



# Prototype declaration

## Preliminary prototype declaration MOE 17-EZE-0027-04

Signed copy 1

PGU manufacturer: Vestas Wind Systems A/S  
Hedeager 42  
8200 Aarhus N.  
Denmark

### Scope

Type of product: PGU, wind turbine  
PGU types: Mk3e V136, V150  
3.6 MW / 3.8 MW / 4.0 MW / 4.2 MW

Standards and guidelines: VDE AR-N 4120:2015-01  
NELEV  
SDLWindV 2009/07  
BDEW 2008  
Transmission Code 2007

Valid from: 2017-09-01  
Valid until: 2 years after commissioning of the first prototype

Applicable documents: Assessment report MOE 17-EZE-0027-01  
Assessment report MOE 17-EZE-0027-03  
Annex 1 – 3

Itzehoe, 2018-12-20

*Michael Voß*  
20.12.2018



Michael Voß, Dipl.-Ing. (FH)  
Head of certification body

*Dr. Rainer Zimmermann*  
20.12.2018

Dr. Rainer Zimmermann  
Expert of certification body



The certification body is accredited by Deutsche Akkreditierungsstelle (DAkks) according to DIN EN ISO/IEC 17065:2013. Excerpts from this document may only be reproduced with the written permission of M.O.E. GmbH. Page 1 of 2

VESTAS PROPRIETARY NOTICE: This document contains valuable confidential information of Vestas Wind Systems A/S. It is protected by copyright law as an unpublished work. Vestas reserves all patent, copyright, trade secret, and other proprietary rights to it. The information in this document may not be used, reproduced, or disclosed except if and to the extent rights are expressly granted by Vestas in writing and subject to applicable conditions. Vestas disclaims all warranties except as expressly granted by written agreement and is not responsible for unauthorized uses, for which it may pursue legal remedies against responsible parties.

Prototype declaration 17-EZE-0027-04  
 Vestas Mk3e; V136, V150; 3.6 MW / 3.8 MW / 4.0 MW / 4.2 MW  
 Page 2 of 2



### Annex 1: Specifications of main components

Type of product:	PGU / wind turbine
PGU type:	Mk3e V136, V150
Nominal power:	3.6 MW / 3.8 MW / 4.0 MW / 4.2 MW
Electrical principle:	Three-phase asynchronous generator, full-scale converter
Rotor diameter:	136 m / 150 m
Number of blades:	3
Power control:	pitch
Orientation:	upwind

### Annex 2: Identity of first prototype

Not applicable, no prototype commissioned yet.

*Note: As soon as the first prototype is erected, and a commissioning report as well as an updated ISO 9001 certificate are available, the declaration can be upgraded to a full prototype declaration, valid for a period of two years from the commissioning date of the prototype.*

### Annex 3: Declaration and further remarks

The wind turbine product family Mk3e is a new product family based upon 3 MW MK3A. The main changes to the product with respect to grid compliance are updated converter components and an extended product range. A prototype turbine has not been commissioned yet.

The members of the Mk3e product family (as listed above) have only minor technical differences (rotor diameter and associated differences in the drive train).

**It is hereby confirmed that the members of the Vestas V136 / V150 Mk3e product family are prototypes as defined by VDE AR-N 4120, chapter 12, for the duration of validity of this declaration.**

**It is also confirmed that Vestas V136 / V150 Mk3e meet the requirements of VDE AR-N 4120 based on detailed manufacturer declarations presented to M.O.E. by Vestas.**

**This is a preliminary prototype declaration, as a physical prototype turbine does not exist yet.**

References to source documents and further details (e.g. restrictions and conditions of validity) can be found in the assessment report MOE 17-EZE-0027-01.