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Renewable electricity production, from sources such as wind power and solar power, is variable which results in reduced capacity factor and require either energy storage of capacity equal to its total output, or base load power sources from non intermittent sources like hydropower, fossil fuels or nuclear power. Since renewable energy sources power density per land area is at best three orders of magnitude smaller than fossil or nuclear power, renewable power plants tends to occupy thousands ...

~~Renewable energy - Wikipedia~~

Nationwide, renewable energy sources produced more electricity during the first eight months of this year than did either coal or nuclear power.* Including distributed (e.g., rooftop) solar, renewables accounted for 20.8% of the nation's electrical generation during the first two-thirds of 2020 compared to 19.4% from nuclear and 18.4% from coal.

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Hydropower or water power (from Greek: ὕδωρ, "water") is power derived from the energy of falling or fast-running water, which may be harnessed for useful purposes. Since ancient times, hydropower from many kinds of watermills has been used as a renewable energy source for irrigation and the operation of various mechanical devices, such as gristmills, sawmills, textile mills, trip hammers ...

~~Hydropower - Wikipedia~~

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