

Pennsylvania Wind Farms

Last Updated December 7, 2023, by the Saint Francis University Institute for Energy

Farm Name	Owner ¹	Municipalities ²	County ²	Turbine Count ³	Turbine Manufacturer	Turbine Capacity (in Megawatts)	Farm Capacity	Month/Year Operational ⁴	Design Wind Speed (mph) ⁴	Turbine Hub Height (Feet) ⁴
Somerset	Sequitur Renewables, LLC	Somerset Township	Somerset	6	GE ⁵	1.5 MW ⁵	9.0 MW ⁵	Dec 2001	14.0	213.3
Mill Run	Sequitur Renewables, LLC	Springfield Township, Stewart Township	Fayette	10	GE ⁶	1.5 MW ⁶	15.0 MW ⁶	Dec 2001	16.0	213.3
Waymart	Sequitur Renewables, LLC	Canaan Township, Clinton Township	Wayne	43	GE ⁷	1.5 MW ⁷	64.5 MW ⁷	Oct 2003	15.0	213.3
Meyersdale	Sequitur Renewables, LLC	Summit Township	Somerset	20	NEG Micon ⁸	1.5 MW ⁸	30.0 MW ⁸	Dec 2003	16.0	262.0
Bear Creek	Leeward Renewable Energy, LLC ⁹	Bear Creek Township	Luzerne	12	Gamesa ¹⁰	2.0 MW ¹⁰	24.0 MW ¹⁰	March 2006	19.0	256.0
Locust Ridge I	Avangrid Renewables, LLC ¹¹	Mahanoy Township, East Union Township	Schuylkill	13	Gamesa ¹²	2.0 MW ¹²	26.0 MW ¹²	March 2007	16.0	256.0
Allegheny Ridge	Leeward Renewable Energy, LLC ⁹	Portage Township, Washington Township, Juniata Township, Greenfield Township	Cambria, Blair	40	Gamesa ¹³	2.0 MW ¹³	80.0 MW ¹³	June 2007	19.0	256.0
Casselman	Avangrid Renewables, LLC ¹¹	Black Township, Summit Township	Somerset	23	GE ¹⁴	1.5 MW ¹⁴	34.5 MW ¹⁴	Dec 2007	15.5	262.0
Forward	Global Infrastructure Partners (GIP) ¹⁵	Shade Township	Somerset	14	Suzlon ¹⁶	2.1 MW ¹⁷	29.4 MW ¹⁶	April 2008	19.0	262.4
Lookout	Global Infrastructure Partners (GIP) ¹⁵	Brothersvalley Township, Northampton Township	Somerset	18	Suzlon ¹⁸	2.1 MW ¹⁹	37.8 MW ¹⁹	Oct 2008	19.0	262.4
Locust Ridge II	Avangrid Renewables, LLC ¹¹	Conyngham Township, Union Township, Mahanoy Township, West Mahanoy Township	Columbia, Schuylkill	51	Gamesa ¹²	2.0 MW ¹²	102.0 MW ¹²	May 2009	15.5	256.0
Cambria (Krayn/Highland)	Exus North America Management Partners LLC ²⁰	Adams Township	Cambria	25	Nordex ²¹	2.5 MW ²¹	62.5 MW ²¹	August 2009	15.0	262.4
