

Description of contents

Sheet name	Description
Main	Inputs are entered, cash flow is calculated and results are shown.
Electricity price	Lookup tables on electricity price scenarios and grid fee. Supporting tables with VAT factors and inputs to electricity price subsidy calculation
Share consumed internally	Lookup table for scenarios on share of generated electricity consumed internally in the household
Electricity generation	Lookup table for energy yield in each profile, as simulated from Pvsyst
Initial investment	Regression output and calculation of estimated initial investment cost
Inverter replacement	Lookup table for estimated cost of inverter replacement in year 2038
Lists	Lists used for data validation

Inflation (yearly) 2.00%
 Inflation (quarterly) 0.496%

Supporting table - VAT Factors

NO1	1.25
NO2	1.25
NO3	1.25
NO4	1
NO5	1.25

Supporting tables - Electricity price support scheme for 2023

Quarter	Share paid
1	0.1
2	0.2
3	0.2
4	0.1

Threshold EUR/MWh

70.28

Threshold NOK/kWh

0.7

Date	01.01.2023																																																																																																																										
Year	2023	2023	2023	2023	2024	2024	2024	2024	2024	2025	2025	2025	2025	2025	2026	2026	2026	2026	2027	2027	2027	2027	2028	2028	2028	2028	2029	2029	2029	2029	2029	2030	2030	2030	2030	2031	2031	2031	2031	2032	2032	2032	2032	2033	2033	2033	2033	2034	2034	2034	2034	2035	2035	2035	2035	2036	2036	2036	2036	2037	2037	2037	2037	2038	2038	2038	2038	2039	2039	2039	2039	2040	2040	2040	2040	2041	2041	2041	2041	2042	2042	2042	2042	2043	2043	2043	2043	2044	2044	2044	2044	2045	2045	2045	2045	2046	2046	2046	2046	2047	2047	2047	2047	2048	2048	2048	2048	2049	2049	2049	2049	2050	2050	2050	2050	2051	2051	2051	2051	2052	2052	2052	2052
Quarter	2023_1	2023_2	2023_3	2023_4	2024_1	2024_2	2024_3	2024_4	2025_1	2025_2	2025_3	2025_4	2026_1	2026_2	2026_3	2026_4	2027_1	2027_2	2027_3	2027_4	2028_1	2028_2	2028_3	2028_4	2029_1	2029_2	2029_3	2029_4	2030_1	2030_2	2030_3	2030_4	2031_1	2031_2	2031_3	2031_4	2032_1	2032_2	2032_3	2032_4	2033_1	2033_2	2033_3	2033_4	2034_1	2034_2	2034_3	2034_4	2035_1	2035_2	2035_3	2035_4	2036_1	2036_2	2036_3	2036_4	2037_1	2037_2	2037_3	2037_4	2038_1	2038_2	2038_3	2038_4	2039_1	2039_2	2039_3	2039_4	2040_1	2040_2	2040_3	2040_4	2041_1	2041_2	2041_3	2041_4	2042_1	2042_2	2042_3	2042_4	2043_1	2043_2	2043_3	2043_4	2044_1	2044_2	2044_3	2044_4	2045_1	2045_2	2045_3	2045_4	2046_1	2046_2	2046_3	2046_4	2047_1	2047_2	2047_3	2047_4	2048_1	2048_2	2048_3	2048_4	2049_1	2049_2	2049_3	2049_4	2050_1	2050_2	2050_3	2050_4	2051_1	2051_2	2051_3	2051_4	2052_1	2052_2	2052_3	2052_4			

Lookup table - Grid fee (NOK/kWh)

