

Solar Energy Conference

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Inhoud presentatie

- Aanschaf
- Data analyse
- Resultaten
- Bevindingen, aanbevelingen
- (Implicaties vonnis)
- Punten voor discussie



Aanschaf

- Start
- Aanvraag
- Plaatsing nieuwe meter
- Keuring
- (Terug-) leverovereenkomst

- Verrekeningen eerste jaren
- Nieuwe administratie systeem van Aqualectra





Data analyse

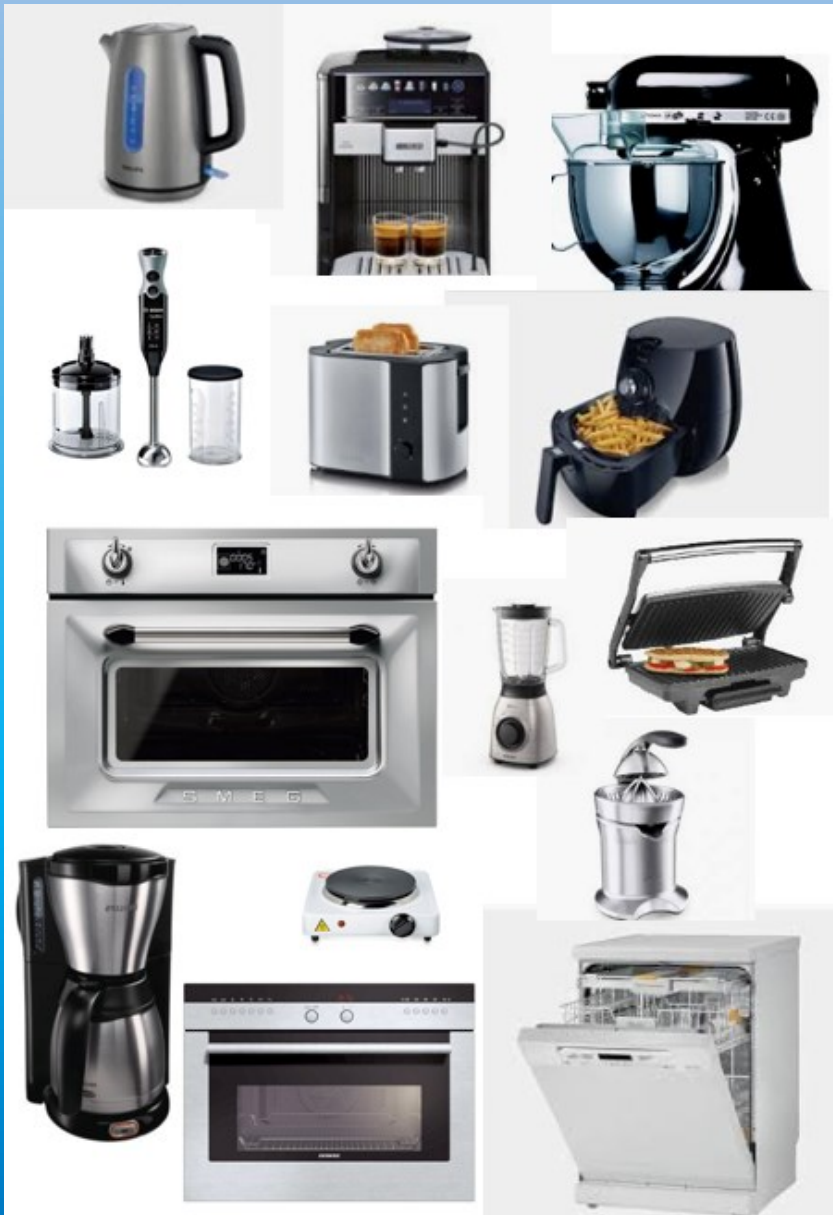
- Gebruikersprofiel
 - Verschil Noord / Zuid
 - Storing/onderbreking
 - Vergelijk met Meteo
-
- Hellingshoek
 - Koeling
 - Schoonmaak



Gebruikersprofiel







Dimensie van de installatie

	A	B	C	D	F	
	Qty.	Watts	Hrs/Day	Days/Week	Watt hrs/Day	
1	Appliance					
2	Lights					
3	Fluorescent Lights	0	20	5	7	0
4	Halogen Lights	0	20	5	7	0
5	Regular Lights	0	60	5	7	0
6	Lighting LED	0	12	5	7	0
7	Cooling					
8	Fan	1	75	4	7	300
9	9,000 BTU split level AC	1	860	4	2	983
10	12,000 BTU split level AC	0	1,130	4	7	0
11	18,000 BTU split level AC	0	1,700	8	7	0
12	24,000 BTU split level AC	0	2,260	8	7	0
13	Refrigeration					
14	Refrigerator large	1	550	4	7	2,200
	Small	0	330	7	7	0
			665	7	7	0
		0	400	7	7	0
		1	350	0,1	1	5
		1	800	0,2	7	160
	ven	1	900	0,4	7	360
		0	600	0,1	5	0
			700	1	2	0
	sal		700			0
			700			0
			1,400			0
	inch Plasma)	1	125	5	7	625
	inch LCD)		67			
		0	40	2	7	0
	water		175			0
		1	30	12	7	360
33	Jet Printer		30			0
34	Large printer - printing	0	1,500	0,1	1	0
35	Large printer - idling		20	0,1	1	0
36	Small printer	1	50	0,1	1	1
37	Phone Answering Machine	0	6	5	7	0
38	Cell Phone Charger	2	2	1	3	2
39	Wifi router	1	35	12	7	420
40	Plug loads	2	100	4	7	800
41	Household					
42	Washing Machine	1	500	0,5	2	71
43	Dryer	1	350	0,5	2	50
44	Sewing Machine		80			0
45	Clothes Iron	1	1,000	0,5	1	71
46	Vacuum Cleaner		650			0
47	Hair Dryer & curling iron		1,000			0
48	Power Tools					
49	Small Power Tool		350			0
50	Med. Power Tool		700			0
51	Large Power Tool		1100			0
52	Battery Charger		12			0
53	Battery Charger Idle		2			0
54	Water Pumping					
55	Well Pump 1/2 HP	0	700	0,5	7	0
56	Total Daily Average kWh's				6,4	
57						
119	kWh/kWp per day		4,1			
120	Solar array kWp		1,6			
121	Number of panels (250W) needed		8			
122	Surface needed m2		14			
123						
124						

