



AWEA 2007 Market Report

January 2008

Shattering all its previous records, the U.S. wind energy industry installed over 5,000 megawatts (MW) in 2007. The new installations expand the nation's total wind power generating capacity by 45% in a single year, bringing the U.S. total installed wind power capacity to over 16,800 MW.



New Wind Power Projects, completed through the end of December 2007

Table 1 lists new wind power projects that have been brought on-line and commissioned this year, as reported to AWEA by its project developer and manufacturer member companies. Project commissioning data is at discretion of project owner. Results are preliminary.

State	Project Name	Capacity (in MW)	Number of Turbines	Turbine Rating (in MW)	Turbine Manufacturer	Project Developer	Owner/Equity Partner	Power Purchaser
Q1 2007		124	84					
Hawaii	Pakini Nui	21	14	1.5	GE Energy	Apollo Power Corp.	Apollo Power Corp./GE Energy Financial Services	Hawaiian Electric Co.
Maine	Mars Hill (1Q07)	33	22	1.5	GE Energy	UPC Wind	UPC Wind/JP Morgan Capital & WFC Holdings Corp.	
Oklahoma	Centennial (1Q07)	60	40	1.5	GE Energy	Chermac Energy Group/Invenergy	Oklahoma Gas & Electric	Oklahoma Gas & Electric
Texas	JD Wind VI	10	8	1.25	Suzlon	John Deere Wind	John Deere Wind	
Q2 2007		1095.5	650					
Colorado	Twin Buttes	75	50	1.5	GE Energy	PPM Energy	PPM Energy	Xcel Energy
Illinois	GSG Wind Farm	80	40	2	Gamesa	FPC Wind	Babcock & Brown Wind Partners	Exelon
Illinois	Twin Groves I	198	120	1.65	Vestas	Horizon	Horizon	
Iowa	Cross Winds	21	10	2.1	Suzlon	community/Edison Mission Group	community/Edison Mission Group	CornBelt Group
Iowa	Hardin-Hilltop	14.7	7	2.1	Suzlon	community/Edison Mission Group	community/Edison Mission Group	Alliant Energy
Minnesota	Wing River Wind	2.5	1	2.5	Nordex	Wing River Wind	Wing River Wind	Minnesota Power
New York	Steel Winds	20	8	2.5	Clipper	UPC/BQ Energy	UPC/BQ Energy	
Pennsylvania	Allegheny Ridge	80	40	2	Gamesa	Gamesa Energy	Babcock & Brown Wind Partners	First Energy

New Wind Power Projects, completed through the end of December 2007 (continued)

State	Project Name	Capacity (in MW)	Number of Turbines	Turbine Rating (in MW)	Turbine Manufacturer	Project Developer	Owner/Equity Partner	Power Purchaser
Texas	Camp Springs	130.5	87	1.5	GE Energy	Invenergy	Invenergy	market
Texas	Lone Star 1 (2Q07)	72	36	2	Gamesa	RES Americas / Horizon	Horizon	Direct Energy
Texas	Sweetwater IVa	135	135	1	Mitsubishi	DKRW Wind/Babcock & Brown/Catamount Energy	Babcock & Brown/Catamount Energy	CPS Energy
Texas	Sweetwater IVb	105.8	46	2.3	Siemens	DKRW Wind/Babcock & Brown/Catamount Energy	Babcock & Brown/Catamount Energy	CPS Energy
Texas	Wildorado	161	70	2.3	Siemens	Edison Mission Group/Cielo	Edison Mission Group/Cielo	Xcel Energy (Southwestern Public Service)
Q3 2007		1095.16	645					
Colorado	Peetz Table (3Q07)	264	176	1.5	GE Energy	FPL Energy/Invenergy	FPL Energy/Invenergy	Xcel Energy
Illinois	Turbine ADAM	2.5	1	2.5	Clipper	FPC/GSG Wind	GSG 3, LLC	ComEd
Iowa	Endeavor (3Q07)	25	10	2.5	Clipper	Clipper/FPL Energy	FPL Energy	
Iowa	Iowa State Fair	0.66	1	0.66	Vestas	enXco	MidAmerican Energy	MidAmerican Energy
Massachusetts	Jiminy Peak Ski Resort	1.5	1	1.5	GE Energy	Jiminy Peak/Sustainable Energy Developments	Jiminy Peak	Jiminy Peak
Missouri	Bluegrass Ridge	56.7	27	2.1	Suzlon	Wind Capital Group	John Deere Wind	Associated Electric Cooperative Inc.
Texas	Buffalo Gap, phase II	232.5	155	1.5	GE Energy	AES	AES	Direct Energy

