

PARK - Main Result

Calculation: Alternatief 4

Setup

AEP assuming long term representative time series data with optional corrections

Calculation performed in UTM (north)-WGS84 Zone: 31
At the site centre the difference between grid north and true north is: 2.1°

Wake

Wake Model: N.O. Jensen (EMD) : 2005
Include mirror wakes
Wake decay constant
Wake decay constant: 0.054 HH:100m Very open farmland

Use Downwind change of WDC by number of wake turbines. $y = A \cdot \ln(x) + B$
Model A B Max x
2 -0.3000 1.4000 5

Combination model

Weighted linear and RSS
Linear weight RSS weight
0.35 0.65

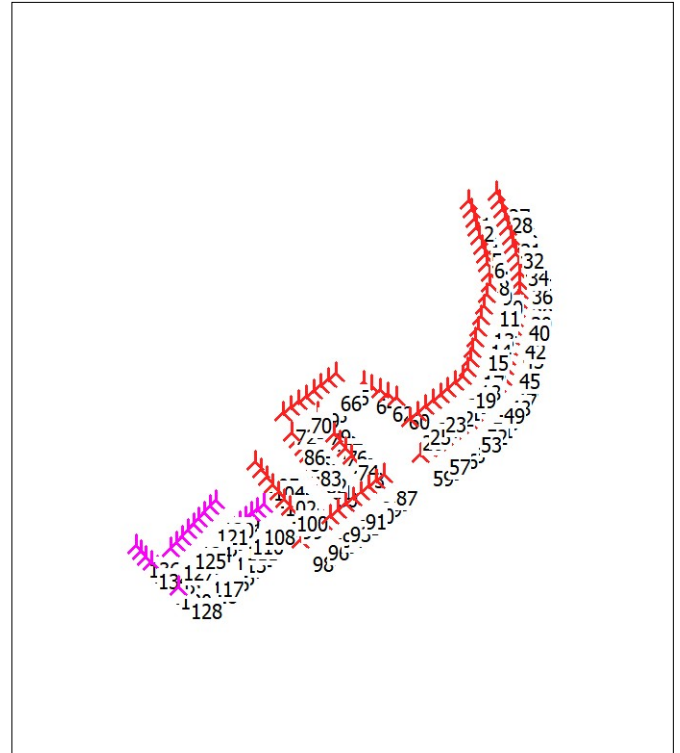
Scaler/wind data

Name EMD Scaler WKG
Used period 31/01/1993 05:00:00 - 31/01/2017 04:00:00
Meteo object(s) EmdConwx_N52.400_E005.540 (Pijlstaartweg)
EmdConwx_N52.430_E005.660 (Kokkeltocht)
EmdConwx_N52.460_E005.660 (Kubbeweg)
EmdConwx_N52.490_E005.750 (Hoge Vaart)
EmdConwx_N52.520_E005.780 (Hondtocht)
Take nearest
Horizontal interpolation
Displacement height: Omnidirectional from objects
WASP version WASP 11 Version 11.04.0006

Power correction

Power curve correction (adjusted IEC method, improved to match turbine control)

	Min	Max	Avg	Corr. [%]	Neg. corr. [%]	Pos. corr. [%]
Air density						
From scaler meteo objects [°C]	-14.2	32.6	9.8			
From air density settings						
Resulting air density [kg/m³]	1.135	1.345	1.227			
Relative to 15°C at sea level [%]	92.6	109.8	100.2	100.0	100.0	100.0



Scale 1:400,000

New WTG

Calculated Annual Energy for Wind Farm

WTG combination	Result PARK [MWh/y]	GROSS (no loss) Free WTGs [MWh/y]	Wake loss [%]	Specific results ^{a)}			Wind speed	
				Capacity factor [%]	Mean WTG result [MWh/y]	Full load hours [Hours/year]	free [m/s]	wake reduced [m/s]
Wind farm	1,844,771.1	2,053,141.3	10.1	41.0	13,564.5	3,591	7.7	7.2

^{a)} Based on wake reduced results, but no other losses included

Calculated Annual Energy for each of 136 new WTGs with total 513.8 MW rated power

