

Dominion Virginia Power Biomass Overview

Virginia Loggers Association

08/29/2015

Important Note



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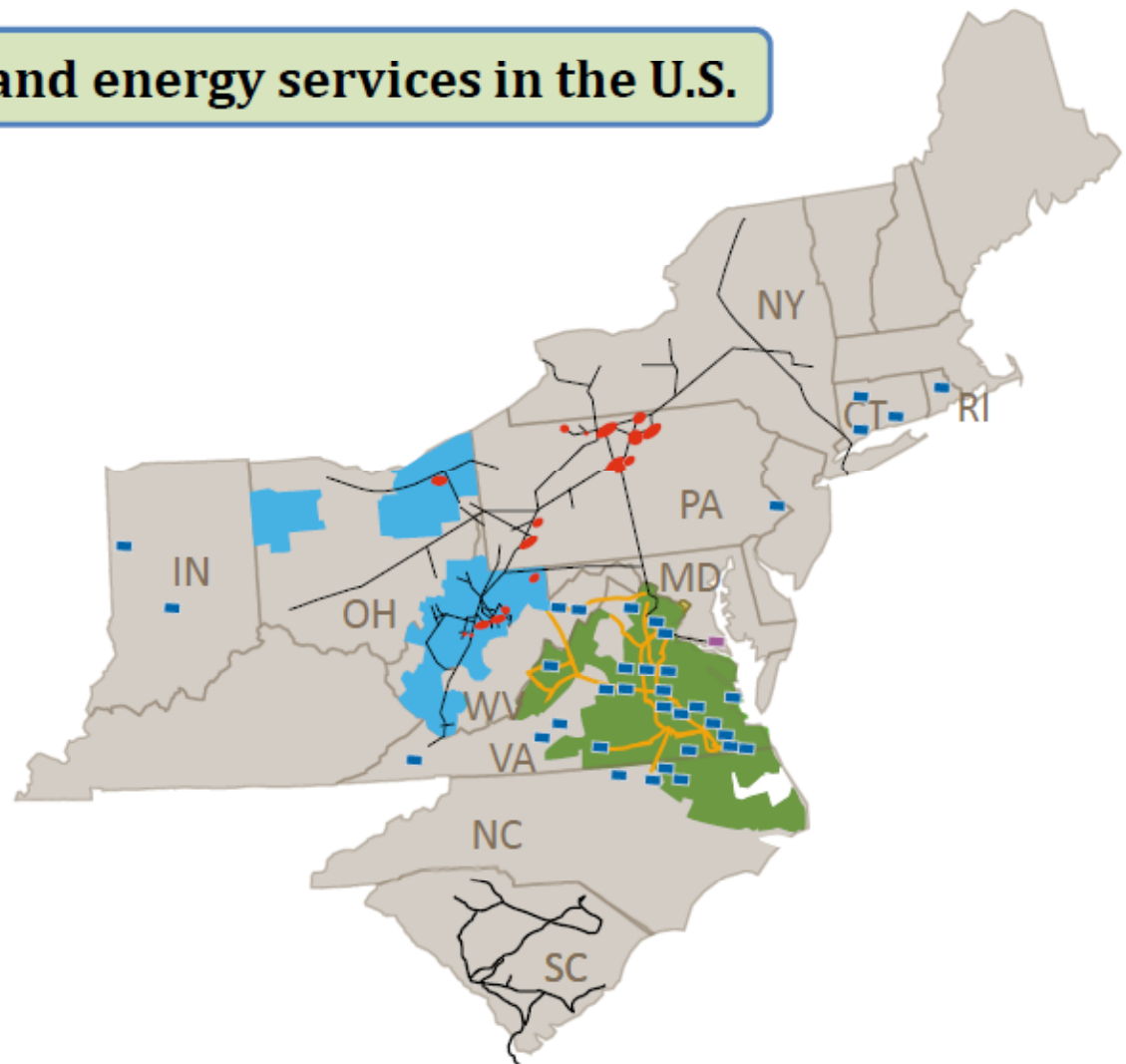
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Please continue to regularly check Dominion's website at www.dom.com/investors.

Dominion Resources

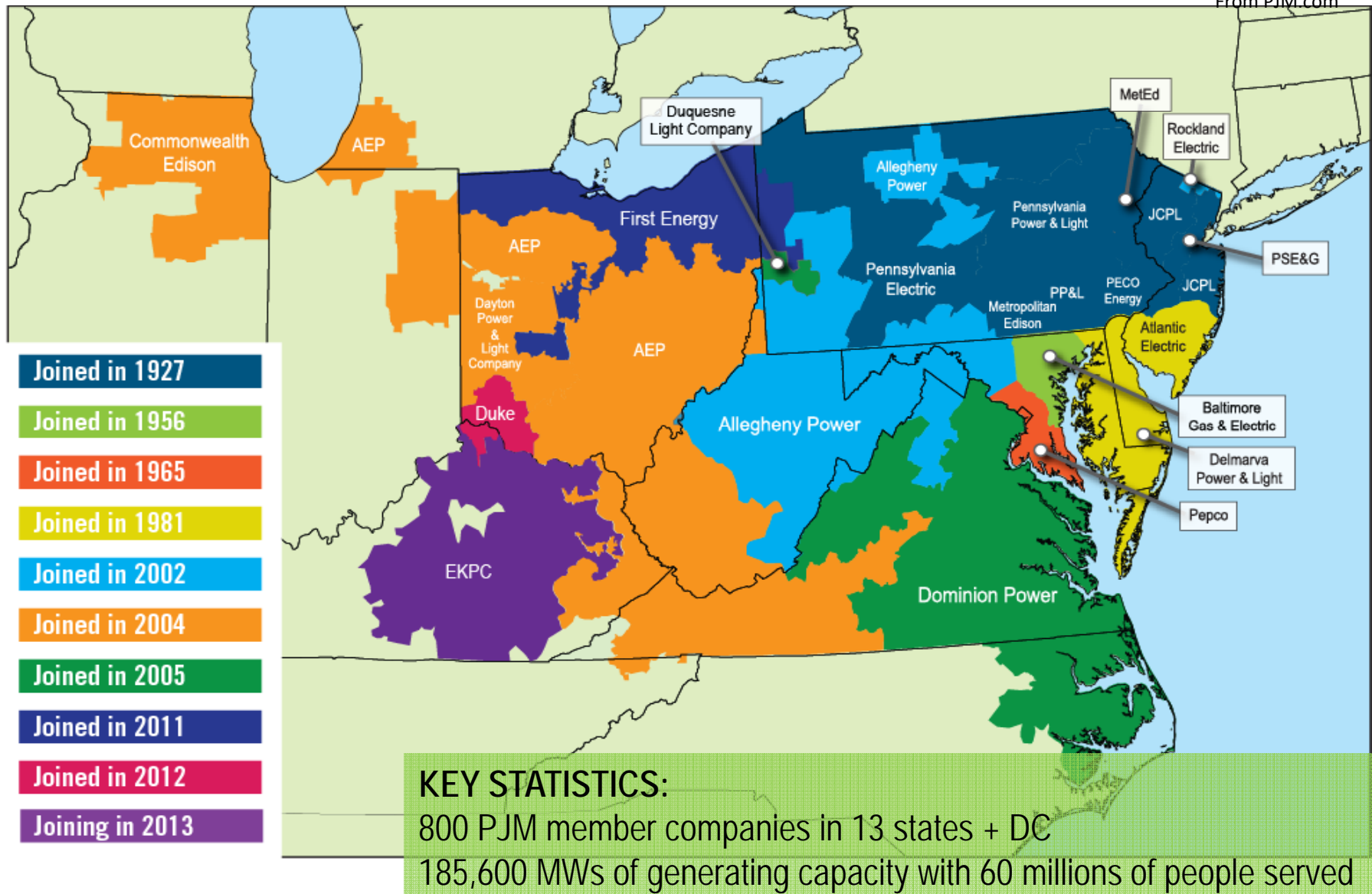
Leading provider of energy and energy services in the U.S.