Dimensie van de installatie	
kWh/kWp per day	4,1
Solar array kWp	1,6
Number of panels (250 kWh) needed	8
Surface needed m2	14



Gemiddeld verbruik

# mnd	68	kWh	kWh
		Totaal	Gem. maand
Verbruik	Overdag	21.159	311
	Nacht	44.390	653
			964

Gegevens SMA's

Aantal kWh per
Uur, dag, maand en jaar

	A	B	C	D	E	F	G
1	Datum	SN: 2120231555		SN: 2130119566			
2		SB 2000HF-30		SB 5000TL-21			
3							
4		Totale opbrengst	Dagopbrengst	Totale opbrengst	Dagopbrengst		
5		kWh	kWh	kWh	kWh		
6							
7	01-01-18	12.674,426	7,925	41.725,459	18,729	26,654	
8	02-01-18	12.682,397	7,971	41.744,241	18,782	26,753	
9	03-01-18	12.690,417	8,020	41.763,531	19,290	27,310	
10	04-01-18	12.699,810	9,393	41.785,335	21,804	31,197	
11	05-01-18	12.708,936	9,126	41.806,798	21,463	30,589	
12	06-01-18	12.717,464	8,528	41.826,409	19,611	28,139	
13	07-01-18	12.722,715	5,251	41.842,857	16,448	21,699	
14	08-01-18	12.728,633	5,918	41.858,878	16,021	21,939	
15	09-01-18	12.737,151	8,518	41.878,898	20,020	28,538	
16	10-01-18	12.744,938	7,787	41.897,334	18,436	26,223	
17	11-01-18	12.754,913	9,975	41.920,502	23,168	33,143	
18	12-01-18	12.761,575	6,662	41.937,615	17,113	23,775	
19	13-01-18	12.770,522	8,947	41.958,672	21,057	30,004	
20	14-01-18	12.780,289	9,767	41.980,913	22,241	32,008	
21	15-01-18	12.787,497	7,208	41.997,972	17,059	24,267	
22	16-01-18	12.796,082	8,585	42.018,563	20,591	29,176	
23	17-01-18	12.805,800	9,718	42.041,090	22,527	32,245	
24	18-01-18	12.814,142	8,342	42.061,362	20,272	28,614	
25	19-01-18	12.823,656	9,514	42.083,594	22,232	31,746	
26	20-01-18	12.831,712	8,056	42.102,535	18,941	26,997	
27	21-01-18	12.838,821	7,109	42.120,260	17,725	24,834	
28	22-01-18	12.848,260	9,439	42.142,916	22,656	32,095	
29	23-01-18	12.859,464	11,204	42.168,695	25,779	36,983	
30	24-01-18	12.869,607	10,143	42.192,552	23,857	34,000	
31	25-01-18	12.877,877	8,270	42.212,422	19,870	28,140	
32	26-01-18	12.884,580	6,703	42.230,046	17,624	24,327	
33	27-01-18	12.893,082	8,502	42.250,809	20,763	29,265	
34	28-01-18	12.903,571	10,489	42.275,095	24,286	34,775	
35	29-01-18	12.912,074	8,503	42.296,462	21,367	29,870	
36	30-01-18	12.922,071	9,997	42.320,166	23,704	33,701	
37	31-01-18	12.931,146	9,075	42.342,370	22,204	31,279	900,285
38	01-02-18	12.941,111	9,965	42.365,796	23,426	33,391	
39	02-02-18	12.950,690	9,579	42.388,755	22,959	32,538	
40	03-02-18	12.955,803	5,113	42.406,167	17,412	22,525	
41	04-02-18	12.963,401	7,598	42.425,031	18,864	26,462	
42	05-02-18	12.971,985	8,584	42.446,222	21,191	29,775	
43	06-02-18	12.982,346	10,361	42.471,132	24,910	35,271	
44	07-02-18	12.992,116	9,770	42.494,912	23,780	33,550	
45	08-02-18	13.001,027	8,911	42.517,507	22,595	31,506	
46	09-02-18	13.011,572	10,545	42.542,993	25,486	36,031	
47	10-02-18	13.021,605	10,033	42.567,674	24,681	34,714	
48	11-02-18	13.030,887	9,282	42.590,709	23,035	32,317	
49	12-02-18	13.040,138	9,251	42.613,784	23,075	32,326	
50	13-02-18	13.048,755	8,617	42.634,932	21,148	29,765	
51	14-02-18	13.056,933	8,178	42.655,145	20,213	28,391	
52	15-02-18	13.064,166	7,233	42.673,571	18,426	25,659	
53	16-02-18	13.074,962	10,796	42.699,922	26,351	37,147	
54	17-02-18	13.084,475	9,513	42.723,434	23,512	33,025	
55	18-02-18	13.095,424	10,949	42.750,093	26,659	37,608	
56	19-02-18	13.106,111	10,687	42.776,644	26,551	37,238	
57	20-02-18	13.114,356	8,245	42.798,829	22,185	30,430	
58	21-02-18	13.123,968	9,612	42.823,571	24,742	34,354	
59	22-02-18	13.130,995	7,027	42.841,170	17,599	24,626	
60	23-02-18	13.138,195	7,200	42.860,036	18,866	26,066	
61	24-02-18	13.146,794	8,599	42.881,710	21,674	30,273	
62	25-02-18	13.158,121	11,327	42.909,887	28,177	39,504	
63	26-02-18	13.167,553	9,432	42.933,074	23,187	32,619	
64	27-02-18	13.177,562	10,009	42.958,183	25,109	35,118	
65	28-02-18	13.186,776	9,214	42.981,551	23,368	32,582	894,811

Productie

# mnd	68	kWh	
		Totaal	Gem. maand
Totaal	SMA	69.699	1.025
	Delivered	48.540	714

Gebruikersprofiel

# mnd	68	kWh	
		Totaal	Gem. maand
Totaal	SMA	69.699	1.025
	Delivered	48.540	714

# mnd	68	kWh		%
		Totaal	Gem. maand	
Verbruik	Overdag	21.159	311	32%
	Nacht	44.390	653	68%

Maximale opbrengst per dag

	SMA2000IHF	SMA5000TL
	kWh	kWh
2014	11,63	32,53
2015	12,35	32,71
2016	12,09	32,76
2017	11,55	32,24
2018	11,69	31,99