WTG type	Valid	Manufact.	Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Power curve Creator	Name	Annual Energy		Wind speed	
									Result [MWh/y]	Wake loss [%]	free [m/s]	reduced [m/s]
1 No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	15,905.2	4.0	7.99	7.80	
2 No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	15,530.7	5.7	7.96	7.68	
3 No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	15,368.0	6.3	7.94	7.63	
4 No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	15,218.0	6.8	7.91	7.59	
5 No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	15,113.5	7.1	7.89	7.55	
6 No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	15,074.4	7.3	7.89	7.54	
7 No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,975.6	7.5	7.87	7.51	
8 No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,921.4	7.7	7.86	7.50	
9 No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,834.3	8.1	7.86	7.48	
10 No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,824.9	8.1	7.86	7.48	
11 No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,817.2	7.8	7.84	7.48	
12 No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,840.8	7.7	7.85	7.49	
13 No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,844.0	7.7	7.85	7.49	
14 No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,825.8	7.9	7.85	7.49	
15 No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,729.9	8.3	7.84	7.46	
16 No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,665.8	8.7	7.85	7.44	
17 No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,577.8	9.4	7.86	7.41	
18 No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,327.3	11.0	7.86	7.35	
19 No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,039.8	12.7	7.85	7.28	
20 No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	13,983.6	13.0	7.85	7.27	
21 No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	13,979.9	12.9	7.85	7.27	
22 No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	13,998.6	12.8	7.85	7.28	
23 No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,039.6	12.6	7.85	7.29	

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PARK - Main Result

Calculation: Alternatief 4

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Valid	WTG type		Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Power curve		Annual Energy Result [MWh/y]	Wake loss [%]	Wind speed		
	Manufact.	Type-generator				Creator	Name			free [m/s]	reduced [m/s]	
24	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,158.0	12.0	7.86	7.32
25	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,351.9	10.7	7.85	7.37
26	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,848.7	7.3	7.83	7.50
27	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	15,798.8	5.3	8.03	7.78
28	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	15,355.7	7.2	7.99	7.64
29	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	15,107.4	8.1	7.95	7.57
30	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,963.0	8.5	7.93	7.53
31	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,864.5	8.9	7.91	7.49
32	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,744.6	9.2	7.89	7.46
33	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,734.2	9.3	7.89	7.46
34	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,770.3	9.3	7.91	7.47
35	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,753.6	9.4	7.91	7.46
36	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,768.9	9.3	7.91	7.47
37	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,762.6	9.1	7.90	7.47
38	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,694.1	9.4	7.89	7.45
39	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,628.8	9.7	7.89	7.43
40	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,643.7	9.7	7.90	7.44
41	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,649.1	9.7	7.90	7.44
42	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,623.1	9.6	7.88	7.43
43	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,683.4	9.3	7.89	7.45
44	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,705.4	9.2	7.89	7.46
45	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,694.8	9.2	7.88	7.45
46	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,609.1	9.4	7.87	7.42
47	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,262.8	11.6	7.87	7.33
48	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,162.3	12.2	7.87	7.31
49	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,166.1	12.2	7.87	7.31
50	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,185.0	12.0	7.86	7.32
51	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,233.8	11.7	7.87	7.33
52	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,282.5	11.5	7.87	7.35
53	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,198.3	12.1	7.88	7.33
54	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,200.7	12.2	7.89	7.34
55	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,224.5	12.1	7.89	7.35
56	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,284.2	11.7	7.89	7.36
57	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,376.9	11.2	7.90	7.39
58	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,599.0	10.0	7.91	7.46
59	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	15,187.2	6.5	7.92	7.63
60	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,718.2	8.5	7.85	7.46
61	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,658.4	9.3	7.89	7.45
62	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,632.0	9.4	7.88	7.45
63	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,655.7	9.1	7.87	7.45
64	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,922.8	7.5	7.88	7.53
65	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,376.7	10.8	7.87	7.39
66	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,099.6	12.2	7.85	7.30
67	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,112.3	12.3	7.87	7.31
68	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,168.4	12.1	7.87	7.32
69	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,250.0	11.5	7.87	7.35
70	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,347.6	10.8	7.86	7.37
71	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,552.8	9.5	7.85	7.42
72	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	15,175.0	5.8	7.86	7.59
73	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,660.6	9.1	7.88	7.46
74	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,474.8	10.3	7.88	7.40
75	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,468.1	10.5	7.89	7.39
76	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,432.5	10.5	7.88	7.38
77	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,440.5	10.6	7.88	7.38
78	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,489.2	10.3	7.88	7.40
79	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,685.7	9.0	7.87	7.46
80	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,756.1	8.7	7.88	7.48
81	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,539.1	9.8	7.87	7.41
82	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,570.7	9.9	7.89	7.42
83	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,561.6	9.9	7.89	7.42
84	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,567.4	9.8	7.88	7.42
85	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,620.9	9.2	7.86	7.43
86	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,953.0	7.2	7.87	7.53
87	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,502.7	10.6	7.92	7.44
88	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,353.1	11.6	7.92	7.39
89	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,311.8	11.9	7.92	7.38
90	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,298.6	11.9	7.91	7.38
91	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,340.7	11.8	7.92	7.39
92	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,365.5	11.6	7.92	7.39
93	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,373.7	11.5	7.92	7.39
94	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,474.2	10.9	7.92	7.42
95	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,582.1	10.3	7.92	7.45
96	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,690.1	9.6	7.91	7.48
97	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,899.2	8.2	7.91	7.53
98	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	15,425.9	4.8	7.89	7.67
99	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,888.2	8.0	7.89	7.52

