

Importance of solar energy Svalbard and Jan Mayen

What is the population of Svalbard and Jan Mayen?

The population of Svalbard and Jan Mayen was 2,939 in January 2021. This represents an increase of 560 (+24%) compared to the previous year. 2,939 people live in Svalbard and Jan Mayen, with 83.8% residing in urban centres and 16.2% in rural areas.

What are the development opportunities in Svalbard?

Svalbard has a range of development opportunities. Svalbard has a significant amount of coal and coal mining is the main economic activity on the islands, once employing over 300 people. A coal-fired power station in Svalbard meets the energy requirements of the island.

Does Svalbard have a coal-fired power station?

A coal-fired power station in Svalbard meets the energy requirements of the island. Along with the need to fly frequently, it is one of the reasons why the carbon footprint of Svalbard residents is among the largest in Europe.

Is fishing in Svalbard sustainable?

The Barents Sea that surrounds Svalbard is home to some of the best fishing grounds in the world, with over 150 species of fish, including haddock and herring. Fishing in this area is controlled, which means it is sustainable as overfishing is illegal. Svalbard is a popular tourist destination and is visited regularly by cruise ships.

What is Svalbard known for?

Svalbard is known for its remote terrain of glaciers and tundra sheltering polar bears, Svalbard reindeer and Arctic foxes. The Northern Lights are visible during winter, and summer brings the "midnight sun", sunlight for 24 hours a day. How has migration brought people to Svalbard?

How does polar climate affect bifacial solar power production?

The Polar climate has several favourable characteristics for solar power production, namely the effect of increased solar cell voltage with decreasing temperature, and high-albedo providing significant amounts of ground-reflected irradiance which can be utilized by bifacial solar panels (Frimannslund et al., 2021).

March Weather in Longyearbyen Svalbard & Jan Mayen. Daily high temperatures are around 14 °F, rarely falling below -5 °F or exceeding 33 °F. Daily low temperatures are around 3 °F, rarely falling below -17 °F or exceeding 24 °F. For reference, on July 21, the hottest day of the year, temperatures in Longyearbyen typically range from 41 °F to 47 °F, while on February 18, the ...

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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 ...

See towering mountains, stunning fjords, majestic waterfalls and gigantic glaciers as you explore Svalbard, Jan Mayen, Greenland and Iceland. Spend several days soaking up the natural beauty of Northwest Spitsbergen National Park and the Scoresby Sund, the largest fjord system on Earth. Discover volcanic Jan Mayen, as well as the remote Icelandic village of Grundarfjörður and ...

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. Daily low temperatures decrease by 9°F, from 35°F to 26°F, rarely falling below 17°F or exceeding 41°F. For reference, on July 21, the hottest day of the year, temperatures in Longyearbyen typically range from ...

April Weather in Longyearbyen Svalbard & Jan Mayen. Daily high temperatures increase by 9°F, from 15°F to 24°F, rarely falling below -1°F or exceeding 35°F. Daily low temperatures ...

A wet day is one with at least 0.04 inches of liquid or liquid-equivalent precipitation. In Longyearbyen, the chance of a wet day over the course of June is increasing, starting the month at 10% and ending it at 15%. For reference, the year's highest daily chance of a wet day is 27% on September 24, and its lowest chance is 9% on May 28. Over the course of June in ...

April 8, 2024 -- Total Solar Eclipse -- Falunfjellet, 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 ...

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, ...

In this paper, we present the 2008 energy balance for Stribreen (15 km², ~120-2200 m a.s.l.), a glacier in a polar maritime climate on the island of Jan Mayen (71°00'N, 8°30'W, 373 km²; Fig. ...

The volcanic Jan Mayen Island is situated 550 km northeast of Iceland between 72.0° and 75.1° N and between 7.1° and 8.1° W. It is not part of Svalbard and has a completely different geological history as well as administrative organization.

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ENGIE North America and Meta have finalised an environmental attributes purchase agreement (EAPA), under which ENGIE will provide 260MW of renewable energy from its Sybert Branch solar project. The solar facility is located near Austin, Texas, and close to Meta's data centre in Temple.

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July Weather in Longyearbyen Svalbard & Jan Mayen. Daily high temperatures increase by 2 ... 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 elevation of the Sun above the horizon, and absorption ...

The study investigates the potential and the design challenges of Polar solar power plants through field measurements of a small-scale solar power plant with modules facing both sky and ground...

abundance of forage plants during summer, which impacts animal energy use and their spatial and temporal habitat (Loe et al., 2016; Stien et al., 2010). 1.6 Importance of snow for high ...

August Weather in Longyearbyen Svalbard & Jan Mayen. Daily high temperatures decrease by ... 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 elevation of the Sun above the horizon, and absorption ...

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