New Wind Power Projects, completed through the end of December 2007 (continued)

State	Project Name	Capacity (in MW)	Number of Turbines	Turbine Rating (in MW)	Turbine Manufacturer	Project Developer	Owner/Equity Partner	Power Purchaser
Texas	Capricorn Ridge (3Q07)	117	78	1.5	GE Energy	FPL Energy	FPL Energy	
Texas	Capricorn Ridge (3Q07)	144.9	63	2.3	Siemens	FPL Energy	FPL Energy	
Texas	Lone Star I (3Q07)	110	55	2	Gamesa	RES Americas / Horizon	Horizon	Direct Energy
Washington	Marengo	140.4	78	1.8	Vestas	RES Americas	PacifiCorp	PacifiCorp
Q4 2007		2929.7	1809					
California	Solano Wind Project	63	21	3	Vestas	Sacramento Municipal Utility District	Sacramento Municipal Utility District	Sacramento Municipal Utility District
Colorado	Peetz Table (4Q07)	136.5	91	1.5	GE Energy	FPL Energy/Invenergy	FPL Energy	Xcel Energy
Colorado	Cedar Creek (4Q07)	79.5	53	1.5	GE Energy	Babcock & Brown/BP America	Babcock & Brown/BP America	Xcel Energy
Colorado	Cedar Creek (4Q07)	221	221	1	Mitsubishi	Babcock & Brown/BP America	Babcock & Brown/BP America	Xcel Energy
Illinois	Camp Grove	150	100	1.5	GE Energy	OEG (Orion Energy Group)	OEG (Orion Energy Group)	AEP - Appalachian Power
Illinois	Twin Groves II (4Q07)	161.7	98	1.65	Vestas	Horizon	Horizon	Constellation Energy
Iowa	Pomeroy I	123	82	1.5	GE Energy	enXco	MidAmerican Energy	MidAmerican Energy
Iowa	Pomeroy II (4Q07)	73.5	49	1.5	GE Energy	enXco	MidAmerican Energy	MidAmerican Energy

New Wind Power Projects, completed through the end of December 2007 (continued)

State	Project Name	Capacity (in MW)	Number of Turbines	Turbine Rating (in MW)	Turbine Manufacturer	Project Developer	Owner/Equity Partner	Power Purchaser
Iowa	Century expansion (4Q07)	4.5	3	1.5	GE Energy	MidAmerican Energy	MidAmerican Energy	MidAmerican Energy
Iowa	Top of Iowa II	80	40	2	Gamesa	MRE-Iberdrola	MRE-Iberdrola	
Minnesota	Fenton Wind Power Project	205.5	137	1.5	GE Energy	enXco	enXco	Xcel Energy
Minnesota	MinnDakota Wind Farm	96	64	1.5	GE Energy	PPM Energy	PPM Energy	Xcel Energy
Minnesota	Prairie Star	100.65	61	1.65	Vestas	Horizon	Horizon	Great River Energy
New York	Munnsville	34.5	23	1.5	GE Energy	Airtricity	Airtricity	Coral Energy
North Dakota	Langdon Wind Project (4Q07)	118.5	79	1.5	GE Energy	FPL Energy	FPL Energy	Otter Tail Power/ Minnkota Power Cooperative
North Dakota	Oliver II	48	32	1.5	GE Energy	FPL Energy	FPL Energy	Minnesota Power
Oklahoma	Sleeping Bear	94.5	45	2.1	Suzlon	Edison Mission Group/ Chermac Energy Corp.	Edison Mission Group	American Electric Power (Public service of Oklahoma)
Oregon	Klondike III (GE Energy)	120	80	1.5	GE Energy	PPM Energy	PPM Energy	PG&E/PSE/EWEB/ BPA
Oregon	Klondike III (Siemens)	101.2	44	2.3	Siemens	PPM Energy	PPM Energy	PG&E/PSE/EWEB/ BPA
Oregon	Biglow Canyon, phase I	125.4	76	1.65	Vestas	Orion Energy/Portland General Electric	Portland General Electric	Portland General Electric

