3/17/2016

DRAFT

Tennessee

State Profile and Data Sheet

NGVAMERICA
Natural Gas Vehicles for America

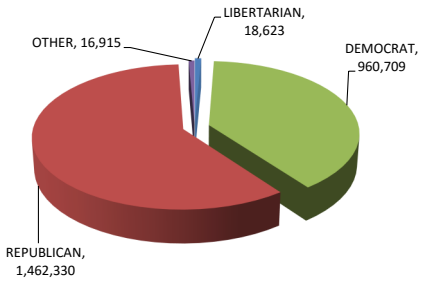
Tennessee Demographic Information:	
Total Population:	6.54 Million
Growth Rate (since 2001):	14%
Largest Populated Counties:	
Shelby	938,803
Davidson	668,347
Knox	448,644
Hamilton	351,220
Square Miles:	42,181
College Degree (Bachelors or higher):	24.4%
Economic Indicators:	
Total Civilian Labor Force:	3,092,700
Current Unemployment:	5.4%
State GDP (nominal):	$269.602 billion (2013)
Latest GDP Growth Estimate:	0.77%
% of U.S. GDP:	1.74%
GDP Per Capita:	$41,503
Income Per Capita:	$24,922

EPA Non-Attainment Counties:
Anderson, Blount, Hamilton, Knox, Loudon, Roane, Shelby, Sullivan

Tennessee CMAQ Funding:
$36,898,500

Tennessee Political Landscape:

Tennessee 2012 General Election Results
https://en.wikipedia.org/wiki/United_States_presidential_election_in_Tennessee,_2012



State Governor:	Bill Haslam (R)
Majority Leader—Senate:	Mark Norris (R)
Majority Leader—House:	Gerald McCormick (D)
Senate President:	Ron Ramsey (R)
House Speaker:	Beth Harwell (R)

U.S. Senators:	
Lamar Alexander (R)	Bob Corker (R)
U.S. Representatives by District:	
David Roe (R) - 1st	John Duncan Jr. (R) - 2nd
Charles Fleischmann (R) - 3rd	Scott DesJarlais (R) - 4th
Jim Cooper (D) - 5th	Diane Black (R) - 6th
Marsha Blackburn (R) - 7th	Stephen Fincher (R) - 8th
Steve Cohen (D) - 9th	

Committees of Note:

Energy, Agriculture and Natural Resources:
Steve Southerland (R) S

Agriculture and Natural Resources:
Curtis Halford (R) H

Transportation:
Jimmy Matlock (R) H
Jim Tracy (R) S

Finance, Ways and Means:
Charles Sargent (R) H
Randy McNally (R) S

Tennessee DoT:
Commissioner— John Schroer

Tennessee State Legislative Landscape:

- Dickson, Tennessee, is the first non-natural gas utility in Tennessee to introduce Compressed Natural Gas (CNG) vehicles into their fleet. MidSouth CNGV proud to be part of this exciting development… The Water Authority of Dickson County, located in Dickson, Tennessee, is the first non-natural gas utility in Tennessee to introduce Compressed Natural Gas (CNG) vehicles Tennessee's attorney general declined the opportunity in January, 2016 to join a lawsuit challenging the Clean Power Plan.
- Google confirms it will build a new data center in Tennessee, running on 100 percent renewable energy through a deal with the Tennessee Valley Authority.
- PHG Energy, headquartered in Nashville, Tennessee, has installed 13 of its patented downdraft gasification units since 2010, and currently the company has two additional municipal waste-to-energy (WTE) projects in the design/ build phase. Ground was broken for the plant in November, and it is expected to be completed in mid-2016, at a total cost of $3.75 million. The centerpiece of the upcoming installations will be PHGE's downdraft gasifier, which uses gravity, high temperature and air flow to process biomass to produce synthesis gas.
- Tennessee regulators have agreed to a change-of-control for Piedmont Natural Gas' Nashville franchise if the company's proposed $4.9 billion sale to Duke Energy goes through.

State Legislators with a Stake: (Have introduced AFV bills)

Sabi Kumar [R] H	John Stevens [R] S
Kevin Brooks [R] H	Mark Green [R] S
Judd Matheny [R] H	Bo Watson [R] S
	Bill Ketron [R] S

1 AFV Bills Proposed in 2015 (1 Passed)

SB-1172—Method of sale in GGE and DGE units using 5.66 lb. for CNG GGE, 6.38 lb. for CNG DGE, and 6.06 DGE for LNG; recognizes LCNG issue by providing different numbers for CNG pumped from LNG source.

3 AFV Bills Proposed in 2014 (3 Passed)

HB-1516—Established the DGE of 6.06 lbs. as the unit of tax for LNG. CNG already taxed based on 5.66 lbs. GGE in TN.

HB-1743—Amended state fleet provisions intended to encourage greater use of alternative fuel and natural gas vehicles to include propane vehicles in provisions that specifically singled out natural gas vehicles for preference.

SB-1759—Companion to HB 1743. Amended state fleet provisions intended to encourage greater use of alternative fuel and natural gas vehicles to include propane vehicles in provisions that specifically singled out natural gas vehicles for preference.

