

Status of Windplants in the Mid-Atlantic States

1500 Industrial Wind Turbines in 34 Wind Energy Projects

plus

2400 Offshore Wind Turbines along Atlantic Coast

131 industrial wind turbines are currently operating, 462 turbines are permitted but not yet constructed, and another 900 turbines are proposed or planned throughout uplands of the region.

See attached map for locations of all operating, permitted and planned wind energy facilities (active projects only); projects are identified on map with the number shown along left indent of each facility's description (below).

December 27, 2004 [draft]

Compiled by D. Daniel Boone (ddanboone@yahoo.com)

PENNSYLVANIA – approx. 350 turbines in 20 projects

Operating Facility – 87 turbines in 5 projects [+ *expansion of 24 turbines planned*]

FPL Green Mountain (aka Garrett) 8 turbines (295-ft tall, 1.3 MW)

Garrett, Summit Township, Somerset County, operational since May 2000; located on a knoll in valley; source: <http://www.awea.org/projects/pennsylvania.html> &

#1 <http://www.disgenonline.com/greenmountain.htm>

FPL Somerset 6 turbines (330-ft tall)

Somerset, Somerset County, project operational since Oct. 2001; not on prominent ridge; source:

#2 http://www.atlantic-renewable.com/content/project_somerset.htm

FPL Mill Run 10 turbines (330-ft tall)

east edge of Fayette County; project operational since Oct. 2001, located atop prominent ridge; source:

#3 http://www.atlantic-renewable.com/content/project_millrun.htm

FPL Waymart 43 turbines (over 300-ft tall) – [**8 additional turbines planned**]

Canaan Township, Wayne County; project operational since Oct. 2003

source: slide 12 in <http://www.eere.energy.gov/greenpower/conference/7gpmc02/mcshea02.pdf> & http://www.fplenergy.com/portfolio/contents/portfolio_by_region.shtml#midatlantic

#4 & http://www.pjm.com/planning/project-queues/impact_studies/k21_imp.pdf

FPL Meyersdale 20 turbines (380-ft tall) – [**total of 36 turbines planned**]

Meyersdale, Summit Township, Somerset County - operational since Dec. 2003, located atop prominent ridge; source:

<http://www.windfair.net/press/00211.html> &

http://www.pjm.com/planning/project-queues/impact_studies/g21_imp.pdf &

#5 http://www.atlantic-renewable.com/content/project_meyersdale.htm

Planned Facility (Pennsylvania) – approx. 470 turbines in 15 active projects

US WindForce **Bent Tree** **unknown # of turbines [20?]**

near Wittenberg, Somerset County;

#7 source: <http://uswindforce.com/default.asp?pg=projects&pg2=3>

US WindForce **Brothers Valley** **10 turbines**

near Garrett, Somerset County (Brothers Valley Township?)

source: <http://uswindforce.com/default.asp?pg=projects&pg2=2> &

#8 slide 12 in <http://www.eere.energy.gov/greenpower/conference/7gpmc02/mcshea02.pdf>

DISGEN **Keystone Wind** **19? turbines**

near Somerset, Brothers Valley & Somerset Townships, Somerset Co.;

source: http://www.pjm.com/planning/project-queues/impact_studies/k10_imp.pdf &

http://www.pittsburghlive.com/x/tribune-review/specialreports/enterprise2002/s_18356.html

#9 & http://www.eere.energy.gov/pro/pdfs/john_hanger.pdf (slide 9)

Atlantic Renewable Energy **Casselman** **25 turbines?** (40 MW interconnection)

Rockwood, Somerset County; source:

http://www.pjm.com/planning/project-queues/feas_docs/l13_fea.pdf &

http://www.atlantic-renewable.com/projects_in_development.htm

#10 & slide #3: http://www.nationalwind.org/events/wildlife/200411/presentations/Cooper_Bats.pdf

Generation Resources Holding **Forward** **23 turbines**

Hooversville, Shade Township, Somerset County; 36 MW (23 x 1.6 MW turbines); source: <http://www.grhc.biz/pages/901273/index.htm> &

#11 http://www.pjm.com/planning/project-queues/impact_studies/k13_imp.pdf

Generation Resources Holding **Stonycreek** **36 turbines**

Stony Creek and Somerset Townships, Somerset County;

source: http://www.eere.energy.gov/pro/pdfs/john_hanger.pdf (slide 9) &

<http://www.grhc.biz/pages/901273/index.htm> &

#12 http://www.pjm.com/planning/project-queues/impact_studies/k12_imp.pdf

Borough of Berlin **Berlin** **3 turbines**

Brothers Valley, Somerset Co.; 1.5-MW turbines to service Borough residents

#13 source: <http://www.dep.state.pa.us/dep/deputate/pollprev/PEEC/2002grantees.htm>

Unknown Developer **Martindale** **unknown # of turbines [20?]**

east of Johnstown - near Martindale, Cambria County;

source: slide #3 in

#14 http://www.nationalwind.org/events/wildlife/200411/presentations/Cooper_Bats.pdf