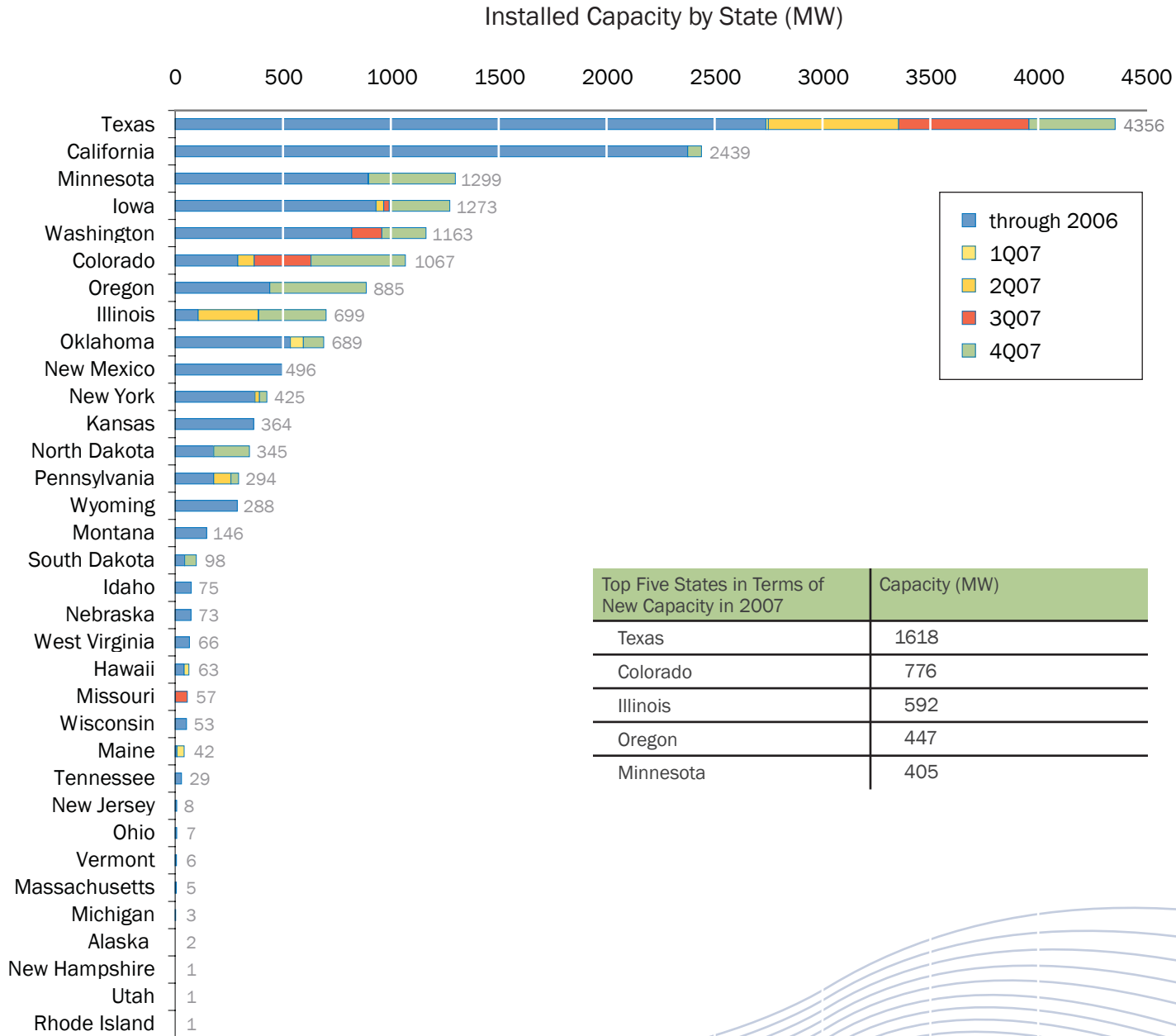
New Wind Power Projects, completed through the end of December 2007 (continued)

