

# Samples of typical operation of the ANew-S1 VAWT.

**Important Information:** ANew-S1 turbine converts wind energy from the volume of air located in the cylinder described by the blades. The surface area of this cylinder is 3.1416 times larger than the swept area (for explanations see the "GALLERY & INFO" section of the ANew Institute website).

A. 08/21/2012 - an episode of 31 minutes. Turbine optimized for low wind speeds from 2.5 m/s to 4.5 m/s. The wind is stable with very low turbulence intensity. Air temperature + 28 ° C. The density of air is 1.1954 kg / m<sup>3</sup>. Wind speed taken at the height of the center of the turbine. WPP starts generating electricity at a turbine speed of 35 RPM. Energy Losses – energy used by wind turbines own sub-systems.

Time (31 minutes)	Time of Action	Average wind speed	RPM of turbine	Power of wind	Power from generator	Power to grid	Losses of power	Coefficient of conversion generator / grid
08:57:19 – 08:58:18	1 min. 00 sec	3.66 m/s	55.23	1013.9 W	1125.7 W	906.3 W	219.4 W	111.03 % / 89.39 %
08:58:19 – 08:59:18	1 min. 00 sec	3.94 m/s	54.37	1264.9 W	1043.8 W	827.8 W	216.0 W	82.52 % / 65.44 %
08:59:19 – 09:00:18	1 min. 00 sec	4.18 m/s	54.00	1510.4 W	1002.8 W	788.3 W	214.5 W	66.39 % / 52.19 %
09:00:19 – 09:01:18	1 min. 00 sec	3.35 m/s	51.82	777.5 W	814.6 W	612.7 W	201.9 W	104.77 % / 78.80 %
09:01:19 – 09:02:18	1 min. 00 sec	4.03 m/s	55.40	1353.6 W	1156.2 W	936.1 W	220.1 W	85.42 % / 69.16 %
09:02:19 – 09:03:18	1 min. 00 sec	3.74 m/s	56.85	1081.9 W	1327.0 W	1101.1 W	225.9 W	122.65 % / 101.77 %
09:03:19 – 09:04:18	1 min. 00 sec	3.50 m/s	60.73	886.7 W	1856.3 W	1614.9 W	241.4 W	209.35 % / 182.12 %
09:04:19 – 09:05:18	1 min. 00 sec	3.22 m/s	58.52	690.4 W	1509.1 W	1276.4 W	232.7 W	218.58 % / 184.88 %
09:05:19 – 09:06:18	1 min. 00 sec	3.60 m/s	59.03	964.9 W	1582.1 W	1347.5 W	234.6 W	163.97 % / 139.65 %
09:06:19 – 09:07:18	1 min. 00 sec	3.14 m/s	57.27	640.3 W	1355.2 W	1127.6 W	227.6 W	211.65 % / 176.10 %
09:07:19 – 09:08:18	1 min. 00 sec	3.50 m/s	54.82	886.7 W	1075.4 W	857.5 W	217.9 W	121.28 % / 96.71 %
09:08:19 – 09:09:18	1 min. 00 sec	3.26 m/s	53.82	716.5 W	986.6 W	773.8 W	212.8 W	137.70 % / 108.00 %
09:09:19 – 09:10:18	1 min. 00 sec	2.48 m/s	49.72	315.4 W	653.1 W	467.3 W	185.8 W	207.07 % / 148.16 %
09:10:19 – 09:11:18	1 min. 00 sec	3.56 m/s	49.00	933.0 W	756.8 W	691.3 W	65.5 W	81.14 % / 74.09 %
09:11:19 – 09:12:18	1 min. 00 sec	4.54 m/s	52.53	1935.2 W	1201.6 W	1069.9 W	131.7 W	62.09 % / 55.29 %
09:12:19 – 09:13:18	1 min. 00 sec	4.20 m/s	54.13	1532.2 W	1398.4 W	1256.3 W	142.1 W	91.27 % / 81.99 %
09:13:19 – 09:14:18	1 min. 00 sec	3.87 m/s	53.15	1198.6 W	1251.2 W	1082.3 W	168.9 W	104.39 % / 90.30 %
09:14:19 – 09:15:18	1 min. 00 sec	3.29 m/s	51.80	736.5 W	1075.2 W	879.5 W	195.7 W	145.99 % / 119.42 %
09:15:19 – 09:16:18	1 min. 00 sec	2.95 m/s	48.83	530.9 W	738.9 W	583.4 W	155.5 W	139.18 % / 109.89 %
09:16:19 – 09:17:18	1 min. 00 sec	2.88 m/s	46.87	494.0 W	563.4 W	503.4 W	60.0 W	114.05 % / 101.90 %
09:17:19 – 09:18:18	1 min. 00 sec	3.49 m/s	49.90	879.1 W	831.5 W	643.0 W	188.5 W	94.59 % / 73.14 %
09:18:19 – 09:19:18	1 min. 00 sec	4.49 m/s	52.37	1872.0 W	1715.1 W	1507.1 W	208.0 W	91.62 % / 80.51 %
09:19:19 – 09:20:18	1 min. 00 sec	3.68 m/s	51.73	1030.6 W	1058.8 W	853.3 W	205.5 W	102.74 % / 82.80 %
09:20:19 – 09:21:18	1 min. 00 sec	4.17 m/s	50.43	1499.6 W	880.5 W	685.2 W	195.3 W	58.72 % / 45.69 %
09:21:19 – 09:22:18	1 min. 00 sec	3.71 m/s	48.95	1056.0 W	753.9 W	598.0 W	155.9 W	71.39 % / 56.63 %
09:22:19 – 09:23:18	1 min. 00 sec	3.80 m/s	50.28	1134.8 W	951.6 W	760.9 W	190.7 W	83.86 % / 67.05 %
09:23:19 – 09:24:18	1 min. 00 sec	3.73 m/s	48.97	1073.2 W	794.2 W	638.2 W	156.0 W	74.00 % / 59.47 %
09:24:19 – 09:25:18	1 min. 00 sec	4.42 m/s	51.33	1785.8 W	1074.1 W	870.2 W	203.9 W	60.14 % / 48.73 %
09:25:19 – 09:26:18	1 min. 00 sec	2.72 m/s	51.72	416.2 W	724.2 W	518.8 W	205.4 W	174.00 % / 124.65 %
09:26:19 – 09:27:18	1 min. 00 sec	2.55 m/s	50.43	342.9 W	624.5 W	424.2 W	200.3 W	182.12 % / 123.71 %
09:27:19 – 09:28:18	1 min. 00 sec	2.53 m/s	49.20	334.9 W	528.1 W	371.4 W	156.7 W	157.69 % / 110.90 %
Average for 31 minutes		<b>3.55 m/s</b>	<b>52.68</b>	<b>996.4 W</b>	<b>1045.5 W</b>	<b>857.2 W</b>	<b>188.3 W</b>	<b>120.37 % / 96.73 %</b>

In the absence of turbulence with an average annual wind speed of ~ 3.55 m / s, WPP ANew-S1 is able to generate about 8-9 MWh of electricity during the year and deliver about 6.5-7.5 MWh to the grid.

