



Abbreviations

A

Afcone - African Commission on Nuclear Energy
AU – African Union

B

BAS – Building Automation System
BIPV - Building Integrated Photovoltaics
BMS – Building Management System

C

CAPEX – Capital Expenditure
CAT - Computerised Axial Tomography
CDF – Clean Development Mechanism
CDP – Carbon Disclosure Project
CEMEP – Committee of Manufacturers of Electrical Machines and Power Electronics
CFL – Compact Fluorescent Light
CIGS - Copper Indium Gallium Selenide
CIP – Cleaning in Place
CMMS – Computerised Maintenance Management System
CMVSA - Council for Measurement and Verification Professionals of South Africa
COMPS - Centre of Material and Process Synthesis
COP – Cleaning out of Place (process)
COP – Congress of the Parties
CoS – Class of Service
CSIR – Council for Scientific and Industrial Research
CSP – Concentrated Solar Power
CTB – Central Terminal Building
CTIA – Cape Town International Airport
CTS – Cape Town Stadium
CV – Calorific Value
CVD - Chemical Vapour Deposition

D

DBD - Dielectric Barrier Discharge
DNI - Direct Normal Irradiation
DOE – Department of Energy
DOL – Direct On Line
DSSC - Dye Sensitised Solar Cell
DTI – Department of Trade and Industry

E

EMC – Electromagnetic Compatibility
EMF – Electromagnetic Force
EPI – Energy Performance Indicator
ESG – Environment, Social and Corporate Governance
ETF – Exchange Traded Fund
EU – European Union

F

F+B – Food and Beverage
FDA – Food and Drug Administration
FIDS – Flight Information Display System
FIFO – First In – First Out

G

GARP – Generic Attribute Registration Protocol
GBCSA – Green Building Council of South Africa
GDP – Growth Domestic Product
GHG – Greenhouse Gas
GMRP – GARP Multicast Registration Protocol
GOOSE – Generic Object Oriented Substation Event
GPS – Global Positioning Satellite

H

HF – Hydrofluoric Acid
HP – Horse Power
HTF – Heat Transfer Formula
HVAC – Heating, Ventilation and Air-Conditioning

I

ICT - Information and Communication Technologies
IED – Intelligent Electronic Device
IEEE – Institute of Electrical and Electronics Engineers
IGMP – Internet Group Management Protocol
IP – Internet Protocol
IPMVP – International Performance Measurement and Verification Protocol
IPP – Independent Power Producer
IPTV – Internet Protocol Television
IRP – Integrated Resource Plan
IRR - Internal Rate of Return
ISO – International Standards Organisation

J

JSE – Johannesburg Stock Exchange
JWG – Joint Working Group

K

KPI – Key Performance Indicator
KSIA – King Shaka International Airport

L

LAN – Local Area Network
LCD – Liquid Crystal Display
LCoE - Levelised Cost of Energy
LED – Light-emitting Diodes
LMS – LAN Management System
LP – Liquefied Petroleum
LPG – Liquid Petroleum Gas

M

M&V – Measurement and Verification
MAC – Media Access Control
MP – Measuring Point
MRI - Magnetic Resonance Imaging
MSDS – Material Safety Data Sheet
MSI – Master Systems Integrator
MV – Medium Voltage
MVR - Mechanical Vapour Compression
MW - Microwave

**N**

NASA – National Aeronautics and Space Administration
 Necsa - South African Nuclear Energy Corporation
 NEEA – National Energy Efficiency Agency
 NGO – Non-governmental Organisation
 NMBS – Nelson Mandela Bay Stadium
 NPT - Nuclear Non-Proliferation Treaty
 NPV - Net Present Value
 NTP – Network Time Protocol

O

O&M – Operations and Management
 OCGT – Open Cycle Gas Turbine
 OEM – Original Equipment Manufacturer
 OPEX – Operating Expenditure
 OPV - Organic Photovoltaics

P

PBMR – Pebble Bed Modular Reactor
 PCM – Phase Change Material
 PCP – Power Conservation Programme
 PD – Partial Discharge
 PDCA – Plan-Do-Check-Act
 PF – Power Factor
 PF – Pulverised Coal
 PLC – Programmable Logic Controller
 PN – Positive Negative
 POS – Point of Sale
 PP - Pulsed Power
 PTPv2 - Precision Time Protocol version 2
 PV – Photovoltaic
 PWM – Pulse Width Modulation

Q

QMS – Quality Management Systems
 QoS – Quality of Service

R

REIPPPP - Renewable Energy Independent Power Producer Procurement Programme
 RF – Radio Frequency
 ROI – Rate of Investment

ROSE (Foundation) – Recycling Oil Saves the Environment
 rpm – revolutions per minute
 RSTP – Rapid Spanning Tree Protocol
 RTU – Remote Terminal Unit

S

SABS – South African Bureau of Standards
 SAN – Storage Area Network
 SANAS – South African National Accreditation System
 SANEA – South African National Energy Association
 SBAT – Sustainable Building Assessment Tool
 SCADA – Supervisory Control and Data Acquisition
 SQL – Structured Query Language (database)

T

TC – Technical Committee
 TCO – Total Cost of Ownership
 THD – Total Harmonic Distortion

U

UHT – Ultra High Temperature
 UNEP – United Nations Environment Programme
 UNFCCC – United Nations Framework Convention on Climate Change
 UNPRI – United Nations Principles of Responsible Investment
 UPS – Uninterruptible Power System
 USA – United States of America
 USSR - Union of Soviet Socialist Republics

V

VFD – Variable Frequency Drive
 VLAN – Virtual Local Area Network
 VoIP – Voice-over Internet Protocol
 VSD – Variable Speed Drive

W

WAGES - Water, Air, Gas, Electricity and Steam
 WWF – World Wide Fund for Nature

X

XLPE - Cross-linked Polyethylene