State	Project Name	Capacity (in MW)	Number of Turbines	Turbine Rating (in MW)	Turbine Manufacturer	Project Developer	Owner/Equity Partner	Power Purchaser
Oregon	Elkhorn Valley Wind Farm	100.65	61	1.65	Vestas	Horizon	Horizon	Idaho Power
Pennsylvania	Casselman Wind Project	34.5	23	1.5	GE Energy	PPM Energy	PPM Energy	First Energy
South Dakota	MinnDakota Wind Farm	54	36	1.5	GE Energy	PPM Energy	PPM Energy	Xcel Energy
Texas	Camp Springs II (4Q07)	31.5	21	1.5	GE Energy	Invenergy	Invenergy	
Texas	Capricorn Ridge (4Q07)	97.5	65	1.5	GE Energy	FPL Energy	FPL Energy	
Texas	Capricorn Ridge (4Q07)	4.6	2	2.3	Siemens	FPL Energy		
Texas	Lone Star I (4Q07)	18	9	2	Gamesa	Horizon		Direct Energy
Texas	Lone Star II (4Q07)	44	22	2	Gamesa	Horizon		
Texas	Snyder	63	21	3	Vestas	Windkraft Nord/Enel North America	Enel North America	
Texas	Sweetwater V	80.5	35	2.3	Siemens	DKR/Babcock & Brown/ Catamount Energy	Babcock & Brown/Catamount Energy	market (merchant)
Texas	Whirlwind Energy Center	59.8	26	2.3	Siemens	RES Americas	RES Americas	Austin Energy Center
Washington	White Creek Wind Power Project	204.7	89	2.3	Siemens	Last Mile Electric Cooperative	Last Mile Electric Cooperative	Last Mile Electric Cooperative

Completed in 2007	5244	3188
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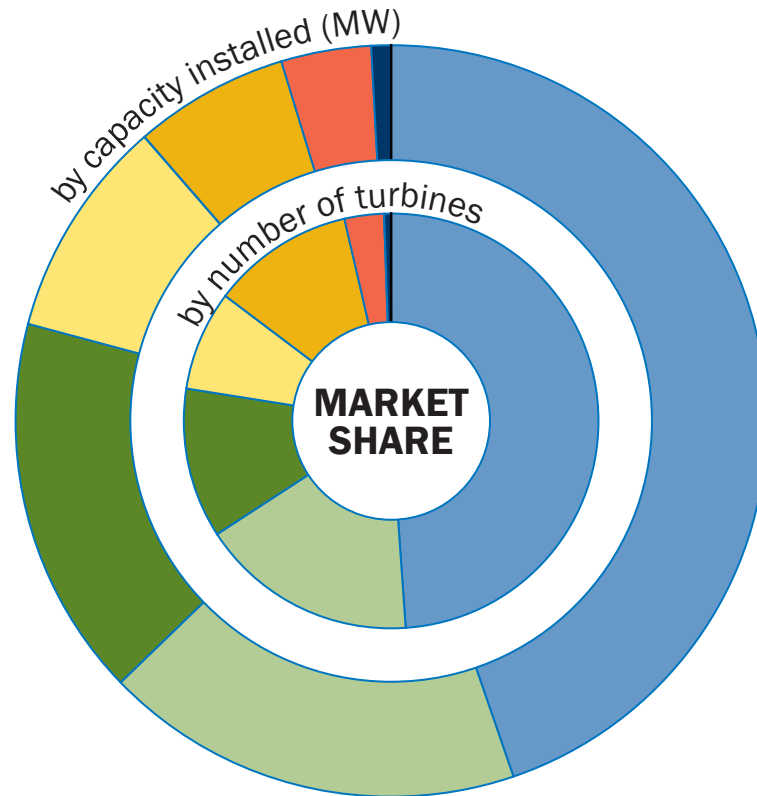
Installed Capacity by State