**B. 10/23/2014 - An episode of 37 minutes. Turbine optimized for average wind speeds**

(from 4.0m / s to 6.0m / s). The wind is stable (from 3.5m / s to 5.75m / s) with a middle turbulence intensity.

Air temperature is + 15 ° C. Air density is 1.225 kg / m<sup>3</sup>. Wind speed - at the height of the center of the turbine.

WPP starts generating electricity at a turbine speed of 35 RPM. Losses – energy used by wind turbines own sub-systems.

Time (37 minutes)	Time of Action	Average wind speed	RPM of turbine	Power of wind	Power from generator	Power to grid	Losses of power	Coefficient of conversion generator / grid
08:47:25 – 08:48:24	1 min. 00 sec	4.75 m/s	50.45	2271.2 W	1526.3 W	1281.0 W	245.3 W	67.20 % / 56.40 %
08:48:25 – 08:49:24	1 min. 00 sec	4.96 m/s	49.65	2585.0 W	1464.1 W	1222.7 W	241.4 W	56.62 % / 47.30 %
08:49:25 – 08:50:24	1 min. 00 sec	4.58 m/s	47.60	2036.0 W	1190.0 W	981.4 W	208.6 W	58.45 % / 48.20 %
08:50:25 – 08:51:24	1 min. 00 sec	5.15 m/s	52.33	2894.7 W	1774.0 W	1528.4 W	245.6 W	61.28 % / 52.80 %
08:51:25 – 08:52:24	1 min. 00 sec	5.16 m/s	53.68	2911.6 W	1954.0 W	1684.2 W	269.8 W	67.11 % / 57.84 %
08:52:25 – 08:53:24	1 min. 00 sec	4.33 m/s	45.40	1720.5 W	1012.6 W	847.1 W	165.5 W	58.85 % / 49.24 %
08:53:25 – 08:54:24	1 min. 00 sec	3.70 m/s	41.95	1073.5 W	687.1 W	525.2 W	161.9 W	64.01 % / 48.49 %
08:54:25 – 08:55:24	1 min. 00 sec	5.28 m/s	50.58	3119.5 W	1600.8 W	1354.9 W	245.9 W	51.32 % / 43.43 %
08:55:25 – 08:56:24	1 min. 00 sec	5.70 m/s	56.68	3924.7 W	2587.7 W	2319.2 W	268.5 W	65.93 % / 59.09 %
08:56:25 – 08:57:24	1 min. 00 sec	4.35 m/s	48.93	1744.4 W	1361.2 W	1129.0 W	241.2 W	78.03 % / 64.72 %
08:57:25 – 08:58:24	1 min. 00 sec	5.06 m/s	49.00	2745.6 W	1519.1 W	1275.3 W	243.8 W	55.33 % / 46.45 %
08:58:25 – 08:59:24	1 min. 00 sec	5.44 m/s	51.05	3411.8 W	1734.0 W	1485.8 W	248.2 W	50.82 % / 43.55 %
08:59:25 – 09:00:24	1 min. 00 sec	5.08 m/s	53.63	2778.3 W	1980.4 W	1727.8 W	252.6 W	71.28 % / 62.19 %
09:00:25 – 09:01:24	1 min. 00 sec	4.33 m/s	45.37	1720.5 W	985.6 W	801.4 W	184.2 W	57.29 % / 46.58 %
09:01:25 – 09:02:24	1 min. 00 sec	4.32 m/s	45.32	1708.6 W	977.4 W	793.4 W	184.0 W	57.20 % / 46.44 %
09:02:25 – 09:03:24	1 min. 00 sec	4.30 m/s	45.17	1685.0 W	980.0 W	795.9 W	184.1 W	58.16 % / 47.23 %
09:03:25 – 09:04:24	1 min. 00 sec	3.90 m/s	41.28	1257.1 W	646.7 W	474.2 W	172.5 W	51.44 % / 37.72 %
09:04:25 – 09:05:24	1 min. 00 sec	4.22 m/s	44.08	1592.6 W	886.6 W	707.6 W	179.0 W	55.67 % / 44.43 %
09:05:25 – 09:06:24	1 min. 00 sec	4.64 m/s	51.20	2117.1 W	1659.8 W	1403.6 W	256.2 W	78.40 % / 66.30 %
09:06:25 – 09:07:24	1 min. 00 sec	3.33 m/s	41.63	782.6 W	679.6 W	502.8 W	176.8 W	86.84 % / 64.25 %
09:07:25 – 09:08:24	1 min. 00 sec	4.14 m/s	43.42	1503.8 W	825.9 W	643.5 W	182.4 W	54.92 % / 42.79 %
09:08:25 – 09:09:24	1 min. 00 sec	3.91 m/s	41.43	1266.8 W	658.1 W	482.1 W	176.0 W	51.95 % / 38.06 %
09:09:25 – 09:10:24	1 min. 00 sec	4.70 m/s	47.03	2200.3 W	1251.5 W	1053.9 W	197.6 W	56.88 % / 47.90 %
09:10:25 – 09:11:24	1 min. 00 sec	4.97 m/s	50.68	2601.7 W	1604.4 W	1377.5 W	226.5 W	61.67 % / 52.95 %
09:11:25 – 09:12:24	1 min. 00 sec	5.04 m/s	52.79	2713.1 W	1432.3 W	1175.6 W	256.7 W	52.79 % / 43.33 %
09:12:25 – 09:13:24	1 min. 00 sec	4.92 m/s	49.92	2523.9 W	1466.4 W	1247.5 W	218.9 W	58.10 % / 49.43 %
09:13:25 – 09:14:24	1 min. 00 sec	4.28 m/s	44.93	1661.6 W	952.9 W	765.9 W	187.0 W	57.35 % / 46.09 %
09:14:25 – 09:15:24	1 min. 00 sec	5.46 m/s	52.30	3449.5 W	1850.1 W	1605.8 W	244.3 W	53.63 % / 46.55 %
09:15:25 – 09:16:24	1 min. 00 sec	4.56 m/s	48.38	2009.4 W	1299.2 W	1105.4 W	193.8 W	64.66 % / 55.01 %
09:16:25 – 09:17:24	1 min. 00 sec	4.20 m/s	44.12	1570.1 W	867.1 W	681.8 W	185.3 W	55.23 % / 43.42 %
09:17:25 – 09:18:24	1 min. 00 sec	4.35 m/s	49.17	1744.4 W	1390.4 W	1193.5 W	196.9 W	79.71 % / 68.42 %
09:18:25 – 09:19:24	1 min. 00 sec	4.76 m/s	47.85	2285.6 W	1256.7 W	1065.1 W	191.6 W	54.98 % / 46.60 %
09:19:25 – 09:20:24	1 min. 00 sec	3.73 m/s	44.72	1099.8 W	929.8 W	742.7 W	187.1 W	84.54 % / 67.53 %
09:20:25 – 09:21:24	1 min. 00 sec	4.92 m/s	50.13	2523.9 W	1633.1 W	1432.4 W	200.7 W	64.71 % / 56.75 %
09:21:25 – 09:22:24	1 min. 00 sec	5.20 m/s	51.77	2979.8 W	1711.3 W	1459.6 W	251.7 W	57.43 % / 48.98 %
09:22:25 – 09:23:24	1 min. 00 sec	3.78 m/s	44.98	1144.6 W	1019.3 W	835.9 W	183.4 W	89.05 % / 73.03 %
09:23:25 – 09:24:24	1 min. 00 sec	4.24 m/s	43.85	1615.4 W	864.9 W	686.1 W	178.8 W	53.54 % / 42.47 %
<b>Average for 37 minutes</b>		<b>4.59 m/s</b>	<b>47.90</b>	<b>2134.4 W</b>	<b>1303.3 W</b>	<b>1091.8 W</b>	<b>211.5 W</b>	<b>62.23 % / 51.40 %</b>

