

# 2013 Transportation Technology Deployment Report:

Houston-Galveston Clean Cities

January 2013



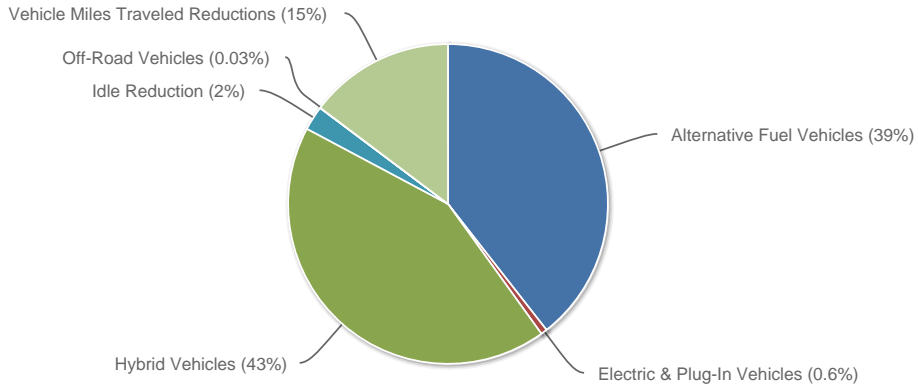
U.S. Department of Energy

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.

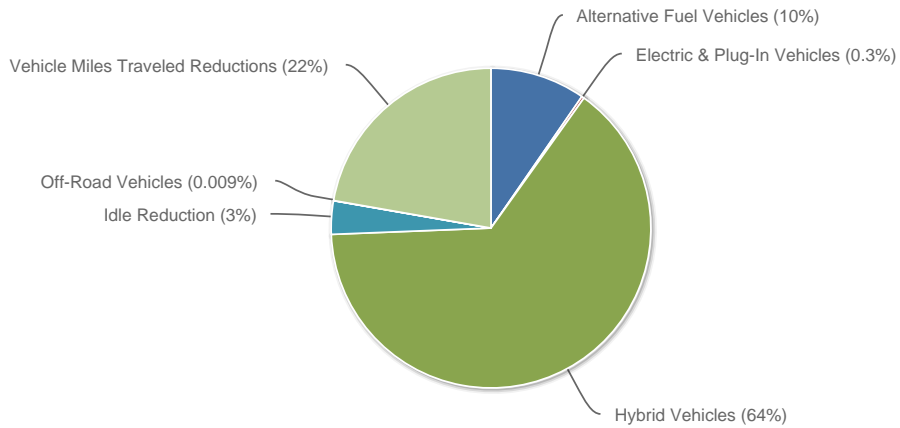
Every year, each Clean Cities coalition submits to DOE an annual report of its activities and accomplishments for the previous calendar year. Coalition coordinators, who lead the local coalitions, provide information and data via an online database managed by the National Renewable Energy Laboratory (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 Houston-Galveston Clean Cities.

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

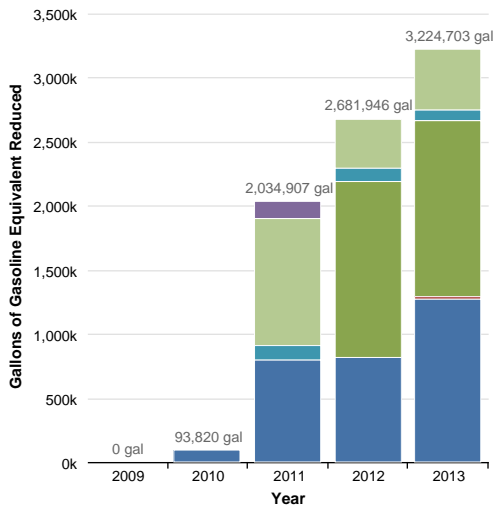
**2013 Gallons of Gasoline Equivalent Reduced**  
3,224,703 gallons



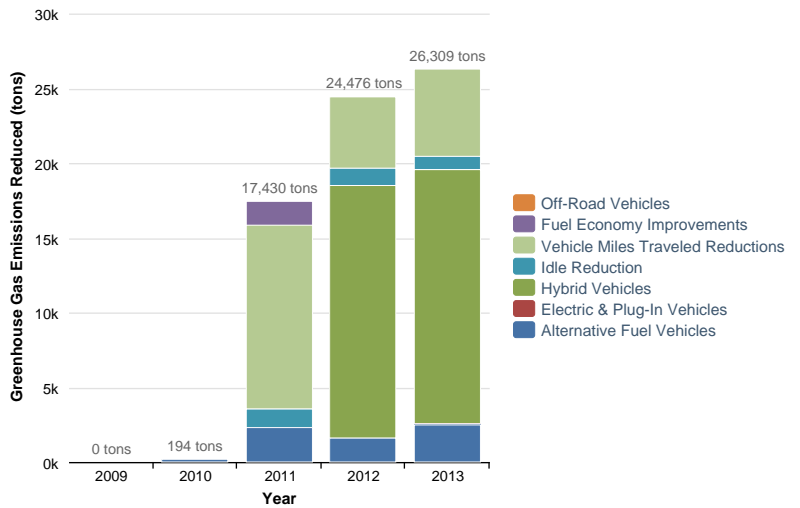
**2013 Greenhouse Gas Emissions Reduced**  
26,309 tons



