Spatial distribution of cimc energy storage sites

Is there a suitability dataset for power plant site selection?
Last and most importantly,to the best of our knowledge,there is nopublicly available suitability dataset for power plant site selection with high spatial resolutions (in 1 km × 1 km),which is crucial for direct energy infrastructure deployment studies.

Why do we need geospatial data for power plant site selection?
It is the necessary geospatial data for power plant site selection models such as the Capacity Expansion Regional Feasibility(CERF) 35,36. Secondly,this dataset can further support the calculation of the resource supply curve and capacity factor for different technologies by providing land exclusions considering local conditions.

Which areas are suitable for utility-scale solar PV deployment?
The areas with annual Global Horizontal Irradiation (GHI) greater than 1000 kWh/m 2are suitable for utility-scale solar PV deployment. Besides,the areas with annual Direct Normal Irradiation (DNI) greater than 1600 kWh/m 2 are suitable for CSP deployment according to the policy context 68.

What are the suitability layers for power plant siting in China?
This study provides comprehensive suitability layers for power plant siting in mainland China,covering 7 major technologies (coal,biomass,gas,nuclear,solar PV,CSP,and onshore wind).

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