Nordic energy storage equipment research and development

Are battery energy storage systems a key part of the Nordic energy transition?
Battery energy storage systems (BESS) continue to play a vital rolein the Nordic energy transition. Based on Marsh's experience in advising BESS owners in the Nordics,cold climate challenges,ensuring safety,and optimizing spacing are key topics that are discussed for BESS development in the region.

Can energy storage systems be used in residential buildings in Nordic climates?
Methodology To evaluate the financial feasibility of implementing energy storage systems in residential buildings in Nordic climates, the use of energy storage technologies in combination with a solar PV system was modelled for detached houses employing different heating methods in Southern Finland.

What does Nordic Energy Research do?
Nordic Energy Research is the funding institution for energy researchunder the Nordic Council of Ministers - the intergovernmental body between Denmark,Finland,Iceland,Norway and Sweden.

Why do we need hydro reservoirs in the Nordic region?
The Nordic region benefits from large hydro reservoirs that provide excellent and cost-effective energy storage options,which are already being efficiently utilised. Meeting growing future flexibility needs with a changing energy mix will require supplementing hydro reservoirs with batteries or hydrogen-based fuels.

How will Bess impact the Nordics?
BESS will have a large impact on energy systemsin the Nordics,helping the move toward carbon neutrality. However,ignoring the specific needs for BESS installations in the region could slow down progress. For more information on how these risks may affect your business,contact your Marsh advisers.

Can solar PV systems be used in Nordic climates?
Thus, to simulate the use of solar PV systems in Nordic climates, the model included scenarios with both a fixed solar PV capacity of 5 kW, representative of a typical residential solar panel in Finland , as well as with a fixed RF of 49 % for the house, with the solar PV capacity determined accordingly.

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