**Historical Gallons of Gasoline Equivalent Reduced**



**Historical Greenhouse Gas Emissions Reduced**



- Off-Road Vehicles
- Fuel Economy Improvements
- Vehicle Miles Traveled Reductions
- Idle Reduction
- Hybrid Vehicles
- Electric & Plug-In Vehicles
- Alternative Fuel Vehicles

# COALITION

## Houston-Galveston Clean Cities - TX

<http://www.houston-cleancities.org/>

**Designated:** 09/04/1997

**Boundaries:** Counties: Brazoria, Chambers, Fort Bend, Galveston, Harris, Liberty, Montgomery, Waller; Cities of Houston and Galveston

## COORDINATORS

	<b>Address</b>	<b>Telephone</b>	<b>Fax</b>
<b>Allison Carr</b>	3555 Timmons Ln, Ste 120 Houston, TX 77027	832-681-2583	
<b>Number of coordinators</b>			1
<b>Coordinator(s) hours per week on Clean Cities</b>			20 hours
<b>Other staff hours per week on Clean Cities</b>			15 hours
<b>How long have you been the coordinator?</b>			2 years

## OPERATING INFORMATION

<b>Host organization</b>	Council of Governments (COG), Municipal Planning Organization (MPO), or Regional Planning Commission (RPC)
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### Stakeholders

<b>Number of stakeholders</b>	240
<b>Number of private stakeholders</b>	115
<b>Does the State Energy Office provide any financial support to the coalition or stakeholders?</b>	No
<b>How would you rate the quality of the data on your survey?</b>	Good
<b>How do you obtain most of your data for the survey?</b>	Coalition records, Estimates, Online questionnaire to stakeholders (SurveyMonkey, Google Forms, etc), Paper, e-mail, or spreadsheet questionnaire to stakeholders, Phone calls to stakeholders
<b>Has your coalition registered with <a href="http://www.grants.gov">www.grants.gov</a>?</b>	Yes

### 2013 Outside Funding

<b>Stakeholder dues collected</b>	\$0
<b>How much funding is obtained from other sources to cover coalition operating expenses?</b>	\$20,290
<b>Non-DOE or ARRA grant and matching funds spent in 2013</b>	\$836,301
<b>Total non-DOE or ARRA funding in 2013</b>	\$856,591

# VEHICLE & FUEL INVENTORY

## Alternative Fuel & Vehicles

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
Alvin ISD	Heavy-Duty	LPG	106	352,100 gal	260,554 gal	543.9 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  <i>Fuel use estimated and reported in TxRRC case study.</i></p>						
Angleton ISD	Heavy-Duty	LPG	9	24,173 gal	17,888 gal	37.3 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  <i>Clean Vehicles project (for 2 of 9 buses) - Fuel use estimated based on Clean Vehicle program reporting of fuel use per vehicle.</i></p>						
Barber's Hill ISD	Heavy-Duty	LPG	2	5,384 gal	3,984 gal	8.3 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  <i>Clean Vehicles project (for 1 of 2 buses) - Fuel use estimated based on Clean Vehicle program reporting of fuel use per vehicle.</i></p>						
CenterPoint Energy - CNG LD vehicles	Light-Duty	CNG	16	754 GGE	716 gal	1.3 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  <i>Survey response from Stefanye Froeschner on 2/19/2014.</i></p>						
CenterPoint Energy - E85 LD vehicles	Light-Duty	E85	376	653 gal	365 gal	0.9 tons
<p><b>Market:</b> Corporate Fleet  <b>Vehicle type:</b> Car  <b>Percentage from coalition:</b> 100%  <b>National Clean Fleets Partnership:</b> No  <i>Survey response from Stefanye Froeschner on 2/19/2014.</i></p>						
Central Freight Line	Heavy-Duty	CNG	60	100% of time	184,925 gal	347.9 tons
<p><b>Miles traveled per vehicle:</b> 13,649 mi  <b>Average vehicle fuel economy:</b> 5 MPGde  <b>Market:</b> Corporate Fleet  <b>Vehicle type:</b> Truck: Semi-trailer  <b>Percentage from coalition:</b> 100%  <b>National Clean Fleets Partnership:</b> No  <i>(Clean Vehicles project for 14 of 60 CNG trucks) - Amount of fuel used based on annual reporting documents and via survey response from Chris Rancanelli on 2/18/2014 and 2/26/14.</i></p>						
City of Lake Jackson - light duty CNG	Light-Duty	CNG	21	12,284 GGE	11,671 gal	22.0 tons
<p><b>Market:</b> Government - Local  <b>Vehicle type:</b> Car  <b>Percentage from coalition:</b> 100%  <b>National Clean Fleets Partnership:</b> No  <i>Survey response from Gaye Shockley (City of Lake Jackson) on 2/18/2014  Note: Light duty fleet includes Honda Civics and pickup trucks.</i></p>						

