

LIST OF SYMBOLS AND ABBREVIATIONS

ABCSE	Australian Business Council for Sustainable Energy
ACEM	Association of Consulting Engineers Malaysia
AEA	ASEAN Energy Award
APEC	Asia–Pacific Economic Cooperation
APM	Association for Project Management
ASEAN	Association of Southeast Asian Nations
ASHRAE	American Society of Heating, Refrigerating and Air Conditioning Engineers
BCA	Building and Construction Authority Singapore
BEI	Building Energy Index
BRE	Building Research Establishment
BREEAM	Building Research Establishment Environmental Assessment Method
CAFOD	Catholic Aid For Overseas Development
CETDEM	Centre for Environment, Technology and Development, Malaysia
CIMP	Construction Industry Master Plan
CIDB	Construction Industry Development Board Malaysia
CIOB	The Chartered Institute of Building
C&S	Civil and structure
CO ₂	Carbon Dioxide
COP	Conference of the Parties to the United Nations Framework Convention on Climate Change
CSD	Commission on Sustainable Development
DANIDA	Danish Agency for Development Assistance
DETR	Department of the Environment Transport and The Regions
DECC	Department of Energy and Climate Change, UK
DEFRA	Department of Environment, Food and Rural Affairs, UK
DfT	Department for Transport, UK
EE	Energy efficient
EIA	Environmental Impact Assessment
FDTCP	Federal Department of Town and Country Planning
GBCA	Green Building Council of Australia
GBI	Green Building Index
GDP	Gross Domestic Product
GEO	Green Energy Office
GHG	Greenhouse Gases
GreenTech	Malaysia Green Technology Corporation
GRI	Global Reporting Initiatives
GSB	Greenbuildingindex Sdn. Bhd.
GW	Gigawatt
IAEA	International Atomic Energy Agency
iiSBE	International Initiative for a Sustainable Built Environment
INSPEN	National Institution of Valuation, Malaysia
IPCC	Intergovernmental Panel on Climate Change
JPI	Johannesburg Plan of Implementation
KeTTHA	Kementerian Tenaga, Teknologi Hijau dan Air (Ministry of Energy, Green Technology and Water Malaysia)
KPT	Kementerian Pengajian Tinggi (Ministry of Higher Education)
KPKT	Kementerian Perumahan dan Kerajaan Tempatan (Ministry of Housing and Local Government of Malaysia)
ktoe	Kilotonne of oil equivalent
kW	Kilowatt
kWh	Kilowatt-hour

kWp	Kilowatt-peak
LEED	Leadership in Energy and Environmental Design
LED	light-emitting diode
LEO	Low Energy Office
MaSC	Managing Sustainable Companies
MASTIC	Malaysian Science and Technology Information Centre
MBIPV	Malaysia Building Integrated Photovoltaic
MDGs	Millennium Development Goals
M&E	Mechanical and Electrical
MECM	Ministry of Energy Communications and Multimedia Malaysia,
MEWC	Ministry of Energy, Water and Communication Malaysia
MIP	Malaysian Institute of Planners
MS1525:2001	Malaysian Standard: Code of Practice on Energy Efficiency and Use of Renewable Energy for Non Residential Buildings: 2001
MS1525:2007	Malaysian Standard: Code of Practice on Energy Efficiency and Use of Renewable Energy for Non Residential Buildings: 2007
Mtoe	Million tonnes of oil equivalent
MW	Megawatt
MYR	Malaysian ringgit
NGO	non-governmental organisation
OTTV	Overall Thermal Transfer Value
PAM	Pertubuhan Arkitek Malaysia (Board of Architects Malaysia)
PB	Pendirian Bangunan (Building Development Plan)
PjH	Putrajaya Holdings
PjC	Putrajaya Corporation
PKK	Pusat Khidmat Kontraktor (Contractor Service Centre Malaysia, Ministry of Works)
PMBOK	Project Management Body of Knowledge
PMI	Project Management Institute,
PPB	Putra Perdana Berhad
PPC	Putrajaya Perdana Construction sdn. Bhd.
PTM	Pusat Tenaga Malaysia (Malaysia Energy Centre)
PV	Photovoltaic
PWC	PriceWaterhouseCoopers
RE	Renewable Energy
REHDA	Real Estate and Housing Developers' Association of Malaysia
ROI	Return on Investment
SBTool	The Sustainable Building Tool
SDIs	Sustainability Indicators
ST	Suruhanjaya Tenaga (Energy Commission Malaysia)
TBL	Triple Bottom Line
TWh	Terawatt-hours
UBBL	Uniform Building Bylaws
UN	United Nation
UNCED	United Nations Conference on Environment and Development
UNDP	United Nations Development Programme
UNDP-GEF	United Nations Development Programme-Global Environment Facility
UNEP	United Nations Environment Programme
UNFCC	United Nations Framework Convention on Climate Change
US	United States
USGBC	U.S Green Building Council
UV	Ultra Violet
VOC	Volatile Organic Compound
W	Watt
WCED	World Commission on Environment and Development

