thematic maps and the presentation of two pilot projects of hybrid power plants. The preliminary results indicate that there is great potential for the realization of future centralized hybrid generation, combining wind and solar photovoltaic energy sources in several regions of Brazil, especially in the Northeast Region, with an

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This work aims to present wind and solar photovoltaic energy development and its regulatory framework in Brazil, and demonstrate the potential for centralized hybrid generation. Official studies, research reports, and thematic maps were ...

By analyzing data for one-day hourly generation of solar PV electricity and hydroelectricity from Brazil"s national grid operator ONS, considering the possibility of a hybrid system using the reservoirs area for the installation of floating solar photovoltaic (FPV) plants with equivalent generation capacity, would result in an increase of ...

Hybrid systems emerge as an efficient solution for solar energy in Brazil, an innovative combination of photovoltaic generation and battery storage promises to revolutionize energy supply, ensuring greater autonomy, efficiency and sustainability for homes, industries and the national agricultural sector.

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