



Virginia Alternate Fuels Report

March 22

2012

A report of Virginia Clean Cities, reflective of Virginia production, fleet vehicles, and stations. Based on end of year 2011 survey data.

Fuels,
Vehicles, and
Stations

Virginia Alternate Transportation Fuels Production Report

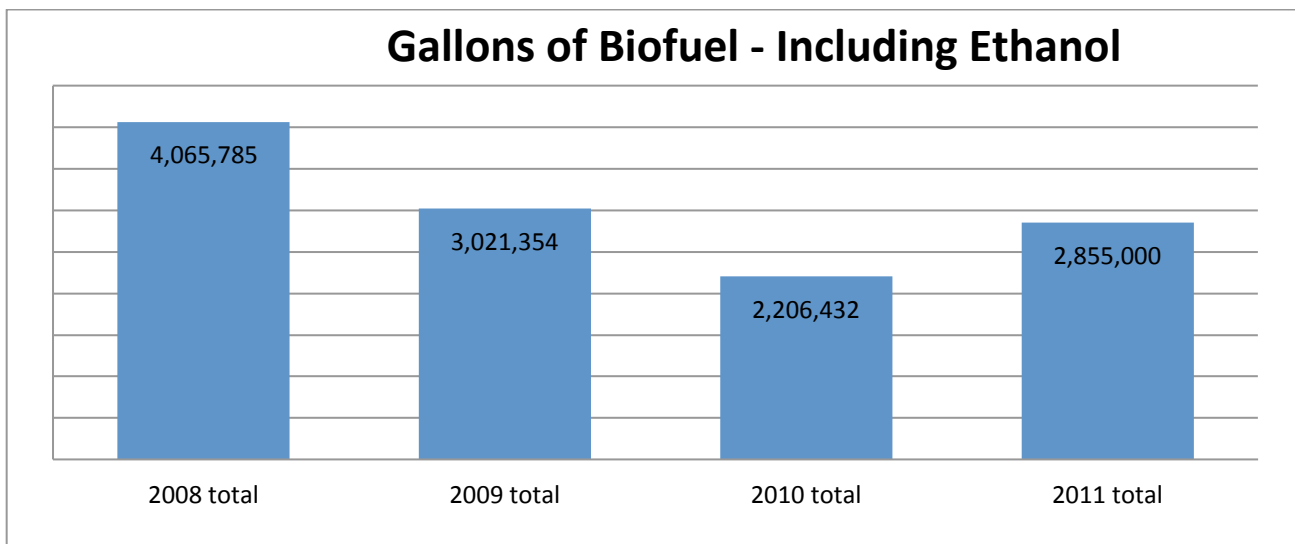
March 22, 2011

For the year ending December 31, 2011, 8,855,000 gallons of alternative fuels were produced and reported by three active biofuel production companies in Virginia. Of this, 2,015,000 gallons were biodiesel, and 840,000 were from ethanol production. Four future biodiesel facilities reported no production for 2011, likely due to challenging economic conditions and unpredictable incentives. Virginia biodiesel facilities often have alternative business operations, such as soil remediation, or chemical productions, and were able to rely on those activities as sources of revenue.

The reported feedstock for the biodiesel fuel this year was soybean oil, waste food oils, and canola oil.

