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Annex II: Acronyms

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3-NOP	3-Nitrooxypropanol	CAFO	Concentrated Animal Feeding Operations
A/F	Afforestation/Reforestation	CAMPA	Compensatory Afforestation Management and Planning Authority
ABC	Low Carbon Agriculture Plan	CATDDO	Catastrophe Risk Deferred Drawdown Option
ABM	Agent-Based Model	CBA	Community-based Adaptation/Cost Benefit Analysis
ADB	Asian Development Bank	CBD	United Nations Convention on Biodiversity
AerChemMIP	Aerosol Chemistry Model Intercomparison Project	CC	Carbon Capture
AFOLU	Agriculture, Forestry and Other Land Use	CCS	Carbon dioxide Capture and Storage
AgMIP	Agricultural Model Intercomparison and Improvement Project	CCA	Climate Change Adaptation
AGRA	Alliance for a Green Revolution in Africa	CCAFS	CGIAR Research Program on Climate Change, Agriculture and Food Security
AI	Aridity Index	CCN	Cloud Condensation Nuclei
AMO	Atlantic Multi-decadal Oscillation	CCRIF	Caribbean Catastrophe Risk Insurance Facility
AR	Afforestation and Reforestation	CCS	Carbon Capture and Storage
AR5	Fifth Assessment Report	CCU	Carbon Capture and Usage
ARC	Africa Risk Capacity	CDM	Clean Development Mechanism
ARM	Adaptive Risk Management	CDP	Carbon Disclosure Project
ASF	Animal Sourced Foods	CDR	Carbon Dioxide Removal
AVHRR	Advanced High Resolution Radiometer	CEA	Cost Effectiveness Analysis
AWD	Alternate Wetting and Drying	CEC	Commission of the European Communities
BAPEN	British Association for Parenteral and Enteral Nutrition	ÇEMGM	Conservation Reserve Program
BAU	Business as Usual	CEN-SAD	The Community of Sahel-Saharan States
BC	Biochar	CFS	Committee on World Food Security
BC	Black Carbon	CGIAR-	Consultative Group on International Agricultural Research
BCR	Benefit Cost Ratio	CGRA	Coordinated Global and Regional Assessment
BE	Bioenergy	CH₄	Methane
BECCS	Bioenergy with Carbon Capture and Storage	CHP	Combined Heat and Power
BEFM	Bio-Economic Farm Model	CHIRPS	Climate Hazards Group Infrared Precipitation with Station
BEST	Berkeley Earth Surface Temperature	CHMI	Czech Hydrometeorological Institute
BPE	Biomass Production Efficiency	CHP	Combined Heat and Power
BrC	Brown Carbon	CI	Confidence Interval
BTV	Blue-Tongue Virus	CIAT	International Centre for Tropical Agriculture
BUR	Biannual Update Report	CIPHET	Central Institute of Post-Harvest Engineering and Technology
BVOC	Biogenic Volatile Organic Compounds	CIREN	Centro de Información de Recursos Naturales
C	Carbon	CM	Cultured Meat
CA	Conservation Agriculture	CMIE	Centre of Monitoring the Indian Economy
CABI	Centre for Agriculture and Bioscience International	CMIP5	Coupled Model Intercomparison Project Phase 5
CACILM	Central Asian Countries Initiative for Land Management		

