

DIVISION OF ENERGY

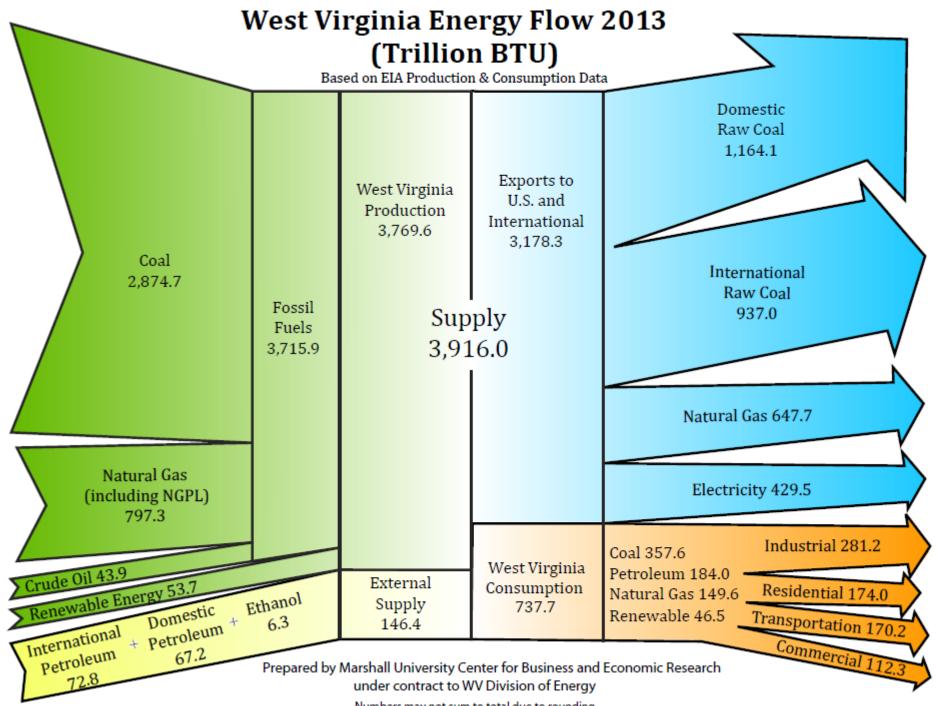






Renewable Energy in the State of West Virginia

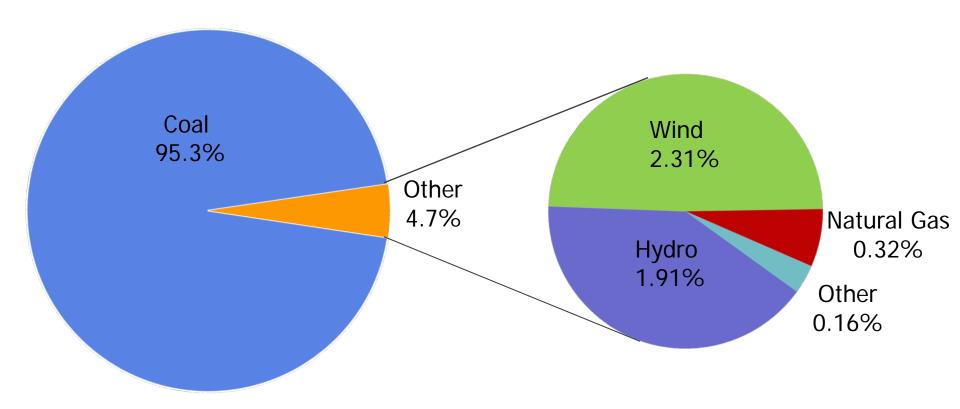
May 12, 2016 Huntington, WV



Numbers may not sum to total due to rounding.



West Virginia Net Electric Generation, 2015



Hydro Power



Licensed WV Hydro Facilities

Name	Capacity (MW)	Licensee	Waterway
Belleville	42.0	American Minicipal Power, Inc	Ohio River
Dam No. 4	1.9	PE Hydro Generation LLC	Potomac River
Dam No. 5	1.2	PE Hydro Generation LLC	Potomac River
Hawks Nest & Glen Ferris	108.2	Hawks Nest Hydro, LLC	New River
Jennings Randolph	14.0	Fairlawn Hydroelectric Co., LLC	Potomac River
Lake Lynn	51.2	Lake Lynn Generation, LLC	Monongahela River
London/Marmet	28.8	Appalachian Power Co. (VA)	Kanawha River
Millville	2.8	PE Hydro Generation LLC	Shenandoah River
New Martinsville	35.7	City of New Martinsville (WV)	Ohio River
Racine	47.5	AEP Generation Resources, Inc.	Ohio River
Summersville	80.0	City of Summersville (WV)	Gauley River
Willow Island L&D	35.0	American Minicipal Power, Inc	Ohio River
Winfield	14.8	Appalachian Power Co. (VA)	Kanawha River