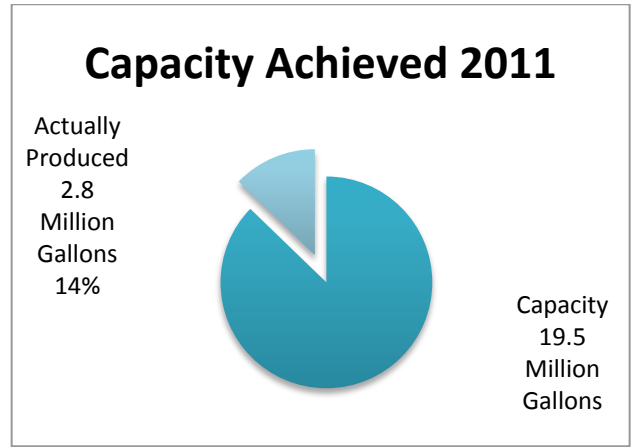
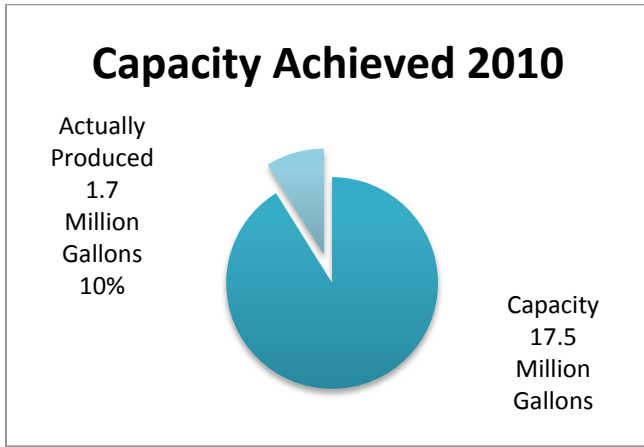
Ethanol in Virginia for 2011 was made primarily from recycling of waste beverages and alcohols. Notably, the Four Loco controversy provided a six month feedstock for Virginia ethanol producers who recycle the beverages into ethanol. In the summer of 2011, the Osage production facility was further delayed and current owners await a new buyer for the nearly operational plant.

The production for the year represents an increase of 648,568 gallons of fuel. That's an increase of 29% from last year's 2,206,432 gallons.



Production capacity reported by Virginia producers was 19.5 million gallons of active biofuels production facilities. Most of the fuel was biodiesel however; including ethanol, the industry is only operating at 14% capacity.

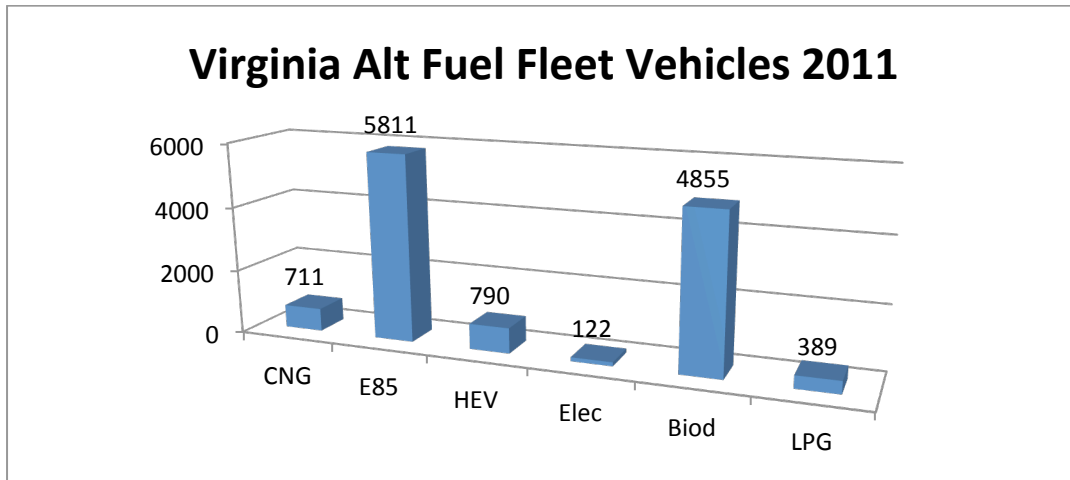
With 86% of the existing Commonwealth biofuel production capacity unused, the biofuels industry represents an economic opportunity to reuse Virginia materials for local and statewide economic gain.



Several state tax credits are currently offered to help increase biodiesel production, including a Biodiesel Production Tax Credit of \$0.01 per gallon of biodiesel, and a Biofuel Production Grant of \$0.125 for each gallon of advanced biofuels sold. Few Virginia producers were able to take advantage of these state credits. Additionally, the federal government has recently delayed continuing the federal biofuels tax credits. While the biodiesel credit reinstated and made was retroactive for the year 2011, it has expired and may cause a challenge to the industry in 2012.

