



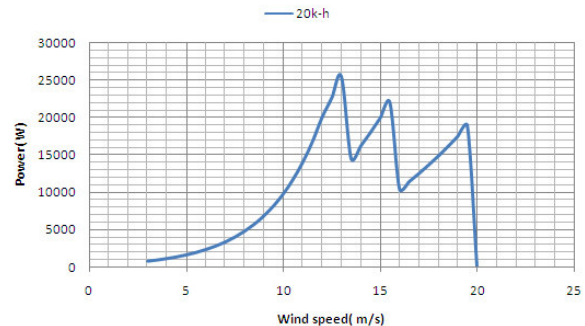
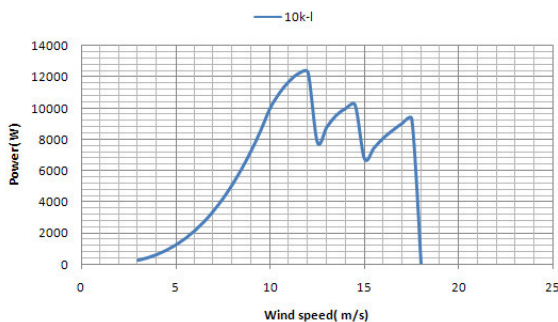
## The On-Grid System

The TAEC<sup>TM</sup> grid connected power inverter is a residential/commercial power inverter, designed to be connected to the national grid. It converts the variable voltage and frequency output of the turbine to 230V 50 Hz AC standard supply and synchronizes it with the grid. From the inverter, the generated clean energy can then be used directly on home appliances. Any excess is exported to the grid and credits are obtained.

If the wind turbine is providing the same amount of electrical power as is being used by the facility, no power is taken from or fed into the utility grid. If the facility is using more power than the wind power system is providing, the grid provides the balance. If the facility is using less power than is being generated, then the excess is fed into the grid. Check local regulations regarding net metering in your local area. Note some utilities may need to change their revenue kWh meter for net metering measurement.

## Specifications

	TAEC <sup>TM</sup> 10KW	TAEC <sup>TM</sup> 20KW
Rotor Diameter:	8.0m	10.0m
Number of Blades:	3pcs	3pcs
Material of Blades:	Fibre glass epoxy	Fibre glass epoxy
Cut-in wind speed:	2 m/s	2 m/s
Working wind speed:	2-18 m/s	2-18 m/s
Survival wind speed:	25 m/s	45 m/s
Rated wind speed:	10 m/s	12 m/s
Rated rotate speed:	180 rpm	90 rpm
Rated output power:	10 kW	20 kW
Type of generator:	Permanent-magnet 3 phrase AC	Permanent-magnet 3 phrase AC
Speed regulation method:	Servo controlled furl	Servo controlled furl
Working voltage:	240V DC	240V DC
Tower height:	12 m	18 m
Life span:	15 years	15 years
Noise level at 12m away	59.4 dB at 12 m/s	61.7dB at 12 m/s



## The TAEC<sup>TM</sup> Advantage

We will help you with:

- Project site survey
- Planning permission
- Government funding
- Project implementation
- Grid connection
- ROCs online auctions
- Energy savings advice
- On-going support

Single-Phase 2kW, 3kW, & 5kW models also available. Please contact us for more details.

## TAEC™ Wind Power Systems

Wind energy is a readily available energy source which can be harnessed to generate electricity freely and with no CO<sub>2</sub> emissions. It can be used directly or exported to the National Grid.

Available in a range of sizes, TAEC™ wind generators are ideally suited to commercial properties, farms and schools, as well as domestic houses and many more applications.

### Why Renewable?

The earth's future relies on human behaviour with respect to the environment. We are all becoming more aware of the threat posed by climate change, which is caused by a number of sources. CO<sub>2</sub> emission is the major contributor to global warming.

As a part of the European Union, the UK government made a commitment to reduce emissions by 12.5% before 2008-2012 and, to move towards a target of a 20% reduction of carbon dioxide by 2010. To achieve this goal, the government is encouraging homeowners and community groups to take an active part in the climate change agenda and reap the benefits of renewable energy.

### Funding Available:

Over the past two years, the UK Government has pushed the development of alternative energy sources. It is increasingly supportive of small wind generation projects, considering them in a positive light in terms of CO<sub>2</sub> emission reduction. This means that renewable energy installations can often receive funding from major sources.

#### Low carbon buildings programme

The DTI's Low Carbon Buildings Programme provides grants for micro-generation technologies for householders, community organisations, schools, the Public Sector and businesses. Wind turbines are covered by the Low Carbon Buildings Programme.

#### SCHRI

If your renewables project is in Scotland you may qualify for funding, advice and support from the Scottish Community and Householder Renewables Initiative (SCHRI).

Want to know more? Please visit [www.energysavingtrust.org.uk](http://www.energysavingtrust.org.uk)



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Further product information is available  
on request