- 24,600 MW of electric generation
- 6,455 miles of electric transmission
- 12,200 miles of natural gas transmission, gathering and storage pipeline
- 928 billion cubic feet of natural gas storage operated
- Cove Point LNG Facility
- 2.5 million electric customers in VA and NC
- 1.3 million natural gas customers in OH & WV
- 1.2 million non-regulated retail customers in 13 states (not shown)
- 252 MW of contracted solar generation in 6 states (not shown)



PJM ISO

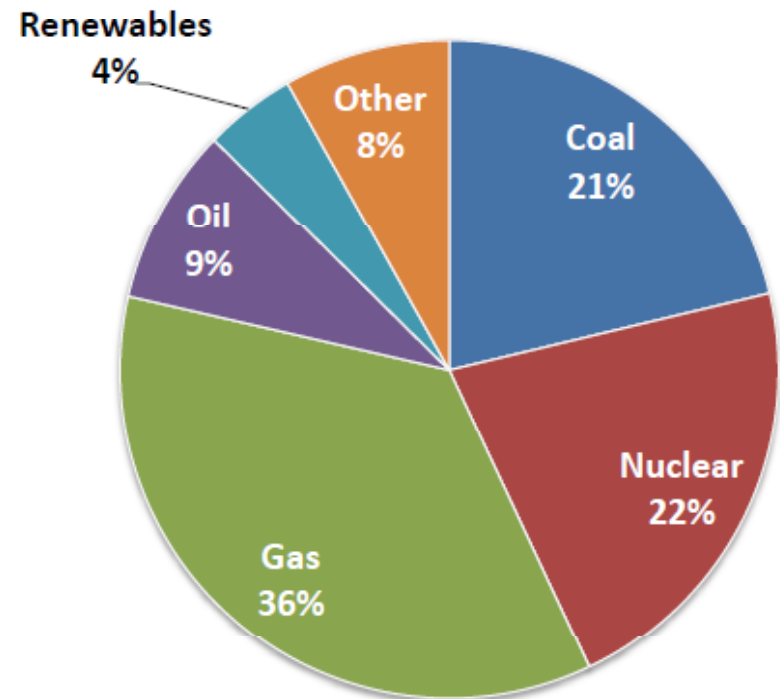
From PJM.com



Dominion Generation

- **Operates Dominion's 24,600 MW generation fleet**
 - 20,400 MW regulated utility
 - 4,200 MW merchant
 - Balanced, diverse fuel mix
- **Utility Generation**
 - Division of VEPCO
 - 3,600 MW¹ projected peak demand growth during the next decade
 - Rider projects to support growth
 - Virginia fuel factor reset effective each July 1st
- **Merchant Generation**
 - Nuclear, gas, and long-term contracted renewables
 - Active hedging program for energy revenue/margins
- **Dominion Retail**
 - Retail Gas & Products/Services
 - Serves 1.2 million non-regulated customer accounts in 13 states

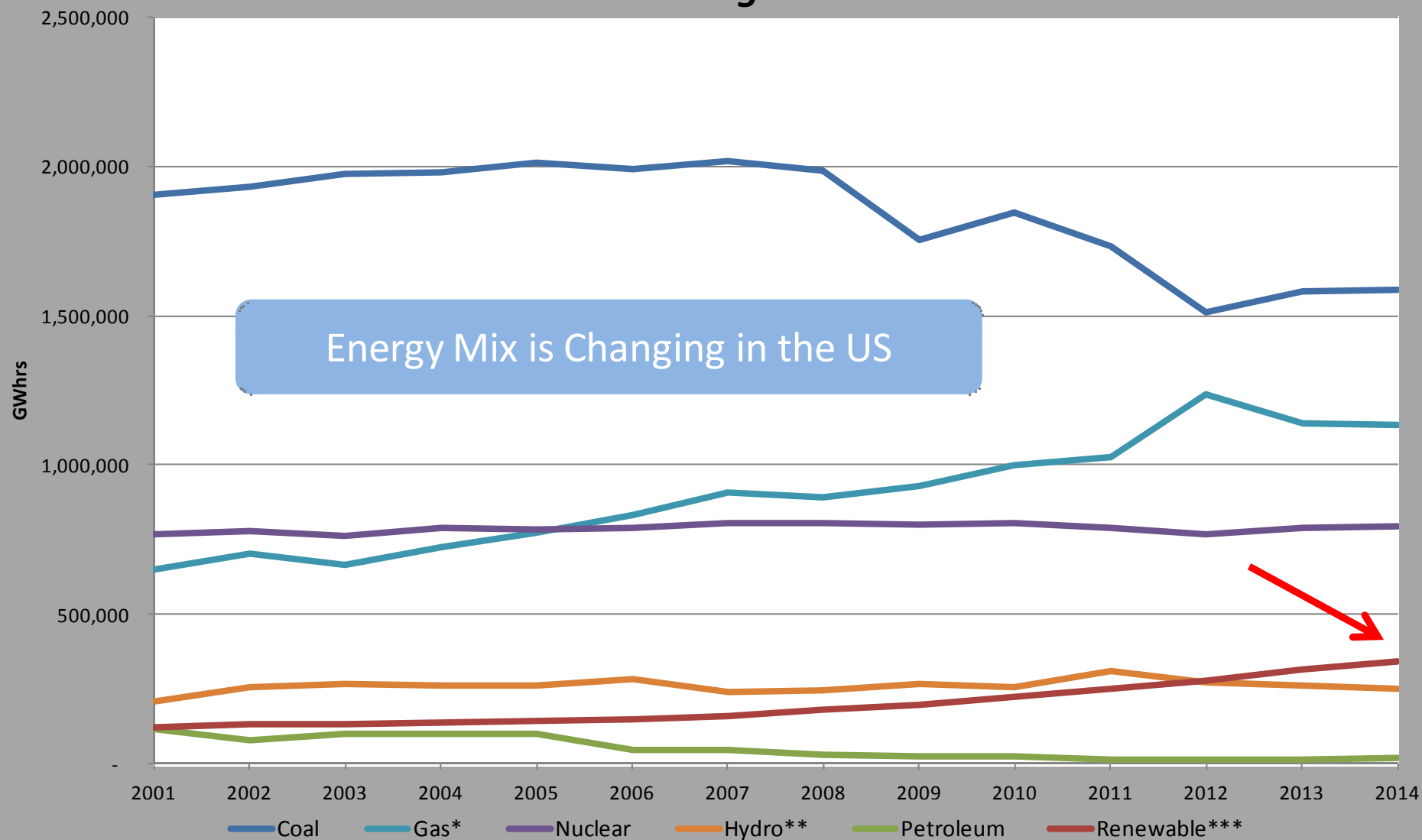
2014 Electric Capacity by Fuel Type for Regulated and Merchant Fleet



