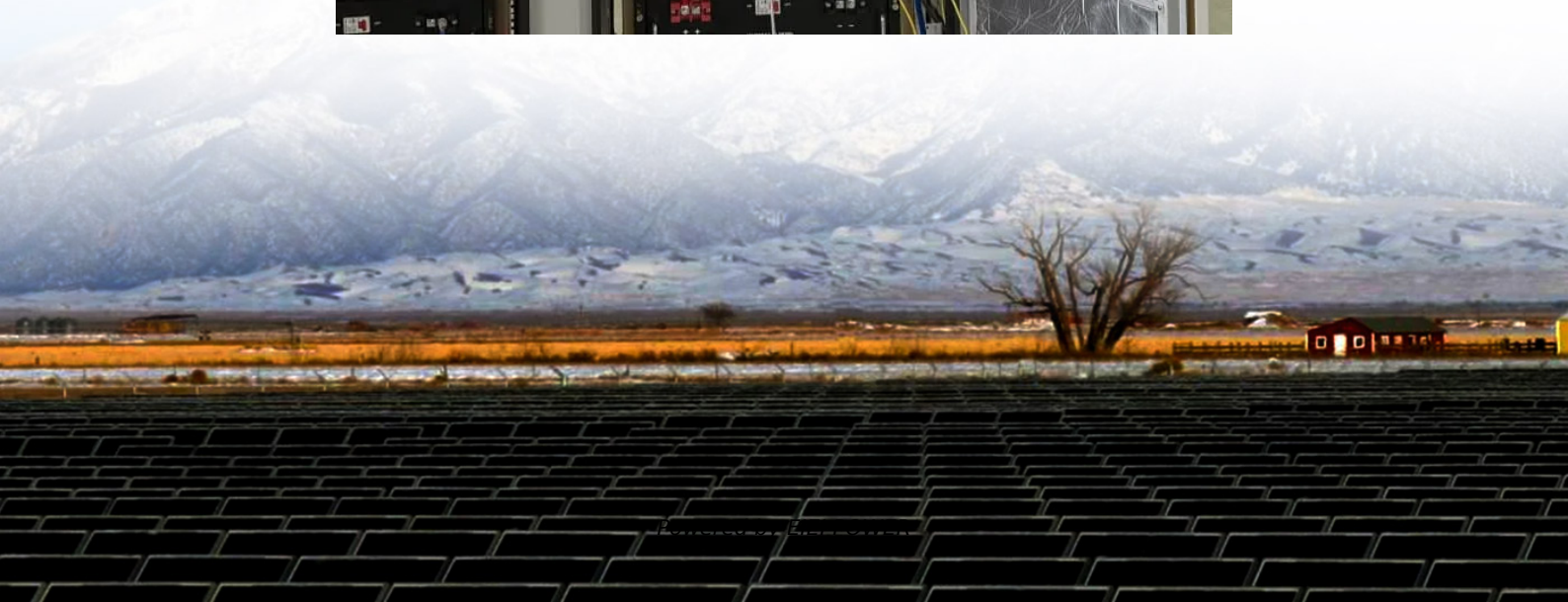


Belarusian wind solar storage and transmission topology





Overview

What technology is used in Belarus?

The technology with the most mature local market is biomass, currently used mainly in heat generation. Belarus is still in the early stages of deploying wind, solar PV and biogas, although the technologies used in their development are considered mature and meet international standards.

How many solar energy installations are there in Belarus?

287 solar heating installations with total heat capacity of 3.9 MW th. Hydropower resources in Belarus are deemed scarce, though there are opportunities for small hydro in the northern and central parts of the country.

Is Belarus a energy import-dependent country?

Energy imports amount to 84.8% of the total primary energy supply and come primarily from a single source supplier, leaving Belarus as one of the world's most energy import-dependent countries in the world. Increasing deployment of renewable energy technologies would support Belarus' domestic energy supply.

What energy resources does Belarus have?

Belarus does not have significant local energy resources, apart from renewables. Fossil fuels currently make up more than 90% of the energy mix in Belarus, with natural gas taking the lion's share. Power generation is also predominantly fossil fuel-based, with very limited integration of renewable sources.



Belarusian wind solar storage and transmission topology



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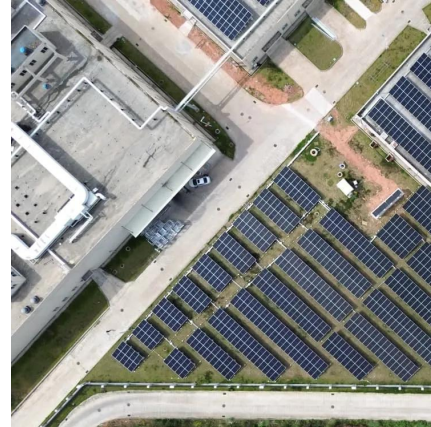
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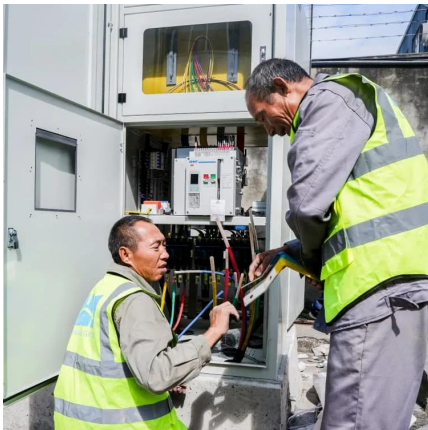
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Optimal phased configuration of PV, wind, storage, and transmission

Optimal phased configuration of PV, wind, storage, and transmission capacities under progressive global interconnection scenario a, b Placement and timeline for installations of solar PV (a) and

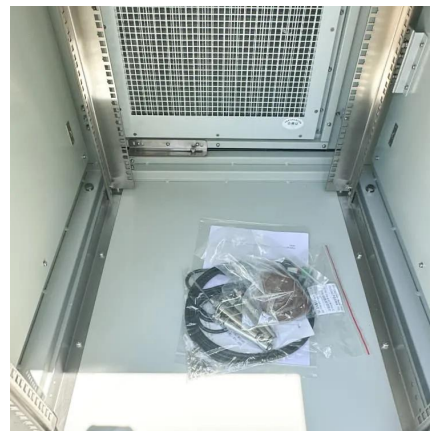


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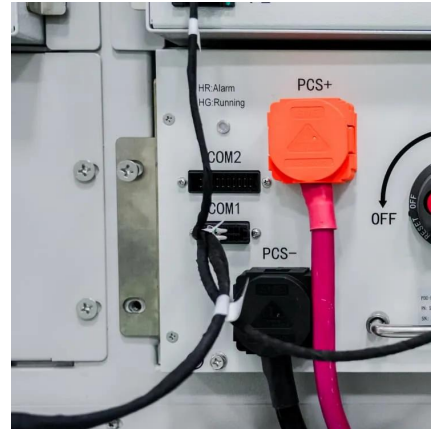
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