Buenos Aires solar container communication station wind and solar hybrid lightning protection grounding

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Which lightning protection standards are available for PV and wind systems?
Manylightning protection standards are available for PV and wind systems. However,standards for hybrid systems remain unavailable. In this section,the CENELEC standard,which is available for PV systems with an integrated external LPS when separation distance is not maintained,is applied to the hybrid system.

Where do grid-boxes contain solar and wind resources?
In densely populated regions such as western Europe,India,eastern China,and western United States,most grid-boxes contain solar and wind resources apt for interconnection (Supplementary Fig. S1). Nevertheless,these regions exhibit modest power generation potential,typically not exceeding 1.0 TWh/year (Fig. 1a).

Can global grid interconnection accelerate solar-wind transition?
Global grid interconnection represents a compelling pathway to accelerate this transition,particularly given the uneven geographic distribution of solar-wind potential (Fig. 1a).

How robust is the global interconnected grid?
The globally interconnected grid exhibits exceptional robustnessin addressing such disruptions.

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