Chart 2 illustrates the rankings of wind power capacity all states with “utility sized” wind turbines. AWEA considers “utility-sized” to be all wind turbines with generators 100-kilowatt (kW) in size or larger.



Market Share of Wind Turbine Manufacturers

Chart 2 shows the market share of wind turbines manufacturers in terms of capacity and number of turbines commissioned in 2007. Project commissioning numbers are determined by project owners. There can sometimes be discrepancies between number of turbines commissioned as defined by the turbine vendor and as defined by the project owner.



Installed in 2007

Company	MW	Turbines
GE Energy	2,342	1,561
Vestas	953	537
Siemens	863	375
Gamesa	484	242
Mitsubishi Power Systems	356	356
Suzlon	197	97
Clipper	48	19
Nordex	2.5	1

Wind Power Projects, currently under construction

Table 2 lists wind power projects that are under construction, as reported to AWEA by its project developer member companies. AWEA will report project numbers quarterly in 2008. Reporting under construction projects is at the discretion of the project developer. This is, therefore, not necessarily a comprehensive list of wind power plants currently under construction.

State	Project Name	Capacity (in MW)	Number of Turbines	Turbine Rating (in MW)	Turbine Manufacturer	Project Developer	Power Purchaser
Under Construction		3520.3	2038				
California	Dillon	45	45	4	Mitsubishi	PPM Energy	PPM Energy
Illinois	Providence Heights	72	36	2	Gamesa	MRE-Iberdrola	n/a
Illinois	Twin Groves II (08)	36.6	22	1.65	Vestas	Horizon	Constellation Energy
Indiana	Benton County Wind Farm	130.5	87	1.5	GE Energy	BP Wind	Duke Energy Indiana
Iowa	Century expansion (08)	10.5	7	1.5	GE Energy	MidAmerican	MidAmerican
Iowa	Endeavor (08)	75	30	2.5	Clipper	FPL Energy	FPL Energy
Iowa	Pomeroy II (08)	1.5	1	1.5	GE Energy	enXco	MidAmerican
Iowa	Top of Iowa III	29.7	18	1.65	Vestas	Madison Gas & Electric	Madison Gas & Electric
Kansas	Smoky Hills	100.8	56	1.8	Vestas	Enel North America, Inc.	Sunflower Electric/Midwest Energy/ BPU
Kansas	Central Plains	99	33	3	Vestas	RES Americas	Westar Energy
Kansas	Meridian Way	201	67	3	Vestas	Horizon	Westar Energy
Michigan	Harvest Wind Farm	52.8	32	1.65	Vestas	John Deere Wind	Wolverine Power Cooperative
Minnesota	Cisco	8.4	4	2.1	Suzlon	community/John Deere Wind	n/a
Minnesota	Ewington	20	10	2	Suzlon	community/John Deere Wind	n/a