	SN: 2120231555 SB 2000HF-30		SN: 2130119566 SB 5000TL-21					
Datum	Totale opbrengst kWh	Dagopbrengst kWh	Totale opbrengst kWh	Dagopbrengst kWh				
01-01-18	12.674,426	7,925	41.725,459	18,729	26,654			
02-01-18	12.682,397	7,971	41.744,241	18,782	26,753			
03-01-18	12.690,417	8,020	41.763,531	19,290	27,310			
04-01-18	12.699,810	9,393	41.785,335	21,804	31,197			
05-01-18	12.708,936	9,126	41.806,798	21,463	30,589			
06-01-18	12.717,464	8,528	41.826,409	19,611	28,139			
07-01-18	12.722,715	5,251	41.842,857	16,448	21,699			
08-01-18	12.728,633	5,918	41.858,878	16,021	21,939			
09-01-18	12.737,151	8,518	41.878,898	20,020	28,538			
10-01-18	12.744,938	7,787	41.897,334	18,436	26,223			
11-01-18	12.754,913	9,975	41.920,502	23,168	33,143			
12-01-18	12.761,575	6,662	41.937,615	19,375	23,775			
13-01-18	12.770,522	8,947	41.956,672	21,057	30,004			
14-01-18	12.780,289	9,767	41.980,913	22,241	32,008			
15-01-18	12.787,697	7,208	41.997,972	17,059	24,267			
16-01-18	12.796,082	8,585	42.018,563	20,591	29,176			
17-01-18	12.805,800	9,718	42.041,090	22,527	32,245			
18-01-18	12.814,142	8,342	42.061,362	20,272	28,614			
19-01-18	12.823,656	9,514	42.085,594	22,232	31,746			
20-01-18	12.831,712	8,056	42.102,535	18,941	26,997			
21-01-18	12.838,821	7,109	42.120,260	17,725	24,834			
22-01-18	12.848,260	9,439	42.142,916	22,656	32,095			
23-01-18	12.859,464	11,204	42.168,695	25,779	36,983			
24-01-18	12.869,607	10,143	42.192,552	23,857	34,000			
25-01-18	12.877,877	8,270	42.212,422	19,870	28,140			
26-01-18	12.884,580	6,703	42.230,046	17,624	24,327			
27-01-18	12.893,082	8,502	42.250,809	20,763	29,265			
28-01-18	12.903,571	10,489	42.275,095	24,286	34,775			
29-01-18	12.912,074	8,503	42.296,462	21,367	29,870			
30-01-18	12.922,071	9,997	42.320,166	23,704	33,701			
31-01-18	12.931,146	9,075	42.342,370	22,204	31,279	900,285		
01-02-18	12.941,111	9,965	42.365,796	23,426	33,391			
02-02-18	12.950,690	9,579	42.388,755	22,959	32,538			
03-02-18	12.955,803	5,113	42.406,167	17,412	22,525			
04-02-18	12.963,401	7,598	42.425,031	18,864	26,462			
05-02-18	12.971,985	8,584	42.446,222	21,191	29,775			
06-02-18	12.982,346	10,361	42.471,132	24,910	35,271			
07-02-18	12.992,116	9,770	42.494,912	23,780	33,550			
08-02-18	13.001,027	8,911	42.517,507	22,595	31,506			
09-02-18	13.011,572	10,545	42.542,993	25,486	36,031			
10-02-18	13.021,605	10,033	42.567,674	24,081	34,714			
11-02-18	13.030,887	9,282	42.590,709	23,035	33,117			
12-02-18	13.040,138	9,251	42.613,784	23,075	32,326			
13-02-18	13.048,755	8,617	42.634,932	21,148	29,765			
14-02-18	13.056,933	8,178	42.655,145	20,213	28,391			
15-02-18	13.064,166	7,233	42.673,571	18,426	25,659			
16-02-18	13.074,962	10,796	42.699,922	26,351	37,147			
17-02-18	13.084,475	9,513	42.723,434	23,512	33,025			
18-02-18	13.095,424	10,949	42.750,093	26,659	37,608			
19-02-18	13.106,111	10,687	42.776,644	26,551	37,238			
20-02-18	13.114,356	8,245	42.798,829	22,185	30,430			
21-02-18	13.123,968	9,612	42.823,571	24,742	34,354			
22-02-18	13.130,905	7,027	42.841,170	17,599	24,626			
23-02-18	13.138,195	7,200	42.860,036	18,866	26,066			
24-02-18	13.146,794	8,599	42.881,710	21,674	30,273			
25-02-18	13.158,121	11,327	42.909,887	28,177	39,504			
26-02-18	13.167,553	9,432	42.933,074	23,187	32,619			
27-02-18	13.177,562	10,009	42.956,183	25,109	35,118			
28-02-18	13.186,776	9,214	42.981,551	23,368	32,582	894,811		
01-03-18	13.197,061	10,285	43.006,886	25,335	35,620			
02-03-18	13.208,195	11,134	43.034,702	27,816	38,950			
03-03-18	13.216,157	7,962	43.055,452	20,750	28,712			
04-03-18	13.222,972	8,615	43.073,761	18,309	25,124			
05-03-18	13.231,509	8,537	43.096,016	22,255	30,792			
06-03-18	13.238,829	7,320	43.116,098	20,082	27,402			
07-03-18	13.247,175	8,346	43.138,177	22,079	30,425			
08-03-18	13.256,124	8,949	43.161,207	23,030	31,979			
09-03-18	13.266,104	9,980	43.186,429	25,222	35,202			
10-03-18	13.276,060	9,956	43.211,445	27,016	36,972			
11-03-18	13.285,287	9,227	43.237,505	24,060	33,287			
12-03-18	13.294,684	9,397	43.262,009	24,504	33,901			
13-03-18	13.306,369	11,685	43.292,682	30,673	42,358			
14-03-18	13.317,490	11,121	43.322,140	29,458	40,579			
15-03-18	13.328,927	11,137	43.355,131	29,991	41,138			
16-03-18	13.338,240	9,413	43.377,346	25,215	34,628			
17-03-18	13.347,216	8,976	43.401,462	24,116	33,092			
18-03-18	13.358,054	10,838	43.401,815	0,353	11,191			
19-03-18	13.368,638	10,584	43.416,210	14,395	26,979			
20-03-18	13.379,936	10,298	43.441,660	25,450	35,748			
21-03-18	13.387,631	8,695	43.465,501	23,841	32,536			
22-03-18	13.398,253	10,622	43.494,032	28,531	39,153			
23-03-18	13.409,240	10,987	43.523,453	29,421	40,408			
24-03-18	13.418,552	9,312	43.548,180	24,727	34,039			
25-03-18	13.427,569	9,017	43.576,870	28,690	37,707			
26-03-18	13.438,344	10,775	43.605,961	29,091	39,866			
27-03-18	13.447,689	9,345	43.631,751	25,790	35,135			
28-03-18	13.456,899	9,210	43.656,613	24,862	34,072			
29-03-18	13.467,735	10,836	43.685,311	28,688	38,634			
	2014	2015	2016	2017	2018			