North Allegheny *Being Repowered ²²	Deriva Energy ²³	Cresson Township, Portage Township, Washington Township, Juniata Township,	Cambria, Blair	(35 old) 33 new	(Gamesa old) Vestas new ²²	(2.0 MW) 2.2 MW ²²	(70 MW) 72.6 ²²	(Sept 2009) Repowering	(14.9)	(272.0)
Armenia Mountain	ALLETE Clean Energy	Sullivan Township, Ward Township, Armenia Township	Tioga, Bradford	67	GE ²⁴	1.5 MW ²⁴	100.5 MW ²⁴	Dec 2009	13.9	262.0
Stony Creek	RWE Renewables America ²⁵	Shade Township, Stony Creek Township	Somerset	35	GE ²⁶	1.5 MW ²⁶	52.5 MW ²⁶	Nov 2009	17.4	262.4
Chestnut Flats	EDF Renewable Energy, Inc. ²⁷	Logan Township	Blair	19	Gamesa ²⁷	2.0 MW ²⁷	38 MW ²⁷	Dec 2011	19.0	328.1
South Chestnut	Avangrid Renewables, LLC ¹¹	Georges Township, Springhill Township, Wharton Township	Fayette	23	Gamesa ²⁸	2.0 MW ²⁸	46 MW ²⁸	April 2012	16.3	256.0
Turkey Point Wind Project (Frey Farm Wind)	Energy Power Partners ²⁹	Manor Township	Lancaster	2	GE ³⁰	1.6 MW ³⁰	3.2 MW ³⁰	Jan 2011	12.0	262.4
Highland North	Vitol, Inc. ³¹	Adams Township, Summerhill Township	Cambria	30	Nordex ³²	2.5 MW ³²	75 MW ³²	March 2012	19.0	328.1
Sandy Ridge	Algonquin Power Fund (America) Inc.	Snyder Township, Taylor Township	Blair, Centre	25	Gamesa ³³	2.0 MW ³³	50 MW ³³	Feb 2012	17.6	328.1
Twin Ridges ³⁴ **to be repowered 2024	Vitol, Inc. ³¹	Northampton Township, Larimer Township, Southampton Township, Greenville Township	Somerset	68	REpower ³⁴	2.05 MW ³⁴	139.4 MW ³⁴	Dec 2012	19.0	328.1
Laurel Hill	Deriva Energy ²³	Jackson Township, McIntyre Township	Lycoming	30	Siemens ³⁵	2.3 MW ³⁵	69.0 MW ³⁵	Sept 2012	12.8	272.0
Patton	Vitol, Inc. ³¹	Elder Township, East Carroll Township, West Carroll Township	Cambria	15	Gamesa ³⁶	2.0 MW ³⁵	30.0 MW ³⁶	Dec 2012	16.8	295.3
Mehoopany	Invenergy ³⁷	Forkston Township, Noxen Township, Eaton Township, Mehoopany Township	Wyoming	88	GE ³⁸	1.68 MW ³⁸	140.8 MW ³⁸	Dec 2012	19.0	328.0
Ringer Hill	Skyline Renewables LLC ³⁹	Elk Lick Township	Somerset ³⁹	14 ³⁹	GE ³⁹	2.85 MW ⁴⁰	39.9 MW ⁴⁰	Dec 2016	19.0	295.3
Big Level	TransAlta Renewables ³⁹	Hector Township	Potter	25 ³⁹	GE ³⁹	3.6 MW ³⁹	90.0 MW ³⁹	Dec 2019	16.3	430.0
Sandy Ridge 2	Algonquin Power Fund (America) Inc.	Snyder Township, Taylor Township ⁴⁰	Blair, Centre	15 ⁴¹	Vestas ⁴¹	6.0MW (14) 3.6MW (1) ⁴¹	87.6 MW ⁴¹	Sept 2023 ⁴¹		