With a stable wind (in the wind speed range from 4.0m / s to 6.0m / s) with middle intensity of turbulence, the efficiency of WPP ANew-S1 is more than 60%.

C. 05/16/2016 - an episode of 17 minutes. The turbine is optimized for average wind speeds (4.0 - 6.0 m / s).

The wind is stable with an average speed of about 9m / s with a middle intensity of turbulence.

Air temperature is + 15 ° C, air density is  $\approx 1.225 \text{ kg / m}^3$ .

Wind speed - at the height of the center of the turbine.

The turbine begins to rotate at a wind speed of 3.2 m / s.

At a wind speed of 3.5 m / s, WPP starts to supply electricity to the network.

Losses – energy used by wind turbines own sub-systems.

Time (17 minutes)	Time of Action	Average wind speed	RPM of turbine	Power of wind	Power from generator	Power to grid	Losses of power	Coefficient of conversion generator / grid
21:00:01 – 21:01:00	1 min. 00 sec	9.20 m/s	78.71	16502.0 W	8423.7 W	7504.0 W	919.7 W	51.05 % / 45.47 %
21:01:01 – 21:02:00	1 min. 00 sec	8.04 m/s	76.14	11014.1 W	7325.8 W	6895.3 W	430.5 W	66.51 % / 62.60 %
21:02:01 – 21:03:00	1 min. 00 sec	8.25 m/s	71.85	11900.0 W	5668.7 W	5237.0 W	431.7 W	47.64 % / 44.01 %
21:03:01 – 21:04:00	1 min. 00 sec	7.22 m/s	67.45	7976.2 W	4925.9 W	4517.6 W	408.3 W	61.76 % / 56.62 %
21:04:01 – 21:05:00	1 min. 00 sec	7.06 m/s	66.48	7457.6 W	4255.3 W	3892.3 W	363.0 W	57.06 % / 52.19 %
21:05:01 – 21:06:00	1 min. 00 sec	8.55 m/s	72.33	13245.9 W	6355.2 W	5840.0 W	515.2 W	47.98 % / 44.09 %
21:06:01 – 21:07:00	1 min. 00 sec	7.69 m/s	69.42	9637.4 W	5178.9 W	4763.7 W	415.2 W	53.74 % / 49.43 %
21:07:01 – 21:08:00	1 min. 00 sec	7.75 m/s	69.96	9864.8 W	5259.8 W	4782.7 W	477.1 W	53.32 % / 48.48 %
21:08:01 – 21:09:00	1 min. 00 sec	8.46 m/s	72.14	12832.0 W	6174.5 W	5663.0 W	511.5 W	48.12 % / 44.13 %
21:09:01 – 21:10:00	1 min. 00 sec	8.84 m/s	74.29	14640.0 W	6879.2 W	6285.6 W	593.6 W	47.00 % / 42.93 %
21:10:01 – 21:11:00	1 min. 00 sec	7.86 m/s	71.00	10290.8 W	5806.5 W	5303.5 W	503.0 W	56.42 % / 51.54 %
21:11:01 – 21:12:00	1 min. 00 sec	9.00 m/s	79.25	15449.3 W	8161.2 W	7261.2 W	900.0 W	52.83 % / 47.00 %
21:12:01 – 21:13:00	1 min. 00 sec	9.67 m/s	85.15	19162.9 W	9820.7 W	8853.3 W	967.4 W	51.25 % / 46.20 %
21:13:01 – 21:14:00	1 min. 00 sec	10.51 m/s	91.57	24603.1 W	11976.4 W	10936.1 W	1040.3 W	48.68 % / 44.45 %
21:14:01 – 21:15:00	1 min. 00 sec	11.43 m/s	96.10	31646.2 W	14490.8 W	13399.0 W	1091.8 W	45.79 % / 42.34 %
21:15:01 – 21:16:00	1 min. 00 sec	9.26 m/s	85.03	16827.3 W	9806.9 W	8833.3 W	973.6 W	58.28 % / 52.49 %
21:16:01 – 21:17:00	1 min. 00 sec	8.57 m/s	80.50	13339.0 W	8289.9 W	7368.2 W	921.7 W	62.15 % / 55.24 %
<b>Average for 17 minutes</b>		<b>8.67 m/s</b>	<b>76.90</b>	<b>14493.4 W</b>	<b>7576.4 W</b>	<b>6902.1 W</b>	<b>674.3 W</b>	<b>53.50 % / 48.78 %</b>

With an average annual wind speed of  $\sim 8.65 \text{ m/s}$  ANew-S1 is able to generate about 60-70 MWh of electricity and pass on the network about 54-64 MWh.

