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Theory, Design and Application use it at a later time. The output of a wind turbine is thus inherently fluctuating and non-dispatchable. (The most one can do is to limit production below what the wind could produce.)

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Schematic of fluid flow through a disk-shaped actuator. For a constant density fluid, cross-sectional area varies inversely with speed. Betz's law indicates the maximum power that can be extracted from the wind, independent of the design of a wind turbine in open flow. It was published in 1919 by the German physicist Albert Betz.

Betz's law - Wikipedia

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