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PARK - Main Result

Calculation: Alternatief 4

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WTG type		Type-generator	Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Power curve		Annual Energy Result [MWh/y]	Wake loss [%]	Wind speed		
Valid	Manufact.					Creator	Name			free [m/s]	reduced [m/s]	
100	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,663.4	9.4	7.89	7.45
101	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,641.5	9.4	7.89	7.44
102	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,620.4	9.2	7.86	7.42
103	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,739.1	8.4	7.86	7.46
104	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	14,852.2	7.5	7.85	7.49
105	No	GE WIND ENERGY	GE 3.8-130-3,830	3,830	130.0	160.0	USER	Medium TI band Power Curve - 3830	15,179.4	5.3	7.84	7.59
106	Yes	VESTAS	V117-3.6-3,600	3,600	117.0	97.5	EMD	Level 0 - Calculated - Modes PO1 & PO1-OS - 01-2016	9,526.6	17.0	7.01	6.43
107	Yes	VESTAS	V117-3.6-3,600	3,600	117.0	97.5	EMD	Level 0 - Calculated - Modes PO1 & PO1-OS - 01-2016	9,435.0	17.8	7.01	6.40
108	Yes	VESTAS	V117-3.6-3,600	3,600	117.0	97.5	EMD	Level 0 - Calculated - Modes PO1 & PO1-OS - 01-2016	9,513.2	17.6	7.04	6.43
109	Yes	VESTAS	V117-3.6-3,600	3,600	117.0	97.5	EMD	Level 0 - Calculated - Modes PO1 & PO1-OS - 01-2016	9,425.9	17.5	7.00	6.40
110	Yes	VESTAS	V117-3.6-3,600	3,600	117.0	97.5	EMD	Level 0 - Calculated - Modes PO1 & PO1-OS - 01-2016	9,617.4	16.4	7.03	6.47
111	Yes	VESTAS	V117-3.6-3,600	3,600	117.0	97.5	EMD	Level 0 - Calculated - Modes PO1 & PO1-OS - 01-2016	9,604.9	16.2	7.01	6.46
112	Yes	VESTAS	V117-3.6-3,600	3,600	117.0	97.5	EMD	Level 0 - Calculated - Modes PO1 & PO1-OS - 01-2016	9,680.3	15.9	7.03	6.49
113	Yes	VESTAS	V117-3.6-3,600	3,600	117.0	97.5	EMD	Level 0 - Calculated - Modes PO1 & PO1-OS - 01-2016	9,673.1	15.8	7.02	6.48
114	Yes	VESTAS	V117-3.6-3,600	3,600	117.0	97.5	EMD	Level 0 - Calculated - Modes PO1 & PO1-OS - 01-2016	9,748.0	15.5	7.04	6.51
115	Yes	VESTAS	V117-3.6-3,600	3,600	117.0	97.5	EMD	Level 0 - Calculated - Modes PO1 & PO1-OS - 01-2016	9,749.0	15.2	7.02	6.51
116	Yes	VESTAS	V117-3.6-3,600	3,600	117.0	97.5	EMD	Level 0 - Calculated - Modes PO1 & PO1-OS - 01-2016	9,851.4	14.5	7.03	6.54
117	Yes	VESTAS	V117-3.6-3,600	3,600	117.0	97.5	EMD	Level 0 - Calculated - Modes PO1 & PO1-OS - 01-2016	9,929.7	13.5	7.02	6.57
