

47 (opt) °

11 (opt) °

-3 %

? (0) %

-4.4 %

-20.3 %

Performance of grid-connected PV

PVGIS-5 estimates of solar electricity generation:

Provided inputs:

Latitude/Longitude:	68.438, 17.427
Horizon:	Calculated
Database used:	PVGIS-ERA5
PV technology:	Crystalline silicon
PV installed:	34.4 kWp
System loss:	14 %

Simulation outputs Slope angle: Azimuth angle: Yearly PV energy production: Yearly in-plane irradiation: Year to year variability: Changes in output due to: Angle of incidence: Spectral effects: Temperature and low irradiance: Total loss:

Outline of horizon at chosen location: 25200 kWh 918 kWh/m² 1470.00 %

Monthly energy output from fix-angle PV system:



Monthly PV energy and solar irradiation

Month	Em	Hm	SDm
January	4.4	0.487	0.577
February	667	23.3	169
March	2510	85.9	339
April	4130	144	652
May	4560	165	286
June	3490	131	367
July	3370	129	695
August	3330	125	432
September	2090	76.6	352
October	1010	36.4	315
November	35.2	1.93	20.2
December	0	0	0

Monthly in-plane irradiation for fixed-angle:

Horizon neigrit
Sun height, June
Sun height, Dece



Em: Average monthly electricity production from the given system [kWh]. Hm: Average monthly sum of global irradiation per square meter received by the modules of the given system [kWh/m²]. SDm: Standard deviation of the monthly electricity production due to year-to-year variation [kWh].

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Report generated on 2019/05/14



PVsyst Evaluation mode

Sun report for Beisfjordveien 88

Key stats

There are 126 days with no sun at all. The latest sunset of the year is at 22:17, and the earliest sunrise is at 07:20. The yearly average cloud cover is 78 %. The average sun time per day is 07:23 hours (assuming no cloud cover).

Overall 58 % 42 % 73 % 07:23 Winter 4 % 7 % 0 % 00:08 Spring 68 % 53 % 82 % 11:07 Summer 66 % 42 % 88 % 14:12	Period	Sun index	Morning sun index	Afternoon sun index	Average sun hours per dag
Winter 4 % 7 % 0 % 00:08 Spring 68 % 53 % 82 % 11:07 Summer 66 % 42 % 88 % 14:12	Overall	58 %	42 %	73 %	07:23
Spring 68 % 53 % 82 % 11:07 Summer 66 % 42 % 88 % 14:12	Winter	4 %	7 %	0 %	00:08
Summer 66 % 42 % 88 % 14:12	Spring	68 %	53 %	82 %	11:07
	Summer	66 %	42 %	88 %	14:12
Autumn 43 % 39 % 46 % 03:54	Autumn	43 %	39 %	46 %	03:54

The table below shows the average sunrise and sunset times for each week of the year.

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9 08:38 11:43
Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16	Week 17	Week 18
08:15	08:01	07:54	07:44	08:34	08:24	08:11	07:57	07:41
13:11	15:38	16:47	17:30	19:27	20:19	20:43	21:00	21:24
Week 19	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25	Week 26	Week 27
07:33	07:28	07:24	07:21	07:20	07:20	07:21	07:22	07:25
21:45	21:55	22:00	22:06	22:10	22:14	22:16	22:17	22:16
Week 28	Week 29	Week 30	Week 31	Week 32	Week 33	Week 34	Week 35	Week 36
07:29	07:32	07:38	07:42	07:47	08:02	08:13	08:22	08:28
22:13	22:09	22:05	21:54	21:32	21:08	20:46	20:20	19:32
Week 37 08:33 18:29	Week 38 08:38 17:37	Week 39 08:42 16:30	Week 40 08:48 13:56	Week 41 09:08 12:41	Week 42 09:24 11:48	Week 43	Week 44	Week 45
	Week 46	Week 47	Week 48	Week 49	Week 50	Week 51	Week 52	

The lowermost figure shows the apparent terrain profile as seen from the location. The centre of the figure points due south, and the whole 360-degree horizon is shown. The three sun curves are for (from bottom to top): the winter solstice, the spring equinox, and the summer solstice. The numbers inside the sun discs indicate the local time for each position.





Highcharts.com

Periode	Totalt (%)	Formiddag (%)	Ettermiddag (%)	Soltimer	Soltimer i snitt
Hele året	58	42	73	2697	07:23
Januar	0	0	0	0	00:00
Februar	5	11	0	12	00:26
Mars	60	67	53	217	07:00
April	76	52	95	362	12:04
Mai	67	45	87	444	14:19
Juni	62	39	85	446	14:52
Juli	63	39	86	454	14:39
August	74	50	94	407	13:08
September	71	58	82	285	09:30
Oktober	24	39	12	70	02:15
November	0	0	0	0	00:00
Desember	0	0	0	0	00:00
Vinter	4	7	0	12	00:08
Vår	68	53	82	1023	11:07
Sommer	66	42	88	1307	14:12