Plaatsing panelen

2018	kWh	Percentage
Noord	3.753	44,7%
Zuid	4.650	55,3%

	A	B	C	D	E	F	G	H	I
1	Datum	SN: 2120231555		SN: 2130119566					
2		SB 2000HF-30		SB 5000TL-21					
3									
4		Totale opbrengst	Dagopbrengst	Totale opbrengst	Dagopbrengst				
5		kWh	kWh	kWh	kWh				
6									
7	01-01-18	12.674,426	7,925	41.725,459	18,729	26,654			
8	02-01-18	12.682,397	7,971	41.744,241	18,782	26,753			
9	03-01-18	12.690,417	8,020	41.763,531	19,290	27,310			
10	04-01-18	12.699,810	9,393	41.785,335	21,804	31,197			
11	05-01-18	12.708,936	9,126	41.806,798	21,463	30,589			
12	06-01-18	12.717,464	8,528	41.826,409	19,611	28,139			
13	07-01-18	12.722,715	5,251	41.842,857	16,448	21,699			
14	08-01-18	12.728,633	5,918	41.856,878	16,021	21,939			
15	09-01-18	12.737,151	8,518	41.878,898	20,020	28,538			
16	10-01-18	12.744,938	7,787	41.897,334	18,436	26,223			
17	11-01-18	12.754,913	9,975	41.920,502	23,168	33,143			
18	12-01-18	12.761,575	6,662	41.937,615	17,113	23,775			
19	13-01-18	12.770,522	8,947	41.956,672	21,057	30,004			
20	14-01-18	12.780,289	9,767	41.980,913	22,241	32,008			
21	15-01-18	12.787,697	7,208	41.997,972	17,059	24,267			
22	16-01-18	12.796,082	8,585	42.018,563	20,591	29,176			
23	17-01-18	12.805,800	9,718	42.041,090	22,527	32,245			
24	18-01-18	12.814,142	8,342	42.061,362	20,272	28,614			
25	19-01-18	12.823,656	9,514	42.083,594	22,232	31,746			
26	20-01-18	12.831,712	8,056	42.102,535	18,941	26,997			
27	21-01-18	12.838,821	7,109	42.120,260	17,725	24,834			
28	22-01-18	12.848,260	9,439	42.142,916	22,656	32,095			
29	23-01-18	12.859,464	11,204	42.168,695	25,779	36,983			
30	24-01-18	12.869,607	10,143	42.192,552	23,857	34,000			
31	25-01-18	12.877,877	8,270	42.212,422	19,870	28,140			
32	26-01-18	12.884,580	6,703	42.230,046	17,624	24,327			
33	27-01-18	12.893,082	8,502	42.250,809	20,763	29,265			
34	28-01-18	12.903,571	10,489	42.275,095	24,286	34,775			
35	29-01-18	12.912,074	8,503	42.296,462	21,367	29,870			
36	30-01-18	12.922,071	9,997	42.320,166	23,704	33,701			
37	31-01-18	12.931,146	9,075	42.342,370	22,204	31,279			
38	01-02-18	12.941,111	9,965	42.365,796	23,426	33,391	900,285		
39	02-02-18	12.950,690	9,579	42.388,755	22,959	32,538			
40	03-02-18	12.955,803	5,113	42.406,167	17,412	22,525			
41	04-02-18	12.963,401	7,598	42.425,031	18,864	26,462			
42	05-02-18	12.971,985	8,584	42.446,222	21,191	29,775			
43	06-02-18	12.982,346	10,361	42.471,132	24,910	35,271			
44	07-02-18	12.992,116	9,770	42.494,912	23,780	33,550			
45	08-02-18	13.001,027	8,911	42.517,507	22,595	31,506			
46	09-02-18	13.011,572	10,545	42.542,993	25,486	36,031			
47	10-02-18	13.021,605	10,033	42.567,674	24,081	34,714			
48	11-02-18	13.030,887	9,282	42.590,709	23,035	33,317			
49	12-02-18	13.040,138	9,251	42.613,784	23,075	32,326			
50	13-02-18	13.048,755	8,617	42.634,932	21,148	29,765			
51	14-02-18	13.056,933	8,178	42.655,145	20,213	28,391			
52	15-02-18	13.064,166	7,233	42.673,571	18,426	25,659			
53	16-02-18	13.074,962	10,796	42.699,922	26,351	37,147			
54	17-02-18	13.084,475	9,513	42.723,434	23,512	33,025			
55	18-02-18	13.095,424	10,949	42.750,093	26,659	37,608			
56	19-02-18	13.106,111	10,687	42.776,644	26,551	37,238			
57	20-02-18	13.114,356	8,245	42.798,829	22,185	30,430			
58	21-02-18	13.123,968	9,612	42.823,571	24,742	34,354			
59	22-02-18	13.130,995	7,027	42.841,170	17,599	24,626			
60	23-02-18	13.138,195	7,200	42.860,036	18,866	26,066			
61	24-02-18	13.146,794	8,599	42.881,710	21,674	30,273			
62	25-02-18	13.158,121	11,327	42.909,887	28,177	39,504			
63	26-02-18	13.167,553	9,432	42.933,074	23,187	32,619			
64	27-02-18	13.177,562	10,009	42.956,183	25,109	35,118			
65	28-02-18	13.186,776	9,214	42.981,551	23,368	32,582	894,811		
66	01-03-18	13.197,061	10,285	43.006,886	25,335	35,620			
67	02-03-18	13.208,195	11,134	43.034,702	27,816	38,950			
68	03-03-18	13.216,157	7,962	43.055,452	20,750	28,712			
69	04-03-18	13.222,972	8,615	43.073,761	18,309	25,124			
70	05-03-18	13.231,509	8,537	43.096,016	22,255	30,792			
71	06-03-18	13.238,829	7,320	43.116,098	20,082	27,402			
72	07-03-18	13.247,175	8,346	43.138,177	22,079	30,425			
73	08-03-18	13.256,124	8,949	43.161,207	23,030	31,979			
74	09-03-18	13.266,104	9,980	43.186,429	25,222	35,202			
75	10-03-18	13.276,060	9,956	43.211,445	27,016	36,972			
76	11-03-18	13.285,287	9,227	43.237,505	24,060	33,287			
77	12-03-18	13.294,684	9,397	43.262,009	24,504	33,901			
78	13-03-18	13.306,369	11,685	43.292,682	30,673	42,358			
79	14-03-18	13.317,490	11,121	43.322,140	29,458	40,579			
80	15-03-18	13.328,927	11,137	43.352,131	29,991	41,138			
81	16-03-18	13.338,240	9,413	43.377,346	25,215	34,628			
82	17-03-18	13.347,216	8,976	43.401,462	24,116	33,092			
83	18-03-18	13.358,054	10,838	43.401,815	0,353	11,191			
84	19-03-18	13.368,638	10,584	43.416,210	14,395	26,979			
85	20-03-18	13.379,936	10,298	43.441,660	25,450	35,748			
86	21-03-18	13.387,631	8,695	43.465,501	23,841	32,536			
87	22-03-18	13.398,253	10,622	43.494,032	28,531	39,153			
88	23-03-18	13.409,240	10,987	43.523,453	29,421	40,408			
89	24-03-18	13.418,552	9,312	43.548,180	24,727	34,039			
90	25-03-18	13.427,569	9,017	43.576,870	18,690	27,707			
91	26-03-18	13.438,344	10,775	43.605,961	29,091	39,866			
92	27-03-18	13.447,689	9,345	43.631,751	25,790	35,135			
93	28-03-18	13.456,899	9,210	43.656,613	24,862	34,072			
94	29-03-18	13.467,735	10,836	43.685,311	28,698	39,634			
		2014	2015	2016	2017	2018			