NO1	0.43	0.43	0.43	0.44	0.44	0.44	0.44	0.44	0.45	0.45	0.45	0.45	0.46	0.46	0.46	0.46	0.47	0.47	0.47	0.47	0.48	0.48	0.48	0.48	0.49	0.49	0.49	0.49	0.50	0.50	0.50	0.50	0.51	0.51	0.51	0.52	0.52	0.52	0.52	0.53	0.53	0.53	0.54	0.54	0.54	0.54	0.55	0.55	0.55	0.56	0.56	0.56	0.56	0.57	0.57	0.57	0.57	0.58	0.58	0.58	0.58	0.59	0.59	0.59	0.59	0.60	0.60	0.60	0.60	0.61	0.61	0.61	0.62	0.62	0.62	0.62	0.63	0.63	0.63	0.64	0.64	0.64	0.65	0.65	0.65	0.66	0.66	0.66	0.67	0.67	0.67	0.68	0.68	0.68	0.68	0.69	0.69	0.69	0.70	0.70	0.70	0.71	0.71	0.72	0.72	0.72	0.73	0.73	0.73	0.74	0.74	0.75	0.75	0.75	0.76	0.76	0.77	0.77	0.77	0.78	0.78	0.78	0.79	0.79	0.79	0.80	0.80	0.80	0.81	0.81	0.81	0.82	0.82	0.83	0.83	0.84	0.84	0.85	0.85	0.85	0.86	0.86	0.87	0.87	0.88	0.88	0.88	0.89	0.89	0.90	0.90																																																		
NO2	0.50	0.50	0.51	0.51	0.51	0.51	0.52	0.52	0.52	0.53	0.53	0.53	0.54	0.54	0.54	0.54	0.55	0.55	0.55	0.55	0.56	0.56	0.56	0.56	0.57	0.57	0.57	0.57	0.58	0.58	0.58	0.58	0.59	0.59	0.59	0.60	0.60	0.60	0.60	0.61	0.61	0.62	0.62	0.62	0.62	0.63	0.63	0.63	0.64	0.64	0.64	0.65	0.65	0.65	0.66	0.66	0.66	0.66	0.67	0.67	0.67	0.68	0.68	0.68	0.68	0.69	0.69	0.69	0.69	0.70	0.70	0.70	0.71	0.71	0.72	0.72	0.72	0.73	0.73	0.73	0.74	0.74	0.75	0.75	0.75	0.76	0.76	0.77	0.77	0.77	0.78	0.78	0.78	0.79	0.79	0.79	0.80	0.80	0.80	0.81	0.81	0.81	0.82	0.82	0.83	0.83	0.84	0.84	0.85	0.85	0.85	0.86	0.86	0.87	0.87	0.88	0.88	0.88	0.89	0.89	0.90	0.90																																																																															
NO3	0.40	0.40	0.40	0.40	0.41	0.41	0.41	0.41	0.41	0.42	0.42	0.42	0.43	0.43	0.43	0.43	0.43	0.44	0.44	0.44	0.44	0.45	0.45	0.45	0.45	0.46	0.46	0.46	0.46	0.47	0.47	0.47	0.47	0.48	0.48	0.48	0.48	0.49	0.49	0.49	0.49	0.50	0.50	0.51	0.51	0.51	0.51	0.52	0.52	0.52	0.53	0.53	0.53	0.54	0.54	0.54	0.55	0.55	0.55	0.56	0.56	0.56	0.57	0.57	0.57	0.58	0.58	0.58	0.58	0.59	0.59	0.59	0.60	0.60	0.60	0.61	0.61	0.61	0.62	0.62	0.62	0.63	0.63	0.63	0.64	0.64	0.64	0.65	0.65	0.65	0.66	0.66	0.66	0.67	0.67	0.67	0.68	0.68	0.68	0.68	0.69	0.69	0.69	0.70	0.70	0.70	0.71	0.71	0.71	0.72	0.72	0.72	0.73	0.73	0.73	0.74	0.74	0.75	0.75	0.75	0.76	0.76	0.77	0.77	0.77	0.78	0.78	0.78	0.79	0.79	0.79	0.80	0.80	0.80	0.81	0.81	0.81	0.82	0.82	0.83	0.83	0.84	0.84	0.85	0.85	0.85	0.86	0.86	0.87	0.87	0.88	0.88	0.88	0.89	0.89	0.90	0.90																																												
