

- 6 A small wind turbine contains a generator that is used to generate electricity. Every second, 9.7 kg of air arrives at its blades with a speed of 4.0 m s^{-1} and leaves the blades with a speed of 1.5 m s^{-1} .

The efficiency of the generator is 60%.

What could be the output potential difference (p.d.) and current of the turbine?

	p.d./V	current/A
A	12	1.5
B	12	3.3
C	24	0.60
D	24	2.8

- 7 It takes one year for the Earth to complete one orbit around the Sun.