Sources

- 1 Parent Company and Owner/Operator - Electric Power Outlook for Pennsylvania 2014-2019. August 2015 Published by Pennsylvania Public Utility Commission Technical Utility Services, Paul T. Diskin, Director. Prepared by David M. Washko, Reliability Engineer. Table C-2 pp. 55-59. Accessed online February 15, 2016 http://www.puc.state.pa.us/general/publications_reports/pdf/epo_2015.pdf and Electric Power Outlook for Pennsylvania 2018-2023. August 2019 Published by Pennsylvania Public Utility Commission Technical Utility Services, Paul T. Diskin, Director. Prepared by David M. Washko, Reliability Engineer. Table C-2 pp. 52-57. Accessed online August 24, 2020 http://www.puc.state.pa.us/General/publications_reports/pdf/EPO_2019.pdf. *Unless otherwise cited.
- 2 Municipalities and Counties - Data and imagery from Google Earth, KidWind, United States Geological Survey (USGS) windFarm, United States Fish and Wildlife Service (USFWS) through Federal Aviation Administration (FAA) wind turbine analysis, Saint Francis University (SFU) data and the Pennsylvania Department of Transportation (PennDOT) county and municipality lines accessed through the Pennsylvania Spatial Data Access (PASDA)
- 3 Turbine Count - A visual count was conducted using satellite imagery in Google Earth and ArcMap in 2016. The numbers were checked against other sources to confirm.
- 4 Operating Year, Design Wind Speed (mph), and Turbine Hub Height (feet) – U.S. Energy Information Administration, “Form EIA-860 detailed data with previous form data,” Release date September 22, 2022, accessed September 29, 2022, <https://www.eia.gov/electricity/data/eia860/>. The owner is asked to “Enter the average annual wind speed in miles per hour for the turbines included in the generator. If more than one value exists, select the one that best represents the turbines” and “enter the hub height in feet for the turbines at the generator. If this generator consists of turbines with multiple hub heights, select the one that best represents all of the turbines.”
- 5 NextEra, “NextEra Somerset Wind Energy Center Fact Sheet,” last accessed February 26, 2016, http://www.nexteraenergyresources.com/pdf_redesign/somerset.pdf.
- 6 NextEra, “NextEra Mill Run Wind Energy Center Fact Sheet,” last accessed February 26, 2016, http://www.nexteraenergyresources.com/pdf_redesign/millrun.pdf.
- 7 NextEra, “NextEra Waymart Wind Energy Center Fact Sheet,” last accessed February 26, 2016, <http://www.nexteraenergyresources.com/content/where/portfolio/pdf/waymart.pdf>.
- 8 NextEra, “NextEra Meyersdale Wind Energy Center Fact Sheet,” last accessed February 29, 2016, http://www.nexteraenergyresources.com/pdf_redesign/meyersdale.pdf.
- 9 Leeward Energy, Inc., “Our Portfolio,” last accessed September 30, 2022, <https://www.leewardenergy.com/our-projects/>.
- 10 Community Energy, “Bear Creek Wind Farm,” last accessed February 29, 2016, <https://www.communityenergyinc.com/wind-solar/wind/bear-creek-wind-farm/>.
- 11 Avangrid Renewables, “Avangrid Renewables U.S. Operating Assets,” last accessed September 30, 2022, <https://www.avangridrenewables.com/wps/portal/aren/ourbusiness/onshorewind/>
- 12 “Locust Ridge Wind Power Projects,” last accessed October 3, 2022, <https://www.avangridrenewables.com/wps/wcm/connect/0f4835e5-641f-4434-bb41-614f192c5b02/locust-ridge-fact-sheet.pdf?MOD=AJPERES&CACHEID=ROOTWORKSPACE-0f4835e5-641f-4434-bb41-614f192c5b02-mtwN5rV>.
- 13 “Gamesa subscribes with firstenergy solutions the sale of the production, for 23 years, from its first wind farm on the Eastern Seaboard of the United States,” accessed February 29, 2016, <http://www.gamesacorp.com/en/communication/news/gamesa-subscribes-with-firstenergy-solutions-the-sale-of-the-production-for-23-years-from-its-first-wind-farm-on-the-eastern-seaboard-of-the-unit.html?idCategoria=0&especifica=0>
- 14 “Casselman Wind Power Project,” last accessed February 29, 2016, <https://s3-us-west-2.amazonaws.com/iberdrola-pdfs/pdf/casselman-fact-sheet.pdf>.
- 15 Clearway, “Operations,” last accessed September 30, 2022, <https://clearwayenergy.gcs-web.com/operations>.