NO4	0.28	0.29	0.29	0.29	0.29	0.29	0.29	0.30	0.30	0.30	0.30	0.31	0.31	0.31	0.31	0.31	0.31	0.32	0.32	0.32	0.33	0.33	0.33	0.34	0.34	0.34	0.34	0.35	0.35	0.35	0.35	0.36	0.36	0.36	0.36	0.37	0.37	0.37	0.37	0.38	0.38	0.38	0.38	0.39	0.39	0.39	0.39	0.40	0.40	0.40	0.40	0.41	0.41	0.41	0.41	0.42	0.42	0.42	0.42	0.43	0.43	0.43	0.43	0.44	0.44	0.44	0.44	0.45	0.45	0.45	0.46	0.46	0.46	0.46	0.47	0.47	0.47	0.48	0.48	0.48	0.48	0.49	0.49	0.49	0.50	0.50	0.50	0.51	0.51	0.51	0.51	0.52	0.52	0.52	0.53	0.53	0.53	0.54	0.54	0.54	0.55	0.55	0.55	0.56	0.56	0.56	0.57	0.57	0.57	0.58	0.58	0.58	0.58	0.59	0.59	0.59	0.60	0.60	0.60	0.61	0.61	0.61	0.62	0.62	0.62	0.63	0.63	0.63	0.64	0.64	0.64	0.65	0.65	0.65	0.66	0.66	0.66	0.67	0.67	0.67	0.68	0.68	0.68	0.68	0.69	0.69	0.69	0.70	0.70	0.70	0.71	0.71	0.71	0.72	0.72	0.72	0.73	0.73	0.73	0.74	0.74	0.75	0.75	0.75	0.76	0.76	0.77	0.77	0.77	0.78	0.78	0.78	0.79	0.79	0.79	0.80	0.80	0.80	0.81	0.81	0.81	0.82	0.82	0.83	0.83	0.84	0.84	0.85	0.85	0.85	0.86	0.86	0.87	0.87	0.88	0.88	0.88	0.89	0.89	0.90	0.90
NO5	0.43	0.43	0.43	0.43	0.43	0.43	0.44	0.44	0.44	0.45	0.45	0.45	0.45	0.46	0.46	0.46	0.46	0.47	0.47	0.47	0.47	0.48	0.48	0.48	0.48	0.49	0.49	0.49	0.49	0.50	0.50	0.50	0.50	0.51	0.51	0.51	0.51	0.52	0.52	0.52	0.52	0.53	0.53	0.53	0.54	0.54	0.54	0.54	0.55	0.55	0.55	0.56	0.56	0.56	0.56	0.57	0.57	0.57	0.57	0.58	0.58	0.58	0.58	0.59	0.59	0.59	0.59	0.60	0.60	0.60	0.60	0.61	0.61	0.61	0.61	0.62	0.62	0.62	0.62	0.63	0.63	0.63	0.64	0.64	0.64	0.65	0.65	0.65	0.66	0.66	0.66	0.67	0.67	0.67	0.68	0.68	0.68	0.68	0.69	0.69	0.69	0.70	0.70	0.70	0.71	0.71	0.71	0.72	0.72	0.72	0.73	0.73	0.73	0.74	0.74	0.75	0.75	0.75	0.76	0.76	0.77	0.77	0.77	0.78	0.78	0.78	0.79	0.79	0.79	0.80	0.80	0.80	0.81	0.81	0.81	0.82	0.82	0.83	0.83	0.84	0.84	0.85	0.85	0.85	0.86	0.86	0.87	0.87	0.88	0.88	0.88	0.89	0.89	0.90	0.90																																														