118	Yes	VESTAS	V117-3.6-3,600	3,600	117.0	97.5	EMD	Level 0 - Calculated - Modes PO1 & PO1-OS - 01-2016	10,441.8	8.9	7.01	6.71
119	Yes	VESTAS	V117-3.6-3,600	3,600	117.0	97.5	EMD	Level 0 - Calculated - Modes PO1 & PO1-OS - 01-2016	9,728.1	14.6	6.99	6.53
120	Yes	VESTAS	V117-3.6-3,600	3,600	117.0	97.5	EMD	Level 0 - Calculated - Modes PO1 & PO1-OS - 01-2016	9,657.1	15.7	7.01	6.50
121	Yes	VESTAS	V117-3.6-3,600	3,600	117.0	97.5	EMD	Level 0 - Calculated - Modes PO1 & PO1-OS - 01-2016	9,613.1	15.8	7.00	6.48
122	Yes	VESTAS	V117-3.6-3,600	3,600	117.0	97.5	EMD	Level 0 - Calculated - Modes PO1 & PO1-OS - 01-2016	9,626.1	15.9	7.01	6.48
123	Yes	VESTAS	V117-3.6-3,600	3,600	117.0	97.5	EMD	Level 0 - Calculated - Modes PO1 & PO1-OS - 01-2016	9,626.0	15.9	7.01	6.48
124	Yes	VESTAS	V117-3.6-3,600	3,600	117.0	97.5	EMD	Level 0 - Calculated - Modes PO1 & PO1-OS - 01-2016	9,642.1	15.7	7.01	6.49
125	Yes	VESTAS	V117-3.6-3,600	3,600	117.0	97.5	EMD	Level 0 - Calculated - Modes PO1 & PO1-OS - 01-2016	9,693.7	15.4	7.01	6.51
126	Yes	VESTAS	V117-3.6-3,600	3,600	117.0	97.5	EMD	Level 0 - Calculated - Modes PO1 & PO1-OS - 01-2016	9,723.0	14.7	7.00	6.52
127	Yes	VESTAS	V117-3.6-3,600	3,600	117.0	97.5	EMD	Level 0 - Calculated - Modes PO1 & PO1-OS - 01-2016	10,198.8	10.7	7.00	6.66
128	Yes	VESTAS	V117-3.6-3,600	3,600	117.0	97.5	EMD	Level 0 - Calculated - Modes PO1 & PO1-OS - 01-2016	10,774.1	5.6	7.00	6.78
129	Yes	VESTAS	V117-3.6-3,600	3,600	117.0	97.5	EMD	Level 0 - Calculated - Modes PO1 & PO1-OS - 01-2016	10,509.9	7.8	7.00	6.70
130	Yes	VESTAS	V117-3.6-3,600	3,600	117.0	97.5	EMD	Level 0 - Calculated - Modes PO1 & PO1-OS - 01-2016	10,436.1	8.4	7.00	6.68
131	Yes	VESTAS	V117-3.6-3,600	3,600	117.0	97.5	EMD	Level 0 - Calculated - Modes PO1 & PO1-OS - 01-2016	10,388.3	8.5	6.99	6.66
132	Yes	VESTAS	V117-3.6-3,600	3,600	117.0	97.5	EMD	Level 0 - Calculated - Modes PO1 & PO1-OS - 01-2016	10,421.5	8.4	6.99	6.68
133	Yes	VESTAS	V117-3.6-3,600	3,600	117.0	97.5	EMD	Level 0 - Calculated - Modes PO1 & PO1-OS - 01-2016	10,404.8	8.3	6.98	6.67
134	Yes	VESTAS	V117-3.6-3,600	3,600	117.0	97.5	EMD	Level 0 - Calculated - Modes PO1 & PO1-OS - 01-2016	10,398.6	8.2	6.98	6.67
135	Yes	VESTAS	V117-3.6-3,600	3,600	117.0	97.5	EMD	Level 0 - Calculated - Modes PO1 & PO1-OS - 01-2016	10,357.4	7.7	6.95	6.67
136	Yes	VESTAS	V117-3.6-3,600	3,600	117.0	97.5	EMD	Level 0 - Calculated - Modes PO1 & PO1-OS - 01-2016	10,572.1	5.0	6.92	6.75