**D. 02.22.2019 - an episode of 3.6 hours. Turbine optimized for average wind speeds (from 4.5m / s to 6.5m / s).**

**Wind gusty with high intensity of turbulence.**

**Air temperature is + 2 ° C, air density is ≈ 1.28 kg / m3.**

**Wind speed - at the height of the center of the turbine.**

**The turbine begins to rotate at a wind speed of 3.2 m / s.**

**At a wind speed of 3.5 m / s, WPP starts to supply electricity to the network.**

**Losses of power – Energy used by wind turbines own sub-systems.**

<b>Time (21 minutes)</b>	<b>Time of Action</b>	<b>Average wind speed</b>	<b>RPM of turbine</b>	<b>Power of wind</b>	<b>Power from generator</b>	<b>Power to grid</b>	<b>Losses of power</b>	<b>Coefficient of conversion generator / grid</b>
08:00:34 – 08:01:33	1 min. 00 sec	4.96 m/s	47.85	2702.1 W	1804.8 W	1590.2 W	214.6 W	66.79 % / 58.85 %
08:01:34 – 08:02:33	1 min. 00 sec	5.26 m/s	47.48	3222.7 W	1707.5 W	1425.6 W	281.9 W	52.98 % / 44.23 %
08:02:34 – 08:03:33	1 min. 00 sec	4.98 m/s	45.88	2734.9 W	1335.2 W	1081.8 W	253.4 W	48.82 % / 39.56 %
08:03:34 – 08:04:33	1 min. 00 sec	5.30 m/s	47.63	3296.7 W	1683.9 W	1406.1 W	277.8 W	51.08 % / 42.65 %
08:04:34 – 08:05:33	1 min. 00 sec	6.40 m/s	53.52	5804.9 W	3135.7 W	2760.3 W	375.4 W	54.02 % / 47.55 %
08:05:34 – 08:06:33	1 min. 00 sec	5.12 m/s	48.58	2972.1 W	1898.4 W	1680.2 W	218.2 W	63.87 % / 56.53 %
08:06:34 – 08:07:33	1 min. 00 sec	5.94 m/s	50.83	4641.0 W	2409.0 W	2090.7 W	318.3 W	51.91 % / 45.05 %
08:07:34 – 08:08:33	1 min. 00 sec	6.60 m/s	52.27	6366.3 W	2990.7 W	2587.4 W	403.3 W	46.98 % / 40.64 %
08:08:34 – 08:09:33	1 min. 00 sec	6.16 m/s	54.33	5176.0 W	3259.6 W	2939.8 W	319.8 W	62.98 % / 56.80 %
08:09:34 – 08:10:33	1 min. 00 sec	6.33 m/s	52.18	5616.5 W	2680.7 W	2380.3 W	300.4 W	47.73 % / 42.38 %
08:10:34 – 08:11:33	1 min. 00 sec	5.73 m/s	50.38	4166.0 W	2246.8 W	1989.4 W	257.4 W	53.93 % / 47.75 %
08:11:34 – 08:12:33	1 min. 00 sec	5.05 m/s	44.87	2851.9 W	1277.7 W	1002.9 W	274.8 W	44.89 % / 35.16 %
08:12:34 – 08:13:33	1 min. 00 sec	6.65 m/s	52.13	6512.1 W	2709.2 W	2394.9 W	314.3 W	41.60 % / 36.78 %
08:13:34 – 08:14:33	1 min. 00 sec	6.07 m/s	52.33	4952.5 W	2864.1 W	2500.7 W	363.4 W	57.83 % / 50.49 %
08:14:34 – 08:15:33	1 min. 00 sec	5.98 m/s	53.20	4735.4 W	3004.2 W	2730.4 W	273.8 W	63.44 % / 57.66 %
08:15:34 – 08:16:33	1 min. 00 sec	5.47 m/s	49.15	3624.2 W	2018.0 W	1716.1 W	301.9 W	55.68 % / 47.35 %
08:16:34 – 08:17:33	1 min. 00 sec	5.79 m/s	51.22	4298.3 W	2482.8 W	2179.0 W	303.8 W	57.76 % / 50.69 %
08:17:34 – 08:18:33	1 min. 00 sec	5.05 m/s	48.27	2851.9 W	1788.0 W	1550.6 W	237.4 W	62.70 % / 54.37 %
08:18:34 – 08:19:33	1 min. 00 sec	4.92 m/s	47.75	2637.3 W	1683.6 W	1428.2 W	255.4 W	63.84 % / 54.15 %
08:19:34 – 08:20:33	1 min. 00 sec	4.86 m/s	47.68	2541.9 W	1680.4 W	1385.1 W	295.3 W	66.11 % / 54.49 %
08:20:34 – 08:21:33	1 min. 00 sec	4.28 m/s	44.80	1736.2 W	1203.0 W	995.7 W	207.3 W	69.29 % / 57.35 %
<b>Average for 21 minutes</b>		<b>5.56 m/s</b>	<b>49.63</b>	<b>3889.8 W</b>	<b>2184.0 W</b>	<b>1896.0 W</b>	<b>288.0 W</b>	<b>56.39 % / 48.59 %</b>

During 11 minutes (from 08:21:35 up to 08:32:35) average wind speed was less than 3.5 m/s.