Freedom Wind Energy **Springfield** **unknown # of turbines [10?]**

Springfield Township, Fayette County;

source: <http://www.actionpa.org/cleanenergy/wind.html> &

#15 <http://www.dailyamerican.com/articles/2004/10/13/news/news02.prt>

Freedom Wind Energy **Rock Run 200 turbines** (2 MW each)
Hastings, Chest Township, Cambria County; on public land - ATV recreation park (former strip mine); source: <http://www.postgazette.com/pg/04349/426568.stm> & **#16** <http://www.compositesnews.com/articles.asp?ArticleID=6974>

[Freedom Wind Energy **King's Mountain 7 turbines**
Scullton, Middlecreek Township, Somerset County; project withdrawn
source: PJM Queue L11 (Rockwood):
http://www.pjm.com/planning/project-queues/feas_docs/l11_fea.pdf &
<http://www.dailyamerican.com/articles/2004/10/13/news/news02.prt>]

[Unknown Developer **Chestnut Ridge 40 turbines?** (60 MW interconnection)
Loyalhanna – Bethlen area, Westmoreland County; **project withdrawn?**
source: <http://www.pjm.com/planning/project-queues/queue-l-withdrawn.jsp>]

Catamount Energy **Laurel Hill 36 – 46 turbines** (1.5-MW)
Jackson Township, Lycoming County; 70 MW
source: PJM Queue K02 - <http://www.pjm.com/planning/project-queues/queue-k.jsp> &
#17 http://www.catenergy.com/dev_projects/laurel_hill.html

Energy Unlimited **Mountaintop** (Mountain High?) **24? turbines**
Bear Creek Township, Luzerne County
source: slide 12 in
<http://www.eere.energy.gov/greenpower/conference/7gpmc02/mcshea02.pdf>
& http://www.eere.energy.gov/regions/mid-atlantic/pdfs/john_hanger.pdf (slide 9)
#18 & http://www.pjm.com/planning/project-queues/impact_studies/k03_imp.pdf

Wind Park Bear Creek, LLC **Bald Mountain 13 turbines**
Bear Creek Township, Luzerne County;
#19 source: http://www.pjm.com/planning/project-queues/facilities/l18_fac2.pdf

Community Energy **Bear Creek 14 turbines**
Bear Creek Township, Luzerne County;
source: <http://www.pjm.com/planning/project-queues/queue-l.jsp> & slide 12 in
#20 <http://www.eere.energy.gov/greenpower/conference/7gpmc02/mcshea02.pdf>

Unknown Developer **Frackville – Hauto #3 9 turbines?** (24 MW interconnection)
Frackville – Hauto area, Schuylkill County;
#21 source: <http://www.pjm.com/planning/project-queues/queue-n.jsp>

WEST VIRGINIA – approx. 850 turbines in 7 projects

Operating Facility – 44 turbines in 1 project

FPL **Mountaineer Wind Energy Center 44 turbines** (345-ft tall)
northwest of Thomas, Tucker County; operational since Dec. 2002, along Backbone Mountain; source: http://www.psc.state.wv.us/orders/2000_12/001209cb.htm
#6 http://www.atlantic-renewable.com/content/project_mountaineer.htm

Permitted Facility (but not constructed) – 366 turbines in 2 projects

US WindForce **Mt. Storm 166 turbines** (up to 465-ft tall)
Mount Storm, Grant & Tucker Counties - operating permit granted in August
#22 2002; source: http://uswindforce.com/documents/USWF_20020829.pdf

NedPower/Magellan **Allegheny Front (Mt. Storm) 200 turbines** (330-? feet tall)
Mount Storm, Grant County, WV - operating permit granted in April 2003,
source: http://www.psc.state.wv.us/orders/2003_06/021189cf.htm &
#23 http://www.eere.energy.gov/windpoweringamerica/pdfs/workshops/2003_wv/niessen.pdf

Planned Facility – 437 turbines in 4 active projects

Guascor **Rich Mountain 65 turbines**
Harman, Randolph County; project in early stages – landowner negotiations
underway in 2003; source:
#24 <http://www.wvhighlands.org/PressReleases/GuascorPressRelease012703.html>

US WindForce **Liberty Gap 112 turbines** [likely extending into Highland Co., VA]
Jack Mountain, Pendleton County; expected on-line Jan. 1, 2006
source: <http://www.uswindforce.com/default.asp?pg=projects&pg2=5>
#25 & http://www.pjm.com/planning/project-queues/impact_studies/i07_imp.pdf

Unknown Developer **McClung 130 turbines?** (200 MW interconnect)
Greenbrier County? (McClung substation in Greenbrier County); source:
#26 Queue N02_AEP139: <http://www.pjm.com/planning/project-queues/queue-n.jsp>

Unknown Developer **Grassy Falls 130 turbines?** (200 MW interconnect)
Greenbrier County? (Grassy Fall substation in Nicholas County);
#27 source: Queue M24: <http://www.pjm.com/planning/project-queues/queue-m.jsp>