Department of Environment and Conservation:

Office of Energy Programs
Molly R. Cripps, Director
Ben Bolton, Energy Programs Administrator

Sustainable Transportation Awards & Forum—May 12-13, 2016

Tennessee Transportation Profile:

2011 Tennessee Public Road Length (95,536 miles):			
Interstate Highways:	1,104	Collectors:	17,994
Arterials:	9,305	Local:	67,132

Fueling Stations:	Tennessee	Total U.S.
Gasoline:	3,304	156,065 (2.16%)
CNG/LNG: (Public stations in Blue) ■	19/1	1,672 (3.35%)
Diesel:	1,415	

Tennessee Freight Statistics (Trucking—2012):

Value ($M)	Within State		From Other		To Other	
Domestic:	$106,606	94.71%	$281,605	80.69%	$142,905	74.82%
Import:	$15,687	97.45%	$4	7.34%	$22,948	43.99%
Export:	$18,864	99.86%	$15,287	57.98%	$0	.02%
Weight (kt)	**Within State**		**From Other**		**To Other**	
Domestic:	244,838	96.98%	114,285	83.73%	67,770	49.48%
Import:	133	85.15%	0	23.14%	4,838	35.75%
Export:	152	99.89%	5,131	43.14%	0	.12%

Tennessee Vehicles and Markets:

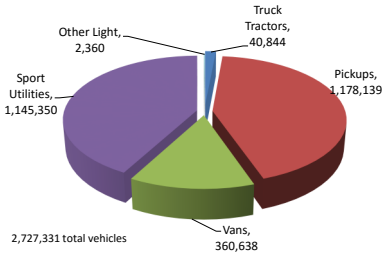
Offers Incentives for NGVs / Stations:	Energy Equivalency Excise Tax:	DGE and GGE Definitions:	Weight Limit Exemptions for NGVs:
Yes (Infrastructure)	*Yes*	*Yes*	*No*

AFV Incentives: Property Tax Reduction

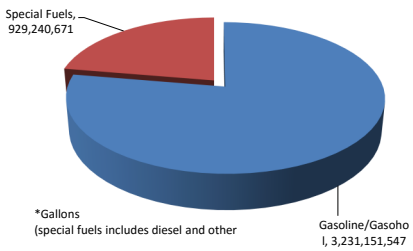
AFV Use in Government: Acquisition Requirements, Utility District Natural Gas Stations

Market Potential:

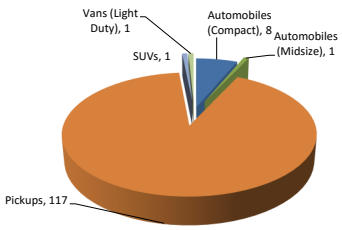
Tennessee Truck Registrations 2013



Tennessee Motor Fuel Use* - 2014



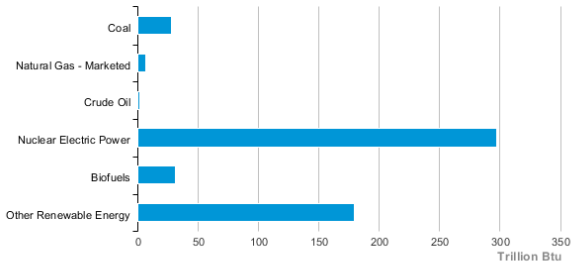
Fleet-Based Natural Gas Vehicles in Tennessee



- 606,000 Class 3-8 Truck Sales in the United States in 2013—Tennessee registered 40,844 truck tractors in 2013
- 2013 Natural Gas Vehicles in Tennessee—128
- 2011 Natural Gas Consumption—Vehicle Fuel—54 (Thousand GEG)

Tennessee Energy Production:

Tennessee Energy Production Estimates, 2013



eia Source: Energy Information Administration, State Energy Data System

Tennessee's Energy Production Facts:

- The newest nuclear reactor in the United States, the single unit at the Watts Bar 1 nuclear power plant, began operating in 1996. Watts Bar 2 is scheduled to be the next U.S. reactor to come online in late 2015.
- In 2013, Tennessee ranked among the lowest 10 producing states in both crude oil and marketed natural gas production, while coal production ranked fourth from the bottom among the 25 coal-producing states. Exploration for additional oil and natural gas resources is occurring in the Chattanooga shale in the eastern part of the state.
- At 9.6 million megawatthours in 2014, Tennessee's net electricity generation from hydroelectric power was the third-highest of states east of the Mississippi River.
- The Southeast's first major wind farm, located on Tennessee's Buffalo Mountain near Oliver Springs, began operating as a 2 megawatt facility in 2000. The wind farm's generating capacity has been expanded to 29 megawatts.
- The largest single solar installation at a U.S. automotive manufacturing facility, and the largest solar installation in Tennessee at 9.5 megawatts, began operations in Chattanooga, Tennessee in 2013.
- Average site electricity consumption for Tennessee households is 33% higher than the national average and is among the highest in the nation. Spending for electricity is closer to the U.S. average because of relatively low electricity prices, according to EIA's Residential Energy Consumption Survey.