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
City of Lake Jackson - refuse trucks CNG	Heavy-Duty	CNG	14	61,390 GGE	58,324 gal	109.7 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 <i>Survey response from Gaye Shockley (City of Lake Jackson) on 2/18/2014</i>						
Clean Energy Baytown LNG Station	Heavy-Duty	LNG	0	86,526 gal	54,255 gal	99.3 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>Total number of vehicles reported is zero because this is a LNG fuel station and we do not have a total number of vehicles to report. Fuel use based on annual project reporting to the H-GAC Clean Vehicles program.</i>						
CleanFUEL USA	Light-Duty	LPG	8	100% of time	1,000 gal	2.1 tons
<b>Miles traveled per vehicle:</b> 2,500 mi <b>Average vehicle fuel economy:</b> 20 MPGge <b>Market:</b> Corporate Fleet <b>Vehicle type:</b> Car <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <i>Survey response from Crystelle Markley on 2/7/2014.</i> <i>Note: Reported 25,000 total miles traveled / per year / per vehicle and approximately 10% of travel is within the Houston region and reflected in VMT above.</i>						
Clear Creek ISD	Heavy-Duty	CNG	55	149,286 GGE	141,830 gal	266.8 tons
<b>Market:</b> Government - Local <b>Vehicle type:</b> Bus: School <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <i>(Clean Vehicles Project for 11 of 55 CNG buses) - Survey response from Dean Lewis on 2/19/2014.</i>						
Conroe ISD	Heavy-Duty	LPG	25	100% of time	89,901 gal	187.7 tons
<b>Miles traveled per vehicle:</b> 13,000 mi <b>Average vehicle fuel economy:</b> 4 MPGde <b>Market:</b> Government - Local <b>Vehicle type:</b> Bus: School <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <i>Survey response from Lacy Austin (Conroe ISD) on 2/11/2014</i>						
Damon ISD	Heavy-Duty	LPG	3	7,391 gal	5,469 gal	11.4 tons
<b>Market:</b> Government - Local <b>Vehicle type:</b> Bus: School <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <i>(Clean Vehicles project) - Amount of fuel used based on annual reporting documents &amp; survey response from Donald Rhodes on 2/18/2014</i>						
Dickinson ISD	Heavy-Duty	LPG	29	100% of time	34,441 gal	71.9 tons
<b>Miles traveled per vehicle:</b> 10,465 mi <b>Average vehicle fuel economy:</b> 4 MPGde <b>Market:</b> Government - Local <b>Vehicle type:</b> Bus: School <b>Percentage from coalition:</b> 40% <b>National Clean Fleets Partnership:</b> No <i>Fuel used based on annual project reporting to the Railroad Commission of Texas.</i>						

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
Friendswood ISD - propane LD vehicle	Light-Duty	LPG	1	800 gal	592 gal	1.2 tons
<p>Market: Government - Local  Vehicle type: Pickup/SUV/Van  Percentage from coalition: 100%  National Clean Fleets Partnership: No  Survey response from Mike Jones on 2/19/2014</p>						
Friendswood ISD - propane school buses	Heavy-Duty	LPG	12	50,000 gal	37,000 gal	77.2 tons
<p>Market: Government - Local  Vehicle type: Bus: School  Percentage from coalition: 100%  National Clean Fleets Partnership: No  (Clean Vehicles project - 2 of 12 propane school buses). Fuel use reported by Mike Jones via survey response on 2/19/2014.</p>						
Houston ISD	Heavy-Duty	LPG	65	100% of time	143,841 gal	300.2 tons
<p>Miles traveled per vehicle: 12,000 mi  Average vehicle fuel economy: 6 MPGde  Market: Government - Local  Vehicle type: Bus: School  Percentage from coalition: 100%  National Clean Fleets Partnership: No  Number of vehicles reported is based on Houston ISD's reporting to H-GAC Clean Vehicles program.</p>						
Houston METRO (GreenLink) - CNG transit buses	Heavy-Duty	CNG	7	40,165 GGE	22,895 gal	43.1 tons
<p>Market: Corporate Fleet  Vehicle type: Bus: Transit  Percentage from coalition: 60%  National Clean Fleets Partnership: No  Survey response from Edmund Petry and Doug Peck with Houston METRO on 3/10/2014.</p>						
Humble ISD - CNG	Heavy-Duty	CNG	3	10,153 GGE	9,646 gal	18.1 tons
<p>Market: Government - Local  Vehicle type: Bus: School  Percentage from coalition: 100%  National Clean Fleets Partnership: No  (Clean Vehicles project) - Amount of fuel used based on annual reporting documents and survey response from Edwin Garner (Humble ISD Fleet Manager) on 2/5/2014</p>						
Humble ISD - Propane	Heavy-Duty	LPG	27	103,763 gal	76,785 gal	160.3 tons
<p>Market: Government - Local  Vehicle type: Bus: School  Percentage from coalition: 100%  National Clean Fleets Partnership: No  Survey response from Edwin Garner (Humble ISD Fleet Manager) on 2/5/2014</p>						
Lodge Lumber	Heavy-Duty	CNG	1	2,095 GGE	1,990 gal	3.7 tons
<p>Market: Corporate Fleet  Vehicle type: Truck: Semi-tailer  Percentage from coalition: 100%  National Clean Fleets Partnership: No  Survey response from J.W. Lodge on 3/10/14.</p>						
Novus Wood Group	Heavy-Duty	CNG	2	11,737 GGE	11,151 gal	21.0 tons
<p>Market: Corporate Fleet  Vehicle type: Truck: Semi-tailer  Percentage from coalition: 100%  National Clean Fleets Partnership: No  (Clean Vehicles project) - Amount of fuel used based on annual reporting documents &amp; confirmed through email survey</p>						

