

EN 303 470 V0.0.1 (2016-09)



**Measurement Process for Energy Efficiency KPI  
for Servers**

**SKELETON DRAFT**



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Reference

<Workitem>

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Keywords

<keywords>

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 32 server) which are, or may be, or may become, essential to the present document.

## 33 Foreword

34 This European Standard (EN) has been produced by ETSI Technical Committee Environmental Engineering (EE).

35 **The present document is**

36

### National transposition dates

Date of adoption of this EN:	<b>1 October 2014</b>
Date of latest announcement of this EN (doa):	<b>31 January 2015</b>
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	<b>31 July 2015</b>
Date of withdrawal of any conflicting National Standard (dow):	<b>31 July 2015</b>

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## 40 Modal verbs terminology

41 In the present document "shall", "shall not", "should", "should not", "may", "need not", "will", "will not", "can" and  
42 "cannot" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](#) (Verbal forms for the expression of  
43 provisions).

44  
45 "must" and "must not" are NOT allowed in ETSI deliverables except when used in direct citation.

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## 46 Introduction

47 The present document takes into account:

- 48 • Final Report - Ecodesign Technical Assistance Study on Standards for Lot 9 Enterprise Servers and Enterprise Data  
49 Storage
- 50 • ETSI GS OEU 003: Operational energy Efficiency for Users (OEU); Energy Consumption Measurement of  
51 Operational Information Technology Servers
- 52 • ISO/IEC 30134-4: Information technology – Data Centres – Key Performance Indicators - Part 4: IT Equipment  
53 Energy Efficiency for Servers (ITEE<sub>SV</sub>)
- 54 • ISO/IEC 30134-5: Information technology – Data Centres – Key Performance Indicators - Part 5: IT Equipment  
55 Utilization for Servers (ITEU<sub>SV</sub>)

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## 57 1 Scope

58 The present document defines:

- 59 • an energy efficiency KPI for servers;
- 60 • a relevant process to perform measurement and manage the KPI calculation.

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## 62 2 References

63 References are either specific (identified by date of publication and/or edition number or version number) or  
64 non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the  
65 referenced document (including any amendments) applies.

66 Referenced documents which are not found to be publicly available in the expected location might be found at  
67 <http://docbox.etsi.org/Reference>.

68 NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee  
69 their long term validity.

### 70 2.1 Normative references

71 The following referenced documents are necessary for the application of the present document.

72 EXAMPLE:

73 [1] ETSI EN 301 025-3: "<Title>".

### 74 2.2 Informative references

75 The following referenced documents are not necessary for the application of the present document but they assist the

76 user with regard to a particular subject area.

77 EXAMPLE:

78 [i.1] ETSI TS 105 200-1-1: Energy management: Global KPIs: Operational infrastructures: Guidance

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## 79 3 Definitions, symbols and abbreviations

80 *Definitions and abbreviations extracted from ETSI deliverables can be useful when drafting documents and can be*  
81 *consulted via the **Terms and Definitions Interactive Database (TEDDI)** (<http://webapp.etsi.org/Teddi/>).*

### 82 3.1 Definitions

83 For the purposes of the present document, the [following] terms and definitions [given in ... and the following] apply:

84 **XXXXX:** XXXXX

85 EDITORS NOTE: during the development of the document see XXXXXX

### 86 3.2 Symbols

87 For the purposes of the present document, the [following] symbols [given in ... and the following] apply:

88 XXXX XXXXXX

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### 90 3.3 Abbreviations

91 For the purposes of the present document, the [following] abbreviations [given in ... and the following] apply:

92 XXXX XXXXXX

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94 EDITORS NOTE: during the development of the document see XXXXXX

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## 95 4 ???????

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97 Annex A: ?????

98 A.1 ??????

99 A.2.1 ???????

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101 Other annexes (as required)

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103 History

<b>Document history</b>		
<Version>	<Date>	<Milestone>
V0.0.1	04/10/2016	First draft

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