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.

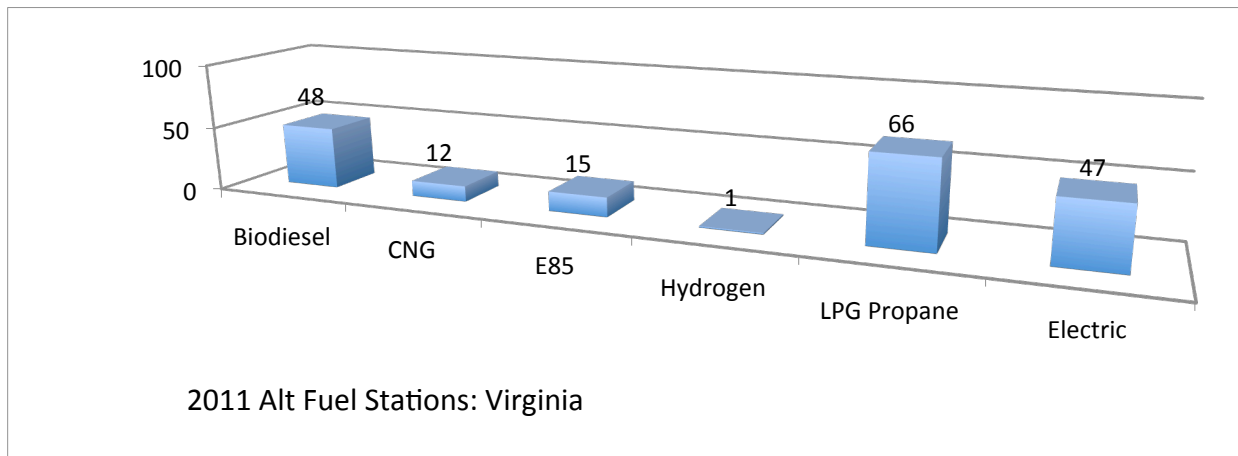


Alternate Fuel Station Update

Inventory for the year 2011 included a total of 189 alternate fuel stations throughout the Commonwealth. Together with a recent boost in the number of new LPG, E85, and electric vehicle charging stations, Virginia

gained 66 new stations in the current calendar year. A vast majority of the electric stations are Level 2 J1772 standard charging stations that will rapidly recharge a vehicle.

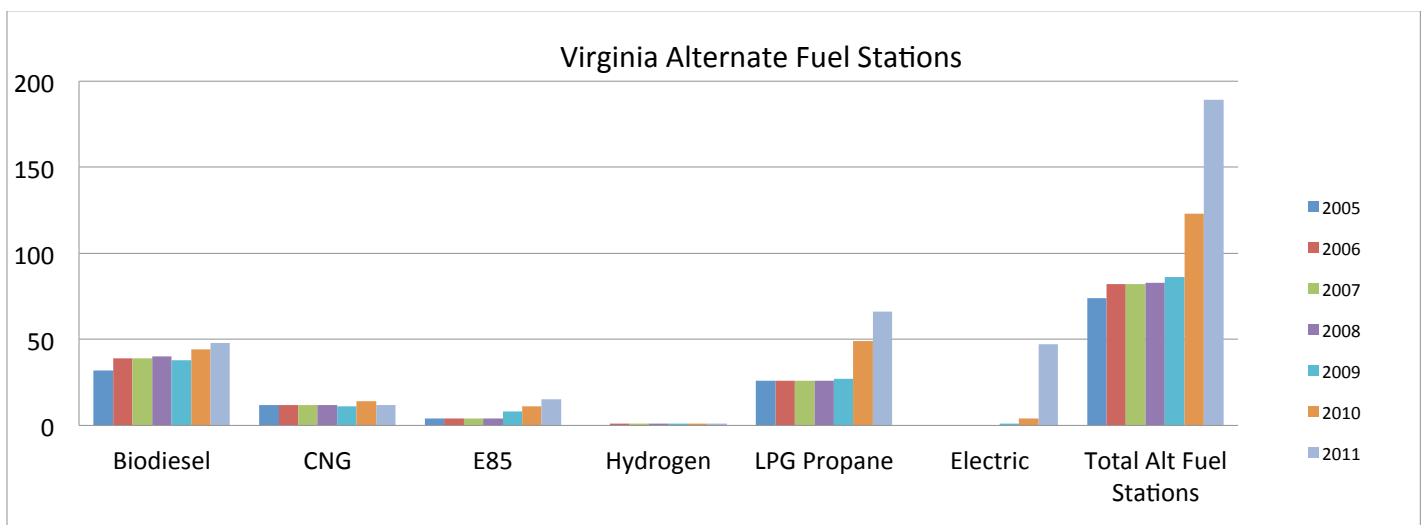
Alternate Fuel Stations in Virginia by Fuel, 2011