* Renewables up from 3% in 2012

US Net Electric Generation by Energy Source

2001 through 2014



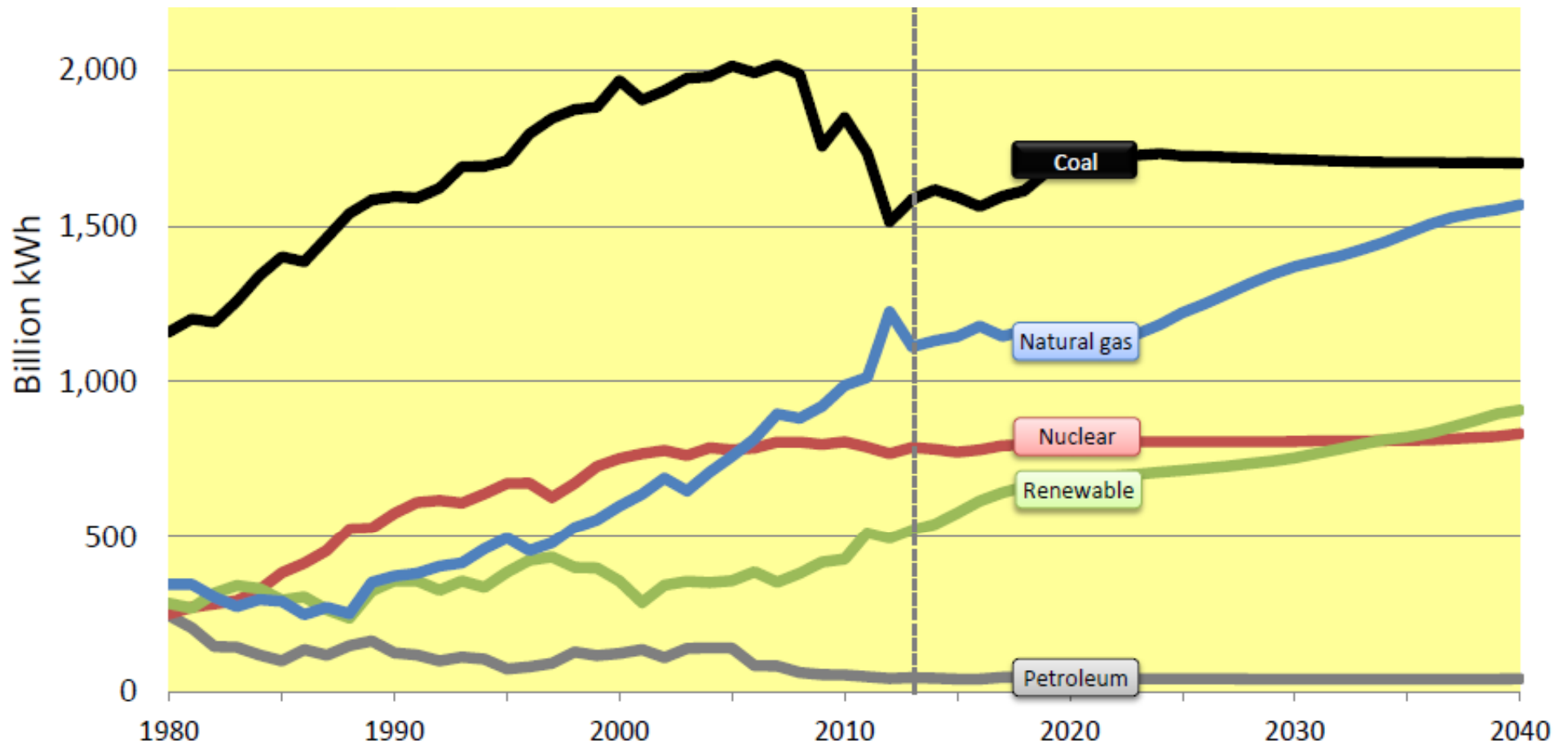
* Includes natural gas, blast furnace gas, propane gas and other manufactured or waste gasses from fossil fuels.

