Virginia Alternate Fuels Report

January 10

2011

A report of Virginia Clean Cities, reflective of Virginia production, fleet vehicles, and stations. Based on December 2010 survey data.

Fuels, Vehicles, and Stations

Virginia Department of Mines Minerals and Energy

Virginia Clean Cities

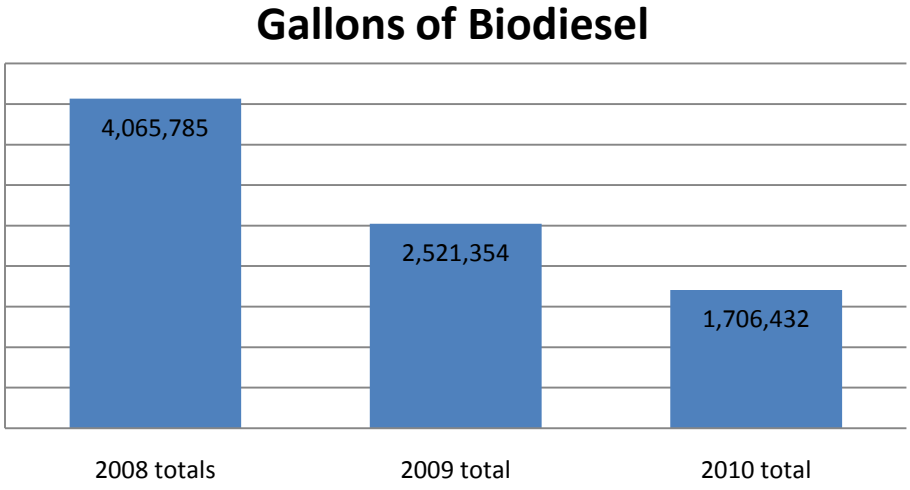
Virginia Alternate Transportation Fuels Production Report

January 10, 2011

For the year ending December 31, 2010, 1,706,432 gallons of alternative fuels were produced and reported by 3 active biofuel production companies in Virginia. Four biodiesel facilities reported no production for 2010, likely due to the economic conditions and yearlong lapse of a federal biodiesel tax credit. Virginia biodiesel facilities often have alternative business operations, such as soil remediation, or chemical productions, and were able to rely on those activities as the biodiesel blender credit lapsed for the calendar year.

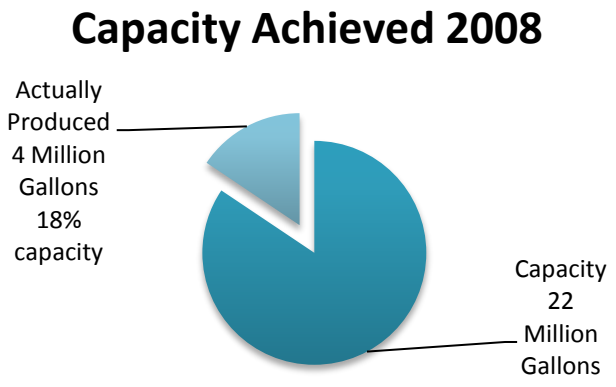
For this reporting year, all of these fuels were biodiesel. The reported feedstock for these fuels was soybean oil, waste food oils, and canola oil. Virginia's ethanol facilities reported no transportation fuel production for 2010.

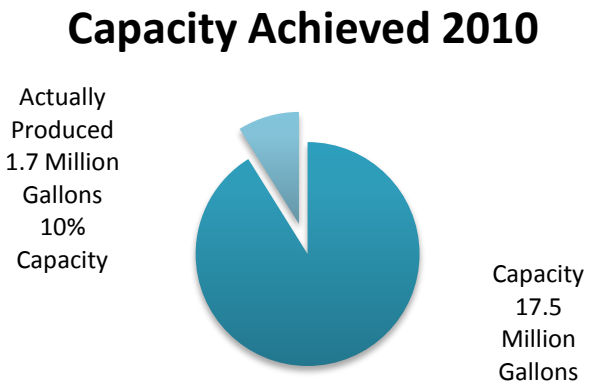
The production for the year represents a 32% decline of approximately 815,000 gallons of fuel from the 2009 year, where 2,521,354 gallons of alternative fuels (all biodiesel) were produced.