Lookup table - Spot electricity price EUR/MWh

Reference_scenario	322.88	126.96	70.69	144.61	175.38	66.35	41.79	82.98	76.19	62.12	60.16	70.28	72.31	58.96	57.10	66.70	71.73	58.49	56.64	66.17	76.47	62.35	60.38	70.54	76.86	62.67	60.69	70.90	76.12	62.07	60.11	70.22	76.74	62.57	60.60	70.79	77.36	63.08	61.08	71.36	77.98	63.58	61.57	71.93	78.60	64.08	62.06	72.50	79.22	64.59	62.55	73.07	79.83	65.09	63.04	73.64	80.45	65.60	63.52	74.21	81.07	66.10	64.01	74.78	81.69	66.60	64.50	75.35	82.31	67.11	64.99	75.92	83.95	68.45	66.29	77.44	85.63	69.82	67.62	78.99	87.34	71.22	68.97	80.57	89.09	72.64	70.35	82.18	90.87	74.09	71.75	83.82	92.69	75.58	73.19	85.50	94.54	77.09	74.65	87.21	96.44	78.63	76.15	88.95	98.36	80.20	77.67	90.73	100.33	81.81	79.22	92.55	102.34	83.44	80.81	94.40	104.39	85.11	82.42	96.29	106.29	86.82	84.13	96.02	106.02	88.53	85.74	96.53	106.53	90.24	87.35	97.24	107.24	91.95	89.06	97.93	107.93	92.66	89.77	98.60	108.60	93.37	90.48	99.23	109.23	94.09	91.20	99.86	109.86	94.80	91.91	100.49	110.49	95.51	92.62	101.07	111.07	96.22	93.33	101.70	111.70	96.93	94.04	102.33	112.33	97.64	94.75	103.00	113.00	98.35	95.46	103.67	113.67	99.06	96.17	104.30	114.30	99.77	96.88	104.97	114.97	100.48	97.59	105.57	115.57	101.19	98.30	106.20	116.20	1
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Nr.	Month	Average share consumed internally	Reference				
			0%	20%	SSB	80%	100%
1	January	97%	0%	35%	97%	100%	100%
2	February	88%	0%	32%	88%	100%	100%
3	March	77%	0%	28%	77%	100%	100%
4	April	52%	0%	19%	52%	82%	100%
5	May	51%	0%	19%	51%	80%	100%
6	June	44%	0%	16%	44%	69%	100%
7	July	43%	0%	15%	43%	67%	100%
8	August	43%	0%	16%	43%	68%	100%
9	September	55%	0%	20%	55%	85%	100%
10	October	75%	0%	27%	75%	100%	100%
11	November	85%	0%	31%	85%	100%	100%
12	December	94%	0%	34%	94%	100%	100%

City Oslo
Roof type Sloped roof 30°

Azimuth translations

Input roof type	Input azimuth	Code
Sloped roof 30°	South-East	Slo_30_-45
Sloped roof 30°	South	Slo_30_0
Sloped roof 30°	South-West	Slo_30_45
Flat roof	South	Fla_10_0
Flat roof	East/West	Fla_10_90
Gable roof	East/West	Gab_30_-90
Code for use		Slo_30_0

Lookup value PVGISTMY_Oslo_Slo_30_0

Generation year 1:	January	February	March	April	May	June	July	August	September	October	November	December
	11	50	84	103	163	158	161	122	89	55	22	13 1,029