Time (31 minutes)	Time of Action	Average wind speed	RPM of turbine	Power of wind	Power from generator	Power to grid	Losses of power	Coefficient of conversion generator / grid
08:32:38 – 08:33:37	1 min. 00 sec	5.63 m/s	50.75	3951.7 W	2373.7 W	2115.4 W	258.3 W	60.73 % / 53.53 %
08:33:38 – 08:34:37	1 min. 00 sec	5.02 m/s	44.97	2801.3 W	1293.9 W	910.7 W	383.2 W	46.19 % / 32.51 %
08:34:38 – 08:35:37	1 min. 00 sec	4.78 m/s	46.72	2418.5 W	1524.9 W	1004.3 W	520.6 W	63.05 % / 41.53 %
08:35:38 – 08:36:37	1 min. 00 sec	4.97 m/s	48.38	2718.5 W	1879.1 W	1469.1 W	410.0 W	69.12 % / 54.04 %
08:36:38 – 08:37:37	1 min. 00 sec	5.89 m/s	53.52	4524.8 W	3084.7 W	2598.3 W	486.4 W	68.17 % / 57.42 %
08:37:38 – 08:38:37	1 min. 00 sec	4.36 m/s	44.93	1835.3 W	1166.4 W	778.5 W	387.9 W	63.55 % / 42.42 %
08:38:38 – 08:39:37	1 min. 00 sec	5.28 m/s	48.92	3259.6 W	1953.0 W	1518.6 W	434.4 W	59.92 % / 46.59 %
08:39:38 – 08:40:37	1 min. 00 sec	6.01 m/s	51.85	4807.1 W	2637.9 W	2139.2 W	498.7 W	54.88 % / 44.50 %
08:40:38 – 08:41:37	1 min. 00 sec	5.23 m/s	49.25	3167.8 W	2050.3 W	1689.4 W	360.9 W	64.72 % / 53.33 %
08:41:38 – 08:42:37	1 min. 00 sec	4.57 m/s	47.58	2113.5 W	1670.0 W	1215.5 W	454.5 W	79.02 % / 57.51 %
08:42:38 – 08:43:37	1 min. 00 sec	5.66 m/s	48.22	4015.2 W	1797.8 W	1340.8 W	457.0 W	44.77 % / 33.39 %
08:43:38 – 08:44:37	1 min. 00 sec	5.25 m/s	48.18	3204.3 W	1868.2 W	1464.9 W	403.3 W	58.30 % / 45.72 %
08:44:38 – 08:45:37	1 min. 00 sec	5.15 m/s	47.38	3024.7 W	1678.8 W	1247.3 W	431.5 W	55.50 % / 41.24 %
08:45:38 – 08:46:37	1 min. 00 sec	6.07 m/s	52.98	4952.5 W	2914.1 W	2450.3 W	463.8 W	58.84 % / 49.48 %
08:46:38 – 08:47:37	1 min. 00 sec	5.16 m/s	47.43	3042.3 W	1676.2 W	1291.1 W	385.1 W	55.10 % / 42.44 %
08:47:38 – 08:48:37	1 min. 00 sec	5.04 m/s	46.98	2835.0 W	1507.4 W	1107.4 W	400.0 W	53.17 % / 39.06 %
08:48:38 – 08:49:37	1 min. 00 sec	4.66 m/s	46.37	2240.9 W	1542.6 W	1108.9 W	433.7 W	68.84 % / 49.48 %
08:49:38 – 08:50:37	1 min. 00 sec	5.45 m/s	48.49	3584.6 W	1935.6 W	1556.7 W	378.9 W	54.00 % / 43.43 %
08:50:38 – 08:51:37	1 min. 00 sec	4.70 m/s	47.88	2299.1 W	1767.4 W	1361.2 W	406.2 W	76.87 % / 59.21 %
08:51:38 – 08:52:37	1 min. 00 sec	4.83 m/s	46.95	2495.2 W	1488.5 W	1076.0 W	412.5 W	59.65 % / 43.12 %
08:52:38 – 08:53:37	1 min. 00 sec	5.20 m/s	48.12	3113.6 W	1768.3 W	1350.4 W	417.9 W	56.79 % / 43.37 %
08:53:38 – 08:54:37	1 min. 00 sec	5.04 m/s	46.78	2835.0 W	1536.1 W	1125.3 W	410.8 W	54.18 % / 39.69 %
08:54:38 – 08:55:37	1 min. 00 sec	5.30 m/s	47.32	3296.7 W	1614.0 W	1213.1 W	400.9 W	49.00 % / 36.80 %
08:55:38 – 08:56:37	1 min. 00 sec	5.32 m/s	49.47	3334.2 W	2031.5 W	1631.0 W	400.5 W	60.93 % / 48.92 %
08:56:38 – 08:57:37	1 min. 00 sec	5.32 m/s	48.37	3334.2 W	1820.0 W	1576.0 W	244.0 W	54.59 % / 47.29 %
08:57:38 – 08:58:37	1 min. 00 sec	5.91 m/s	50.22	4571.1 W	2285.0 W	1965.8 W	319.2 W	49.99 % / 43.00 %
08:58:38 – 08:59:37	1 min. 00 sec	6.29 m/s	52.23	5510.7 W	2722.5 W	2412.1 W	310.4 W	49.40 % / 43.77 %
08:59:38 – 09:00:37	1 min. 00 sec	5.00 m/s	49.33	2768.0 W	2069.6 W	1854.6 W	215.0 W	74.77 % / 67.00 %
09:00:38 – 09:01:37	1 min. 00 sec	5.60 m/s	49.95	3888.8 W	2171.6 W	1875.4 W	296.3 W	55.84 % / 48.22 %
09:01:38 – 09:02:37	1 min. 00 sec	5.06 m/s	48.22	2868.8 W	1781.0 W	1541.0 W	240.0 W	62.08 % / 53.72 %
09:02:38 – 09:03:37	1 min. 00 sec	5.78 m/s	51.27	4276.0 W	2529.5 W	2187.9 W	341.6 W	59.16 % / 51.17 %
<b>Average for 31 minutes</b>		<b>5.27 m/s</b>	<b>48.68</b>	<b>3283.2 W</b>	<b>1940.0 W</b>	<b>1554.1 W</b>	<b>385.9 W</b>	<b>59.09 % / 47.33%</b>

During 2.2 minutes (from 09:03:38 up to 09:05:50) average wind speed was less than 3.5 m/s.

<b>Time (16 minutes)</b>	<b>Time of Action</b>	<b>Average wind speed</b>	<b>RPM of turbine</b>	<b>Power of wind</b>	<b>Power from generator</b>	<b>Power to grid</b>	<b>Losses of power</b>	<b>Coefficient of conversion generator / grid</b>
09:05:51 – 09:06:50	1 min. 00 sec	4.34 m/s	44.80	1810.2 W	1153.0 W	948.3 W	204.7 W	63.70 % / 52.39 %
09:06:51 – 09:07:50	1 min. 00 sec	4.66 m/s	45.47	2240.9 W	1378.2 W	1106.7 W	271.5 W	61.50 % / 49.39 %
09:07:51 – 09:08:50	1 min. 00 sec	6.13 m/s	54.20	5100.8 W	3289.3 W	2897.0 W	392.3 W	64.49 % / 56.79 %
09:08:51 – 09:09:50	1 min. 00 sec	6.53 m/s	55.10	6165.9 W	3454.4 W	3072.1 W	382.3 W	56.02 % / 49.82 %
09:09:51 – 09:10:50	1 min. 00 sec	6.43 m/s	56.83	5886.9 W	4003.1 W	3697.8 W	305.3 W	68.00 % / 62.81 %
09:10:51 – 09:11:50	1 min. 00 sec	4.33 m/s	45.93	1797.7 W	1355.8 W	1153.0 W	202.8 W	75.42 % / 64.14 %
09:11:51 – 09:12:50	1 min. 00 sec	5.25 m/s	46.35	3204.3 W	1586.8 W	1254.4 W	332.1 W	49.52 % / 39.15 %
09:12:51 – 09:13:50	1 min. 00 sec	5.70 m/s	50.33	4100.9 W	2298.7 W	2046.9 W	251.8 W	56.05 % / 49.91 %
09:13:51 – 09:14:50	1 min. 00 sec	6.39 m/s	53.53	5777.7 W	3031.0 W	2703.3 W	327.7 W	52.46 % / 46.79 %
09:14:51 – 09:15:50	1 min. 00 sec	7.56 m/s	59.38	9568.0 W	4945.6 W	4474.4 W	471.2 W	51.69 % / 46.76 %
09:15:51 – 09:16:50	1 min. 00 sec	7.40 m/s	59.08	8973.3 W	4739.1 W	4280.6 W	458.5 W	52.81 % / 47.70 %
09:16:51 – 09:17:50	1 min. 00 sec	5.97 m/s	52.85	4711.7 W	2894.1 W	2552.1 W	342.0 W	61.42 % / 54.17 %
09:17:51 – 09:18:50	1 min. 00 sec	5.15 m/s	49.55	3024.7 W	2058.5 W	1817.9 W	240.6 W	68.06 % / 60.10 %
09:18:51 – 09:19:50	1 min. 00 sec	5.66 m/s	51.22	4015.2 W	2513.6 W	2187.8 W	325.8 W	62.60 % / 54.49 %
09:19:51 – 09:20:50	1 min. 00 sec	6.75 m/s	54.67	6810.0 W	3482.9 W	3141.9 W	341.0 W	51.14 % / 46.14 %
09:20:51 – 09:21:50	1 min. 00 sec	5.76 m/s	51.71	4231.8 W	2868.3 W	2511.0 W	357.3 W	67.78 % / 59.34 %
<b>Average for 16 minutes</b>		<b>5.88 m/s</b>	<b>51.94</b>	<b>4670.3 W</b>	<b>2815.8 W</b>	<b>2490.3 W</b>	<b>325.5 W</b>	<b>60.29 % / 53.32 %</b>

During 3 minutes (from 09:21:50 up to 09:24:50) average wind speed was less than 3.5 m/s.