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	Fuel Used	GGE Reduced	GHG Reduced
Santa Fe ISD	Heavy-Duty	CNG	2	34,560 GGE	32,834 gal	61.8 tons
<b>Market:</b> Government - Local <b>Vehicle type:</b> Bus: School <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <i>(Clean Vehicles project) - Amount of fuel used based on annual reporting documents</i>						
Sheldon ISD	Heavy-Duty	LPG	6	16,099 gal	11,913 gal	24.9 tons
<b>Market:</b> Government - Local <b>Vehicle type:</b> Bus: School <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <i>(Clean Vehicles project) - Amount of fuel used based on annual reporting documents</i>						
Silver Eagle Distributors	Heavy-Duty	CNG	2	2,418 GGE	2,297 gal	4.3 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> No <i>(Clean Vehicles project) - Amount of fuel used based on annual reporting documents</i>						
Splendora ISD	Heavy-Duty	LPG	5	15,500 gal	4,588 gal	9.6 tons
<b>Market:</b> Government - Local <b>Vehicle type:</b> Bus: School <b>Percentage from coalition:</b> 40% <b>National Clean Fleets Partnership:</b> No <i>Fuel used based on annual project reporting to the Railroad Commission of Texas.</i>						
Trimac Transportation	Heavy-Duty	LNG	4	17,027 gal	10,677 gal	19.5 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> No <i>(Clean Vehicles project) - Amount of fuel used based on annual reporting documents. LNG fuel use represents Trimac activity for first half of 2013. Trimac fleet changed to diesel vehicles mid-year.</i>						
TxDOT - CNG LD vehicles	Light-Duty	CNG	20	62,400 GGE	38,534 gal	72.5 tons
<b>Market:</b> Government - State <b>Vehicle type:</b> Car <b>Percentage from coalition:</b> 65% <b>National Clean Fleets Partnership:</b> No <i>Survey response from Mike Stollings (TxDOT) on 2/5/2014</i>						
TxDOT - Propane LD Vehicles	Light-Duty	LPG	1	3,120 gal	1,501 gal	3.1 tons
<b>Market:</b> Government - State <b>Vehicle type:</b> Car <b>Percentage from coalition:</b> 65% <b>National Clean Fleets Partnership:</b> No <i>Survey response from Mike Stollings (TxDOT) on 2/5/2014</i>						
<b>Total:</b>			<b>882</b>		<b>1,271,567 gal</b>	<b>2,531 tons</b>

## Electric, Hybrid & Plug-in Vehicles

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
CenterPoint Energy - hybrid LD vehicles	Light-Duty	HEV	10	4,865 gal	59.9 tons
<b>Average vehicle fuel economy:</b> 50 MPG <b>Miles traveled per vehicle per year:</b> 20,888 mi <b>Market:</b> Corporate Fleet <b>Vehicle type:</b> Car <b>Percentage from coalition:</b> 100% <b>National Clean Fleets Partnership:</b> No <i>Survey response from Stefanye Froeschner on 2/19/2014.</i>					



Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
<b>City of Houston - all-electric LD vehicles</b> Average electric fuel economy: - kWh/100mi Miles traveled per vehicle per year: 10,614 mi Market: Government - Local Vehicle type: Car Percentage from coalition: 75% National Clean Fleets Partnership: No <i>Survey response from Jedediah Greenfield on 3/11/2014 - City of Houston operates 27 Nissan Leaf vehicles and 15 plug-in Prius vehicles.</i>	Light-Duty	Electric	42	20,263 gal	65.8 tons
<b>City of Houston - hybrid LD vehicles</b> Average vehicle fuel economy: 50 MPG Miles traveled per vehicle per year: 11,250 mi Market: Government - Local Vehicle type: Car Percentage from coalition: 75% National Clean Fleets Partnership: No <i>(Clean Vehicles project for 7 of 511 vehicles) Survey response from Jedediah Greenfield on 3/11/2014 - City of Houston operates 511 Toyota Prius vehicles.</i>	Light-Duty	HEV	511	101,228 gal	1,246.9 tons
<b>Houston METRO - hybrid transit buses</b> Average electric fuel economy: - kWh/100mi Average vehicle fuel economy: 4 MPG Miles traveled per vehicle per year: 45,603 mi Market: Government - Local Vehicle type: Bus: Transit Percentage from coalition: 60% National Clean Fleets Partnership: No <i>Survey response from Edmund Petry and Doug Peck with Houston METRO on 3/10/2014.</i>	Heavy-Duty	HEV	438	1,262,899 gal	15,556.1 tons
<b>Houston METRO - light duty hybrids</b> Average vehicle fuel economy: 50 MPG Miles traveled per vehicle per year: 9,190 mi Market: Corporate Fleet Vehicle type: Car Percentage from coalition: 60% National Clean Fleets Partnership: No <i>Survey response from Edmund Petry and Doug Peck with Houston METRO on 3/10/2014.</i>	Light-Duty	HEV	28	3,596 gal	44.3 tons
<b>Spring ISD - hybrid school bus</b> Average vehicle fuel economy: 8 MPG Miles traveled per vehicle per year: 12,981 mi Market: Government - Local Vehicle type: Bus: School Percentage from coalition: 100% National Clean Fleets Partnership: No <i>(Clean Vehicles project) - VMT submitted on annual reporting documents. Survey response from Brian Weisinger and Darlene Wright on 2/6/2014.</i>	Heavy-Duty	PHEV	1	598 gal	3.4 tons

Fleet/Station Name	Vehicle Class	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
TxDOT - hybrid LD vehicles	Light-Duty	HEV	21	4,769 gal	58.7 tons
Average vehicle fuel economy: 50 MPG Miles traveled per vehicle per year: 15,000 mi Market: Government - State Vehicle type: Car Percentage from coalition: 65% National Clean Fleets Partnership: No <i>Survey response from Mike Stollings (TxDOT) on 2/5/2014</i>					
<b>Total:</b>			<b>1,051</b>	<b>1,398,218 gal</b>	<b>17,035 tons</b>

## Off-Road Vehicles

Fleet Name	Application	Method	Fuel	Number of Vehicles	GGE Reduced	GHG Reduced
City of Houston - CNG street sweeper	Street sweeper	Alternative fuel or vehicles	CNG	2	278 gal	0.5 tons
Fuel used: 390 GGE Percentage from coalition: 75% National Clean Fleets Partnership: No <i>Survey response from Jedediah Greenfield on 3/11/2014.</i>						
City of Houston - propane forklifts	Forklifts	Alternative fuel or vehicles	LPG	13	674 gal	1.4 tons
Fuel used: 1,215 gal Percentage from coalition: 75% National Clean Fleets Partnership: Yes <i>Survey response from Jedediah Greenfield on 3/11/2014.</i>						
City of Lake Jackson - fork lifts	Forklifts	Alternative fuel or vehicles	CNG	1	176 gal	0.3 tons
Fuel used: 185 GGE Percentage from coalition: 100% National Clean Fleets Partnership: No <i>Survey response from Gaye Shockley (City of Lake Jackson) on 2/18/2014</i>						
<b>Total:</b>				<b>16</b>	<b>1,128 gal</b>	<b>2 tons</b>

## FUEL ECONOMY

### Vehicle Miles Traveled Reductions

Fleet Name	Method	Vehicle Class	GGE Reduced	GHG Reduced
Metro Star Regional Vanpool	Carpooling	Light-Duty	303,767 gal	3,741.7 tons
Fuel: Gasoline Fuel economy: 20 MPG Number of vehicles: 7,065 VMT reduction per vehicle: 8,599 mi Percentage from coalition: 10% National Clean Fleets Partnership: No <i>Total of 85,557 vanpool riders with a total VMT reduction of 60,753,527</i>				
NuRide RideShare Program	Carpooling	Light-Duty	122,671 gal	1,511.0 tons
Fuel saved: 1,226,714 gallons Percentage from coalition: 10% National Clean Fleets Partnership: No <i>Information reported via NuRide dashboard - January 2014</i>				