Production capacity reported by Virginia producers was 17.5 million gallons of biodiesel fuels. For this reporting, all fuel was biodiesel. This represents a production rate of 10% of capacity.

With 90% of the existing Commonwealth biodiesel production capacity unused, biofuels represent an economic opportunity to reuse Virginia materials for local economic and statewide economic gain.

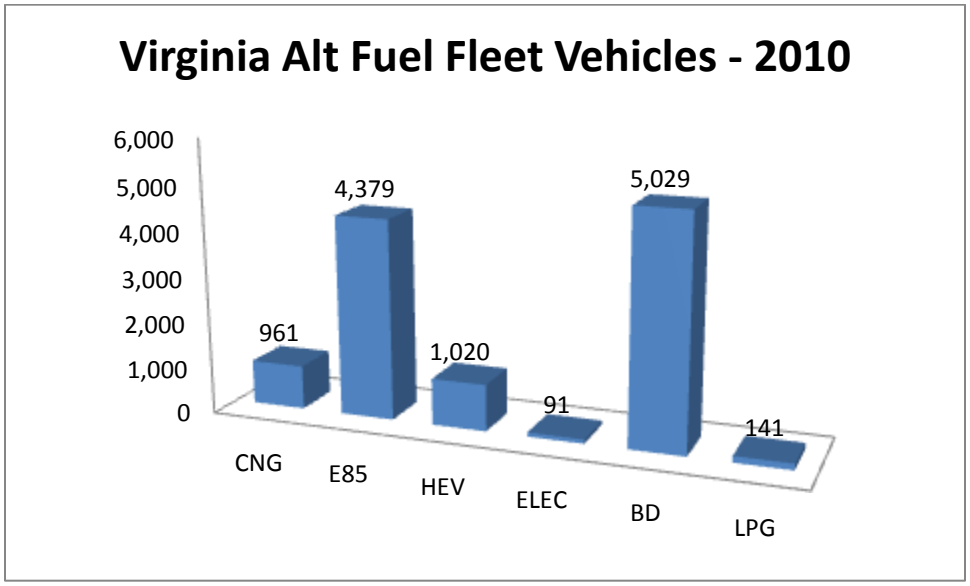




Several additional vegetable or waste oil to biodiesel facilities are able to come online with 7 million additional gallons of capacity. Two biodiesel companies are based in Virginia, yet have production facilities outside the Commonwealth -- in Maryland and North Carolina. In 2011, a 65 million gallon per year ethanol plant will begin production in Hopewell, Virginia.

Alternate Fuel Vehicles Fleet Summary

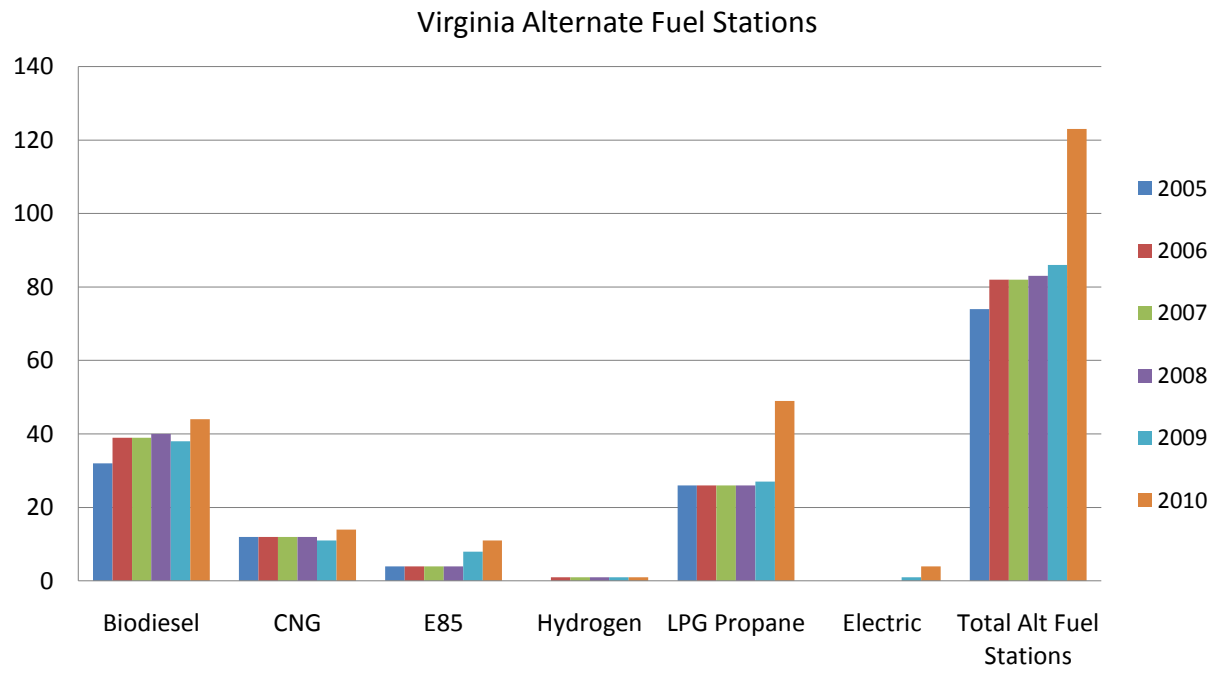
Enhanced production of biodiesel and ethanol in Virginia is helpful for the volume of biofuel fleet vehicles. Biodiesel and flex fuel E85 vehicles represent the largest number of tracked alternative fuel fleet vehicles. These vehicles are in service with private business as well as state and federal government agency fleets.



