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Renewable electricity
production, from sources
such as wind power and solar

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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 ...

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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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For each topic, essential
theoretical background is
introduced, practical
engineering considerations
associated with designing
systems and predicting their
performance are provided,
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