Alternate Fuel Stations in Virginia by Type 2011

	Biodiesel	CNG	E85	Hydrogen	LPG Propane Autogas	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
2011	48	12	15	1	66	47	189
New Stations:	4	-2	4	0	17	43	66

Alternate Fuel Stations in Virginia by Fuel Over The Past Several Years



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

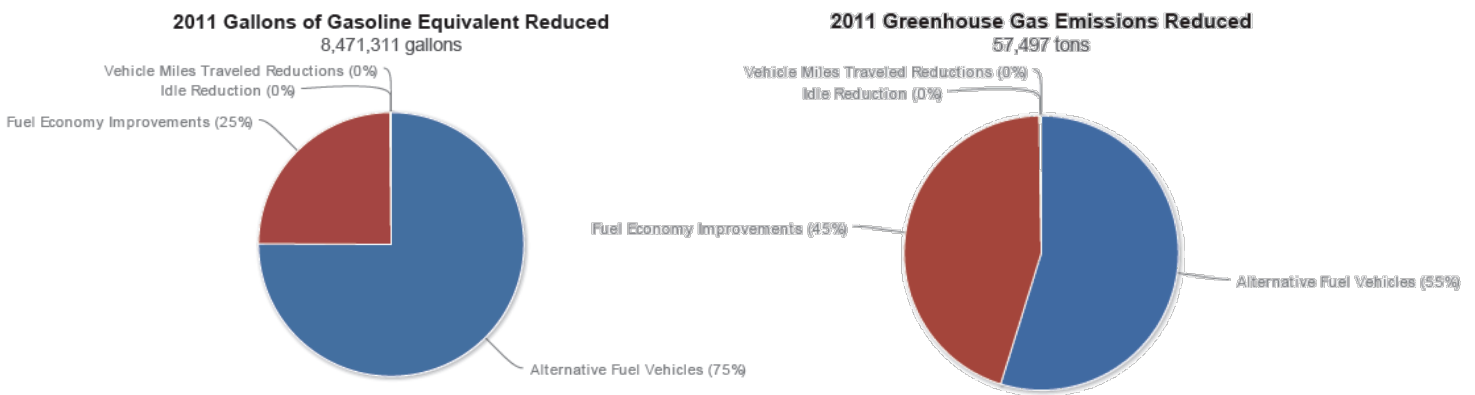
A listing of Virginia, DC, and Maryland E85 stations can be found online at:
<http://www.vacleancities.org/e85stationlocator.pdf>

Biofuels Coalition

On Friday, September 9th, 2011, Virginia Clean Cities, Greater Washington Clean Cities, and James Madison University held a regional biodiesel conference. Attendees included policy makers, members of the media, fuel producers, manufacturers, and other VCC stake holders. There were 85 attendees total. This was the 3rd Virginia Biodiesel Conference. Videos can be viewed at <http://www.cleancities.tv/>

Virginia has an active Clean Cities Coalition which supports local decisions to transition to clean fuel or lower emission technologies. In 2011, the coalition reduced around 8.5 million gallons of gasoline and around 57 tons of greenhouse gasses. More information about the coalition can be found at www.virginiacleancities.org

Virginia Clean Cities Coalition Performance, 2011 – 2011 Annual Report



Virginia Clean Cities Coalition Performance, Historical – 2011 Annual Report