Fleet Name	Method	Vehicle Class	GGE Reduced	GHG Reduced
Telework	Telecommute	Light-Duty	48,625 gal	598.9 tons
Fuel saved: 486,248 gallons Percentage from coalition: 10% National Clean Fleets Partnership: Yes <i>Information reported via NuRide dashboard - January 2014 (298,248 gallons of gas saved). Additionally, MD Anderson teleworking program not reported in NuRide (fuel savings estimated at 188,000 gallons).</i>				
<b>Total:</b>			<b>475,063 gal</b>	<b>5,852 tons</b>

## IDLE REDUCTION

### Truck Stop Electrification

Project Name	Number of Bays	Usage per Bay	GGE Reduced	GHG Reduced
IdleAir - Conoco - Baytown	54	261 hrs/year	7,797 gal	83.3 tons
Percentage from coalition: 50% National Clean Fleets Partnership: No <i>Reported by Cynthia Perthuis at Idleair. Conoco Travel Center in Baytown has 54 Convoy spaces that operated for a total of 14,074 hours in 2013.</i>				
IdleAir - Loves - Baytown	45	1,737 hrs/year	43,244 gal	462.2 tons
Percentage from coalition: 50% National Clean Fleets Partnership: No <i>Reported by Cynthia Perthuis at Idleair. Conoco Travel Center in Baytown has 45 Convoy spaces that operated for a total of 71,151 hours in 2013.</i>				
<b>Total:</b>		<b>99</b>	<b>51,041 gal</b>	<b>546 tons</b>

### Other Idle Reduction

Project Name	Number of Vehicles	Idling Reduced per Vehicle	Fuel Saved per Vehicle	GGE Reduced	GHG Reduced
Clear Creek ISD - IR policy	283	10 mins/day 180 days/year	0 gal/hr	4,245 gal	52.6 tons
Type of project: Policies Type of vehicle: School Bus Percentage from coalition: 100% National Clean Fleets Partnership: No <i>Reported by Dean Lewis in email 2/24/2014.</i>					
Columbia Brazoria ISD - IR policy	26	5 mins/day 180 days/year	0 gal/hr	195 gal	2.4 tons
Type of project: Policies Type of vehicle: School Bus Percentage from coalition: 100% National Clean Fleets Partnership: No					
Conroe ISD - IR policy	439	10 mins/day 180 days/year	0 gal/hr	6,585 gal	81.7 tons
Type of project: Policies Type of vehicle: School Bus Percentage from coalition: 100% National Clean Fleets Partnership: No					
Crosby ISD - IR policy	71	5 mins/day 180 days/year	0 gal/hr	532 gal	6.6 tons
Type of project: Policies Type of vehicle: School Bus Percentage from coalition: 100% National Clean Fleets Partnership: No					
Friendswood ISD - IR policy	80	8 mins/day 180 days/year	0 gal/hr	960 gal	11.9 tons
Type of project: Policies Type of vehicle: School Bus Percentage from coalition: 100% National Clean Fleets Partnership: No					

Project Name	Number of Vehicles	Idling Reduced per Vehicle	Fuel Saved per Vehicle	GGE Reduced	GHG Reduced
Galena Park ISD - IR policy	90	10 mins/day 180 days/year	0 gal/hr	1,350 gal	16.7 tons
Type of project: Policies Type of vehicle: School Bus Percentage from coalition: 100% National Clean Fleets Partnership: No					
Galveston ISD - IR policy	105	5 mins/day 180 days/year	0 gal/hr	788 gal	9.8 tons
Type of project: Policies Type of vehicle: School Bus Percentage from coalition: 100% National Clean Fleets Partnership: No <i>Response from Dave Tisdale on 2/5/2014</i>					
Humble ISD - IR policy	277	10 mins/day 180 days/year	0 gal/hr	4,155 gal	51.5 tons
Type of project: Policies Type of vehicle: School Bus Percentage from coalition: 100% National Clean Fleets Partnership: No <i>Survey response from Edwin Garner (Humble ISD Fleet Manager) on 2/5/2014</i>					
Klein ISD - IR policy	200	10 mins/day 180 days/year	0 gal/hr	3,000 gal	37.2 tons
Type of project: Policies Type of vehicle: School Bus Percentage from coalition: 100% National Clean Fleets Partnership: No					
Pearland ISD - IR policy	185	5 mins/day 180 days/year	0 gal/hr	1,388 gal	17.2 tons
Type of project: Policies Type of vehicle: School Bus Percentage from coalition: 100% National Clean Fleets Partnership: No <i>Response from Harold Stence on 2/7/2014</i>					
Spring ISD - IR policy	289	5 mins/day 180 days/year	0 gal/hr	2,168 gal	26.9 tons
Type of project: Policies Type of vehicle: School Bus Percentage from coalition: 100% National Clean Fleets Partnership: No <i>Survey response from Brian Weisinger and Darlene Wright on 2/6/2014</i>					
Tomball ISD - IR policy	91	5 mins/day 180 days/year	0 gal/hr	682 gal	8.5 tons
Type of project: Policies Type of vehicle: School Bus Percentage from coalition: 100% National Clean Fleets Partnership: No					
Waller ISD - IR policy	91	12 mins/day 180 days/year	0 gal/hr	1,638 gal	20.3 tons
Type of project: Policies Type of vehicle: School Bus Percentage from coalition: 100% National Clean Fleets Partnership: No <i>Response from Steve Underhill on 2/6/2014</i>					
<b>Total:</b>	<b>2,227</b>			<b>27,686 gal</b>	<b>343 tons</b>

