

How much energy is needed in Greenland in 2050?

In 2050, curtailment of about 4% of the total electricity generation is required, a value known if three renewable resources complement each other in a sector coupled energy system. In the reference system, a major share of heating in Greenland is supplied by district heating, which is dominant in larger towns.

What is the primary energy mix of Greenland?

As presented in Fig. 2, the primary energy mix of Greenland changes notably between 2019 and 2050. In the reference scenario, oil constitutes around 80% of the primary energy consumption, with the rest being supplied mainly by hydropower.

Is Greenland a good place for offshore wind power?

However, a study on wind and wave power potential on 22 islands has found Greenland to be one of the best sites for offshore wind power with 4555-5450 full load hours (FLH) in addition to good conditions for wave power with 1050-4000 FLH. Satymov et al. found 5000-6000 FLH in the south of Greenland for an improved wave energy converter.

What is Greenland's domestic energy demand?

All scenarios include Greenland's domestic energy demand. The list of scenarios is as follows: "Steady Europe": In 2030, 1.65% of European demand for liquid hydrocarbons is included, in addition to 5% of European demand for e-ammonia and e-methanol. In 2050, 10% of the demand for e-FTL, e-ammonia, and e-methanol is supplied.

Is Greenland a potential E-Fuels hub?

Greenland's transition from a fossil fuels-based system to a 100% renewable energy system between 2019 and 2050 and its position as a potential e-fuels and e-chemicals production hub for Europe, Japan, and South Korea, has been investigated in this study using the EnergyPLAN model.

What is going on with Greenland?

One project has been announced by H2Carrier and Anori to develop a 1.5 GW wind farm and a floating green ammonia production vessel off the shore of Greenland. The idea of offshore synthetic fuel production on floating islands has been introduced by Patterson et al.

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