

ICS 27.180

English Version

Wind turbines -
Part 26-2: Production-based availability
for wind turbines
(IEC/TS 61400-26-2:2014)

Éoliennes -
Partie 26-2: Disponibilité fondée sur la production
pour les éoliennes
(IEC/TS 61400-26-2:2014)

Windenergieanlagen -
Teil 26-2: Erzeugungsbasierte Verfügbarkeit
von Windenergieanlagen
(IEC/TS 61400-26-2:2014)

This Technical Specification was approved by CENELEC on 2017-07-17.

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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European foreword

This document (CLC/TS 61400-26-2:2017) consists of the text of IEC/TS 61400-26-2:2014 prepared by IEC/TC 88 "Wind energy generation systems".

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

Endorsement notice

The text of the International Standard IEC/TS 61400-26-2:2014 was approved by CENELEC as a Technical Specification without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 61400-1:2005	NOTE	Harmonized as EN 61400-1:2005 (not modified).
IEC 61400-12-1:2005	NOTE	Harmonized as EN 61400-12-1:2006 (not modified).
IEC 61400-12-2:2013	NOTE	Harmonized as EN 61400-12-2:2013 (not modified).
IEC 61400-25-1:2006	NOTE	Harmonized as EN 61400-25-1:2007 (not modified).
IEC 61400-25-2:2006	NOTE	Harmonized as EN 61400-25-2:2007 (not modified).
IEC 61400-25-3:2006	NOTE	Harmonized as EN 61400-25-3:2007 (not modified).
IEC 61400-25-4:2008	NOTE	Harmonized as EN 61400-25-4:2008 (not modified).
IEC 61400-25-5:2006	NOTE	Harmonized as EN 61400-25-5:2007 (not modified).
IEC 61400-25-6:2010	NOTE	Harmonized as EN 61400-25-6:2011 (not modified).

Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050	series	International Electrotechnical Vocabulary	-	-
IEC/TS 61400-26-1	2011	Wind turbines - Part 26-1: Time-based availability for wind turbine generating systems	CLC/TS 61400-26-1	2017

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INTRODUCTION

The intention of this technical specification is to define a common basis for exchange of information on performance indicators between owners, utilities, lenders, operators, manufacturers, consultants, regulatory bodies, certification bodies, insurance companies and other stakeholders in the wind power generation business. This is achieved by providing an information model specifying how time designations shall be split into information categories. The information model forms the basis for how to allocate time for reporting availability and reliability indicators.

The technical specification defines generic terms of wind turbine systems and environmental constraints in describing system and component availability, lifetime expectancy, repairs and criteria for determining overhaul intervals. The specification defines terminology and generic terms for reporting energy based generating unit availability measurement. A generating unit includes all equipment up to the point of electrical connection. Availability measurements are concerned with fractions of time and energy a unit is capable of providing during service, taking environmental aspects into account. Environmental aspects will be wind and other weather conditions, as well as grid and substation conditions. The specification furthermore defines terminology and terms for reporting performance indicators based on energy production. Mandatory information categories defined in the technical specification are written in capital letters; optional information categories defined in the technical specification are written in bold letters.

The project scope is accomplished by separating the technical specification into three parts:

- IEC TS 61400-26-1, which specifies terms for time-based availability of a wind turbine generating system;
- IEC TS 61400-26-2, which specifies terms for production-based availability of a wind turbine generating system;
- IEC/TS 61400-26-3, which specifies terms for time-based and production-based availability of a wind power station.

Part 2 is an extension of Part 1 that deals with the use of production elements based on the information model defined in Part 1. The structure and interrelations in the applied information model are defined in Part 1 and apply to the production based extensions made in Part 2.

The intention of Part 2 is to define a common basis for exchange of information on production-based availability. This is achieved by using the information model specifying how time and energy designations shall be split into information categories and assigned to production terms.

NOTE The point of electrical connection is defined individually from one project to the other, but is normally understood as the electrical low voltage or high voltage terminals of the wind turbine generating system connecting to the feeder cables.