# FUEL STATIONS

## New Stations

Fuel	Public Stations	Private Stations
Biodiesel	0	0
CNG - Compressed Natural Gas	3	3
E85 - 85% Ethanol	0	0
Electric Chargers	69	0
Hydrogen	0	0
LNG - Liquefied Natural Gas	0	1
LPG - Liquefied Petroleum Gas	0	1
<b>Total:</b>	<b>72</b>	<b>5</b>

## OUTREACH ACTIVITIES

Activity Name	Dates	Activity Type	Percentage from Coalition	Persons Reached
Houston-Galveston Clean Cities Stakeholder Meeting	01/23/2013, 09/25/2013	Meeting - Stakeholder	100%	40
<b>Technology:</b> Alternative fuel vehicles, Fuel economy improvements, Idle reduction, Vehicle miles traveled reduction <b>Audience:</b> Airport, Delivery, General Public, Government, Private Fleets, Transit, Utility, Waste, Other <b>Clean Cities 20th Anniversary Event:</b> No				
Natural Gas Vehicle Alliance Meeting	02/14/2013, 08/08/2013, 10/09/2013, 12/04/2013	Meeting - Other	20%	80
<b>Technology:</b> Alternative fuel vehicles, Fuel blends <b>Audience:</b> Airport, Delivery, General Public, Government, Transit, Utility, Other <b>Clean Cities 20th Anniversary Event:</b> No <i>Participation in Houston NGV Alliance Meeting</i>				
Breathe Easy - Incentives for Natural Gas Fleets	03/27/2013	Meeting - Other	25%	125
<b>Technology:</b> Alternative fuel vehicles <b>Audience:</b> Delivery, Government, Private Fleets, Transit, Utility, Waste, Other <b>Clean Cities 20th Anniversary Event:</b> No <i>Workshop hosted by the Railroad Commission of Texas with support from the Houston-Galveston Clean Cities Coalition and CenterPoint energy.</i>				
Fuel & Fleet Efficiencies Workshop	06/04/2013	Meeting - Other	15%	60
<b>Technology:</b> Alternative fuel vehicles <b>Audience:</b> Government, Utility <b>Clean Cities 20th Anniversary Event:</b> No <i>Houston-Galveston Clean Cities Coalition spoke at the workshop which was sponsored by Ryder System Inc.</i>				
Clean Fleet Technologies Conference 2013	06/05/2013	Workshop held by coalition	100%	195
<b>Technology:</b> Alternative fuel vehicles, Fuel blends, Fuel economy improvements, Hybrid electric vehicles, Idle reduction, Vehicle miles traveled reduction <b>Audience:</b> Airport, Delivery, General Public, Government, Private Fleets, Transit, Utility, Waste, Other <b>Clean Cities 20th Anniversary Event:</b> No <i>Event covered on-road and off-road, private, and public fleets and infrastructure issues. Ride &amp; Drive and vehicle display. All-day event with 15 speakers; keynote speaker was Dan Frakes from General Motors.</i>				
CNG Truck Demo	09/20/2013	Meeting - Other	15%	65
<b>Technology:</b> Alternative fuel vehicles <b>Audience:</b> Delivery, Government, Private Fleets, Utility, Waste <b>Clean Cities 20th Anniversary Event:</b> No <i>Houston-Galveston Clean Cities participated in event which provided demo of Class 8 CNG truck and CNG fueling location. The event was organized by Kenworth and Freedom CNG.</i>				

Activity Name	Dates	Activity Type	Percentage from Coalition	Persons Reached
Natural Gas Vehicle Seminar	10/31/2013	Conference participation	10%	150
<b>Technology:</b> Alternative fuel vehicles <b>Audience:</b> Delivery, Government, Private Fleets, Utility, Waste, Other <b>Clean Cities 20th Anniversary Event:</b> No <i>Hosuton-Galveston Clean Cities Coalition provided outreach and support for the event. The Houston-Galveston Area Council (H-GAC) Executive Director, Jack Steele, participated on a panel with local and state elected officials.</i>				
Small-Mid Scale LNG Summit	11/19/2013	Conference participation	10%	55
<b>Technology:</b> Alternative fuel vehicles <b>Audience:</b> Private Fleets, Utility, Waste, Other <b>Clean Cities 20th Anniversary Event:</b> No <i>Houston-Galveston Clean Cities Coalition attended and presented at the conference sponsored by Oil and Gas IQ.</i>				
<b>Total:</b>				<b>770</b>

