

## List of Abbreviations

<i>Abbreviation</i>	<i>Full form</i>
ACR	Absolute Cavity Radiometers
ASES	American Solar Energy Society
ASCII	American Standard code for Information Interexchange
ASHRAE	American society of Heating, Refigtraion and Air-conditioning Engineers
BSRN	Baseline Surface Radiation Network
CCS	Carbon Capture and Storage
CEA	Central Electricity Authority
CSP	Concentrated Solar Power
C-WET	Centre for Wind Energy Technology
CIE	Commission Internationale de l'Eclairage
DHI	Diffuse Horizontal Irradiance
DNI	Direct Normal Irradiance
ESRA	European Solar Radiation Atlas
FORTTRAN	Formula Translating Algorithmic Language
GWh	Giga- Watthour
GMS	Geostationary Metrological Satellite
GHG	Green House Gases
GHI	Global Horizontal Irradiance
GTI	Global Tilted Irradiance
GHI <sub>clear</sub>	Global Horizontal Irradiance at Clear Sky
GIZ	Gesellschaft für Internattionale Zusammenarbeit
ISHRAE	Indian Society of Heating Refrigeration and Air-Conditioning Engineers
IRENA	International Renewable Energy Agency
IMD	Indian Meteorological Department
ISO	Intenational Organization for Standardization
LAT	Latitude
MATLAB	Matrix Laboratory
MRM	Metrological Radiation Model
MBE	Mean Bias Error
MNRE	Ministry of New and Renewable Energy
NREL	National Renewable Energy Laboratory
NASA	National Aeronautics and Space Administration
OTEC	Ocean Thermal Energy Conversion
PV	Photo-Voltaic
PTI	Press Trust of India
RH	Relative Humidity
RMSE	Root Mean Square Error
RDNI	Reflected DNI or albedo measurement
RMSE	Root Mean Square Error
SPSS	Statistical Package for the Social Sciences
TSI	Total Sky Imager
WRR	World Radiometric Reference Scale
WMO	World Metrological Organization
W/m <sup>2</sup>	Watt per square meter

