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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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6 Wind Energy Explained: Theory, Design  
and Application Maximizing the fatigue  
life of the rotor drive train and other  
structural components in the presence of ch



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anges in the wind direction, speed (including gusts), and turbulence, as well as start-stop cycles of the wind turbine.

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The law is derived from the principles of  
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the air stream flowing through an idealized "actuator disk" 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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