- 16 “Forward Wind Farm,” last accessed February 29, 2016, <http://whiteconstruction.com/portfolio/item/forward-wind-farm-2/>.
- 17 “PJM Generator Interconnection Request Queue #113 & K13 Hooversville (Forward) 115 kV Facilities Study Report,” last accessed February 29, 2016, ftp://www.pjm.com/planning/project-queues/facilities/k13_fac.pdf.
- 18 “Lookout Wind Farm,” last accessed February 29, 2016, <http://whiteconstruction.com/portfolio/item/lookout-wind-farm/>; individual turbine capacity calculated from other data provided.
- 19 Daily American, “Wind Farms Planned for County,” July 25, 2007, accessed February 22, 2016, through Somerset Engineering’s website as a saved pdf, http://www.somersetengineering.com/PressFiles/Forward_WindPower_Project.pdf.
- 20 Exus North America Management Partners LLC manages the farm and is listed as the entity on the EIA-860 form. Boreas Energia, S.L. was reported as the owner as of September 27, 2022. “Section 3 - Energy Market,” 2022 State of the Market Report for PJM, Monitoring Analytics, .pdf, accessed 12/7/2023, https://www.monitoringanalytics.com/reports/PJM_State_of_the_Market/2023.shtml.
- 21 “Highland Wind Farm, Cambria County, PA,” last accessed February 29, 2016, <http://everpower.com/highland-wind-farm-pa/>.
- 22* The original turbine data (in parenthesis) came from “Power Up with Wind, North Allegheny Wind Farm, Portage, Pennsylvania,” Fact Sheet by Duke Energy Generation Services. The farm was to be repowered beginning in 2023, as reported in the article “Washington Township Supervisors cover wind turbine matters,” by Kristin Baudoux, *Mainline Newspapers*, A1, April 13, 2023. In an online post, the manager of the project reported that the repowered farm will consist of 33 Vestas V110 turbines.
- 23 Deriva Energy, “Clean Energy Projects Across the U.S.,” 2023, accessed December 7, 2023, <https://derivaenergy.com/us-renewable-facilities/>. Note: North Allegheny Wind Farm is listed as a 75 MW project.
- 24 RES Americas, “Armenia Mountain Wind,” last accessed February 29, 2016, <http://www.res-americas.com/en/portfolio/wind/constructed/armenia-mountain-wind>.
- 25 RWE Renewables, “Our Projects in North America,” last accessed September 30, 2022, <https://americas.rwe.com/wind-power/wind-projects>.
- 26 White Construction, “Stony Creek Wind Farm,” last accessed February 29, 2016, <http://whiteconstruction.com/portfolio/item/stony-creek-wind-farm/>.
- 27 EDF Renewable Energy, “Chestnut Flats Wind: About,” last accessed September 30, 2022, <https://www.edf-re.com/project/chestnut-flats-wind/about/>.
- 28 Iberdrola Renewables, “South Chestnut Wind Project,” last accessed February 29, 2016, http://iberdrolarenewables.us/cs_southchestnut.html.
- 29 Lancaster Online, “Landmark wind turbines on Turkey Point, landfill power plant sold to California firm,” A D Crable, July 1, 2015, last accessed February 26, 2016, http://lancasteronline.com/news/local/landmark-wind-turbines-on-turkey-point-landfill-power-plant-sold/article_80f0a9b6-202c-11e5-b4a6-efb9ecc064ef.html.
- 30 Turkey Hill Dairy, “Sustainability and environmental impact-reduction projects from Turkey Hill,” last accessed February 29, 2016, <https://www.turkeyhill.com/about/green.aspx>. Calculated turbine capacity based on data provided and confirmed from other sources.
- 31 Vitol Inc., “Vitol to acquire wind farms totalling 244.4 MW of wind generation from BlackRock,” April 13, 2022, accessed September 14, 2022, <https://www.vitol.com/vitol-to-acquire-wind-farms-totalling-244-4-mw-of-wind-generation-from-blackrock/>.
- 32 EverPower, “Highland North Wind Farm, Cambria County, PA,” last accessed February 29, 2016, <http://everpower.com/highland-north-wind-farm-pa/>.