<b>Time (9 minutes)</b>	<b>Time of Action</b>	<b>Average wind speed</b>	<b>RPM of turbine</b>	<b>Power of wind</b>	<b>Power from generator</b>	<b>Power to grid</b>	<b>Losses of power</b>	<b>Coefficient of conversion generator / grid</b>
09:24:50 – 09:25:49	1 min. 00 sec	7.08 m/s	58.10	7858.8 W	4399.0 W	4017.6 W	381.4 W	55.98 % / 51.12 %
09:25:50 – 09:26:49	1 min. 00 sec	7.23 m/s	60.37	8368.9 W	5117.1 W	4704.4 W	412.7 W	61.14 % / 56.21 %
09:26:50 – 09:27:49	1 min. 00 sec	6.11 m/s	52.77	5051.0 W	2831.9 W	2540.0 W	291.9 W	56.07 % / 50.29 %
09:27:50 – 09:28:49	1 min. 00 sec	5.01 m/s	46.25	2784.6 W	1401.7 W	1151.4 W	250.3 W	50.34 % / 41.35 %
09:28:50 – 09:29:49	1 min. 00 sec	5.70 m/s	48.60	4100.9 W	1978.6 W	1663.9 W	314.7 W	48.25 % / 40.57 %
09:29:50 – 09:30:49	1 min. 00 sec	6.70 m/s	54.50	6660.0 W	3342.1 W	2975.7 W	366.4 W	50.18 % / 44.68 %
09:30:50 – 09:31:49	1 min. 00 sec	7.32 m/s	57.83	8685.4 W	4362.4 W	3948.0 W	414.4 W	50.23 % / 45.46 %
09:31:50 – 09:32:49	1 min. 00 sec	6.15 m/s	55.52	5150.8 W	3564.6 W	3222.1 W	342.5 W	69.20 % / 62.56 %
09:32:50 – 09:33:49	1 min. 00 sec	5.38 m/s	49.93	3448.3 W	2133.1 W	1877.8 W	255.3 W	61.86 % / 54.46 %
<b>Average for 9 minutes</b>		<b>6.30 m/s</b>	<b>53.76</b>	<b>5663.4 W</b>	<b>3236.7 W</b>	<b>2900.1 W</b>	<b>336.6 W</b>	<b>57.15 % / 51.21 %</b>

During ~15.2 minutes (from 09:33:50 up to 09:49:00) average wind speed was less than 3.5 m/s.

<b>Time (27 minutes)</b>	<b>Time of Action</b>	<b>Average wind speed</b>	<b>RPM of turbine</b>	<b>Power of wind</b>	<b>Power from generator</b>	<b>Power to grid</b>	<b>Losses of power</b>	<b>Coefficient of conversion generator / grid</b>
09:49:03 – 09:50:02	1 min. 00 sec	8.04 m/s	61.35	11508.6 W	5596.1 W	5119.8 W	476.3 W	48.45 % / 44.49 %
09:50:03 – 09:51:02	1 min. 00 sec	7.40 m/s	57.62	8973.3 W	4253.6 W	3835.2 W	418.4 W	47.40 % / 42.74 %
09:51:03 – 09:52:02	1 min. 00 sec	5.50 m/s	52.72	3684.2 W	2809.6 W	2500.3 W	309.3 W	76.26 % / 67.86 %

09:52:03 – 09:53:02	1 min. 00 sec	5.43 m/s	47.52	3545.3 W	1695.3 W	1403.2 W	292.1 W	47.82 % / 39.58 %
09:53:03 – 09:54:02	1 min. 00 sec	6.46 m/s	52.27	5969.7 W	2721.1 W	2398.0 W	323.1 W	45.58 % / 40.17 %
09:54:03 – 09:55:02	1 min. 00 sec	5.00 m/s	50.00	2768.0 W	2213.8 W	1965.6 W	248.2 W	79.98 % / 71.01 %
09:55:03 – 09:56:02	1 min. 00 sec	5.12 m/s	47.90	2972.1 W	1865.3 W	1564.4 W	300.9 W	62.76 % / 52.64 %
09:56:03 – 09:57:02	1 min. 00 sec	5.90 m/s	51.83	4547.9 W	2585.7 W	2290.6 W	295.1 W	56.85 % / 50.37 %
09:57:03 – 09:58:02	1 min. 00 sec	4.86 m/s	48.27	2541.9 W	1769.0 W	1499.8 W	265.2 W	69.59 % / 59.00 %
09:58:03 – 09:59:02	1 min. 00 sec	4.40 m/s	45.82	1886.3 W	1311.1 W	1111.0 W	200.1 W	69.50 % / 58.90 %
09:59:03 – 10:00:02	1 min. 00 sec	4.43 m/s	43.77	1925.2 W	1029.0 W	791.1 W	247.9 W	53.45 % / 41.09 %
10:00:03 – 10:01:02	1 min. 00 sec	5.87 m/s	52.32	4478.9 W	2864.7 W	2447.3 W	417.4 W	63.96 % / 54.64 %
10:01:03 – 10:02:02	1 min. 00 sec	6.70 m/s	54.83	6660.0 W	3394.5 W	3081.8 W	312.7 W	50.97 % / 46.27 %
10:02:03 – 10:03:02	1 min. 00 sec	5.65 m/s	50.75	3993.9 W	2315.9 W	2035.7 W	280.2 W	57.98 % / 50.97 %
10:03:03 – 10:04:02	1 min. 00 sec	6.06 m/s	53.32	4928.0 W	3000.8 W	2625.2 W	325.6 W	60.89 % / 54.29 %
10:04:03 – 10:05:02	1 min. 00 sec	4.73 m/s	47.05	2343.4 W	1537.5 W	1316.2 W	221.3 W	65.61 % / 56.17 %
10:05:03 – 10:06:02	1 min. 00 sec	5.39 m/s	48.92	3467.5 W	1954.8 W	1678.5 W	276.3 W	56.37 % / 48.41 %
10:06:03 – 10:07:02	1 min. 00 sec	3.89 m/s	42.53	1303.5 W	841.8 W	631.7 W	210.1 W	64.58 % / 48.40 %
10:07:03 – 10:08:02	1 min. 00 sec	4.02 m/s	43.12	1416.1 W	921.4 W	703.8 W	217.6 W	65.07 % / 49.70 %
10:08:03 – 10:09:02	1 min. 00 sec	3.95 m/s	40.53	1293.0 W	623.4 W	411.1 W	212.3 W	48.21 % / 31.79 %
10:09:03 – 10:10:02	1 min. 00 sec	3.49 m/s	38.50	926.6 W	494.4 W	271.2 W	223.2 W	53.36 % / 29.27 %
10:10:03 – 10:11:02	1 min. 00 sec	5.54 m/s	49.55	3706.3 W	2074.3 W	1786.4 W	287.9 W	55.97 % / 48.20 %
10:11:03 – 10:12:02	1 min. 00 sec	3.77 m/s	40.97	1168.0 W	691.1 W	495.8 W	195.3 W	59.17 % / 42.45 %
10:12:03 – 10:13:02	1 min. 00 sec	4.08 m/s	41.35	1480.5 W	766.9 W	525.8 W	241.1 W	51.82 % / 35.51 %
10:13:03 – 10:14:02	1 min. 00 sec	4.26 m/s	44.78	1685.2 W	1133.5 W	903.0 W	230.5 W	67.26 % / 53.58 %
10:14:03 – 10:15:02	1 min. 00 sec	3.72 m/s	42.42	1122.1 W	866.0 W	656.8 W	209.2 W	77.18 % / 58.53 %
10:15:03 – 10:16:02	1 min. 00 sec	4.45 m/s	43.97	1920.9 W	1047.6 W	798.3 W	249.3 W	54.54 % / 41.56 %
<b>Average for 27 minutes</b>		<b>5.11 m/s</b>	<b>47.93</b>	<b>3185.1 W</b>	<b>1939.9 W</b>	<b>1661.0 W</b>	<b>278.9 W</b>	<b>60.91 % / 52.15 %</b>

