



**Access, Terminals, Transmission and Multiplexing (ATTM);
Energy management;
Global KPIs;
Operational infrastructures;
Part 2: Specific requirements;
Sub-part 1: Data centres**

<https://standards.iteh.ai/catalog/standards/etsi/dd9f792e-f0b1-439d-b894-2b6f0ad7f976/etsi-es-205-200-2-1-v1-1-1-2013-05>

Reference

DES/ATTM-02019

Keywords

performance, power

ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C
Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° 7803/88

(<https://standards.iteh.ai>)
Document Preview

Important notice

ETSI ES 205 200-2-1 V1.1.1 (2013-05)

Individual copies of the present document can be downloaded from:

<http://www.etsi.org>

The present document may be made available in more than one electronic version or in print. In any case of existing or perceived difference in contents between such versions, the reference version is the Portable Document Format (PDF). In case of dispute, the reference shall be the printing on ETSI printers of the PDF version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status. Information on the current status of this and other ETSI documents is available at

<http://portal.etsi.org/tb/status/status.asp>

If you find errors in the present document, please send your comment to one of the following services:

http://portal.etsi.org/chaicor/ETSI_support.asp

Copyright Notification

No part may be reproduced except as authorized by written permission.
The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 2013.
All rights reserved.

DECTTM, PLUGTESTSTM, UMTSTM and the ETSI logo are Trade Marks of ETSI registered for the benefit of its Members.
3GPPTM and LTETM are Trade Marks of ETSI registered for the benefit of its Members and
of the 3GPP Organizational Partners.
GSM[®] and the GSM logo are Trade Marks registered and owned by the GSM Association.

Contents

Intellectual Property Rights	5
Foreword.....	5
Introduction	6
1 Scope	7
2 References	7
2.1 Normative references	7
2.2 Informative references	7
3 Definitions, symbols and abbreviations	8
3.1 Definitions	8
3.2 Symbols	9
3.3 Abbreviations	9
4 System definition and boundaries	10
5 Mapping to the objectives of ES 205 200-1	12
5.1 Energy consumption	12
5.2 Task efficiency	12
5.3 Energy re-use	12
5.4 Renewable energy	13
6 Global operational KPIs	13
6.1 Scale	13
6.2 Evolution	13
6.3 Formulae	14
6.3.1 KPI _{EM}	14
6.3.1.1 Formula	14
6.3.1.2 Definitions of terms	14
6.3.1.3 Measurement procedures	14
6.3.1.4 Criteria	15
6.3.2 KPI _{EC}	15
6.3.2.1 Formula	15
6.3.2.2 Definitions of terms	16
6.3.2.3 Measurement points	16
6.3.2.3.1 General	16
6.3.2.3.2 Dedicated energy sources	17
6.3.2.3.3 Shared supply systems	17
6.3.2.4 Measurement procedures	17
6.3.2.5 Criteria	17
6.3.3 KPI _{TE}	17
6.3.3.1 Formula	17
6.3.3.2 Definitions of terms	18
6.3.3.3 Measurement points	18
6.3.3.4 Measurement procedures	18
6.3.3.5 Criteria	18
6.3.4 KPI _{REUSE}	19
6.3.4.1 Formula	19
6.3.4.2 Definitions of terms	19
6.3.4.3 Measurement points	19
6.3.4.4 Measurement procedures	20
6.3.4.5 Criteria	20
6.3.5 KPI _{REN}	20
6.3.5.1 Formula	20
6.3.5.2 Definitions of terms	20
6.3.5.3 Measurement points	20
6.3.5.4 Measurement procedures	20

6.3.5.5	Criteria	20
6.4	Weighting factors	21
6.4.1	Energy re-use	21
6.4.1.1	W_{REUSE}	21
6.4.1.2	W_L	21
6.4.2	Renewable energy (W_{REN})	21
Annex A (informative): Concepts: Energy management, sustainability and Key Performance Indicators		22
A.1	Energy management and sustainability concepts	22
A.2	The status of Key Performance Indicators (KPIs)	23
A.2.1	Technical KPIs	23
A.2.2	Objective KPIs	23
A.2.3	Global KPIs	24
A.2.4	Summary	24
History		25

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

[ETSI ES 205 200-2-1 V1.1.1 \(2013-05\)](https://standards.iteh.ai/catalog/standards/etsi/dd9f792e-f0b1-439d-b894-2b6f0ad7f976/etsi-es-205-200-2-1-v1-1-1-2013-05)

<https://standards.iteh.ai/catalog/standards/etsi/dd9f792e-f0b1-439d-b894-2b6f0ad7f976/etsi-es-205-200-2-1-v1-1-1-2013-05>