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Abbreviations

AGGI	Annual Greenhouse Gas Index
AMOC	Atlantic Meridional Overturning Circulation
CCS	carbon capture and storage
CCUS	carbon capture, utilization, and storage
CDD	cooling degree day
CH ₄	methane
CO	carbon monoxide
CO ₂	carbon dioxide
CO _{2-eq}	carbon-dioxide equivalent
COP	Conference of the Parties (UNFCCC)
CSP	concentrating solar power
DAC	direct air capture
ESA	European Space Agency
FAO	Food and Agriculture Organization of the United Nations
GDP	Gross domestic product
GHG	greenhouse gases
HDD	heating degree day
HFC	hydrofluorocarbons
IAEA	International Atomic Energy Agency
ICCT	International Council on Clean Transportation
IEA	International Energy Agency
IEEFA	Institute for Energy Economics and Financial Analysis, India
IMF	International Monetary Fund
IPCC	Intergovernmental Panel on Climate Change
LCOE	Levelized Cost of Electricity
LED	light-emitting diode
LSLA	large-scale land acquisitions
MIT	Massachusetts Institute of Technology
NOAA	National Oceanic & Atmospheric Administration

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NO _x	nitrogen oxides
N ₂ O	nitrous oxide
NUE	nitrogen use efficiency
OCO	Orbiting Carbon Observatory
OAPEC	Organization of the Arab Petroleum Exporting Countries
PM2.5	fine particulate matter
PPP	polluter pays principle
PV	solar photovoltaics
SCC	social cost of carbon
SDG	Sustainable Development Goals (United Nations)
SO ₂	sulfur dioxide
SPIS	Solar powered irrigation systems
TCRE	transient climate response to cumulative CO ₂ emissions
UNCED	UN Conference on Environment and Development
UNDP	United Nations Development Programme
UNEP	United Nations Environment Programme
UNFCCC	United Nations Framework Convention on Climate Change
VRE	variable renewable energy
VUCA	volatile, uncertain, complex, ambiguous
WCED	World Commission on Environment and Development (Brundtland commission)
WHO	World Health Organization
WMO	World Meteorological Organization
WRRF	water resource recovery facility