

English Version

Wind turbines -  
Part 26-1: Time-based availability  
for wind turbine generating systems  
(IEC/TS 61400-26-1:2011)

Éoliennes -  
Partie 26-1: Disponibilité temporelle  
pour les systèmes de production d'énergie éolienne  
(IEC/TS 61400-26-1:2011)

Windenergieanlagen -  
Teil 26-1: Zeitbasierte Verfügbarkeit  
von Windenergieanlagen  
(IEC/TS 61400-26-1:2011)

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

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## European foreword

This document (CLC/TS 61400-26-1:2017) consists of the text of IEC/TS 61400-26-1:2011 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 61400-26-1:2011 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 61400-25-2:2006	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).

## 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](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050-415	1999	International Electrotechnical Vocabulary - Part 415: Wind turbine generator systems	-	-
IEC 61400-1	-	Wind turbines - Part 1: Design requirements	EN 61400-1	-

## CONTENTS

FOREWORD.....	4
1 Scope.....	7
2 Normative references .....	7
3 Terms, definitions and abbreviations .....	7
3.1 Terms and definitions .....	7
3.2 Abbreviations .....	8
4 Information model.....	9
4.1 General.....	9
4.2 Information categories.....	9
4.3 Limitations.....	9
4.4 Information category priority .....	11
5 INFORMATION AVAILABLE .....	12
5.1 OPERATIVE.....	13
5.1.1 GENERATING .....	13
5.1.2 NON-GENERATING .....	15
5.2 NON-OPERATIVE .....	20
5.2.1 SCHEDULED MAINTENANCE .....	21
5.2.2 PLANNED CORRECTIVE ACTION .....	22
5.2.3 FORCED OUTAGE .....	23
5.2.4 SUSPENDED .....	24
5.3 FORCE MAJEURE .....	24
6 INFORMATION UNAVAILABLE .....	25
Annex A (informative) Optional information categories – examples .....	27
Annex B (informative) Time based availability indicators – examples .....	40
Annex C (informative) Verification scenarios – examples .....	44
Bibliography.....	53
Figure 1 – Information category overview.....	10
Figure 2 – Information category priority.....	11
Figure 3 – INFORMATION AVAILABLE category .....	12
Figure 4 – OPERATIVE category .....	13
Figure 5 – GENERATING category .....	14
Figure 6 – FULL PERFORMANCE category .....	14
Figure 7 – PARTIAL PERFORMANCE category .....	15
Figure 8 – NON GENERATING category.....	16
Figure 9 – TECHNICAL STANDBY category .....	17
Figure 10 – OUT OF ENVIRONMENTAL SPECIFICATION category .....	18
Figure 11 – REQUESTED SHUTDOWN category.....	19
Figure 12 – OUT OF ELECTRICAL SPECIFICATION category.....	20
Figure 13 – NON-OPERATIVE category.....	21
Figure 14 – SCHEDULED MAINTENANCE category .....	22
Figure 15 – PLANNED CORRECTIVE ACTION category.....	23
Figure 16 – FORCED OUTAGE category .....	23

Figure 17 – SUSPENDED category.....	24
Figure 18 – FORCE MAJEURE category.....	25
Figure 19 – INFORMATION UNAVAILABLE category.....	26
Figure A.1 – Information category overview – mandatory and optional .....	28
Figure A.2 – Optional categories for PARTIAL PERFORMANCE .....	29
Figure A.3 – Derated category .....	30
Figure A.4 – Degraded category .....	30
Figure A.5 – Optional categories for OUT OF ENVIRONMENTAL SPECIFICATION .....	31
Figure A.6 – Calm winds category.....	32
Figure A.7 – Other environmental category .....	33
Figure A.8 – Optional categories for NON-OPERATIVE .....	34
Figure A.9 – Optional categories for forced outage .....	35
Figure A.10 – Workflow breakdown structure .....	36
Figure A.11 – Optional categories for SUSPENDED.....	38
Figure C.1 – Verification scenarios – time allocation to information categories.....	44
Figure C.2 – Verification scenarios – communication aspects .....	45
Figure C.3 – Verification scenarios – partial operational aspects .....	46
Figure C.4 – Verification scenarios – maintenance aspects.....	47
Figure C.5 – Verification scenarios – operational aspects .....	49
Figure C.6 – Verification scenarios – grid / electrical network aspects .....	50
Figure C.7 – Verification scenarios – environmental aspects.....	52

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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 allocation of 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 wind power based generating unit availability measurement. A generating unit includes all equipment up to the termination point defined in the distribution code (grid code) agreed between the generation party and the distribution / transmission party. Availability measurements are concerned with fractions of time a unit is capable of providing 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 power production or capacity. 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 two parts:

- IEC/TS 61400-26-1 specifies terms for time based availability of a wind turbine generating system;
- IEC/TS 61400-26-2 specifies terms for production based availability of a wind turbine generating system.