

# Tennessee Clean Fuels – 2018 Calendar Year Fleet Data Collection SURVEY

Please return survey to Jonathan Overly either by email to [jonathan@etcleanfuels.org](mailto:jonathan@etcleanfuels.org) or fax to 865-974-1838 by January 25, 2019.

**MAKE SURE you fill out the TOP of p. 5 – all vehicles & petroleum use!** If you need more space to provide info, use the Notes field on p. 5.

Fleet Name: \_\_\_\_\_ Contact Name: \_\_\_\_\_ Email: \_\_\_\_\_

Fleet HQ or vehicle domicile address: \_\_\_\_\_ Best phone # \_\_\_\_\_

## Alternative Fuel Vehicle & Alternative Fuel Use INVENTORY

<u>Vehicle Class</u> (examples) <i>Light Duty = &lt; 10,000 lbs GVWR</i> <i>Heavy Duty = 10,000 lbs GVWR and up</i>	<u>Number of AFVs</u> <u>by Vehicle Class</u> as of the end of 2018	<u>Make / Model of Your AFVs</u> as of the end of 2018 <i>Don't have to list all; if many, just major examples</i>	<u>Total Alt Fuel</u> used in Calendar Year 2018	
<b>BIODIESEL ONLY</b> – Please also specify the <u>blend level you used</u> during the year (e.g., B5, B20). Average if necessary.				
<b>On-road Light Duty</b> (cars, small trucks)				
<b>On-road Heavy Duty</b> (larger trucks)				
<b>Off-road Light Duty</b> (small backhoes)				
<b>Off-road Heavy Duty</b> (cranes)				
<b>Stationary equipment</b> (generators)				
<i>gallons</i>				
<b>ETHANOL ONLY</b> – E85, FlexFuel, EFF				
<b>On-road Light Duty - FFVs</b>			<i>gallons</i>	
<b>PROPANE ONLY</b>				
<b>On-road Light Duty</b>	<i>Bi-fuel</i> (police cars, trucks)			
	<i>Dedicated</i> (cars, shuttles, trucks)			
<b>On-road Heavy Duty</b>	<i>Bi-fuel</i> (450s, shuttles, delivery)			
	<i>Dedicated</i> (bobtails, trucks)			
<b>Off-road &amp; Equip. Light Duty</b> (mowers)				
<b>Off-road &amp; Equip. Heavy Duty</b>				<i>gallons</i>

<b>Vehicle Class</b> (examples) <i>Light Duty = &lt; 10,000 lbs GVWR</i> <i>Heavy Duty = 10,000 lbs GVWR and up</i>		<b>Number of AFVs by Vehicle Class as of the end of 2018</b>	<b>Make / Model of Your AFVs as of the end of 2018</b> <i>Don't have to list all; if many, just major examples</i>	<b>Total Alt Fuel used in Calendar Year 2018</b> <i>Please circle or specify your units!</i>	
<b>LIQUIFIED NATURAL GAS – LNG ONLY</b>					
<b>On-road Heavy Duty</b> (class 8)				LNG gallons / GGEs / DGEs	
<b>COMPRESSED NATURAL GAS – CNG ONLY</b>					
<b>On-road Light Duty</b>	<i>Bi-fuel</i> (Civics, F-150s)			CNG GGEs / DGEs	
	<i>Bi-fuel</i>				
	<i>Dedicated</i> (trucks)				
<b>On-road Heavy Duty</b>	<i>Bi-fuel</i> (uncommon)				
	<i>Dedicated</i> (trucks)				
	<i>Dedicated</i>				
<b>Off-road &amp; Equip. Light Duty</b>					
<b>Off-road &amp; Equip. Heavy Duty</b>					

### Idle REDUCTION

Have you installed any device or technologies that help some of your vehicles **reduce idling time**? If so, please fill out the below information.

Examples: Batteries or battery replacements, idle-reduction devices like time limiters.

Vehicles Equipment Installed On	Number of Vehicles w/ Tech.	Devices or Technology Installed	Idling reduced:		Fuel Being Saved: Gas or Diesel	Avg. gals saved / hour-vehicle
			(min./dy)	(day/yr)		

# Hybrid, Electric and Plug-in Hybrid Electric Vehicle & Fuel Use INVENTORY

Several rows are provided to give you more spaces to enter data. "Old V. MPG" refers to the fuel economy of the vehicles that the new vehicles replaced.

