

Svalbard and Jan Mayen solar energy unit

Where are Svalbard and Jan Mayen located?

The islands are located north and northwest of Norway, within the southern limits of Arctic sea ice -- the northernmost point of Svalbard is within a 620 mi (1,000 km) of the North Pole. Svalbard is approximately 24,570 square mi (63,000 square km); Jan Mayen is approximately 145 square mi (373 square km).

What is the population of Svalbard and Jan Mayen in 2021?

Svalbard and Jan Mayen had a population of 2,939 in January 2021. There were 1,542 internet users in January 2021.

Can wind and solar power be used in Svalbard?

23) This approach is supported by an earlier case study prepared by The Nordic Council of Ministers (2018) titled 'De-carbonising Svalbard', 24) which suggests that wind and solar power used in combination with both electric boilers and heat pumps would provide ample electrical supply.

How can Svalbard maintain a secure and sustainable supply?

Furthermore, the case found that the best long-term solution for Svalbard to maintain a secure and sustainable supply would be to integrate a mix of renewable energy technologies. Some of these technologies include: solar panels (PV), wind turbines, heat pumps connected to geothermal and both heat and electricity storage.

Are Longyearbyen and Svalbard facing an energy transition?

Top image: Longyearbyen and Svalbard are facing an energy transition. This is the background for the cooperation agreement between UNIS, Store Norske and SINTEF. Photo: Graham Gilbert/UNIS. Longyearbyen and Svalbard are facing a huge energy transition.

Will Svalbard be a big challenge for Russia's mining town Barentsburg?

While Norway begins to transition away from coal, a shift towards renewables on Svalbard appears to be a bigger challenge for the Russian mining town of Barentsburg. Due to the unique condition of the Svalbard Treaty, Russia's ability to remain active on Svalbard is connected to its resource extractive activities.

A wet day is one with at least 0.04 inches of liquid or liquid-equivalent precipitation. The chance of wet days in Longyearbyen varies throughout the year. The wetter season lasts 8.9 months, from July 21 to April 17, with a ...

In the remote Svalbard archipelago of Norway, situated in perpetual winter darkness, a ground-breaking project has been completed: the installation of the world's northernmost ground solar panels. This innovative initiative holds the ...

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July Weather in Longyearbyen Svalbard & Jan Mayen. Daily high temperatures increase by 2°F, from 44°F to 47°F, rarely falling below 39°F or exceeding 53°F. ... This section discusses the total daily incident shortwave solar energy reaching the surface of the ground over a wide area, taking full account of seasonal variations in the length ...

April 8, 2024 -- Total Solar Eclipse -- Angelskardet, Svalbard, Svalbard and Jan Mayen. Time/General; Weather . Weather Today/Tomorrow ; Hour-by-Hour Forecast ; 14 Day Forecast ; Yesterday/Past Weather; Climate (Averages) Time Zone ; ... the amount of solar energy decreases. Temperature changes. As the Moon covers the Sun, the amount of solar ...

The area potentially concerned stretches from Svalbard to Jan Mayen Island, covering 280 000 square kilometers of Arctic seabed. Despite protests and warnings from environmental organizations, scientists and many ...

Store Norske Energi, a state-owned energy company based in Longyearbyen, is testing whether solar energy could be used to transition Spitsbergen to emissions-free, hybrid energy. The company has installed 360 solar panels ...

Installing solar panels in a place that experiences around five months of complete darkness might seem counterintuitive, but a new initiative in the Svalbard archipelago is hoping to generate clean power using the ...

August Weather in Longyearbyen Svalbard & Jan Mayen. Daily high temperatures decrease by 6°F, from 46°F to 41°F, rarely falling below 35°F or exceeding 52°F. ... This section discusses the total daily incident shortwave solar energy reaching the surface of the ground over a wide area, taking full account of seasonal variations in the ...

June Weather in Olonkinbyen Svalbard & Jan Mayen. Daily high temperatures increase by 5°F, from 37°F to 42°F, rarely falling below 32°F or exceeding 46°F. ... This section discusses the total daily incident shortwave solar energy reaching the surface of the ground over a wide area, taking full account of seasonal variations in the length ...

April 8, 2024 -- Total Solar Eclipse -- Skardsrimen, Svalbard, Svalbard and Jan Mayen. Time/General; Weather . Weather Today/Tomorrow ; Hour-by-Hour Forecast ; 14 Day Forecast ; Yesterday/Past Weather; Climate (Averages) Time Zone ; ... the amount of solar energy decreases. Temperature changes. As the Moon covers the Sun, the amount of solar ...

May Weather in Longyearbyen Svalbard & Jan Mayen. Daily high temperatures increase by 11°F, from 24°F to 35°F, rarely falling below 14°F or exceeding 40°F. ... This section discusses the total daily incident shortwave solar energy reaching the surface of the ground over a wide area, taking full account of seasonal variations in the length ...

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February Weather at Hopen Svalbard & Jan Mayen. Daily high temperatures are around 18°F, rarely falling below -4°F or exceeding 33°F. Daily low temperatures are around 8°F, rarely falling below -14°F or exceeding 28°F. The lowest daily average low temperature is 8°F on February 18. For reference, on August 5, the hottest day of the year, temperatures at Hopen typically range ...

June Weather in Longyearbyen Svalbard & Jan Mayen. Daily high temperatures increase by 9°F, from 35°F to 44°F, rarely falling below 30°F or exceeding 50°F. ... This section discusses the total daily incident shortwave solar energy reaching the surface of the ground over a wide area, taking full account of seasonal variations in the length ...

September Weather in Longyearbyen Svalbard & Jan Mayen. Daily high temperatures decrease by 8°F, from 41°F to 32°F, rarely falling below 24°F or exceeding 47°F. ... This section discusses the total daily incident shortwave solar energy reaching the surface of the ground over a wide area, taking full account of seasonal variations in the ...

Average Daily Incident Shortwave Solar Energy in January in Svalbard & Jan Mayen Winter Link. Download. ... The average daily shortwave solar energy reaching the ground per square meter. Data Sources This report illustrates the typical weather for Olonkinbyen and Longyearbyen, based on a statistical analysis of historical hourly weather ...

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A wet day is one with at least 0.04 inches of liquid or liquid-equivalent precipitation. The chance of wet days in Olonkinbyen varies throughout the year. The wetter season lasts 7.8 months, from August 18 to April 11, with a greater than 22% chance of a given day being a wet day. The month with the most wet days in Olonkinbyen is November, with an ...

April 8, 2024 -- Total Solar Eclipse -- Nordkapp, Svalbard, Svalbard and Jan Mayen. Time/General; Weather . Weather Today/Tomorrow ; Hour-by-Hour Forecast ; 14 Day Forecast ; Yesterday/Past Weather; Climate (Averages) Time Zone ; ... the amount of solar energy decreases. Temperature changes. As the Moon covers the Sun, the amount of solar ...

February Weather in Longyearbyen Svalbard & Jan Mayen. Daily high temperatures are around 14°F, rarely falling below -6°F or exceeding 33°F. ... This section discusses the total daily incident shortwave solar energy reaching the surface of the ground over a wide area, taking full account of seasonal variations in the length of the day, the ...

