Country of Origion	Model of windmill Wind Turbine Model	Conversion Diameter Meter	Hight ft.	Conversion Diameter Feet	d*d*.78540* Area blade area feet	Area blade area meter	Blade Area compare to 56/100	Blade area 0.56 Rounded	Tip speed=d*3.14* rpm*60/5280 Tip MPH	RPM	search meter	search feet dia.
USA US Windpower	Kenetec 56/100 kw	17.00	88.00	55.70	2436.70	226.98	1.00	1 to 1	143.10	72.00	50.00	164.04
USA	Flowwind 56/150 kw	17.07		56.00	2463.01	228.82	1.01	1 to 1			50.00	164.04
USA	Flowwind 56/250 kw	18.90		62.00	3019.08	280.48	1.24	1.25 to 1			50.00	164.04
Denmark	Nordtank 65kw	15.84		52.00	2123.72	197.06	0.87	1 to 1			50.00	164.04
Neitherlands	Windmaster 75kw	21.95		72.00	4071.51	378.26	1.67	1.50 to 1			50.00	164.04
Neitherlands	Windmaster 200 kw	21.95		72.00	4071.51	378.26	1.67	1.50 to 1			50.00	164.04
Neitherlands	Windmaster 250 kw	23.16		76.00	4536.47	421.45	1.86	1.75 to 1			50.00	164.04
Neitherlands	Windmaster 300 kw	24.99		82.00	5281.03	490.63	2.17	2 to 1			50.00	164.04
USA Kenetech	KVS-33	33.20	429.78	108.92	9318.27	865.70	3.82	4 to 1	111.93	28.80	50.00	164.04
Danmark	Vestas V47 660 kw	47.00	241.14	154.20	18674.76	1734.95	7.66	7.5 to 1	156.81	28.50	75.00	246.06
Japan	Mitsubishi 1000A	61.40	278.00	201.44	31870.02	2960.93	13.08	13 to 1	204.85	19.50	75.00	246.06
India, Magarpatta	Suzlon S97 2.1 MW	97.00	454.00	318.24	79542.72	7389.83	32.64	32 to 1	185.09	16.30	?	?
China, Bejing	Goldwind GW 121 3MW	121.00	495.00	396.98	123773.64	11499.04	50.80	50 to 1	191.23	13.50	?	?
German, Hamburg	Siemans 2.3 MW	101.00	427.50	331.36	86236.49	8011.87	35.39	35 to 1	189.18	16.00	?	
German, Hamburg	Siemans SWT-2.3MW	120.00	499.00	393.70	121736.76	11309.76	49.83	50 to 1	175.60	12.50	?	
Denmark	Vesta V90-3MW	90.00	410.00	295.00	68349.44	6361.74	27.80	28 to 1	169.47	16.10		

Project Name	CPU #	# to replace	MW	area of sweep	new sweep / old sweep Area Swap	rounded Same Sweep	Area increase	Same as 56/100	Blade sweep meter / per kw	Blade Sweep Ft /per kw	Decrease effectiveness	X increase Blade Kill?	MW increase
Golden Hill North 56/100	PLN 2015-00157	324.00	32.40	789489.39	9.93	10.00			2.27	2.44			
Golden Hill North S97 2.1	PLN 2015-00157	24.00	50.40	1909025.24			1119535.85	783.45	3.52	3.79		142%	18.00
												1119535.85	
Summit 56/100	PLN 2014-00056	569.00	56.90	1386479.82	17.43	17.00			2.27	2.44			
Summit S97 2.1	PLN 2014-00056	33.00	69.30	2624909.70			1238429.88	1077.24	3.52	3.79		89%	12.40
												1238429.88	
Sand Hills 5 different windmills	PLN 2015-00198	433.00	43.30	836861.00	10.52	13.00			2.27	2.44			
Sand Hills Goldwind 3MW	PLN 2015-00198	12.00	36.00	1485283.64			648422.64	609.55	3.52	4.13		77%	-7.30
												648422.64	
Golden Hills S 56/100	PLN2014-00032	775.00	77.50	1888439.13	23.74	23.00			2.27	2.44			
Golden Hills S97 2.1	PLN2014-00032	52.00	109.20	4136221.35			2247782.23	1697.47	3.52	3.79		119%	31.70
												2247782.23	
Patterson Pass Nordtank	PLN2012-00214	336.00	21.84	713570.46	8.97	10.00		Nordtank	3.27	3.27			
Patterson Pass S97 2.1	PLN2012-00214	12.00	25.20	954512.62			240942.16	449.45	3.52	3.79		34%	3.36
												240942.16	
Buena Vista Windmaster 75kw		5.00	0.38	20357.57									
Buena Vista Windmaster 200 kw		129.00	25.80	525225.25				Replacement sweep					
Buena Vista Windmaster 250 kw		30.00	7.50	136094.11				like 284 windmaste					
Buena Vista Windmaster 300 kw		15.00	4.50	79215.44				is same as 284.9					
total		179.00	38.18	760892.38	23.87		4250.80	4250.80	1.89	2.04			
Mitsubishi 1000A		38.00	38.00	1211060.72		24.00	450168.34	284.90	2.96	3.19		59%	-0.17
												450168.34	
Diallo Winds Flowind 56/150		148.00	22.20	364526.13				replacement sweep					
Diallo Winds Flowind 56/250		21.00	5.25	63400.63				like 229 flowind					
total		169.00	27.45	427926.76	22.91		2532.11	3019.08	1.53	1.64			
Vestas V47 660 kw		31.00	20.46	578917.45		23.00	150990.69	228.63	2.63	2.83		35%	-6.99
												150990.69	
Vasco Winds 56/100		726.00	72.60	1769041.04					2.27	2.44			
Vasco Winds 33.2/400		20.00	8.00	186365.45					2.16	2.33			
		746.00	80.60	1955406.49	22.67				3.30	3.55			
Siemans 2.3		34.00	78.20	2932040.58		23.00	976634.10		3.48	3.75		50%	-2.40
												976634.10	