During ~10.2 minutes (from 10:16:03 up to 10:26:13) average wind speed was less than 3.5 m/s.

Time (29 minutes)	Time of Action	Average wind speed	RPM of turbine	Power of wind	Power from generator	Power to grid	Losses of power	Coefficient of conversion generator / grid
10:26:13 – 10:27:12	1 min. 00 sec	4.08 m/s	41.70	1480.5 W	765.7 W	538.6 W	227.1 W	51.72 % / 36.38 %
10:27:13 – 10:28:12	1 min. 00 sec	3.80 m/s	41.77	1196.1 W	745.6 W	541.3 W	204.3 W	62.34 % / 45.26 %



10:28:13 – 10:29:12	1 min. 00 sec	4.60 m/s	43.78	2121.7 W	1000.3 W	775.1 W	225.2 W	47.15 % / 36.53 %
10:29:13 – 10:30:12	1 min. 00 sec	3.72 m/s	42.50	1122.1 W	842.8 W	646.1 W	196.7 W	75.11 % / 57.58 %
10:30:13 – 10:31:12	1 min. 00 sec	4.57 m/s	43.65	2080.5 W	964.1 W	738.4 W	225.7 W	46.34 % / 35.49 %
10:31:13 – 10:32:12	1 min. 00 sec	4.21 m/s	41.05	1626.5 W	761.1 W	531.3 W	229.8 W	46.79 % / 32.67 %
10:32:13 – 10:33:12	1 min. 00 sec	4.22 m/s	41.85	1638.2 W	764.4 W	553.1 W	211.3 W	46.66 % / 33.76 %
10:33:13 – 10:34:12	1 min. 00 sec	4.56 m/s	45.58	2066.9 W	1405.1 W	1126.1 W	279.0 W	67.98 % / 54.48 %
10:34:13 – 10:35:12	1 min. 00 sec	4.80 m/s	46.10	2410.7 W	1383.7 W	1169.3 W	214.4 W	57.40 % / 48.50 %
10:35:13 – 10:36:12	1 min. 00 sec	5.41 m/s	49.03	3451.5 W	1993.5 W	1724.6 W	268.9 W	56.76 % / 49.97 %
10:36:13 – 10:37:12	1 min. 00 sec	5.24 m/s	47.02	3136.2 W	1492.6 W	1225.8 W	256.8 W	47.59 % / 39.40 %
10:37:13 – 10:38:12	1 min. 00 sec	4.96 m/s	46.53	2659.9 W	1544.7 W	1292.7 W	252.0 W	58.07 % / 48.60 %
10:38:13 – 10:39:12	1 min. 00 sec	5.35 m/s	48.10	3337.9 W	1802.5 W	1540.1 W	262.5 W	54.00 % / 46.14 %
10:39:13 – 10:40:12	1 min. 00 sec	5.39 m/s	49.35	3413.4 W	2046.1 W	1752.3 W	293.8 W	59.94 % / 51.34 %
10:40:13 – 10:41:12	1 min. 00 sec	5.26 m/s	46.95	3172.3 W	1627.5 W	1397.7 W	229.8 W	51.30 % / 44.06 %
10:41:13 – 10:42:12	1 min. 00 sec	5.29 m/s	48.73	3226.9 W	1927.0 W	1704.7 W	222.3 W	59.72 % / 52.83 %
10:42:13 – 10:43:12	1 min. 00 sec	4.09 m/s	44.33	1491.4 W	1093.2 W	869.0 W	224.2 W	73.30 % / 58.27 %
10:43:13 – 10:44:12	1 min. 00 sec	3.84 m/s	42.08	979.6 W	784.3 W	579.8 W	204.5 W	80.06 % / 59.19 %
10:44:13 – 10:45:12	1 min. 00 sec	5.24 m/s	46.65	3136.2 W	1589.8 W	1317.4 W	272.4 W	50.69 % / 42.06 %
10:45:13 – 10:46:12	1 min. 00 sec	5.73 m/s	48.62	4100.9 W	1897.7 W	1647.7 W	250.0 W	46.28 % / 40.18 %
10:46:13 – 10:47:12	1 min. 00 sec	6.32 m/s	52.55	5502.6 W	2831.3 W	2472.1 W	359.2 W	51.45 % / 44.93 %
10:47:13 – 10:48:12	1 min. 00 sec	5.36 m/s	51.88	3356.7 W	2604.9 W	2354.0 W	250.9 W	77.60 % / 70.13 %
10:48:13 – 10:49:12	1 min. 00 sec	5.70 m/s	50.13	4036.8 W	2272.4 W	1981.3 W	291.1 W	56.29 % / 49.08 5
10:49:13 – 10:50:12	1 min. 00 sec	4.24 m/s	45.95	1661.6 W	1462.9 W	1286.3 W	176.6 W	88.04 % / 77.41 %
10:50:13 – 10:51:12	1 min. 00 sec	4.54 m/s	43.35	2039.8 W	968.7 W	729.4 W	239.3 W	47.49 % / 35.76 %
10:51:13 – 10:52:12	1 min. 00 sec	5.37 m/s	48.00	3375.5 W	1837.3 W	1537.9 W	299.4 W	54.43 % / 45.56 %
10:52:13 – 10:53:12	1 min. 00 sec	3.84 m/s	44.47	1234.3 W	1116.4 W	901.3 W	215.1 W	90.45 % / 73.02 %
10:53:13 – 10:54:12	1 min. 00 sec	4.68 m/s	46.33	2234.4 W	1407.4 W	1156.1 W	251.3 W	63.00 % / 51.74 %
10:54:13 – 10:55:12	1 min. 00 sec	4.10 m/s	41.78	1502.3 W	766.0 W	556.2 W	209.8 W	51.00 % / 37.02 5
<b>Average for 29 minutes</b>		<b>4.78 m/s</b>	<b>45.86</b>	<b>2445.4 W</b>	<b>1437.9 W</b>	<b>1194.7 W</b>	<b>243.2 W</b>	<b>58.80 % / 48.85 %</b>

During ~14.37 minutes (from 10:55:13 up to 11:09:35) average wind speed was less them 3.5 m/s.