Alternate Fuel Station Summary

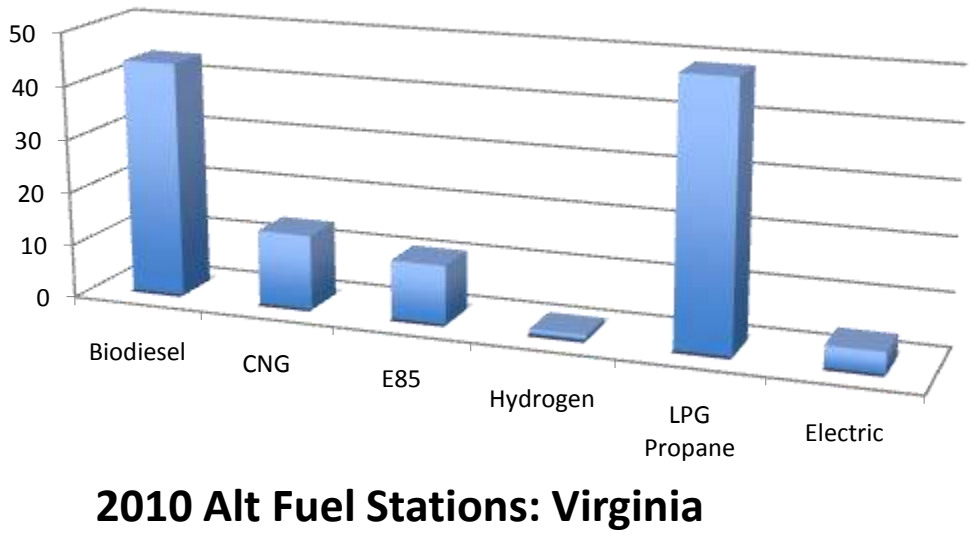
In the end of year inventory for 2010, there are a total of 123 alternate fuel stations throughout the Commonwealth. Including a recent boost in the number of new LPG, E85, and electric vehicle charging stations, Virginia gained 37 new stations in the last calendar year.

	Biodiesel	CNG	E85	Hydrogen	LPG Propane	Electric	Total Alt Fuel Stations
2005	32	12	4	0	26		74
2006	39	12	4	1	26		82
2007	39	12	4	1	26		82
2008	40	12	4	1	26		83
2009	38	11	8	1	27	1	86
2010	44	14	11	1	49	4	123



The Department of Energy hosts an interactive public map service for alternate fuels stations online at: http://www.afdc.energy.gov/afdc/locator/stations/

A listing of Virginia, DC, and Maryland E85 stations can be found online at: http://www.hrccc.org/e85stationlocator.pdf

Including public and private access facilities, there are 44 biodiesel stations, and 11 total E85 stations.

Graph of alternate fuel stations in Virginia – As of December 2010