[Atlantic Renewable Energy **Gauley Mountain unknown # of turbines [30?]**
near Slaty Fork in the Monongahela National Forest, Pocahontas and
Randolph Counties; source: p. 16 in <http://www.wvhighlands.org/VoiceMay04.pdf>
Project may be on-hold; no action taken to initiate an official review by NF]

[Dominion **Cabin Mountain 30 turbines** (350-ft tall)
Dolly Sods, Grant and Tucker Counties; project withdrawn - January 2003
(conflict with federal endangered species)
source: http://www.psc.state.wv.us/orders/2002_11/021295ca.htm]

MARYLAND – 215 turbines in 5 projects + 858 offshore turbines

Permitted Facility (but not constructed) – 91 turbines in 2 projects

US WindForce **Big Savage 24 turbines** (up to 460-ft tall)
Lonaconing, Allegany and Garrett Counties; permit granted in March 2003;
project on eastern shoulder of Big Savage Mountain – a continuation of
#28 Backbone Mountain; source: <http://www.uswindforce.com/default.asp?pg=projects&pg2=4>

Clipper WindPower **Criterion** (aka Allegheny Heights) **67 turbines** (394-feet tall)
east of Deer Park, Garrett County; permit granted in April 2003, along crest of
#29 Backbone Mountain; source: <http://www.marylandwind.org/criterionproject.html>

Proposed Facility – 124 turbines in 3 projects

Synergics **Roth Rock** **24 turbines** (1.6 MW turbines)
southern Garrett County, located along crest of Backbone Mountain; project
applied for MD PSC operating permit June 30, 2004
#30 source: <http://www.psc.state.md.us/psc/> – search case file #9008

US WindForce **Dan's Mountain** **80? turbines** (125 MW interconnection sought)
east of Frostburg, Allegany County - north end of Allegheny Front ridgeline;
project described on company's website is only 60 MW;
source: <http://www.uswindforce.com/default.asp?pg=projects&pg2=6>
#31 & <http://www.pjm.com/planning/project-queues/queue-n.jsp>

Synergics **Four-mile Ridge** **unknown # of turbines [20?]**
SW of Frostburg, Garrett County - atop foreridge of west slope of Big Savage
Mountain; project in early stages, landowner agreements being sought (2003)
#32 source: email from landowners who developer approached seeking leases

Offshore planned projects:

352 turbines http://www.winergyllc.com/isle_of_wight.shtml

506 turbines http://www.winergyllc.com/gulf_bank.shtml

VIRGINIA – 22 turbines in 1 project + 10-150 offshore turbines

Proposed Facility – 22 turbines in 1 active project

McBride family **Highland New Winds** **22 turbines** (1.6 MW, over 400-ft tall)
west of Monterey, Highland County; source: <http://johnrsweet.com/Personal/Wind/>
#33 & http://www.rurdev.usda.gov/rd/newsroom/2003/renew_en.html

[ProVento **Bay View** **6 turbines** (1.3 MW each) - project withdrawn
onshore at the Sustainable Technology Park in Northampton County;
source: <http://www.pjm.com/planning/project-queues/queue-g-withdrawn.jsp>]

Offshore planned projects:

Winergy **Smith Island** **10 - 150? offshore turbines**
over 3.5 miles offshore of Northampton County; status unsure; source:
<http://www.thehilltoponline.com/news/2003/11/25/NationWorld/Company.Downscaling.Wind.Energy.Farm.Proposal.For.Approval-567684.shtml> &
http://www.winergyllc.com/smith_island.shtml

NEW JERSEY – 5 turbines in 1 project + 1086 offshore turbines

Permitted Facility (but not constructed) – 5 turbines in 1 project

Community Energy **Atlantic City** **5 turbines** (300 ft. tall)

#34 inland site; source: http://www.newwindenergy.com/windfarm_jersey.html

Offshore planned projects:

98 turbines http://www.winergyllc.com/asbury_park.shtml

122 turbines http://www.winergyllc.com/great_egg.shtml

335 turbines http://www.winergyllc.com/five_fathom_bank_1.shtml

196 turbines http://www.winergyllc.com/five_fathom_bank_2.shtml

268 turbines http://www.winergyllc.com/five_fathom_bank_3.shtml

67 turbines http://www.winergyllc.com/jones_beach.shtml

1086 total

DELAWARE – 306 offshore turbines

Offshore planned projects:

306 turbines http://www.winergyllc.com/indian_river.shtml

Map showing locations of 34 existing and planned wind energy facilities on upland areas of the Mid-Atlantic states

Legend

-  Wind Class 3
-  Wind Class 4+
-  Operating Wind Plant
131 turbines - 6 projects
-  Permitted Wind Plant
462 turbines - 5 projects
-  Planned Wind Plant
approx. 950 turbines - 23 projects

Map by Dan Boone, 12/27/04

Within a 70-mile radius circle that contains the Allegheny Highlands regions of VA, WV, MD and PA there are currently 88 operating and 457 permitted (approved but not yet built) wind turbines. Plus, an additional 480 industrial wind turbines are proposed or planned and could be constructed within a year or two.