<u>Vehicle Class</u> (examples)  Light Duty = < 10,000 lbs GVWR Heavy Duty = 10,000 lbs GVWR and up		<u>Number of AFVs</u> <u>by Vehicle Class</u> <u>as of the end of 2018</u>	<u>Make / Model of Your AFVs</u> <u>as of the end of 2018</u>  Don't have to list all; if many, just major examples	<u>Values to get to Total Petroleum Savings</u> <u>in Calendar Year 2018</u>  Provide miles/yr & both old and new vehicle MPGs!			
<b>HYBRID VEHICLES ONLY – These do NOT plug in.</b>				<u>miles/year</u>	<u>New MPG</u>	<u>Old MPG</u>	
<b>On-road Light Duty</b>  (Ford Fusion, Escape or C-Max; Toyota Prius)							
<b>On-road Heavy Duty</b>  (bucket trucks)							
<b>PLUG-IN ELECTRIC &amp; HYBRID ELECTRIC VEHICLES ONLY– BEVs &amp; PHEVs – These ALL PLUG IN for at least part of their fuel.</b>							
For the below rows, please include the kWhs of electricity used (if known), miles driven & the MPG of new & old vehicles!				<u>kWhs</u>	<u>miles/year</u>	<u>New MPG</u>	<u>Old MPG</u>
<b>On-road Light Duty</b>	<u>PHEVs</u> (Chevy Volt, Ford C-Max Energi, Prius Plug-in)						
	<u>BEVs</u> (Nissan Leaf, Chevy Spark, Tesla)						
	<u>Low-speed EVs</u> (LSVs, NEVs)						
<b>On-road Heavy Duty</b>	<u>PHEVs</u> (bucket)						
	<u>BEVs</u> (delivery)						
<b>Off-road vehicles &amp; equipment</b> (tugs, tractors, forklifts, etc.)  Electric off-road equip. including golf carts (not street legal)							

## Fuel Economy DEVICES OR TECHNOLOGIES

*Have you installed any devices or technologies that make some of your fleet **more fuel efficient**? If so, please fleet out the below information.*

*Examples: APUs, Super Single tires, trailer tails, trailer skirts, speed limiters.*

Vehicles Devices Installed On	Devices or Technology Installed	# of vehicles	Old fuel econ.	NEW fuel econ.	Miles / year-vehicle

## Fuel Economy INVENTORY

*Have you replaced any conventional vehicles in the past year **with vehicles that are more efficient**? If so, please list the retired and the replacement vehicle(s) below.*

*This is only for more fuel-efficient vehicle replacements; if you have listed vehicles elsewhere because they use alternative fuels, please DO NOT list them here.*

RETIRED Vehicle						REPLACEMENT Vehicle					
Vehicle Year	Vehicle Make	Vehicle Model	Fuel Type Gas/Diesel	MPG	Miles/yr	Vehicle Year	Vehicle Make	Vehicle Model	Fuel Type Gas/Diesel	MPG	Miles/yr
<i>EX: 2007</i>	<i>Ford</i>	<i>F-250 4WD</i>	<i>Gas</i>	<i>11</i>	<i>13,000</i>	<i>2018</i>	<i>Ford</i>	<i>F-150</i>	<i>Gas</i>	<i>17</i>	<i>13,000</i>

## Overall -- TOTAL Fleet Numbers & Fuel Data

<u>Vehicle Class</u> <i>Light Duty = &lt; 10,000 lbs GVWR</i> <i>Heavy Duty = 10,000 lbs GVWR + up</i>	<u>Examples</u> <i>These are just examples!</i>	<u>Number of Vehicles by Type</u> <u>as of the end of 2018</u>	<u>Total GASOLINE Used</u> <u>in Calendar Year 2018</u>	<u>Total DIESEL Used in</u> <u>Calendar Year 2018</u>
<b>ALL VEHICLES</b> - <i>The below numbers should be for ALL your vehicles, INCLUDING AFVs.</i>			<i>Please SPLIT gasoline or diesel use by on- &amp; off-road, if possible.</i>	
<b>On-road Light Duty</b>	Sedans, F-250 + below trucks, smaller diesels			
<b>On-road Heavy Duty</b>	Larger trucks			
<b>Off-road Light Duty</b>	Smaller backhoes, forklifts			
<b>Off-road Heavy Duty</b>	Cranes, unique equipment			
<b>Stationary equipment</b>	Generators			
			<i>gallons</i>	<i>gallons</i>

*Abbreviations: AFV = alt. fuel vehicle; lbs = pounds; GVWR = gross vehicle weight rating; CY = calendar year; GGE = gasoline gallon equivalent; DGE = diesel gallon equivalent; NEV = neighborhood electric vehicle; BEV = battery electric vehicle (NEVs + BEVs are pure EVs that run on electricity only; no engine); PHEV = plug-in hybrid electric vehicle (PHEVs run on electricity and a gasoline or diesel engine).*

### ADDITIONAL NOTES

*– Please use the below notes field to provide any additional notes or information.*