



The Certification Mark for Onsite
Sustainable Energy Technologies

Microgeneration Certification Scheme: MCS 006

Product Certification Scheme Requirements:
Micro and Small Wind Turbines

Issue 1.5

This standard has been approved by the Steering Group of the Microgeneration Certification Scheme.

This document was prepared by the MCS Working Group 3 'Micro and Small Wind systems'.

REVISION OF MICROGENERATION STANDARDS

Microgeneration Standards will be revised by issue of revised editions or amendments. Details will be posted on the website at www.microgenerationcertification.org

Technical or other changes which affect the requirements for the approval or certification of the product or service will result in a new issue. Minor or administrative changes (e.g. corrections of spelling and typographical errors, changes to address and copyright details, the addition of notes for clarification etc.) may be made as amendments.

The issue number will be given in decimal format with the integer part giving the issue number and the fractional part giving the number of amendments (e.g. Issue 3.2 indicates that the document is at Issue 3 with 2 amendments).

Users of this Standard should ensure that they possess the latest issue and all amendments.

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1. INTRODUCTION

This document identifies the evaluation and assessment requirements and practices for the purposes of certification and listing of Micro and Small Wind Turbines with rated/reference electrical power outputs up to 50 kW, measured at a wind speed of 11.0 m/s. Certification, listing and approval of products is based on evidence acceptable to the certification body:

- that the product meets this standard;
- that the manufacturer has staff, processes and systems in place to ensure that the product delivered meets this standard.

and on:

- periodic audits of the manufacturer including testing as appropriate;
- compliance with the contract with the certification body for listing and approval including agreement to rectify faults as appropriate.

2. SCOPE

This scheme provides ongoing independent, third party assessment and approval of companies who wish to demonstrate that their micro and small wind turbines with rated electrical power outputs up to 50 kW (measured at a wind speed of 11.0 m/s) meet and continue to meet the requirements of the British Wind Energy Association Small Wind Turbine Performance and Safety Standard (29 February 2008).

For this scheme the interim measures from Clause 1.4.3 of the BWEA standard are not applicable.

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3. APPLICATIONS TO JOIN THE SCHEME

Applications should be made to an accredited certification body operating this scheme, who will provide the appropriate application form and details of the applicable fees.

4. MANAGEMENT SYSTEMS CERTIFICATION

Manufacturers shall operate a certified documented manufacturing quality control system, in accordance with the requirements of MCS 010 “Generic Factory Production Control Requirements”.

5. CERTIFICATION AND APPROVAL

Certification and approval is based on the following:

- a) Evidence of compliance with British Wind Energy Association Small Wind Turbine Performance and Safety Standard (version 29 February 2008).

Evidence of compliance is accepted in accordance with MCS 011 ‘Testing acceptance criteria’.

- b) Verification of the establishment and maintenance of the manufacturing company’s quality management system in accordance with the Factory Production Control requirements (FPC).

Applications for a range of common products (product families) will be dealt with on a case by case basis generally in accordance with the guidance given in Section 8 of the British Wind Energy Association Small Wind Turbine Performance and Safety Standard (version 29 February 2008) on the basis that a product family can be considered to be conceptually similar to changes to a product.

A certificate is awarded following demonstration of satisfactory compliance with this standard and this scheme document, taking into account any limitations imposed by this

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standard and other appropriate guidelines and satisfactory verification/assessment of the manufacturer's Factory Production Control and technical documentation.

Certificates contain the name and address of the manufacturer, model and reference number of the wind turbine, this test standard, a unique certificate reference number and the issue number and date.

Certificates are valid from the date of issue and are maintained and held in force subject to satisfactory completion of the requirements for maintenance of certification (see item 7), but remain the property of the issuing certification body.

Details of the manufacturer and the certificated product(s) are listed on the website at www.microgenerationcertification.org

6. TECHNICAL DOCUMENTATION

A full set of documentation for the product as described in the British Wind Energy Association Small Wind Turbine Performance and Safety Standard (29 February 2008) must be submitted for review. This documentation shall be presented in English and shall be such that it can be assured that the products submitted for test are equivalent to those that are to be manufactured for normal production.

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7. MAINTENANCE OF CERTIFICATION AND LISTING

Certificates and listing are maintained and held in force subject to satisfactory completion of the following requirements for maintenance of certification:

7.1 Factory audits

Certification is maintained through annual FPC quality system audits, which shall include a detailed check that the product being manufactured is to the same specification as the product tested.

7.2 Product audits

Product audits will be conducted as follows:

- 7.2.1 review of the product technical data files including materials.
- 7.2.2 review of end of line tests in accordance with the manufacturer's quality plan.
- 7.2.3 repeat testing of elements from the product standard as appropriate to confirm that the product continues to meet the requirements for certification and listing.

8. CERTIFICATION MARK AND LABELLING

All approved products listed under this scheme shall be traceable to identify that they have been tested and certificated in accordance with the requirements of the test standard. See below for details.

The Supplier shall use Certification Mark(s) in accordance with the Certification Bodies' instructions

An example of the certification mark that can be used for this scheme is as follows:

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Certificate Number MCS "XXX"
"Description of the Technology certificated"

Where 'XXX' is the certificate number and the logo of the certification body issuing the certification would sit in the right hand box.

Companies may only use the mark while the certification is maintained.

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REVISION OF MICROGENERATION CERTIFICATION SCHEME (MCS)

REQUIREMENTS

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AMENDMENTS ISSUED SINCE PUBLICATION

Document Number:	Amendment Details:	Date:
1.1	'UK' removed from scheme name; 'Department of Trade and Industry' MCS mark replaced by 'BERR ' MCS mark	11/01/2008
1.2	Revision details added; BRE Certification Limited mark replaced by BRE Global mark	25/02/2008
1.3	Gemserv details added as Licensee. Document reformatted to reflect brand update. References to BERR updated to DECC, MCS logo updated accordingly. Website and email addresses updated to reflect new name.	01/12/2008
1.4	Quality review	10/01/2009
1.5	MCS Mark updated Update to BWEA revision 29 Feb 2008 Size limit modified to be 0 - 50kW. Repetition of underlying standards eliminated. Product family guidance given Tighter definition of compliance.	10/07/2009