33 Algonquin Power Company, "Sandy Ridge," accessed February 29, 2016, <http://algonquinpowercompany.com/assets/sandy-ridge/>.

34 "Twin Ridges Wind Farm, Somerset County, PA," last accessed February 29, 2016, <http://everpower.com/twin-ridges-wind-farm-pa/>.

** Vestas-American Wind Technology, "Vestas secures 139 MW repowering order from Vitol in the USA," June 16, 2023, last accessed December 7, 2023, <https://www.vestas.com/en/media/company-news/2023/vestas-secures-139-mw-repowering-order-from-vitol-in-th-c3788648>

"Vestas has received a 139 MW order to repower a project owned by Vitol in Pennsylvania, USA. The order consists of 68 V110-2.0 MW wind turbines delivered in 2.05 MW operating mode, which will replace the site's current Servion MM92-2.05 MW wind turbines...Turbine delivery begins in the second quarter of 2024 with commissioning scheduled for the fourth quarter of 2024."

35 Duke Energy, "Duke Energy to Build Second Pennsylvania Wind Farm," Press Release, September 13, 2011, last accessed February 29, 2016, https://www.duke-energy.com/commercial-renewables/laurel_hill.asp.

36 EverPower, "Patton Wind Farm, Cambria County, PA," last accessed February 29, 2016, <http://everpower.com/patton-wind-farm-pa/>.

37 Invenergy, "Innovative Financing Facilitated \$1.5 Billion Acquisition," August 15, 2023, accessed December 7, 2023, <https://invenergy.com/news/invenergy-led-consortium-completes-purchase-of-american-electric-power-s-unregulated-renewables-portfolio> as reported in the Monitoring Analytics report "Section 3 - Energy Market," 2023, State of the Market Report for PJM, Monitoring Analytics, .pdf, accessed 12/7/2023, https://www.monitoringanalytics.com/reports/PJM_State_of_the_Market/2023.shtml.

38 AEP Renewables, "Mehoopany Wind," last accessed August 24, 2020, <https://www.aeprenewables.com/mehoopany-wind/>.

39 Enerknol, "NJR Clean Energy Wins FERC Approval for \$209 Million sale of Wind Portfolio," January 2, 2019, last accessed August 24, 2020, <https://enerknol.com/njr-clean-energy-wins-ferc-approval-for-208-5-million-sale-of-wind-portfolio/> and Skyline Renewables, LLC, "Ringer Hill Wind Farm," accessed September 30, 2022, <https://www.skylinerenewables.com/portfolio/ringer-hill-wind-farm>.

40 NJR Clean Energy Ventures, "NJR Clean Energy Ventures Announces 39.9 Megawatt Onshore Wind Farm in Pennsylvania," February 2, 2016, last accessed November 4, 2016, <http://www.njresources.com/news/releases/2016/njrcev/16-19RingerHillWindFarmFinal.asp>.

41 TransAlta, "Big Level," 2022, last accessed December 7, 2023, <https://transalta.com/about-us/our-operations/facilities/big-level/>.

42 Liberty Power, "Sandy Ridge 2 Wind Project," 2019, accessed December 7, 2023, <https://sandyridge2windproject.com/project-summary/>.

43 Vestas-American Wind Technology, "Vestas showcases EnVentus platform with 189 MW order from Algonquin for two wind projects in the USA," September 2, 2021, accessed December 7, 2023, <https://www.vestas.com/en/media/company-news/2021/vestas-showcases-enventus-platform-with-189-mw-order-fr-c3408844>.

***Disclaimer: The information in this document was compiled from publicly available sources and may have changed since it was prepared. Wind farm ownership continues to change, and repowering of projects may mean that the data contained in this table changes quickly. The Saint Francis University Institute for Energy may not be held responsible for inaccuracies. Please let the Institute know if you are aware of updated information.**

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