Annual Energy results do not include any losses apart from wake losses. Additional losses and uncertainty must be considered for an investment decision.

WTG siting

	Dutch Stereo-RD/NAP 2008				Row data/Description	Calculation period	
	X (east)	Y (north)	Z [m]	Start		End	
1 New	180,318.0	509,223.0	-4.9	GE WIND ENERGY	GE 3.8-130 3830 130.0 !O!	hub: 160,0 m (TOT: 225,0 m) (6289)	31/01/1993 31/01/2017
2 New	180,458.0	508,751.0	-6.0	GE WIND ENERGY	GE 3.8-130 3830 130.0 !O!	hub: 160,0 m (TOT: 225,0 m) (6290)	31/01/1993 31/01/2017
3 New	180,598.0	508,280.0	-4.3	GE WIND ENERGY	GE 3.8-130 3830 130.0 !O!	hub: 160,0 m (TOT: 225,0 m) (6291)	31/01/1993 31/01/2017
4 New	180,738.0	507,808.0	-4.0	GE WIND ENERGY	GE 3.8-130 3830 130.0 !O!	hub: 160,0 m (TOT: 225,0 m) (6292)	31/01/1993 31/01/2017
5 New	180,878.0	507,337.0	-6.0	GE WIND ENERGY	GE 3.8-130 3830 130.0 !O!	hub: 160,0 m (TOT: 225,0 m) (6293)	31/01/1993 31/01/2017
6 New	181,018.0	506,865.0	-4.0	GE WIND ENERGY	GE 3.8-130 3830 130.0 !O!	hub: 160,0 m (TOT: 225,0 m) (6294)	31/01/1993 31/01/2017
7 New	181,158.0	506,393.0	-5.0	GE WIND ENERGY	GE 3.8-130 3830 130.0 !O!	hub: 160,0 m (TOT: 225,0 m) (6295)	31/01/1993 31/01/2017
8 New	181,299.0	505,922.0	-5.7	GE WIND ENERGY	GE 3.8-130 3830 130.0 !O!	hub: 160,0 m (TOT: 225,0 m) (6296)	31/01/1993 31/01/2017
9 New	181,447.0	505,422.0	-6.5	GE WIND ENERGY	GE 3.8-130 3830 130.0 !O!	hub: 160,0 m (TOT: 225,0 m) (6297)	31/01/1993 31/01/2017
10 New	181,432.0	504,870.0	-4.0	GE WIND ENERGY	GE 3.8-130 3830 130.0 !O!	hub: 160,0 m (TOT: 225,0 m) (6298)	31/01/1993 31/01/2017
11 New	181,291.0	504,305.0	-5.0	GE WIND ENERGY	GE 3.8-130 3830 130.0 !O!	hub: 160,0 m (TOT: 225,0 m) (6299)	31/01/1993 31/01/2017
12 New	181,143.0	503,712.0	-5.7	GE WIND ENERGY	GE 3.8-130 3830 130.0 !O!	hub: 160,0 m (TOT: 225,0 m) (6300)	31/01/1993 31/01/2017
13 New	180,994.0	503,118.0	-5.4	GE WIND ENERGY	GE 3.8-130 3830 130.0 !O!	hub: 160,0 m (TOT: 225,0 m) (6301)	31/01/1993 31/01/2017
14 New	180,846.0	502,524.0	-5.1	GE WIND ENERGY	GE 3.8-130 3830 130.0 !O!	hub: 160,0 m (TOT: 225,0 m) (6302)	31/01/1993 31/01/2017
15 New	180,704.0	501,956.0	-5.0	GE WIND ENERGY	GE 3.8-130 3830 130.0 !O!	hub: 160,0 m (TOT: 225,0 m) (6303)	31/01/1993 31/01/2017
16 New	180,568.0	501,412.0	-5.0	GE WIND ENERGY	GE 3.8-130 3830 130.0 !O!	hub: 160,0 m (TOT: 225,0 m) (6304)	31/01/1993 31/01/2017
17 New	180,438.0	500,893.0	-4.9	GE WIND ENERGY	GE 3.8-130 3830 130.0 !O!	hub: 160,0 m (TOT: 225,0 m) (6305)	31/01/1993 31/01/2017
18 New	180,314.0	500,398.0	-5.1	GE WIND ENERGY	GE 3.8-130 3830 130.0 !O!	hub: 160,0 m (TOT: 225,0 m) (6306)	31/01/1993 31/01/2017
19 New	180,038.0	499,969.0	-5.5	GE WIND ENERGY	GE 3.8-130 3830 130.0 !O!	hub: 160,0 m (TOT: 225,0 m) (6307)	31/01/1993 31/01/2017
20 New	179,640.0	499,651.0	-6.0	GE WIND ENERGY	GE 3.8-130 3830 130.0 !O!	hub: 160,0 m (TOT: 225,0 m) (6308)	31/01/1993 31/01/2017
21 New	179,242.0	499,332.0	-5.0	GE WIND ENERGY	GE 3.8-130 3830 130.0 !O!	hub: 160,0 m (TOT: 225,0 m) (6309)	31/01/1993 31/01/2017
22 New	178,844.0	499,013.0	-5.0	GE WIND ENERGY	GE 3.8-130 3830 130.0 !O!	hub: 160,0 m (TOT: 225,0 m) (6310)	31/01/1993 31/01/2017
23 New	178,446.0	498,694.0	-5.1	GE WIND ENERGY	GE 3.8-130 3830 130.0 !O!	hub: 160,0 m (TOT: 225,0 m) (6311)	31/01/1993 31/01/2017
24 New	178,048.0	498,376.0	-4.8	GE WIND ENERGY	GE 3.8-130 3830 130.0 !O!	hub: 160,0 m (TOT: 225,0 m) (6312)	31/01/1993 31/01/2017

To be continued on next page...