Wind Power Projects, currently under construction

Minnesota	Marshall	18	9	2	Suzlon	community/John Deere Wind	n/a
Missouri	Conception	50.4	24	2.1	Suzlon	Wind Capital Group/John Deere Wind	Associated Electric Cooperative
Missouri	Cow Branch	50.4	24	2.1	Suzlon	Wind Capital Group/John Deere Wind	Associated Electric Cooperative
Missouri	Loess Hill	5	4	1.25	Suzlon	Wind Capital Group/John Deere Wind	Missouri Public Utility Alliance
Montana	Diamond Willow Wind	19.5	13	1.5	GE Energy	MDU Utilities	MDU Utilities
New York	Noble Bliss	100.5	67	1.5	GE Energy	Noble Environmental	n/a
New York	Noble Clinton	100.5	67	1.5	GE Energy	Noble Environmental	n/a
New York	Noble Ellenburg	81	54	1.5	GE Energy	Noble Environmental	n/a
North Dakota	Langdon (08)	40.5	27	1.5	GE Energy	FPL Energy	Otter Tail Power for 60 MW/Minnkota Power Cooperative for 99 MW
North Dakota	Tatanka	90	60	1.5	Acciona	Acciona	n/a
South Dakota	Tatanka	90	60	1.5	Acciona	Acciona	n/a
Texas	Barton Chapel	120	60	2	Gamesa	Gamesa	n/a
Texas	Camp Springs II (08)	88.5	59	1.5	GE Energy	Invenergy	n/a
Texas	Champion	126.5	55	2.3	Siemens	Airtricity	n/a
Texas	Goat Mountain Phase I	80	80	1	Mitsubishi	Cielo/Edison Mission Group	n/a
Texas	Goat Mountain Phase II	69.6	29	2.4	Mitsubishi	Cielo/Edison Mission Group	n/a

Wind Power Projects, currently under construction

Texas	Hackberry	166	72	2.3	Siemens	RES Americas	Austin Energy
Texas	JD IV	79.8	38	2.1	Suzlon	John Deere Wind	n/a
Texas	JD IX - JD XII	40	32	1.25	Suzlon	John Deere Wind	n/a
Texas	Lone Star II (08)	156	78	2	Gamesa	RES Americas/Horizon	n/a
Texas	Roscoe	209	209	1	Mitsubishi	Airtricity	TXU Energy
Texas	Sand Bluff	90	45	2	Gamesa	Airtricity	n/a
Texas	Silver Star	60	24	2.5	Clipper	BP Wind/Clipper	n/a
Texas	Stanton	111	74	1.5	GE Energy	Invenergy	market
Washington	Goodnoe	94	47	2	REpower	Northwest Windpower (enXco/ Power Holdings)	PacifiCorp
Washington	Nine Canyon III	32.2	14	2.3	Siemens	Energy Northwest	Energy Northwest
West Virginia	Shell Mount Storm	164	82	2	Gamesa	Shell Wind/Dominion Energy	Dominion
Wisconsin	Blue Sky - Green Field	145.2	88	1.65	Vestas	We Energies	We Energies
Wisconsin	Forward	99	66	1.5	GE Energy	Invenergy	Alliant/Wisconsin Public Service/ Madison Gas & Electric/Wisconsin Public Power Inc.
Wyoming	Mountain Wind I	60.9	29	2.1	Suzlon	Edison Mission Group	PacifiCorp

Project Definitions

Definitions (the last two – web link and WEW reference – are not currently being used in the report, and therefore will come out of the definitions for now).

Term	Abbrev.	Description	Information Source
Capacity (in Megawatts)	MW	Total nameplate capacity rating of assembly of turbines	Information as received from project developer at end of each quarter.
Completion Date		Date on which wind project is considered to be operational. Usually "Commercial Operation Date".	Specific criteria for "Completion" is at the discretion of the project developer.
Merchant or "market"		Wind power plants that are built without a traditional long-term power purchase agreement, instead selling power into a spot-market, sometimes with a hedge contract, or an option to sell the power at a certain price in the future.	Project developer or owner
Owner/Equity Partner		Company or companies that will have a managing interest in project when it is complete, though they may not have 100% ownership. Does not usually include structural equity investors.	Project developer or owner
Power Purchaser		Utility contracted to purchase power under long-term Power Purchase Agreement (PPA) contract or use the power in case of utility ownership	project developer or power purchaser
Project Developer		Company or companies managing most aspects of project development process. Is often a joint effort among several companies.	project developer
Project Name		Name supplied by project developer	project developer
Turbine Manufacturer		Turbine vendor or supplier	project developer or turbine manufacturer
Turbine Rating (in Megawatts)	MW	Nameplate capacity rating of each turbine – typically the maximum potential power output of the turbine generator	project developer