** Includes conventional hydro-electric and hydro-electric pumped storage.

*** Includes geothermal, solar, wind, biomass, wood and wood derived fuels.

Source: EIA

U.S. Electric Generation by Fuel Type



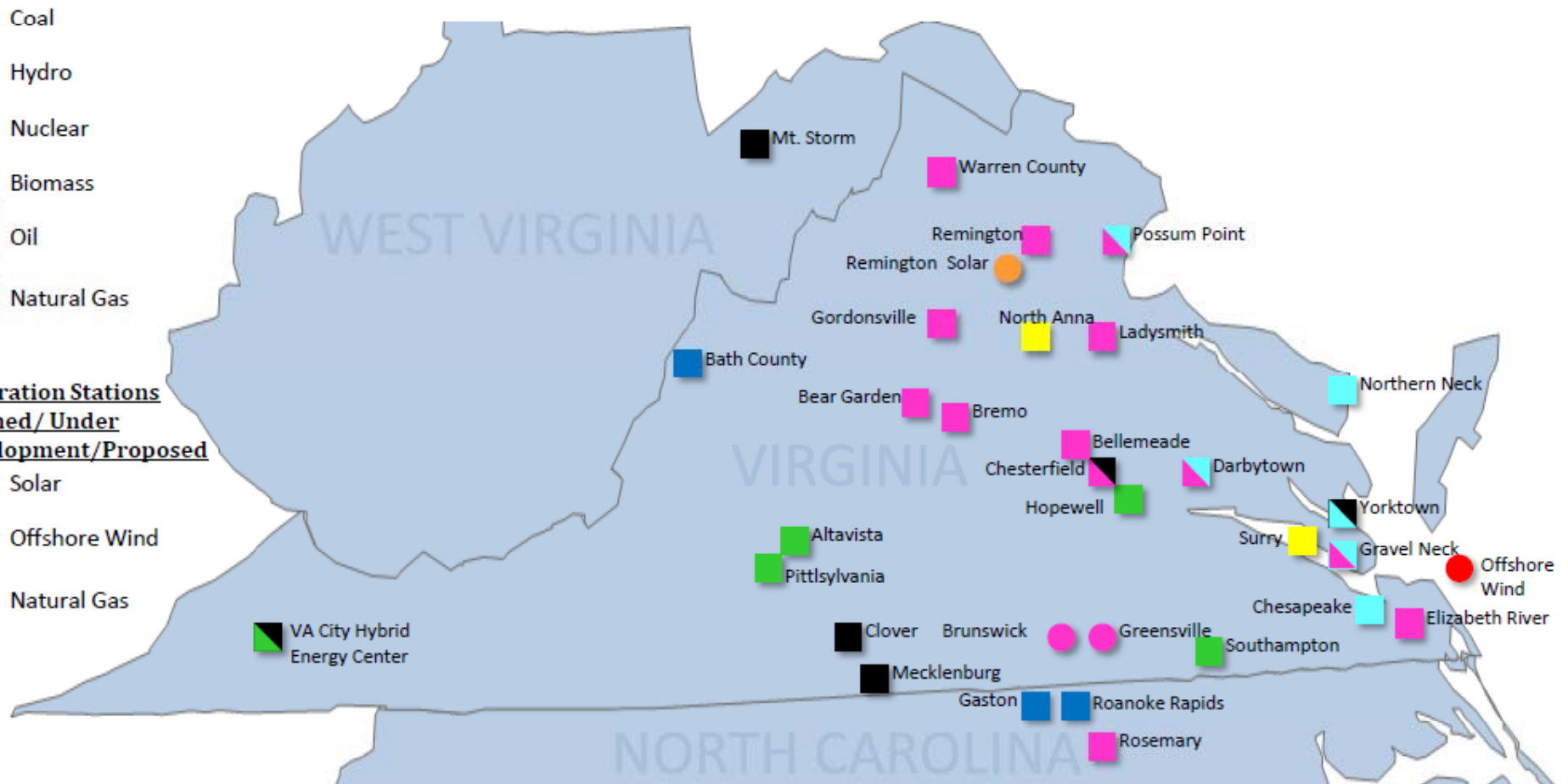
Dominion Generation

Generation Stations in Operation

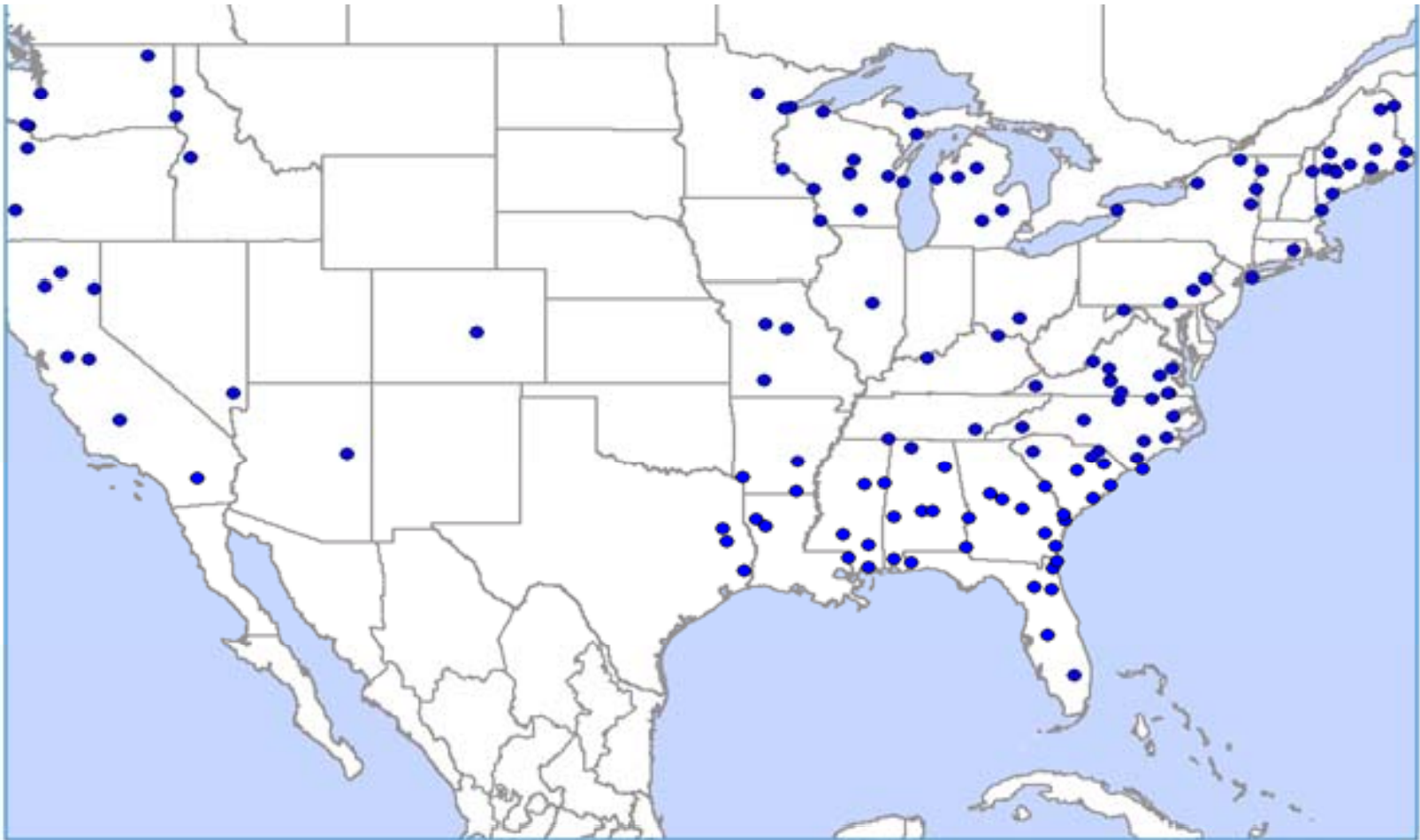
- Coal
- Hydro
- Nuclear
- Biomass
- Oil
- Natural Gas