<b>Time (27 minutes)</b>	<b>Time of Action</b>	<b>Average wind speed</b>	<b>RPM of turbine</b>	<b>Power of wind</b>	<b>Power from generator</b>	<b>Power to grid</b>	<b>Losses of power</b>	<b>Coefficient of conversion generator / grid</b>
11:09:35 – 11:10:34	1 min. 00 sec	4.67 m/s	47.75	2220.0 W	1800.6 W	1554.6 W	246.0 W	81.11 % / 70.03 %
11:10:35 – 11:11:34	1 min. 00 sec	5.40 m/s	47.23	3432.4 W	1651.1 W	1351.3 W	299.7 W	48.10 % / 39.37 %
11:11:35 – 11:12:34	1 min. 00 sec	4.39 m/s	43.32	1844.2 W	987.1 W	791.8 W	195.3 W	53.52 % / 42.93 %
11:12:35 – 11:13:34	1 min. 00 sec	4.32 m/s	45.17	1757.4 W	1230.0 W	1004,2 W	225.8 W	70.00 % / 57.14 %

11:13:35 – 11:14:34	1 min. 00 sec	5.30 m/s	47.80	3245.2 W	1648.1 W	1381.0 W	267.1 W	50.79 % / 42.56 %
11:14:35 – 11:15:34	1 min. 00 sec	3.83 m/s	42.35	1224.7 W	892.9 W	678.7 W	214.2 W	72.91 % / 55.42 %
11:15:35 – 11:16:34	1 min. 00 sec	6.39 m/s	51.62	5687.5 W	2685.2 W	2315.5 W	369.7 W	47.21 % / 40.71 %
11:16:35 – 11:17:34	1 min. 00 sec	5.59 m/s	51.28	3807.6 W	2520.5 W	2239.2 W	281.3 W	66.20 % / 58.81 %
11:17:35 – 11:18:34	1 min. 00 sec	5.39 m/s	48.75	3413.4 W	1903.7 W	1638.1 W	265.6 W	55.77 % / 47.99 %
11:18:35 – 11:19:34	1 min. 00 sec	4.09 m/s	43.92	1769.6 W	1002.8 W	814.9 W	187.9 W	56.67 % / 46.05 %
11:19:35 – 11:20:34	1 min. 00 sec	4.23 m/s	43.53	1649.8 W	1022.0 W	758.4 W	263.6 W	61.95 % / 45.97 %
11:20:35 – 11:21:34	1 min. 00 sec	5.32 m/s	50.52	3282.1 W	2286.2 W	2006.5 W	279.7 W	69.66 % / 61.13 %
11:21:35 – 11:22:34	1 min. 00 sec	5.14 m/s	47.23	2960.1 W	1614.1 W	1351.8 W	262.3 W	54.53 % / 45.67 %
11:22:35 – 11:23:34	1 min. 00 sec	5.07 m/s	47.52	2840.8 W	1655.5 W	1362.0 W	293.5 W	58.28 % / 47.94 %
11:23:35 – 11:24:34	1 min. 00 sec	6.74 m/s	54.18	6674.2 W	3297.7 W	2842.4 W	455.3 W	49.41 % / 42.59 %
11:24:35 – 11:25:34	1 min. 00 sec	7.00 m/s	55.68	7476.7 W	3785.3 W	3446.6 W	338.7 W	50.63 % / 46.10 %
11:25:35 – 11:26:34	1 min. 00 sec	6.19 m/s	51.90	5170.0 W	2591.7 W	2305.9 W	285.8 W	50.13 % / 44.60 %
11:26:35 – 11:27:34	1 min. 00 sec	4.70 m/s	45.27	2263.1 W	1224.1 W	1026.7 W	197.4 W	54.09 % / 45.37 %
11:27:35 – 11:28:34	1 min. 00 sec	3.68 m/s	40.52	1086.3 W	695.9 W	498.4 W	197.5 W	64.06 % / 45.88 %
11:28:35 – 11:29:34	1 min. 00 sec	4.97 m/s	47.68	2676.0 W	1642.4 W	1393.5 W	248.9 W	61.38 % / 52.07 %
11:29:35 – 11:30:34	1 min. 00 sec	5.58 m/s	50.00	3787.2 W	2194.3 W	1935.0 W	259.3 W	57.94 % / 51.09 %
11:30:35 – 11:31:34	1 min. 00 sec	7.01 m/s	55.85	7508.8 W	3699.2 W	3302.0 W	397.2 W	49.26 % / 43.98 %
11:31:35 – 11:32:34	1 min. 00 sec	7.14 m/s	56.00	7934.3 W	3664.5 W	3325.5 W	339.0 W	46.19 % / 41.91 %
11:32:35 – 11:33:34	1 min. 00 sec	6.04 m/s	50.77	4803.2 W	2386.8 W	2040.5 W	346.3 W	49.69 % / 42.48 %
11:33:35 – 11:34:34	1 min. 00 sec	5.39 m/s	51.00	3413.4 W	2421.9 W	2094.1 W	327.8 W	70.95 % / 61.35 %
11:34:35 – 11:35:34	1 min. 00 sec	4.62 m/s	46.22	2149.5 W	1353.8 W	1140.8 W	213.0 W	62.98 % / 53.07 %
11:35:35 – 11:36:34	1 min. 00 sec	5.85 m/s	50.42	4364.0 W	2309.7 W	2002.4 W	307.3 W	52.93 % / 45.88 %
<b>Average for 27 minutes</b>		<b>5.33 m/s</b>	<b>48.65</b>	<b>3473.3 W</b>	<b>2006.2 W</b>	<b>1726.0 W</b>	<b>280.2 W</b>	<b>57.76 % / 49.69 %</b>

During ~3.6 hours (from 08:00:34 up to 11:36:34) average wind speed was 4.77m/s.

In 3.6 hours ANew-S1:

- Generated 5.53kWh.
- Used on its own sub-systems 0.86kWh.
- Provided Grid with 4.67kWh.