Code	City	Roof type	Slope	Direction 1	Direction 2	Kwh/kwp year	Januar	Februa	March	April	May	June	July	August	September	October	November	December
PVGISTMY_Bergen_Fla_10_0	Bergen	Flat roof	10	0		811	7	27	59	104	131	131	126	108	69	33	14	4
PVGISTMY_Bergen_Fla_10_90	Bergen	Flat roof	10	90	-90	733	4	19	49	94	124	125	120	100	61	26	9	2
PVGISTMY_Bergen_Slo_30_-45	Bergen	Sloped roof 30°	30	-45		853	9	34	65	113	131	127	120	112	75	41	20	6
PVGISTMY_Bergen_Slo_30_0	Bergen	Sloped roof 30°	30	0		906	11	40	72	116	135	131	128	116	80	44	25	7
PVGISTMY_Bergen_Slo_30_45	Bergen	Sloped roof 30°	30	45		850	9	33	65	106	132	130	129	111	74	37	19	6
PVGISTMY_Bergen_Gab_30_-90	Bergen	Gable roof	30	-90	90	712	5	20	49	92	118	119	113	96	61	27	10	2
PVGISTMY_Oslo_Fla_10_0	Oslo	Flat roof	10	0		915	6	33	67	95	156	155	155	113	76	40	13	6
PVGISTMY_Oslo_Fla_10_90	Oslo	Flat roof	10	90	-90	820	4	23	55	87	146	148	146	104	66	31	8	3
PVGISTMY_Oslo_Slo_30_-45	Oslo	Sloped roof 30°	30	-45		962	9	42	77	98	158	153	153	114	83	48	17	10
PVGISTMY_Oslo_Slo_30_0	Oslo	Sloped roof 30°	30	0		1,029	11	50	84	103	163	158	161	122	89	55	22	13
PVGISTMY_Oslo_Slo_30_45	Oslo	Sloped roof 30°	30	45		961	9	42	73	98	156	153	157	119	79	47	18	10
PVGISTMY_Oslo_Gab_30_-90	Oslo	Gable roof	30	-90	90	791	4	25	55	84	139	138	137	100	64	32	8	4
PVGISTMY_Kristiansand_Fla_10_0	Kristiansand	Flat roof	10	0		973	12	32	72	127	150	157	157	119	83	43	13	9
PVGISTMY_Kristiansand_Fla_10_90	Kristiansand	Flat roof	10	90	-90	874	8	24	60	114	141	151	148	109	72	33	9	5
PVGISTMY_Kristiansand_Slo_30_-45	Kristiansand	Sloped roof 30°	30	-45		1,006	17	39	78	133	148	154	153	120	85	50	16	13
PVGISTMY_Kristiansand_Slo_30_0	Kristiansand	Sloped roof 30°	30	0		1,089	20	46	88	142	157	157	160	128	97	58	20	16
PVGISTMY_Kristiansand_Slo_30_45	Kristiansand	Sloped roof 30°	30	45		1,037	16	38	82	135	153	156	158	124	94	51	17	12
PVGISTMY_Kristiansand_Gab_30_-90	Kristiansand	Gable roof	30	-90	90	844	8	25	60	112	132	143	140	104	71	35	9	5
PVGISTMY_Stavanger_Fla_10_0	Stavanger	Flat roof	10	0		844	9	26	69	109	130	131	139	99	67	42	16	6
PVGISTMY_Stavanger_Fla_10_90	Stavanger	Flat roof	10	90	-90	763	6	19	57	99	123	127	133	92	59	33	11	3
PVGISTMY_Stavanger_Slo_30_-45	Stavanger	Sloped roof 30°	30	-45		869	12	31	74	115	126	128	133	99	72	51	20	9
PVGISTMY_Stavanger_Slo_30_0	Stavanger	Sloped roof 30°	30	0		939	15	36	84	120	134	131	142	105	78	57	25	12
PVGISTMY_Stavanger_Slo_30_45	Stavanger	Sloped roof 30°	30	45		897	12	31	77	113	135	129	144	103	73	50	21	9
PVGISTMY_Stavanger_Gab_30_-90	Stavanger	Gable roof	30	-90	90	740	7	20	57	98	118	119	126	89	58	35	11	4
PVGISTMY_Trondheim_Fla_10_0	Trondheim	Flat roof	10	0		758	4	15	64	101	126	131	126	98	59	26	8	0
PVGISTMY_Trondheim_Fla_10_90	Trondheim	Flat roof	10	90	-90	685	2	11	53	90	119	126	119	90	51	20	4	0
PVGISTMY_Trondheim_Slo_30_-45	Trondheim	Sloped roof 30°	30	-45		803	7	20	73	104	126	132	129	101	68	31	11	1
PVGISTMY_Trondheim_Slo_30_0	Trondheim	Sloped roof 30°	30	0		848	9	22	82	113	131	133	129	106	71	36	14	1
PVGISTMY_Trondheim_Slo_30_45	Trondheim	Sloped roof 30°	30	45		792	7	18	74	109	128	128	122	100	64	31	11	1
PVGISTMY_Trondheim_Gab_30_-90	Trondheim	Gable roof	30	-90	90	666	2	11	55	88	114	119	113	86	51	21	5	0
PVGISTMY_Tromsø_Fla_10_0	Tromsø	Flat roof	10	0		744	0	10	56	108	144	134	116	92	56	25	2	0
PVGISTMY_Tromsø_Fla_10_90	Tromsø	Flat roof	10	90	-90	661	0	7	42	93	135	130	111	83	44	15	1	0
PVGISTMY_Tromsø_Slo_30_-45	Tromsø	Sloped roof 30°	30	-45		808	0	15	69	120	148	133	116	104	66	35	2	0
PVGISTMY_Tromsø_Slo_30_0	Tromsø	Sloped roof 30°	30	0		870	1	18	79	130	156	137	122	105	74	44	3	0
PVGISTMY_Tromsø_Slo_30_45	Tromsø	Sloped roof 30°	30	45		827	0	14	69	123	155	139	125	98	66	36	3	0
PVGISTMY_Tromsø_Gab_30_-90	Tromsø	Gable roof	30	-90	90	677	0	8	45	97	135	129	111	86	47	18	1	0