Generation Stations Planned/ Under Development/ Proposed

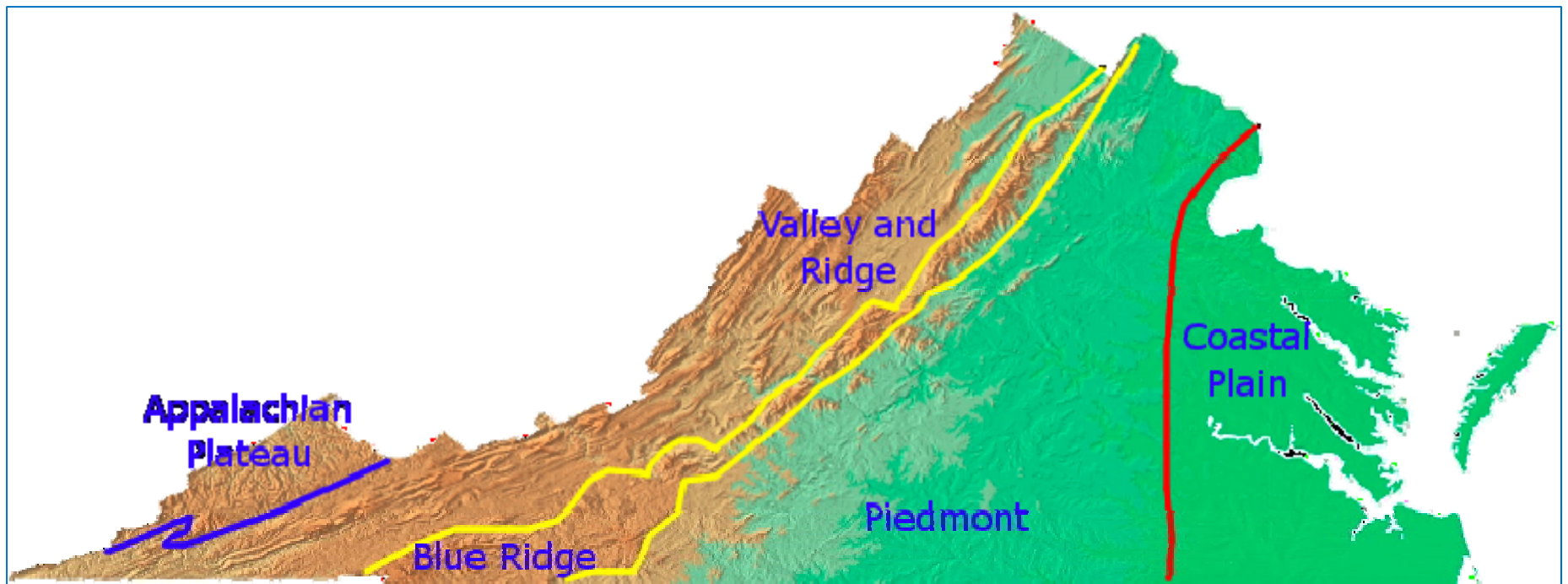
- Solar
- Offshore Wind
- Natural Gas



Biomass Plants In the United States



~ 140 Biomass Plants in 2014 (Power Plants + Combined Heat and Power Plants)



Appalachian Mountain:

Valley and ridges;
Various mix of oaks
and chestnut;

**Continuing to develop
biomass markets.**



Piedmont:

Rolling to hilly landscape;
Long history of clearing
and logging;
Pine-hardwood;



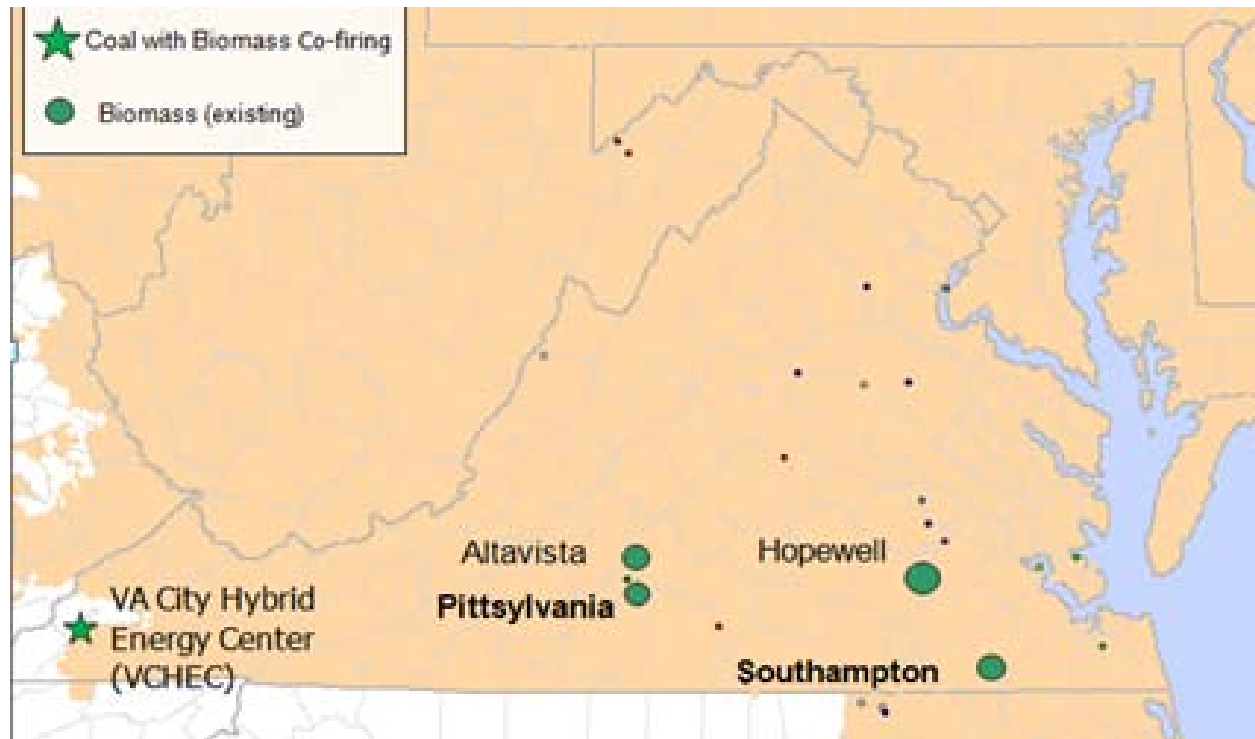
Coastal Plain:

Low relief,
Upland forests –
extensively cleared;
Pine and hardwood forest;

DVP Biomass Power Stations

Currently, five DVP power stations receive biomass:

- Eastern Region – Hopewell and Southampton ~51MW each
- Central Region – Altavista (51MW) and Pittsylvania (80MW)
- Western Region - Virginia City Hybrid Energy Center (VCHEC) - 5%



2015 Dominion Biomass Tons Forecast by Station

2.5 Million biomass tons at DVP Plants estimated for 2015

Primary supplier WestRock, some DVP direct buys:

Altavista – 650,000

Pittsylvania – 550,000

Primary supplier Enviva, some DVP direct buys:

Hopewell – 650,000

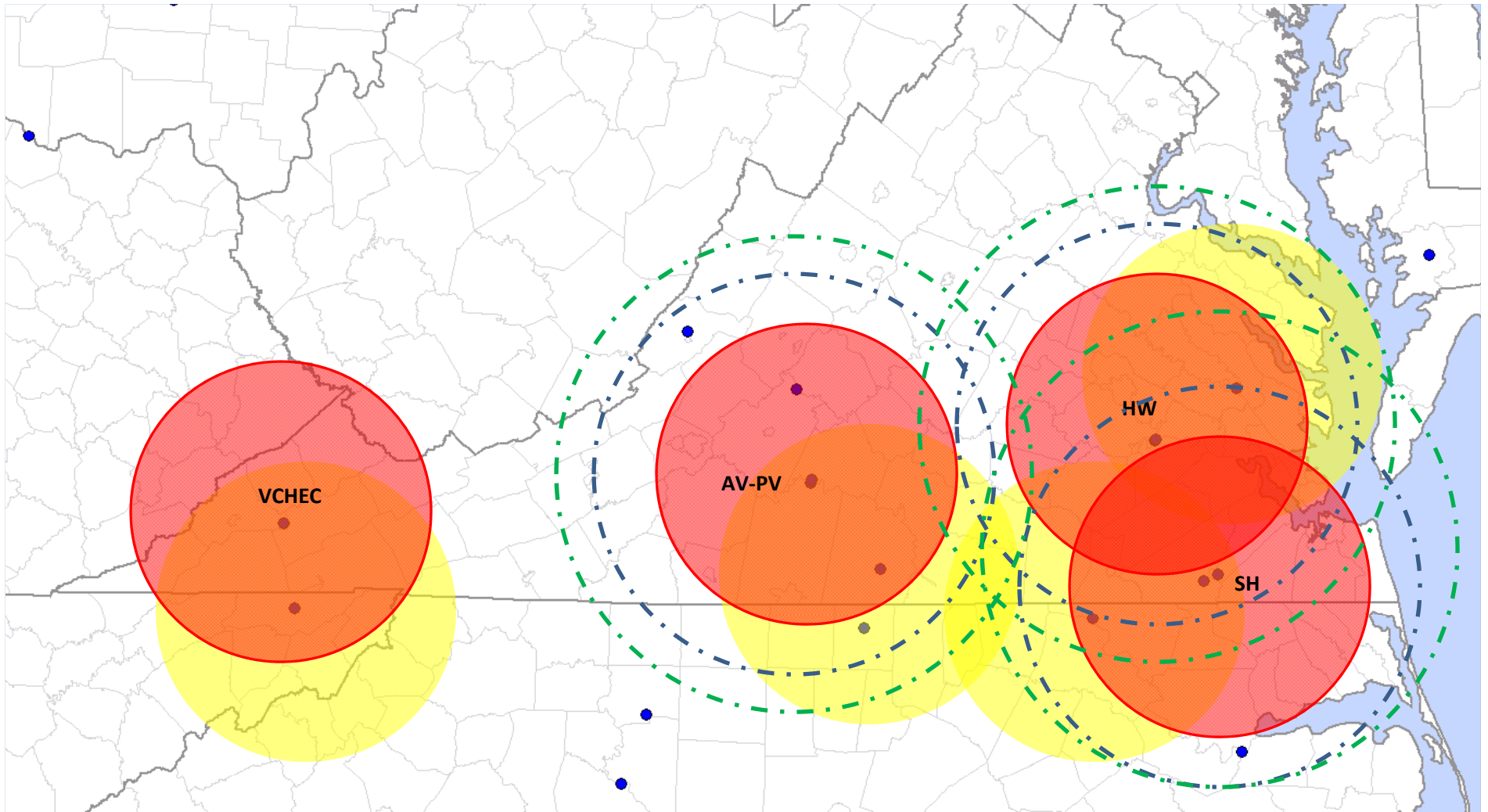
Southampton – 650,000

DVP

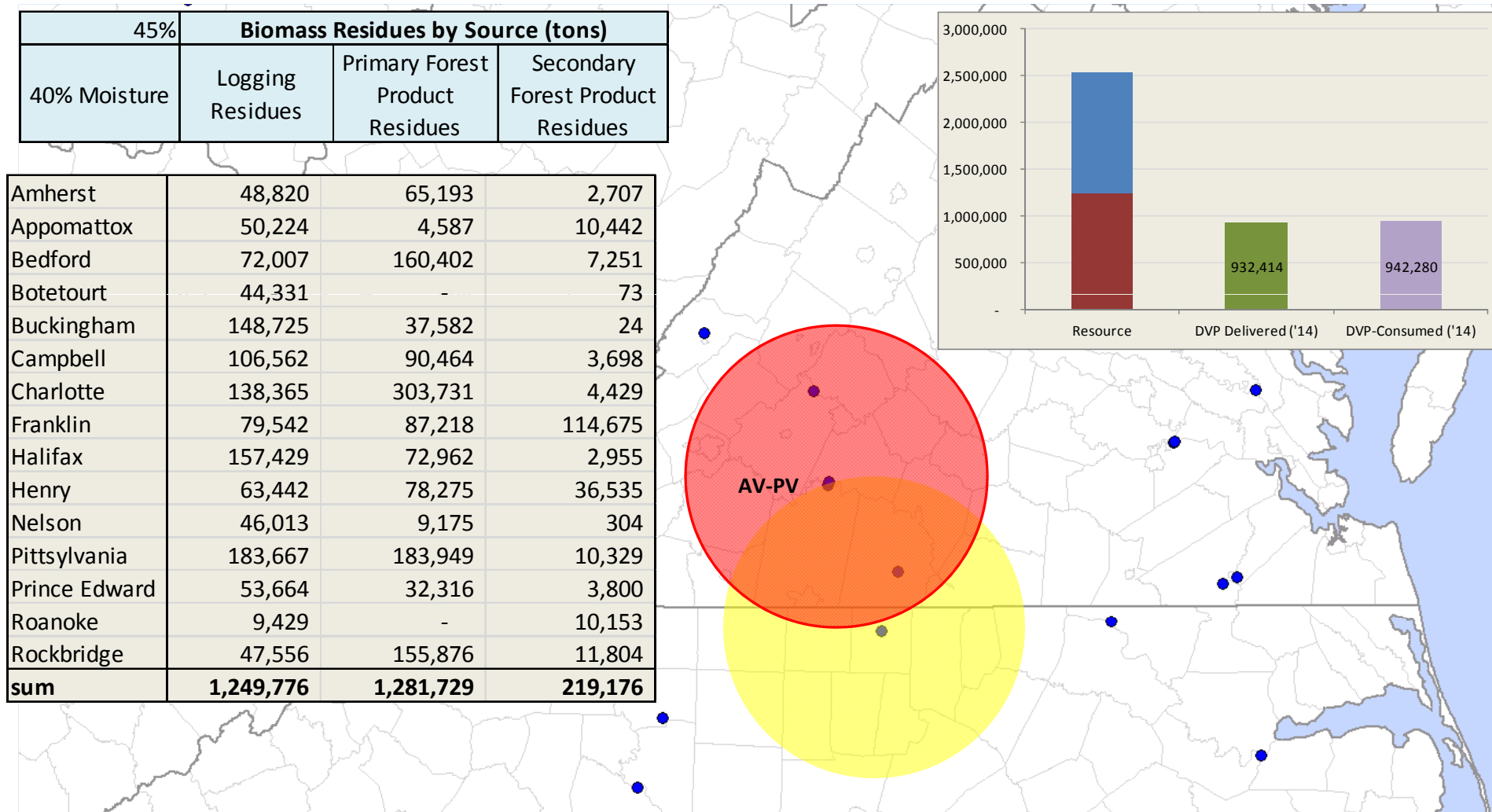
Direct purchases only

Virginia City – 225,000

50 Mile Radius to Define Biomass Supply Circles 2014

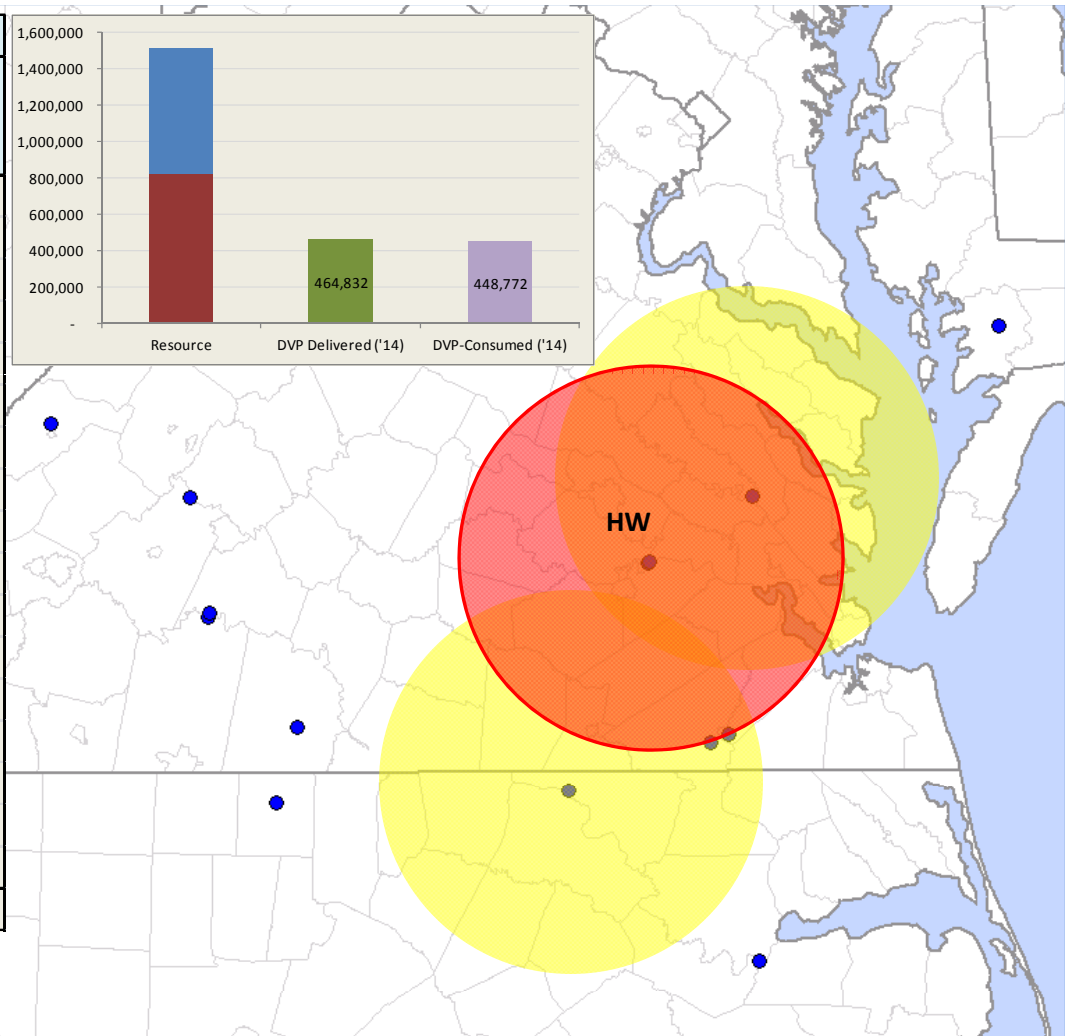
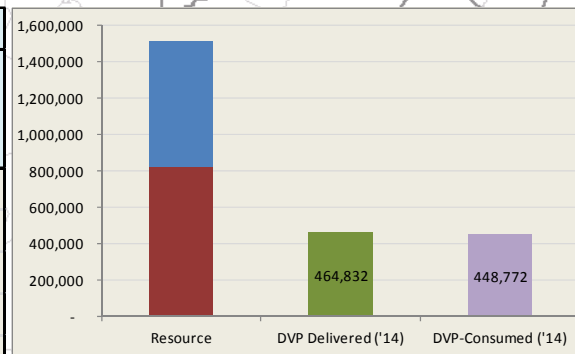