Storing / Onderbreking

	Aantal dagen	Percentage
SMA2000HF	27	7,4%
SMA5000TL	32	8,8%
Gem. 2018	30	8,2%

Datum	SN: 2120231555 SB 2000HF-30	SN: 2130119566 SB 5000TL-21						
	Totale opbrengst kWh	Dagopbrengst kWh	Totale opbrengst kWh	Dagopbrengst kWh				
01-01-18	12.674,426	7,925	41.725,459	18,729	26,654			
02-01-18	12.682,397	7,971	41.744,241	18,782	26,753			
03-01-18	12.690,417	8,020	41.763,531	19,290	27,310			
04-01-18	12.699,810	9,393	41.785,335	21,804	31,197			
05-01-18	12.708,936	9,126	41.806,798	21,463	30,589			
06-01-18	12.717,464	8,528	41.826,409	19,611	28,139			
07-01-18	12.722,715	5,251	41.842,857	16,448	21,699			
08-01-18	12.728,633	5,918	41.858,878	16,021	21,939			
09-01-18	12.731,151	8,518	41.878,898	20,020	28,538			
10-01-18	12.744,938	7,787	41.897,334	18,436	26,223			
11-01-18	12.754,913	9,975	41.920,502	23,168	33,143			
12-01-18	12.761,575	6,662	41.937,615	17,113	23,775			
13-01-18	12.770,522	8,947	41.956,672	21,057	30,004			
14-01-18	12.780,289	9,767	41.980,913	22,241	32,008			
15-01-18	12.787,297	7,208	41.997,972	17,059	24,267			
16-01-18	12.796,082	8,585	42.018,563	20,591	29,176			
17-01-18	12.805,800	9,718	42.041,090	22,527	32,245			
18-01-18	12.814,142	8,342	42.061,362	20,272	28,614			
19-01-18	12.823,656	9,514	42.085,594	22,232	31,746			
20-01-18	12.831,712	8,056	42.102,535	18,941	26,997			
21-01-18	12.838,821	7,109	42.120,260	17,725	24,834			
22-01-18	12.848,260	9,439	42.142,916	22,656	32,095			
23-01-18	12.859,464	11,204	42.168,695	25,779	36,983			
24-01-18	12.869,607	10,143	42.192,552	23,857	34,000			
25-01-18	12.877,877	8,270	42.212,422	19,870	28,140			
26-01-18	12.884,580	6,703	42.230,046	17,624	24,327			
27-01-18	12.893,082	8,502	42.250,809	20,763	29,265			
28-01-18	12.903,571	10,489	42.275,095	24,286	34,775			
29-01-18	12.912,074	8,503	42.296,462	21,367	29,870			
30-01-18	12.922,071	9,997	42.320,166	23,704	33,701			
31-01-18	12.931,146	9,075	42.342,370	22,204	31,279			
01-02-18	12.941,111	9,965	42.365,796	23,426	33,391	900,285		
02-02-18	12.950,690	9,579	42.388,755	22,959	32,538			
03-02-18	12.955,803	5,113	42.406,167	17,412	22,525			
04-02-18	12.963,401	7,598	42.425,031	18,864	26,462			
05-02-18	12.971,985	8,584	42.446,222	21,191	29,775			
06-02-18	12.982,346	10,361	42.471,132	24,910	35,271			
07-02-18	12.992,116	9,770	42.494,912	23,780	33,550			
08-02-18	13.001,027	8,911	42.517,507	22,595	31,506			
09-02-18	13.011,572	10,545	42.542,993	25,486	36,031			
10-02-18	13.021,605	10,033	42.567,674	24,081	34,714			
11-02-18	13.030,887	9,282	42.590,709	23,035	32,117			
12-02-18	13.040,138	9,251	42.613,784	23,075	32,326			
13-02-18	13.048,755	8,617	42.634,932	21,148	29,765			
14-02-18	13.056,933	8,178	42.655,145	20,213	28,391			
15-02-18	13.064,166	7,233	42.673,571	18,426	25,659			
16-02-18	13.074,962	10,796	42.699,922	26,351	37,147			
17-02-18	13.084,475	9,513	42.723,434	23,512	33,025			
18-02-18	13.095,424	10,949	42.750,093	26,659	37,608			
19-02-18	13.106,111	10,687	42.776,644	26,551	37,238			
20-02-18	13.114,356	8,245	42.798,829	22,185	30,430			
21-02-18	13.123,968	9,612	42.823,571	24,742	34,354			
22-02-18	13.130,905	7,027	42.841,170	17,599	24,626			
23-02-18	13.138,195	7,200	42.860,036	18,866	26,066			
24-02-18	13.146,794	8,599	42.881,710	21,674	30,273			
25-02-18	13.158,121	11,327	42.909,887	28,177	39,504			
26-02-18	13.167,553	9,432	42.933,074	23,187	32,619			
27-02-18	13.177,562	10,009	42.956,183	25,109	35,118			
28-02-18	13.186,776	9,214	42.981,551	23,368	32,582	894,811		
01-03-18	13.197,061	10,285	43.006,886	25,335	35,620			
02-03-18	13.208,195	11,134	43.034,702	27,816	38,950			
03-03-18	13.216,157	7,962	43.055,452	20,750	28,712			
04-03-18	13.222,972	6,815	43.073,761	18,309	25,124			
05-03-18	13.231,509	8,537	43.096,016	22,255	30,792			
06-03-18	13.238,829	7,320	43.116,098	20,082	27,402			
07-03-18	13.247,175	8,346	43.138,177	22,079	30,425			
08-03-18	13.256,124	8,949	43.161,207	23,030	31,979			
09-03-18	13.266,104	9,980	43.186,429	25,222	35,202			
10-03-18	13.276,060	9,956	43.211,445	27,016	36,972			
11-03-18	13.285,287	9,227	43.237,505	24,060	33,287			
12-03-18	13.294,684	9,397	43.262,009	24,504	33,901			
13-03-18	13.306,369	11,685	43.292,682	30,673	42,358			
14-03-18	13.317,490	11,121	43.322,140	29,458	40,579			
15-03-18	13.328,927	11,137	43.352,131	29,991	41,138			
16-03-18	13.338,240	9,413	43.377,346	25,215	34,628			
17-03-18	13.347,216	8,976	43.401,462	24,116	33,092			
18-03-18	13.358,054	10,838	43.401,815	0,353	11,191			
19-03-18	13.368,638	10,584	43.416,210	14,395	26,979			
20-03-18	13.379,936	10,298	43.441,660	25,450	35,748			
21-03-18	13.387,631	8,695	43.465,501	23,841	32,536			
22-03-18	13.398,253	10,622	43.494,032	28,531	39,153			
23-03-18	13.409,240	10,987	43.523,453	29,421	40,408			
24-03-18	13.418,552	9,312	43.548,180	24,727	34,039			
25-03-18	13.427,569	9,017	43.576,870	28,690	37,707			
26-03-18	13.438,344	10,775	43.605,961	29,091	39,866			
27-03-18	13.447,689	9,345	43.631,751	25,790	35,135			
28-03-18	13.456,899	9,210	43.656,613	24,862	34,072			
29-03-18	13.467,735	10,836	43.685,311	28,688	38,634			
	2014	2015	2016	2017	2018			



Financieel overzicht

Gegevens SMA's (kWh's per maand) gecombineerd met het verbruik en levering adhv maandelijkse nota van Aqualectra.

