

# TECHNICAL REPORT



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**Power measurement applications within electrical distribution networks and electrical installations**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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## CONTENTS

FOREWORD.....	4
INTRODUCTION.....	6
1 Scope.....	7
2 Normative references .....	7
3 Terms, definitions and notations .....	7
3.1 Measurement definitions .....	7
3.2 Measurement applications .....	9
3.3 Grid definitions .....	9
3.4 Stakeholder definitions.....	11
3.5 Notations .....	13
3.5.1 Abbreviated terms .....	13
3.5.2 Indices.....	13
4 State-of-the-art measurement applications .....	13
4.1 General.....	13
4.2 Grid power quality.....	14
4.2.1 General .....	14
4.2.2 State of the art on measurement to perform.....	14
4.2.3 State of the art on standards .....	14
4.3 Power monitoring application .....	15
4.3.1 General .....	15
4.3.2 Power monitoring application, general .....	15
4.3.3 Power monitoring application, demand side power quality.....	16
4.4 Billing application.....	17
4.4.1 General .....	17
4.4.2 State of the art on measurement to perform.....	18
4.4.3 State of the art on standards .....	18
4.5 Energy management application .....	19
4.5.1 General .....	19
4.5.2 Energy management application, cost management.....	19
4.5.3 Energy management application, energy efficiency.....	20
Annex A (informative) Example of electrical installation for a mall.....	22
Annex B (informative) Explanation about measurements performed by PQIs (IEC 62586), PMDs (IEC 61557-12) and analogue meters (IEC 60051 series) .....	23
B.1 General.....	23
B.2 Differences .....	23
B.3 Differences between power quality, power monitoring and troubleshooting .....	24
B.3.1 General .....	24
B.3.2 Power quality.....	24
B.3.3 Power monitoring.....	24
B.3.4 Troubleshooting.....	24
B.4 Key parameters measured .....	24
Annex C (informative) Explanation about measurements performed by PMD (IEC 61557-12), IEC 62053-2x, MID .....	26
Annex D (informative) Explanation about the scope of various standards.....	27
Bibliography.....	28

Figure 1 – Measurement applications within the grid .....	13
Figure A.1 – Example of shops within a mall, where all shops are final energy users .....	22
Table 1 – List of main applications .....	14
Table 2 – Standards for grid power quality application .....	15
Table 3 – Benefits of measurements for power monitoring application .....	16
Table 4 – Standards for power monitoring application .....	16
Table 5 – Standards for demand side power quality application .....	17
Table 6 – Simplified overview of billing application.....	18
Table 7 – Benefits of measurements for billing application .....	18
Table 8 – Standards for billing application.....	18
Table 9 – Simplified overview of EM/cost management application .....	19
Table 10 – Benefits of measurements for EM/cost management application.....	19
Table 11 – Benefits of measurements for EM/energy efficiency application.....	20
Table 12 – Benefits of measurements for EM/energy efficiency application in industrial processes .....	21
Table 13 – Standards for EM/energy efficiency application .....	21
Table B.1 – Rough comparison between devices .....	23
Table B.2 – Measurement needs.....	25
Table C.1 – Rough comparison of energy measurement standards .....	26
Table D.1 – Rough comparison of measurement parameters .....	27

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**POWER MEASUREMENT APPLICATIONS WITHIN ELECTRICAL  
DISTRIBUTION NETWORKS AND ELECTRICAL INSTALLATIONS**

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IEC TR 63213, which is a Technical Report, has been prepared by IEC technical committee 85: Measuring equipment for electrical and electromagnetic quantities.

The text of this Technical Report is based on the following documents:

Draft TR	Report on voting
85/662/DTR	85/690/RVDTR

Full information on the voting for the approval of this Technical Report can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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## INTRODUCTION

Utility engineers and facility managers are requesting rich power and energy data from many locations, with guaranteed and reliable accuracy. This data is essential for helping to understand and ensure the reliability, efficiency, and cost effectiveness of their power distribution systems and the energy generated or consumed.

A good understanding of the different kinds of measurement applications is critical to choosing the proper type and capabilities of measuring devices for each location that will deliver the required information.

To achieve these goals, a complete energy measurement plan supported by a network of metering devices.

This report offers an overview of the different categories of measurement applications, with detailed descriptions and illustrations of each, including references to the most relevant international standards.

## **POWER MEASUREMENT APPLICATIONS WITHIN ELECTRICAL DISTRIBUTION NETWORKS AND ELECTRICAL INSTALLATIONS**

### **1 Scope**

This Technical Report intends to provide state-of-the-art information on the various electricity measurement applications made in the grid (supply side) or in electrical installation (demand side), and on the related standards covering these applications.

This Technical Report does not address measurements made for specific purposes such as protection, control, automation or indication.

### **2 Normative references**

There are no normative references in this document.