Altavista & Pittsylvania: 50 Mile Radius to Define Biomass Supply Circles

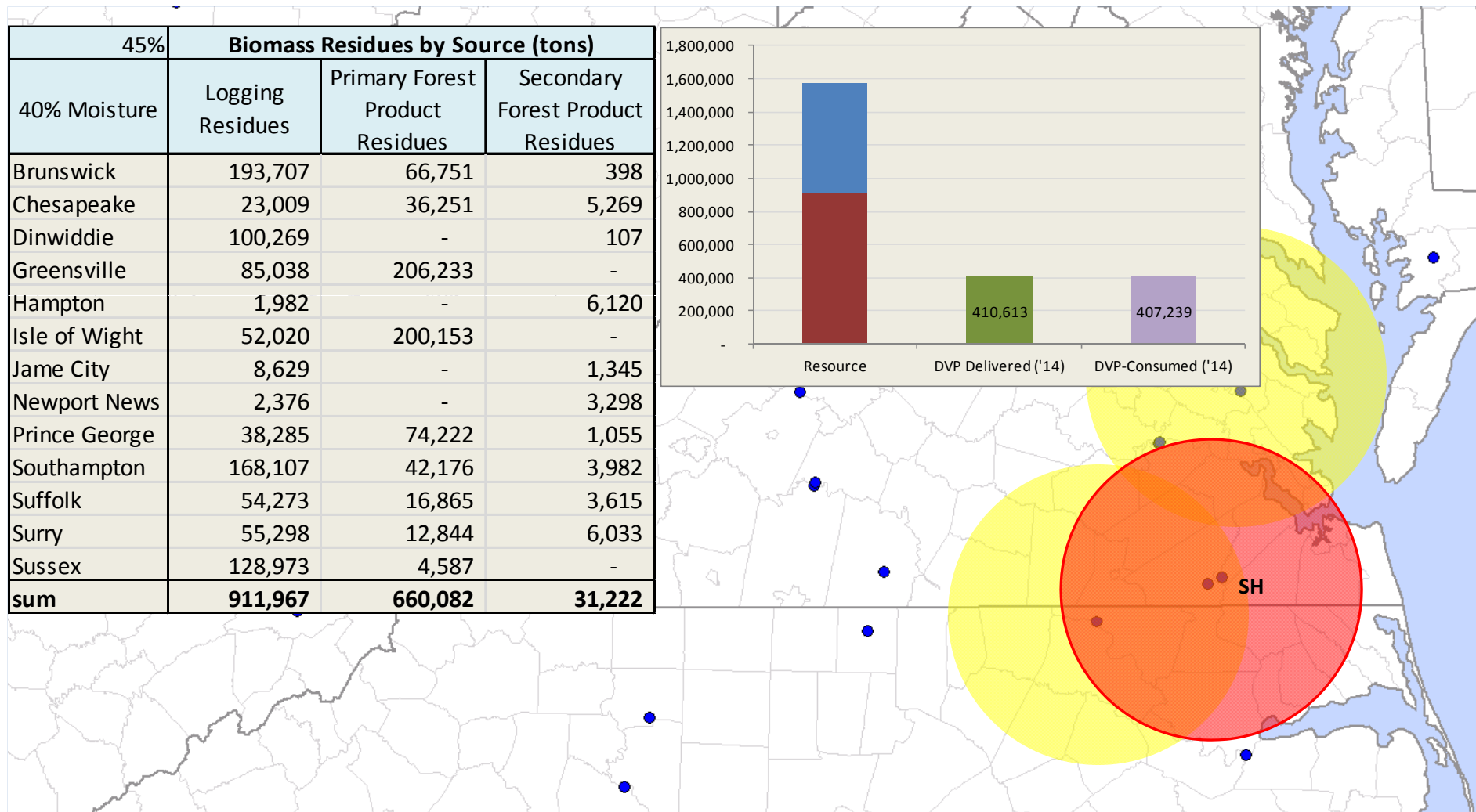


Hopewell: 50 Mile radius to Define Biomass Supply Circles

45%	Biomass Residues by Source (tons)		
40% Moisture	Logging Residues	Primary Forest Product Residues	Secondary Forest Product Residues
Amelia	84,616	28,020	9,691
Caroline	68,307	85,087	10,987
Charles City	31,789	-	1,265
Chesterfield	23,475	138,360	23,227
Dinwiddie	100,269	-	107
Goochland	13,825	-	516
Hanover	31,544	138,444	16,707
Henrico	4,075	2,373	28,911
King & Queen	48,275	-	1,111
King William	29,780	64,927	2,578
Louisa	49,540	140,542	10,416
New Ken	21,562	-	20,200
Nottoway	61,042	-	3,938
Powhatan	35,104	-	202
Price George	38,285	74,222	1,055
Surry	55,298	12,844	6,033
Sussex	128,973	4,587	-
sum	825,758	689,405	136,945



Southampton: 50 Mile radius to Define Biomass Supply Circles



Biomass Product Types

- Pittsylvania Blend
 - **Chips, 60%**
 - Dust, 10%
 - **Other (Grinds, Bark) 30%**
- Altavista, Hopewell & Southampton plants
 - Mostly chips (~75%)
- VCHEC
 - Chips only
- 100% of deliveries for DVP biomass are by truck

VCHEC Biomass

- Dominion Procures 100% of woody biomass to VCHEC

**Currently 20 suppliers
Looking to double by the end of 2015**

- Target 2015 5% biomass heat input in future years going up to +10%

**Biomass continues to be a
growing focus at Virginia City**

Trucks on Tippers (Hopewell)



Stacker/Reclaimer (Altavista)



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