## GRANTS

Grantor	Total Grant Amount	Total Matching Funds	Total Project Funding	Grant Amount Spent in 2013	Matching Funds Spent in 2013	Total Project Funding Spent in 2013
Texas Commission on Environmental Quality (TCEQ) TERP - CTT	\$250,000	-	\$250,000	\$125,000	\$0	\$125,000
<b>Length of grant:</b> 2 <b>Year grant began:</b> 2013 <b>Sources of the grant:</b> State Government <b>Partners:</b> United Parcel Service, Inc <b>Technologies:</b> LNG - Liquefied Natural Gas <b>Purpose:</b> Fund construction of publically available LNG fueling station <i>The purpose of the TCEQ TERP Clean Transportation Triangle (CTT) program is to provide grants for the creation of natural gas fueling stations in the 63-eligible counties in the Texas Triangle region.</i>						
Texas Commission on Environmental Quality (TCEQ) - AFFP	\$500,000	-	\$500,000	\$0	\$0	\$0
<b>Length of grant:</b> 2 <b>Year grant began:</b> 2012 <b>Sources of the grant:</b> None of the above <b>Partners:</b> Vision Industries <b>Technologies:</b> H2 - Hydrogen <b>Purpose:</b> Grant for the construction of facilities to store, compress, or dispense alternative fuels <i>The TCEQ Alternative Fueling Facilities Program (AFFP) Grant will fund a portion of a permanent hydrogen fueling station near the Port of Houston.</i>						
Texas Commission on Environmental Quality (TCEQ) TERP - AFFP	\$861,602	-	\$861,602	\$430,801	\$0	\$430,801
<b>Length of grant:</b> 2 <b>Year grant began:</b> 2013 <b>Sources of the grant:</b> State Government <b>Partners:</b> CNG 4 America <b>Technologies:</b> CNG - Compressed Natural Gas <b>Purpose:</b> Construction of two CNG refueling stations <i>The purpose of the TCEQ TERP Alternative Fueling Facilities Program (AFFP) is to provide grants for the construction, reconstruction, or acquisition of facilities to store, compress or dispense alternative fuel within the 18 Texas nonattainment counties and El Paso county.</i>						

Grantor	Total Grant Amount	Total Matching Funds	Total Project Funding	Grant Amount Spent in 2013	Matching Funds Spent in 2013	Total Project Funding Spent in 2013
US DOE - Recipe for Fueling Diversity of Alternative Fuels Length of grant: 2 Year grant began: 2013 Sources of the grant: None of the above Partners: Houston Community College, San Jacinto Community College Technologies: Other Purpose: Alternative fuel education, outreach, and targeting obstacles to alternative fuel vehicle adoption and use <i>The project will support activities related to regional alternative fuel policy activities, barrier reduction activities through development of GIS mapping tool, and training activities through development of regional alternative fuel training programs at local community colleges.</i>	\$500,000	\$61,000	\$561,000	\$250,000	\$30,500	\$280,500
US DOE - Zero Emission Cargo Transport - Electric Delivery Trucks Length of grant: 3 Year grant began: 2012 Sources of the grant: Department of Energy Partners: Center for Transportation and Environment (CTE), Smith Electric Vehiclces Technologies: Electricity, Vehicle-Miles Traveled Reductions Purpose: Demonstration of 30 second generation all-electric heavy-duty vehicles built by Smith Electric Vehicles. <i>Grant was awarded in September 2012 and will be completed by September 2015. Purchase of vehicles is expected in mid-2013 with demonstration and deployment beginning at the end of 2013. Vehicles will be deployed by national partners (of Smith and Clean Cities) which may include UPs, Frito-Lay, Coca-Cola, and Federal Express.</i>	\$2,430,177	\$2,760,000	\$5,190,177	\$0	\$0	\$0
US DOE - Zero Emission Cargo Transport - Hydrogen Electric Hybrid Length of grant: 3 Year grant began: 2012 Sources of the grant: Department of Energy Partners: Air Products and Chemicals, Environmental Defense Fund (EDF), Total Transportation Services, Inc (TTSI), Vision Industries Technologies: Electricity, H2 - Hydrogen Purpose: Demonstration of 20 class 8 hydrogen fuel-cell electric hybrid trucks <i>Grant was awarded in September 2012 and will be completed by November 2015. Truck build and assembly is of expected to begin in Spring 2012 with demonstration and deployment beginning at the end of 2013. Vehicles will be deployed by TTSI and serve the Port of Houston.</i>	\$3,400,823	\$4,253,556	\$7,654,379	\$0	\$0	\$0
<b>Total:</b>	<b>\$7,942,602</b>	<b>\$7,074,556</b>	<b>\$15,017,158</b>	<b>\$805,801</b>	<b>\$30,500</b>	<b>\$836,301</b>