Hawks Nest Hydro Facility

Total Capacity: 463.1 MW



Hydro Power, Continued

Preliminary Permitted WV Hydro Facilities

Name	Capacity (MW)	Licensee	Waterway
Hildebrand Lock & Dam	7.5	Lock+Hydro Friends Fund XLVI	Monongahela River
New Cumberland Locks & Dam	49.8	FFP Project 121 LLC	Ohio River
Stonewall Jackson	0.3	Mahoning Hydropower, LLC	West Fork River
Sutton	9.2	James R. Robertson	Elk River
Jennings Randolph	14	Fairlawn Hydroelectric Co.	North Branch Potomac
Tygart	30	Tygart LLC	Tygart River



Opekiska Lock and Dam

Total Preliminary Permit Capacity: 110.8 MW

Wind Power



WV Wind Farms

Operating

Name	Capacity (MW)	Operator	County
Beech Ridge Energy, LLC	100.5	Invenergy Services, LLC	Greenbrier
Laurel Mountain	97.6	AES Wind Generation, Inc.	Randolph
Mountaineer Wind Energy Center	66.0	FPL Energy, LLC	Tucker
NedPower Mount Storm	264.0	Shell Wind Energy, Inc.	Grant
Pinnacle Wind Force, LLC	55.0	Edison Mission Energy	Mineral

Under Construction

Name	Capacity (MW)	Operator	County
New Creek*	103.0	Enbridge	Grant

Operating Capacity: 583.1 MW



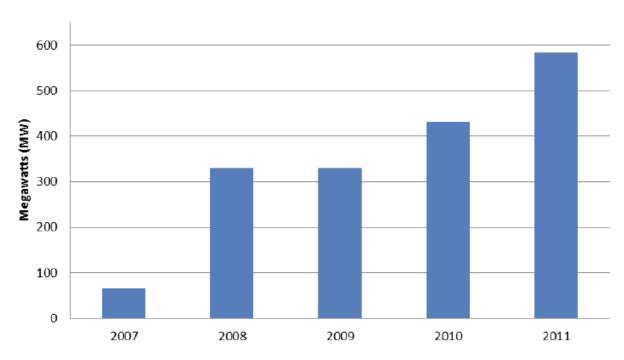
NedPower Mount Storm

^{*}A construction extension was granted by the PSC in September 2014. AES Wind Generation, Inc. is looking for a buyer for the project. (Construction has been stalled since early 2012.)

Wind Capacity



WV Wind Electric Generating Capacity 2007-2011



Source: https://gats.pjm-eis.com/myModule/rpt/myrpt.asp?r=501

Solar

WestVirginia Energy

Examples of state and local government installations supported by WV Division of Energy

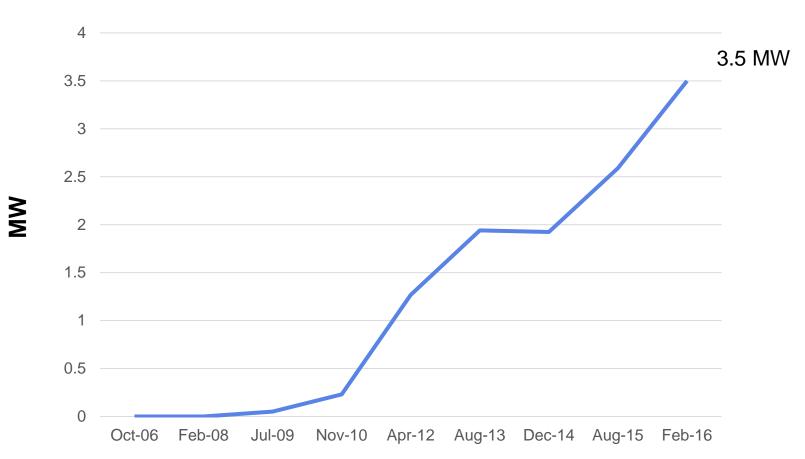
- Morgan County Courthouse
- Town of Man
- Village of Beech Bottom
- Hurricane Municipal Waste Water Treatment
- Mt. View High School
- University High School
- Cameron High School
- West Virginia DEP Headquarters



Solar Generation



West Virginia Solar Capacity Growth October 2006 – February 2016



Source: PJM GATS Database

WestVirginia Energy

Biomass

- West Virginia wood pellet producers:
 - Appalachian Wood Pellets
 - Hamer Pellet Fuel Company
 - Lignetics of West Virginia
- West Virginia is the third most heavily forested state in the nation with more than 78% of the land covered with forest.
- Wood for residential purposes: 130,308 cords
- Wood for boiler fuels: 5,000 cords
- Total wood pellet production capacity: 300,000 tons/year
- 150,000 acres harvested annually represents 1.25% of our 12 million forested acres



Thank you.