	A	B	C	D	E	F	G	H	I	J
1							Geleverd			
2					Aqualectra		SMA			
3				Kva	Naf	Gem.	Kva	Naf	Tax	Opbrengst
4	2013	26-jul	26-aug	709	517,81	0,73	664	489,05		489,05
5		27-aug	20-sep	596	415,41	0,70	493	351,86		351,86
6		21-sep	22-okt	784	576,08	0,73	601	459,34		459,34
7		23-okt	19-nov	624	480,12	0,77	442	355,21		355,21
8		20-nov	18-dec	633	500,58	0,79	467	383,26		383,26
9		19-dec	20-jan	667	542,61	0,81	547	455,49		455,49
10	2014	21-jan	18-feb	540	394,20	0,73	588	431,54		431,54
11		19-feb	20-mrt	575	270,25	0,47	913	429,45		429,45
12		21-mrt	19-apr	569	250,36	0,44	958	385,66		385,66
13		20-apr	21-mei	655	347,15	0,53	862	460,29		460,29
14		22-mei	20-jun	683	478,10	0,70	754	526,85		526,85
15		21-jun	22-jul	707	452,48	0,64	880	564,86		564,86
16		23-jul	20-aug	682	432,18	0,63	822	515,55		515,55
17		21-aug	18-sep	705	486,45	0,69	726	501,75		501,75
18		19-sep	20-okt	739	499,33	0,68	801	264,33		264,33
19		21-okt	19-nov	708	494,03	0,70	563	185,79		185,79
20		20-nov	18-dec	699	486,49	0,70	586	193,38		193,38
21		19-dec	02-jan	328	216,48	0,66	301	199,00		199,00
22	2015	03-jan	20-jan	365	240,90	0,66	342	112,86	-59,46	53,40
23		21-jan	20-feb	612	378,11	0,62	716	236,28	-92,16	144,12
24		21-feb	23-mrt	544	297,02	0,55	829	273,57	-92,16	181,41
25		24-mrt	22-apr	562	295,28	0,53	823	271,59	-92,16	179,43
26		23-apr	25-mei	618	349,52	0,57	915	301,95	-92,16	209,79
27		26-mei	23-jun	566	347,03	0,61	722	238,26	-92,16	146,10
28		24-jun	24-jul	620	414,05	0,67	782	258,06	-92,16	165,90
29		25-jul	21-aug	597	380,60	0,64	759	250,47	-92,16	158,31
30		22-aug	21-sep	717	444,53	0,62	727	239,91	-92,16	147,75
31		22-sep	20-okt	665	384,36	0,58	764	252,12	-92,16	159,96
32		21-okt	18-nov	662	381,85	0,58	606	199,98	-92,16	107,82
33		19-nov	18-dec	724	428,91	0,59	564	186,12	-92,16	93,96
34		19-dec	20-jan	715	429,27	0,60	715	206,43	-92,16	114,27
35	2016	21-jan	22-feb	666	382,39	0,57	830	207,50	-92,16	115,34
36		23-feb	22-mrt	594	324,75	0,55	782	195,50	-92,16	103,34
37		23-mrt	22-apr	672	376,98	0,56	799	199,75	-92,16	107,59
38		23-apr	25-mei	754	414,07	0,55	661	165,25	-92,16	73,09
39		26-mei	23-jun	662	354,55	0,54	664	166,00	-92,16	73,84
40		24-jun	22-jul	633	352,55	0,56	764	191,00	-92,16	98,84
41		23-jul	22-aug	690	405,49	0,59	868	217,00	-92,16	124,84
42		23-aug	20-sep	680	386,74	0,57	721	180,25	-92,16	88,09
43		21-sep	20-okt	700	382,72	0,55	726	181,50	-92,16	89,34
44		21-okt	18-nov	704	387,77	0,55	643	160,75	-92,16	68,59
45		19-nov	19-dec	766	431,00	0,56	530	132,50	-92,16	40,34
46		20-dec	19-jan	450	240,45	0,53	606	151,50	-92,16	59,34
47	2017	20-jan	17-feb	626	368,70	0,59	659	164,75	-92,16	72,59
48		18-feb	21-mrt	710	425,34	0,60	809	202,25	-92,16	110,09
49		22-mrt	21-apr	740	443,18	0,60	736	184,00	-92,16	91,84
50		22-apr	22-mei	729	421,13	0,58	803	200,75	-92,16	108,59
51		23-mei	21-jun	782	445,87	0,57	804	201,00	-92,16	108,84
52		22-jun	20-jul	623	346,22	0,56	723	180,75	-92,16	88,59
53		21-jul	21-aug	777	441,03	0,57	801	200,25	-92,16	108,09
54		22-aug	19-sep	688	383,01	0,56	750	187,50	-92,16	95,34
55		20-sep	18-okt	680	376,43	0,55	712	178,00	-92,16	85,84
