:</b> Airport, Delivery, General Public, Government, Private Fleets, Transit, Utility, Waste, Other <i>On July 31, Clarksville-Montgomery County School System (CMCSS) officially launched their 15 new propane-powered school buses, which began transporting their first students over the coming school year. The launch event was held at Montgomery Central High School and showcased several of the new buses to the community. These buses mark another step in the school system's quest to drive down bus maintenance costs, increase fuel cost savings, and to model cleaner, feasible, and cost-effective student transportation options. The vehicles were funded partially through the "Reducing Diesel Emissions for a Healthier Tennessee" grant program, which Tennessee Clean Fuels manages on behalf of TDEC. For information on the Clarksville-Montgomery County fleet launch, follow this link: <a href="http://tncleanfuels.org/docs/MWT/TCF-PR_CMCSS-Propane-Buses_7-31-17.pdf">http://tncleanfuels.org/docs/MWT/TCF-PR_CMCSS-Propane-Buses_7-31-17.pdf</a>.</i> <i>Additionally, CMCSS created a media video with clips from the event, which it shared with school districts in the surrounding area. For four months, the Tennessee Clean Fuels website automatically played the video for every web visitor. The video was also shared on social media through multiple Twitter accounts/Facebook accounts and through newsletter distribution. To see the buses in action, watch the fleet launch video here: <a href="https://www.youtube.com/watch?v=yv0J2a8RC50">https://www.youtube.com/watch?v=yv0J2a8RC50</a>.</i>	07/31/2017	Media Event	100%	6,700
<b>ANG CNG Fuel Station Grand Opening</b> <b>Technology:</b> Natural gas vehicles <b>Audience:</b> Delivery, General Public, Government, Private Fleets, Utility, Waste, Other <i>On August 1, American Natural Gas held a ribbon cutting ceremony in collaboration with Tennessee Clean Fuels to unveil its new, public compressed natural gas station in Fayetteville, Tennessee. PepsiCo's Frito-Lay division, which has a locally domiciled fleet of CNG tractor-trailers, will be a major customer at the station. With round-the-clock operation, the fast-fill Fayetteville station has three consumer-friendly dispensers equipped with NGV2 nozzles to optimize the experience for heavy-duty, high-capacity users, as well as NGV1 nozzles for light and medium-duty use. Follow this link for more information on the new station: <a href="http://www.ngvglobal.com/blog/ang-opens-cng-station-mid-tennessee-0805">http://www.ngvglobal.com/blog/ang-opens-cng-station-mid-tennessee-0805</a></i>	08/01/2017	Media Event	100%	50
<b>Fayetteville MWTCF Coalition Meeting</b> <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, Private Fleets, Transit, Utility, Waste, Other <i>On August 1, Alexa and Jonathan hosted the Middle-West Tennessee Clean Fuels Coalition (MWTCF) meeting at Fayetteville Public Utilities in Fayetteville, Tennessee. During the meeting, Jonathan, Alexa, and Melissa also shared details and information on the following news, notes and events:</i> <ul style="list-style-type: none"> <li>- New CNG Stations in TN</li> <li>- DOE Tools You Can Use</li> <li>- Clean Cities federal budget</li> <li>- Photos from the AFV Showcase in Nashville and the 2017 NGV Coast-to-Coast Rally</li> <li>- Funding Updates (CMAQ, VW, Tennessee Natural Gas and Propane Vehicle Grant Program, DERA)</li> <li>- Upcoming Events (National Drive Electric Week, Sustainable Fleet Technology Conference and Expo, Memphis Coalition meeting and FedEx Express Airport Hydrogen GSE and CNG Truck Tour)</li> <li>- Fleet/Station/Vehicle Updates: Gibson County Utility District's CNG station, Clarksville-Montgomery County School System's propane buses, Knoxville's new CNG station at KUB, Metro Nashville Airport's CNG fleet, Great Smoky Mountains National Park propane fleet, City of Knoxville propane mowers, and FedEx Express and PlugPower H2 GSE.</li> </ul>	08/01/2017	Meeting - Stakeholder	100%	25

Activity Name	Dates	Activity Type	Percentage from Coalition	Persons Reached
Memphis MWTCF Coalition Meeting	11/02/2017	Meeting - Stakeholder	100%	25
<b>Technology:</b> Electric vehicles, Hybrid electric vehicles, Natural gas vehicles, Propane <b>Audience:</b> Airport, Delivery, General Public, Government, Private Fleets, Transit, Utility, Waste, Other  <i>On November 2, Alexa and Jonathan hosted the Middle-West Tennessee Clean Fuels Coalition (MWTCF) meeting at the University of Memphis in Memphis, Tennessee. During the meeting, Jonathan and Alexa shared details and information on the following news, notes, and events:</i> - Alternative Fuel Corridors in TN - Update on past and current activities toward alternative fuel corridor designations and signage - Tennessee Green Fleets Certification Program Reminders for the 2018 Class of Certified Fleets - New "Membership Map" on <a href="http://www.TNCleanFuels.org">www.TNCleanFuels.org</a> - Guest Presentations: Propane and Electric Vehicle Initiatives at the University of Memphis, Propane Vehicle Options and Liquid-Injection Systems by ICOM, Flyway Express' Propane Fleet, Hybrid Vehicles Coming to the FedEx Express Fleet, Waste Management's CNG Operations in TN, Clean Energy Fuels on RNG: What It Is and What's In Southwest TN, RNG and Anaerobic Digester Products by Johnson Energy Solutions, Memphis and Shelby County's Evaluation of Alternative Fuels, Newest CNG Station in TN (Lebanon), and Renewable Diesel in Knoxville. - Funding Updates (CMAQ, VW, Tennessee Natural Gas and Propane Vehicle Grant Program, DERA) - Upcoming Events (VW Settlement Public Information Sessions, Southeast Diesel Collaborative, Energy Independence Summit 2018, Work Truck Show, 2018 Tennessee Sustainable Transportation Awards in Knoxville)				
<b>Total:</b>				<b>6,832</b>