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change of a fluid during incompressible

flow per unit mass Rate of mechanical

energy change of a fluid during

incompressible flow Example: (Wind

Energy) $\rho V^3 / 2 = \rho V^3 / 2$

$\rho V^3 / 2 = \rho V^3 / 2$ Wind energy Power = $\rho V^3 / 2$ & E m &

Wind energy per unit mass

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s2o 2.0887 kJ / kg K Analysis The increase

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Increase in exergy 2 1 0 0 [(h2 h1) ke pe

T0 (s 2 s1)] 100 kPa (h2 h1) T0 (s 2 s1)

17 C where ...

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Rate of mechanical energy change of a

fluid during incompressible flow Example:

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= 2 2 2 2 V e V Wind energy Power = & E

m & Wind energy per unit mass =

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