56		19-okt	20-nov	751	425,07	0,57	676	169,00	-92,16	76,84
57		21-nov	19-dec	646	368,67	0,57	580	145,00	-92,16	52,84
58		20-dec	18-jan	358	193,81	0,54	650	162,50	-64,51	97,99
59	2018	19-jan	20-feb	320	167,90	0,52	831	207,75	-46,08	161,67
60		21-feb	21-mrt	553	313,21	0,57	708	177,00	-46,08	130,92
61		22-mrt	21-apr	659	382,38	0,58	856	214,00	-46,08	167,92
62		22-apr	23-mei	716	408,56	0,57	689	172,25	-46,08	126,17
63		24-mei	21-jun	643	368,37	0,57	784	196,00	-46,08	149,92
64		22-jun	23-jul	719	433,12	0,60	816	204,00	-46,08	157,92
65		24-jul	21-aug	644	396,18	0,62	777	194,25	-46,08	148,17
66		22-aug	19-sep	527	323,11	0,61	778	194,50	-46,08	148,42
67		20-sep	19-okt	518	313,43	0,61	591	147,75	-46,08	101,67
68		20-okt	19-nov	696	435,26	0,63	632	158,00	-46,08	111,92
69		20-nov	19-dec	741	494,37	0,67	519	129,75	-46,08	83,67
70		20-dec	18-jan	687	452,89	0,66	636	159,00	-46,08	112,92
71	2019	19-jan	20-feb	718	442,29	0,62	671	167,75	-46,08	121,67
72		21-feb	22-mrt	598	335,72	0,56	723	180,75	-46,08	134,67
73										
74										
75				44.390	26.956	0,61	48.540	17.007	-2.640	14.367
76										



Resultaten t/m februari 2019 (68 maanden)

	Huidige regeling			
	Naf			
Verbruik overdag (normaal tarief)	12.849			
Opbrengst (Delivered – “solartax”)	14.367			
Totaal	27.216			

Resultaten t/m februari 2019 (68 maanden)

	Huidige regeling	Oude Regeling		
	Naf	Naf		
Verbruik overdag (normaal tarief)	12.849	12.849		
Opbrengst (Delivered – “solartax”)	14.367	29.476		
Totaal	27.216	42.325		

Resultaten t/m februari 2019 (68 maanden)

	Huidige regeling	Oude Regeling	Overheid*	
	Naf	Naf	Naf	
Verbruik overdag (normaal tarief)	12.849	12.849		
Opbrengst (Delivered – “solartax”)	14.367	29.476	17.341	verkoop
			2.640	“solartax”
Totaal	27.216	42.325	19.981	

Resultaten t/m februari 2019 (68 maanden)

	Huidige regeling	Oude Regeling	Overheid*	
	Naf	Naf	Naf	
Verbruik overdag (normaal tarief)	12.849	12.849		
Opbrengst (Delivered – “solartax”)	14.367	29.476	17.341	verkoop
			2.640	“solartax”
Totaal	27.216	42.325	19.981	
Aanschaf en installatie			3.585	OB + invoerrechten
			23.566	

Resultaten t/m februari 2019 (68 maanden)

		Huidige regeling	
		Naf	
Investering		36.500	
R.O.I.		27.216	
Aantal	Maanden	91	
	Jaar	7,6	

Terugverdientijd

Resultaten t/m februari 2019 (68 maanden)

		Huidige regeling	Oude regeling
		Naf	Naf
Investering		36.500	36.500
R.O.I.		27.216	42.325
Aantal	Maanden	91	59
	Jaar	7,6	4,9

Terugverdientijd

Resultaten t/m februari 2019 (68 maanden)

		Huidige regeling	Oude regeling
		Naf	Naf
Investering		36.500	36.500
R.O.I.		27.216	42.325
Aantal	Maanden	91	59
	Jaar	7,6	4,9

Incl. Rente (7%)		Huidige regeling	Oude regeling
		Naf	Naf
Investering		44.510	44.510
R.O.I.		27.216	42.325
Aantal	Maanden	111	72
	Jaar	9,3	6,0

Resultaten t/m februari 2019 (68 maanden)

		Investering	Incl. Rente
		Naf	Naf
		36.500	38.325
Kostprijs		0,52	0,64

Bevindingen en aanbevelingen

- Verzekering
- Onderhoud
- Garantie
- Hypotheek, Leningen

- (Terug-)leverovereenkomst
- Betrouwbare overheid



Regeling teruglevering duurzaam opgewekte elektriciteit

Is het definitieve vonnis een Pyrrhus overwinning?