PARK - Main Result

Calculation: Alternatief 4

...continued from previous page

		Dutch Stereo-RD/NAP 2008			Calculation period	
	X (east)	Y (north)	Z [m]	Row data/Description	Start	End
25	New	177,650.0	498,057.0	-5.0 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6313)	31/01/1993	31/01/2017
26	New	177,252.0	497,738.0	-5.6 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6314)	31/01/1993	31/01/2017
27	New	181,793.0	509,714.0	-3.9 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6315)	31/01/1993	31/01/2017
28	New	181,946.0	509,248.0	-4.4 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6316)	31/01/1993	31/01/2017
29	New	182,099.0	508,783.0	-4.2 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6317)	31/01/1993	31/01/2017
30	New	182,252.0	508,317.0	-3.6 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6318)	31/01/1993	31/01/2017
31	New	182,391.0	507,847.0	-3.0 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6319)	31/01/1993	31/01/2017
32	New	182,531.0	507,378.0	-5.6 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6320)	31/01/1993	31/01/2017
33	New	182,670.0	506,908.0	-3.7 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6321)	31/01/1993	31/01/2017
34	New	182,809.0	506,438.0	-3.5 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6322)	31/01/1993	31/01/2017
35	New	182,950.0	505,969.0	-4.3 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6323)	31/01/1993	31/01/2017
36	New	183,027.0	505,485.0	-4.8 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6324)	31/01/1993	31/01/2017
37	New	183,028.0	504,995.0	-5.4 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6325)	31/01/1993	31/01/2017
38	New	183,030.0	504,505.0	-5.0 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6326)	31/01/1993	31/01/2017
39	New	182,978.0	504,018.0	-5.8 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6327)	31/01/1993	31/01/2017
40	New	182,884.0	503,537.0	-4.0 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6328)	31/01/1993	31/01/2017
41	New	182,791.0	503,056.0	-3.9 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6329)	31/01/1993	31/01/2017
42	New	182,697.0	502,575.0	-4.3 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6330)	31/01/1993	31/01/2017
43	New	182,599.0	502,070.0	-4.1 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6331)	31/01/1993	31/01/2017
44	New	182,497.0	501,544.0	-3.3 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6332)	31/01/1993	31/01/2017
45	New	182,395.0	501,018.0	-4.1 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6333)	31/01/1993	31/01/2017
46	New	182,292.0	500,492.0	-6.0 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6334)	31/01/1993	31/01/2017
47	New	182,190.0	499,966.0	-4.8 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6335)	31/01/1993	31/01/2017
48	New	181,881.0	499,582.0	-4.1 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6336)	31/01/1993	31/01/2017
49	New	181,573.0	499,198.0	-4.0 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6337)	31/01/1993	31/01/2017
50	New	181,264.0	498,815.0	-5.0 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6338)	31/01/1993	31/01/2017
51	New	180,956.0	498,431.0	-5.0 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6339)	31/01/1993	31/01/2017
52	New	180,647.0	498,047.0	-4.6 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6340)	31/01/1993	31/01/2017
53	New	180,339.0	497,663.0	-5.0 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6341)	31/01/1993	31/01/2017
54	New	179,917.0	497,364.0	-4.6 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6342)	31/01/1993	31/01/2017
55	New	179,495.0	497,065.0	-5.2 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6343)	31/01/1993	31/01/2017
56	New	179,073.0	496,767.0	-5.7 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6344)	31/01/1993	31/01/2017
57	New	178,651.0	496,468.0	-5.8 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6345)	31/01/1993	31/01/2017
58	New	178,229.0	496,169.0	-4.9 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6346)	31/01/1993	31/01/2017
59	New	177,807.0	495,871.0	-5.9 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6347)	31/01/1993	31/01/2017
60	New	176,499.0	498,845.0	-5.6 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6374)	31/01/1993	31/01/2017
61	New	176,062.0	499,045.0	-5.0 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6375)	31/01/1993	31/01/2017
62	New	175,625.0	499,244.0	-5.0 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6376)	31/01/1993	31/01/2017
63	New	175,189.0	499,443.0	-5.4 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6377)	31/01/1993	31/01/2017
64	New	174,752.0	499,642.0	-5.1 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6378)	31/01/1993	31/01/2017
65	New	173,278.0	500,081.0	-5.9 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6379)	31/01/1993	31/01/2017
66	New	172,881.0	499,786.0	-6.0 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6380)	31/01/1993	31/01/2017
67	New	172,483.0	499,492.0	-5.8 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6381)	31/01/1993	31/01/2017
68	New	172,085.0	499,197.0	-5.2 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6382)	31/01/1993	31/01/2017
69	New	171,687.0	498,903.0	-5.9 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6383)	31/01/1993	31/01/2017
70	New	171,289.0	498,608.0	-5.4 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6384)	31/01/1993	31/01/2017
71	New	170,891.0	498,314.0	-6.5 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6385)	31/01/1993	31/01/2017
72	New	170,494.0	498,019.0	-4.4 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6386)	31/01/1993	31/01/2017
73	New	174,097.0	495,754.0	-5.0 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6393)	31/01/1993	31/01/2017
74	New	173,803.0	496,133.0	-5.0 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6394)	31/01/1993	31/01/2017
75	New	173,508.0	496,512.0	-4.4 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6395)	31/01/1993	31/01/2017
76	New	173,214.0	496,891.0	-6.3 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6396)	31/01/1993	31/01/2017
77	New	172,920.0	497,270.0	-6.0 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6397)	31/01/1993	31/01/2017
78	New	172,625.0	497,650.0	-4.4 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6398)	31/01/1993	31/01/2017
79	New	172,331.0	498,029.0	-6.0 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6399)	31/01/1993	31/01/2017
80	New	172,711.0	494,676.0	-5.0 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6400)	31/01/1993	31/01/2017
81	New	172,417.0	495,056.0	-5.0 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6401)	31/01/1993	31/01/2017
82	New	172,123.0	495,435.0	-5.0 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6402)	31/01/1993	31/01/2017
83	New	171,829.0	495,814.0	-5.7 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6403)	31/01/1993	31/01/2017
84	New	171,534.0	496,193.0	-5.9 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6404)	31/01/1993	31/01/2017
85	New	171,240.0	496,573.0	-6.0 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6405)	31/01/1993	31/01/2017
86	New	170,946.0	496,952.0	-5.0 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6406)	31/01/1993	31/01/2017
87	New	175,861.0	494,803.0	-5.0 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6407)	31/01/1993	31/01/2017
88	New	175,458.0	494,479.0	-5.4 GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6408)	31/01/1993	31/01/2017

