

ISO/IEC 30134-2:2016-04 (E)

Information technology - Data centres - Key performance indicators - Part 2: Power usage effectiveness (PUE)

Contents	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms, definitions, abbreviated terms and symbols	1
3.1 Terms and definitions	1
3.2 Abbreviated terms	2
3.3 Symbols	2
4 Applicable areas of the data centre	3
5 Determination of power usage effectiveness (PUE)	3
6 Measurement of power usage effectiveness	4
6.1 Measuring energy consumption	4
6.1.1 General	4
6.1.2 Measurement period and frequency	4
6.1.3 Meter and measurement requirements	4
6.2 Categories of power usage effectiveness	5
6.2.1 General	5
6.2.2 Category 1 (PUE1) -- Basic resolution	5
6.2.3 Category 2 (PUE2) -- Intermediate resolution	5
6.2.4 Category 3 (PUE3) -- Advanced resolution	6
6.2.5 Measurement placement	6
7 Reporting of power usage effectiveness	6
7.1 Requirements	6
7.1.1 Standard construct for communicating PUE data	6
7.1.2 Example of reporting PUE values	6
7.1.3 Data for public reporting of PUE	6
7.2 Recommendations	7
7.2.1 Use of PUE category	7
7.2.2 Trend tracking data	7
Annex A (normative) Energy measurements	9
Annex B (normative) Calculation of PUE using various energy supplies	11
Annex C (normative) PUE derivatives	16
Annex D (informative) Interpretation of PUE and its derivatives	23
Bibliography	25