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at a later time. The output of a wind  
turbine is thus inherently fluctuating  
and non-dispatchable. (The most one can  
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The law is derived from the principles  
of conservation of mass and  
momentum of the air stream flowing  
through an idealized "actuator disk"

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that extracts energy from the wind stream. According to Betz's law, no turbine can capture more than  $16/27$  (59.3%) of the kinetic energy in wind. The factor  $16/27$  (0.593) is known as Betz's coefficient.

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