To be continued on next page...

PARK - Main Result

Calculation: Alternatief 4

...continued from previous page

Dutch Stereo-RD/NAP 2008				Calculation period		
	X (east)	Y (north)	Z [m]	Row data/Description	Start	End
89 New	175,041.0	494,144.0	-5.0	GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6409)	31/01/1993	31/01/2017
90 New	174,638.0	493,821.0	-5.0	GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6410)	31/01/1993	31/01/2017
91 New	174,235.0	493,497.0	-4.2	GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6411)	31/01/1993	31/01/2017
92 New	173,831.0	493,174.0	-4.6	GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6412)	31/01/1993	31/01/2017
93 New	173,428.0	492,851.0	-5.0	GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6413)	31/01/1993	31/01/2017
94 New	173,025.0	492,527.0	-5.9	GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6414)	31/01/1993	31/01/2017
95 New	172,621.0	492,204.0	-4.8	GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6415)	31/01/1993	31/01/2017
96 New	172,218.0	491,880.0	-4.6	GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6416)	31/01/1993	31/01/2017
97 New	171,814.0	491,557.0	-3.9	GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6417)	31/01/1993	31/01/2017
98 New	171,411.0	491,234.0	-4.7	GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6418)	31/01/1993	31/01/2017
99 New	170,870.0	492,978.0	-5.2	GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6426)	31/01/1993	31/01/2017
100 New	170,560.0	493,383.0	-5.8	GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6427)	31/01/1993	31/01/2017
101 New	170,251.0	493,788.0	-5.4	GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6428)	31/01/1993	31/01/2017
102 New	169,941.0	494,194.0	-5.8	GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6429)	31/01/1993	31/01/2017
103 New	169,632.0	494,599.0	-5.2	GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6430)	31/01/1993	31/01/2017
104 New	169,323.0	495,005.0	-6.0	GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6431)	31/01/1993	31/01/2017
105 New	169,013.0	495,410.0	-5.0	GE WIND ENERGY GE 3.8-130 3830 130.0 !O! hub: 160,0 m (TOT: 225,0 m) (6432)	31/01/1993	31/01/2017
106 New	169,445.0	493,142.0	-5.8	VESTAS V117-3.6 3600 117.0 !O! hub: 97,5 m (TOT: 156,0 m) (6433)	31/01/1993	31/01/2017
107 New	169,125.0	492,895.0	-5.0	VESTAS V117-3.6 3600 117.0 !O! hub: 97,5 m (TOT: 156,0 m) (6434)	31/01/1993	31/01/2017
108 New	168,804.0	492,648.0	-4.2	VESTAS V117-3.6 3600 117.0 !O! hub: 97,5 m (TOT: 156,0 m) (6435)	31/01/1993	31/01/2017
109 New	168,483.0	492,401.0	-6.5	VESTAS V117-3.6 3600 117.0 !O! hub: 97,5 m (TOT: 156,0 m) (6436)	31/01/1993	31/01/2017
110 New	168,162.0	492,154.0	-5.0	VESTAS V117-3.6 3600 117.0 !O! hub: 97,5 m (TOT: 156,0 m) (6437)	31/01/1993	31/01/2017
111 New	167,858.0	491,833.0	-6.0	VESTAS V117-3.6 3600 117.0 !O! hub: 97,5 m (TOT: 156,0 m) (6438)	31/01/1993	31/01/2017