*Als we nog één zo'n slag tegen de Romeinen winnen,
is het helemaal met ons gedaan."*

(Pyrrhos of Epirus, 297 B.C.)



Teruglevertarief en de werkelijke gem. prijs

A	B	C	D	E	F	G	H	I	J	K
1	normaal	teruglever	resultaat doorverkoop			normaal	teruglever	resultaat doorverkoop		
2	tarief	tarief	excl. tax	incl.tax		tarief	tarief	excl. tax	incl.tax	
3										
4	2013	0,730	0,730	0,000	0,000	2016	0,574	0,250	0,324	0,435
5		0,697	0,697	0,000	0,000		0,547	0,250	0,297	0,415
6		0,735	0,735	0,000	0,000		0,561	0,250	0,311	0,426
7		0,769	0,769	0,000	0,000		0,549	0,250	0,299	0,439
8		0,791	0,791	0,000	0,000		0,536	0,250	0,286	0,424
9		0,814	0,814	0,000	0,000		0,557	0,250	0,307	0,428
10	2014	0,730	0,730	0,000	0,000		0,588	0,250	0,338	0,444
11		0,470	0,470	0,000	0,000		0,569	0,250	0,319	0,447
12		0,440	0,440	0,000	0,000		0,547	0,250	0,297	0,424
13		0,530	0,530	0,000	0,000		0,551	0,250	0,301	0,444
14		0,700	0,700	0,000	0,000		0,563	0,250	0,313	0,487
15		0,640	0,640	0,000	0,000		0,534	0,250	0,284	0,436
16		0,634	0,634	0,000	0,000	2017	0,589	0,250	0,339	0,479
17		0,690	0,690	0,000	0,000		0,599	0,250	0,349	0,463
18		0,676	0,330	0,346	0,346		0,599	0,250	0,349	0,474
19		0,698	0,330	0,368	0,368		0,578	0,250	0,328	0,442
20		0,696	0,330	0,366	0,366		0,570	0,250	0,320	0,435
21		0,660	0,330	0,330	0,330		0,556	0,250	0,306	0,433
22	2015	0,660	0,330	0,330	0,504		0,568	0,250	0,318	0,433
23		0,618	0,330	0,288	0,417		0,557	0,250	0,307	0,430
24		0,546	0,330	0,216	0,327		0,554	0,250	0,304	0,433
25		0,525	0,330	0,195	0,307		0,566	0,250	0,316	0,452
26		0,566	0,330	0,236	0,336		0,571	0,250	0,321	0,480
27		0,613	0,330	0,283	0,411		0,541	0,250	0,291	0,391
28		0,668	0,330	0,338	0,456	2018	0,525	0,250	0,275	0,330
29		0,638	0,330	0,308	0,429		0,566	0,250	0,316	0,381
30		0,620	0,330	0,290	0,417		0,580	0,250	0,330	0,384
31		0,578	0,330	0,248	0,369		0,571	0,250	0,321	0,387
32		0,577	0,330	0,247	0,399		0,573	0,250	0,323	0,382
33		0,592	0,330	0,262	0,426		0,602	0,250	0,352	0,409
34		0,600	0,250	0,350	0,479		0,615	0,250	0,365	0,424
35							0,613	0,250	0,363	0,422
36							0,605	0,250	0,355	0,433
37							0,625	0,250	0,375	0,448
38							0,667	0,250	0,417	0,506
39							0,659	0,250	0,409	0,482
40										

0,306

0,321

0,350



Implicaties Vonnis in relatie tot Terugverdientijd

Resultaten t/m februari 2019 (68 maanden)

		Huidige regeling vanaf de start	Werkelijkheid
		Naf	Naf
Investering		36.500	36.500
R.O.I.		22.818	27.216
Aantal	Maanden	109	91
	Jaar	9,1	7,6

Implicaties Vonnis in relatie tot Terugverdientijd

Resultaten t/m februari 2019 (68 maanden)

		Huidige regeling vanaf de start	Werkelijkheid
		Naf	Naf
Investering		36.500	36.500
R.O.I.		22.818	27.216
Aantal	Maanden	109	91
	Jaar	9,1	7,6
Incl. Rente (7%)			
		Naf	Naf
Investering		44.510	44.510
R.O.I.		22.818	27.216
Aantal	Maanden	133	111
	Jaar	11,1	9,3

Implicaties Vonnis

	Huidige regeling	Oude Regeling	Overheid*	
	Naf	Naf	Naf	
Verbruik overdag (normaal tarief)	12.849	12.849		
Opbrengst (Delivered – “solartax”)	14.367	29.476	17.341	verkoop
			2.640	“solartax”
Totaal	27.216	42.325	19.981	
Aanschaf en installatie			3.585	OB + invoerrechten
			23.566	

Implicatie vonnis

- Meer autonome systemen
 - Specifieke doeleinden (zwembad, auto etc)
 - Capaciteit voor uitsluitend dagverbruik
 - Volledig off-grid systemen in combinatie met batterijen
- Gevolg
 - Geen opbrengsten
 - Teruglevering door particulieren gaat stoppen
 - Geen solar-tax
 - Capaciteitsvraagstuk wordt groter



Discussiepunten

- Stroomcoöperaties
- Gebruik van batterijen voor decentrale opslag
- Electric vehicles en Solar Panels
- Dag –en nachttarief



Dank voor uw aandacht; Presentatie Ronald