Regression output
SUMMARY OUTPUT

<i>Regression Statistics</i>	
Multiple R	0.96
R Square	0.93
Adjusted R Square	0.93
Standard Error	23,110.26
Observations	382.00

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	8	2.55879E+12	3.19849E+11	598.8729549	1.2666E-207
Residual	373	1.99213E+11	534084189.9		
Total	381	2.758E+12			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	100,338	5,022	20.0	0.000%	90,462	110,213	90,462	110,213
kWp	18,054	315	57.4	0.000%	17,435	18,673	17,435	18,673
D_Kristiansand	27,395	4,616	5.9	0.000%	18,319	36,471	18,319	36,471
D_Stavanger	25,687	4,010	6.4	0.000%	17,803	33,571	17,803	33,571
D_Bergen	-20,447	3,992	-5.1	0.000%	-28,298	-12,597	-28,298	-12,597
D_Trondheim	-13,908	4,135	-3.4	0.085%	-22,039	-5,777	-22,039	-5,777
D_Tromsø	17,624	4,761	3.7	0.025%	8,261	26,986	8,261	26,986
D_Skråtak	13,545	2,486	5.4	0.000%	8,657	18,433	8,657	18,433
D_Fjordkraft	-68,147	2,573	-26.5	0.000%	-73,206	-63,088	-73,206	-63,088

Coefficients for cities

Oslo	0
Trondheim	-13,908
Stavanger	25,687
Kristiansand	27,395
Bergen	-20,447
Tromsø	17,624

Coefficients for roof type

Sloped roof 30°	13545
Flat roof	0
Gable roof	13545

Initial investment cost calculation

Input kWp	9
Base cost	262,822
City	0
Roof	13,545
50% Fjordkraft	-34,073
Initial investment cost	242,294

Oversizing solar inverter

Today 2038

kWp system	Actual oversizing			Price NOK	Price NOK	
	15%	20%	Inverter solar inverter			
1	4.25	4	4	-300%	12,547	16,887
2	4.25	4	4	-100%	12,547	16,887
3	4.25	4	4	-33%	12,547	16,887
4	4.25	4	4	0%	12,547	16,887
5	4.25	4	4	20%	12,547	16,887
6	5.1	4.8	5	17%	13,337	17,950
7	5.95	5.6	6	14%	13,337	17,950
8	6.8	6.4	7	13%	17,672	23,784
9	7.65	7.2	7	22%	20,096	27,047
10	8.5	8	8	20%	23,280	31,331
11	9.35	8.8	9	18%	24,199	32,569
12	10.2	9.6	10	17%	22,916	30,842
13	11.05	10.4	10	23%	22,916	30,842
14	11.9	11.2	12	14%	27,999	37,683
15	12.75	12	12	20%	27,999	37,683
16	13.6	12.8	12	25%	27,999	37,683
17	14.45	13.6	15	12%	27,999	37,683
18	15.3	14.4	15	17%	26,063	35,077
19	16.15	15.2	15	21%	26,063	35,077
20	17	16	17	15%	36,993	49,788

City	Bidding Zone	Roof type	Direction
Oslo	NO1	Sloped roof 30°	South-East
Trondheim	NO3	Flat roof	South
Stavanger	NO2	Gable roof	South-West
Kristiansand	NO2		East/West
Bergen	NO5		
Tromsø	NO4		