112 New	167,554.0	491,512.0	-5.1	VESTAS V117-3.6 3600 117.0 !O! hub: 97,5 m (TOT: 156,0 m) (6439)	31/01/1993	31/01/2017
113 New	167,250.0	491,191.0	-5.0	VESTAS V117-3.6 3600 117.0 !O! hub: 97,5 m (TOT: 156,0 m) (6440)	31/01/1993	31/01/2017
114 New	166,946.0	490,870.0	-5.9	VESTAS V117-3.6 3600 117.0 !O! hub: 97,5 m (TOT: 156,0 m) (6441)	31/01/1993	31/01/2017
115 New	166,642.0	490,549.0	-6.0	VESTAS V117-3.6 3600 117.0 !O! hub: 97,5 m (TOT: 156,0 m) (6442)	31/01/1993	31/01/2017
116 New	166,338.0	490,229.0	-5.3	VESTAS V117-3.6 3600 117.0 !O! hub: 97,5 m (TOT: 156,0 m) (6443)	31/01/1993	31/01/2017
117 New	166,034.0	489,908.0	-5.9	VESTAS V117-3.6 3600 117.0 !O! hub: 97,5 m (TOT: 156,0 m) (6444)	31/01/1993	31/01/2017
118 New	165,730.0	489,587.0	-5.7	VESTAS V117-3.6 3600 117.0 !O! hub: 97,5 m (TOT: 156,0 m) (6445)	31/01/1993	31/01/2017
119 New	166,921.0	493,323.0	-6.3	VESTAS V117-3.6 3600 117.0 !O! hub: 97,5 m (TOT: 156,0 m) (6447)	31/01/1993	31/01/2017
120 New	166,616.0	493,003.0	-4.0	VESTAS V117-3.6 3600 117.0 !O! hub: 97,5 m (TOT: 156,0 m) (6448)	31/01/1993	31/01/2017
121 New	166,312.0	492,683.0	-5.6	VESTAS V117-3.6 3600 117.0 !O! hub: 97,5 m (TOT: 156,0 m) (6449)	31/01/1993	31/01/2017
122 New	166,007.0	492,362.0	-5.8	VESTAS V117-3.6 3600 117.0 !O! hub: 97,5 m (TOT: 156,0 m) (6450)	31/01/1993	31/01/2017
123 New	165,703.0	492,042.0	-5.1	VESTAS V117-3.6 3600 117.0 !O! hub: 97,5 m (TOT: 156,0 m) (6451)	31/01/1993	31/01/2017
124 New	165,398.0	491,722.0	-6.0	VESTAS V117-3.6 3600 117.0 !O! hub: 97,5 m (TOT: 156,0 m) (6452)	31/01/1993	31/01/2017
125 New	165,094.0	491,402.0	-4.3	VESTAS V117-3.6 3600 117.0 !O! hub: 97,5 m (TOT: 156,0 m) (6453)	31/01/1993	31/01/2017
126 New	164,789.0	491,082.0	-6.0	VESTAS V117-3.6 3600 117.0 !O! hub: 97,5 m (TOT: 156,0 m) (6454)	31/01/1993	31/01/2017
127 New	164,485.0	490,762.0	-5.0	VESTAS V117-3.6 3600 117.0 !O! hub: 97,5 m (TOT: 156,0 m) (6455)	31/01/1993	31/01/2017
128 New	164,937.0	488,734.0	-5.0	VESTAS V117-3.6 3600 117.0 !O! hub: 97,5 m (TOT: 156,0 m) (6463)	31/01/1993	31/01/2017
129 New	164,643.0	488,998.0	-4.9	VESTAS V117-3.6 3600 117.0 !O! hub: 97,5 m (TOT: 156,0 m) (6464)	31/01/1993	31/01/2017
130 New	164,348.0	489,261.0	-4.2	VESTAS V117-3.6 3600 117.0 !O! hub: 97,5 m (TOT: 156,0 m) (6465)	31/01/1993	31/01/2017
131 New	164,054.0	489,525.0	-5.0	VESTAS V117-3.6 3600 117.0 !O! hub: 97,5 m (TOT: 156,0 m) (6466)	31/01/1993	31/01/2017
132 New	163,760.0	489,788.0	-5.4	VESTAS V117-3.6 3600 117.0 !O! hub: 97,5 m (TOT: 156,0 m) (6467)	31/01/1993	31/01/2017
133 New	163,466.0	490,052.0	-5.6	VESTAS V117-3.6 3600 117.0 !O! hub: 97,5 m (TOT: 156,0 m) (6468)	31/01/1993	31/01/2017
134 New	163,191.0	490,336.0	-4.1	VESTAS V117-3.6 3600 117.0 !O! hub: 97,5 m (TOT: 156,0 m) (6469)	31/01/1993	31/01/2017
135 New	162,917.0	490,620.0	-4.7	VESTAS V117-3.6 3600 117.0 !O! hub: 97,5 m (TOT: 156,0 m) (6470)	31/01/1993	31/01/2017
136 New	162,642.0	490,904.0	-4.7	VESTAS V117-3.6 3600 117.0 !O! hub: 97,5 m (TOT: 156,0 m) (6471)	31/01/1993	31/01/2017