CMIP6	Coupled Model Intercomparison Project Phase 6	ENSO	El Niño/Southern Oscillation
CO	Carbon monoxide	EPA	UN Environmental Protection Agency
CO₂	Carbon dioxide	ES	Ecosystem Service
CO₂e	Carbon dioxide equivalent	ESM	Earth System Models
CO₂eq	Carbon dioxide equivalent	ESL	Extreme Sea Level
COP	Conference of the Parties	ETS	Emissions Trading Scheme
CRCM	Canadian Regional Climate Model	EU	European Union
CRISPR	Clustered Regularly Interspaced Short Palindromic Repeats	EU-RED	European Union Renewable Energy Directive
CRP	Conservation Reserve Program	EVI	Enhanced Vegetation Index
CRU	Climatic Research Unit of the University of East Anglia	EW/EA	Early Warning and Early Action
CRUTEM	Dataset of the Climatic Research Unit of the University of East Anglia	EWS	Early Warning Systems
CRV	Climate Resilient Villages	FACE	Free-Air Carbon dioxide Enrichment
CSA	Climate Smart Agriculture	FAO	United Nations Food and Agricultural Organisation
CSO	Civil Society Organisation	FAO-FRA	FAO Global Forest Resources Assessment
CSV	Climate Smart Village	FAOSTAT	FAO Database
DALY	Disability-Adjusted Life-Year	FAQ	Frequently Asked Questions
DERM	Department of Environment and Resource Management, India	Fe	Iron
DESIRE	Desertification Mitigation and Remediation of Land	FF	Fossil Fuel
DGVM	Dynamic Global Vegetation Model	FIES	Food Insecurity Experience Scale
DJF	December-January-February	fNRB	fraction of Non-Renewable Biomass
DMP	Dust Mass Path	FRA	Forest Rights Act (India)
DRM	Disaster Risk Management	FSC	Forest Stewardship Council
DOD	Dust Optical Depth	FWL	Food Waste and Loss
DRR	Disaster Risk Reduction	GATT	General Agreement on Tariffs and Trade
EBA	Ecosystem Based Adaptation	GBEP	Global Bioenergy Partnership
EC	Elemental Carbon or European Commission	GCF	Green Climate Fund
ECA	European Court of Auditors	GCM	Global Climate Model or General Circulation Model
EDGAR	Emissions Database for Global Atmospheric Research	GCP	Global Carbon Project
EEA	European Environment Agency	GDEWS	Global Drought Early Warning System
EF	Emission Factor	GDP	Gross Domestic Product
EFSA	European Food Safety Authority	GE	Government Effectiveness or General Equilibrium
EFT	Ecological Fiscal Transfer	GEF	Global Environmental Facility
ELD	Economics of Land Degradation or Economics of Land Degradation Initiative	GFCS	Global Framework for Climate Services
EM-DAT	International Disaster Database	GFED	Global Fire Emissions Database
		GFGP	Conversion of Cropland to Forests and Grasslands Program (Grain for Green Programme)
		GGCM	Global Gridded Crop Models

Gha	Gigahectares	IAM	Integrated Assessment Model
GHCN	Global Historical Climatology Network	ICARDA	International Center for Agriculture Research in the Dry Areas
GHG	Greenhouse Gas	ICCC	International Conference on Climate Change
GHGE	Greenhouse Gas Emissions	ICOS	Integrated Carbon Observation System
GHGI	Greenhouse Gas Inventory	ICPAC	IGAD Climate Prediction and Applications Centre
GIAHS	Globally Important Agricultural Heritage Site	ICSU	International Council for Science
GIEWS	FAO Global Information and Early Warning System	ICT	Information and Communication Technology
GIMMS3g	Global Inventory Modelling and Mapping Studies	ICTP	International Centre for Theoretical Physics
GISTEMP	Goddard's Global Surface Temperature Analysis	IEA	International Energy Agency
GIZ	German Society for International Cooperation	IFAD	International Fund for Agricultural Development
GJ	Gigajoules	IFPRI	International Food Policy Research Institute
GLASOD	Global Assessment of Human-Induced Soil Degradation	IGAD	Intergovernmental Authority on Development
GLASS	Global Land Atmosphere System Study	IHME	Institute for Health Metrics and Evaluation
GLOBIOM	GLobal BIOSphere Management model	IK	Indigenous Knowledge
GLOF	Glacial Lake Outburst Floods	ILK	Indigenous and Local Knowledge
GLOMAP	Global Model of Aerosol Processes	iLUC	indirect Land Use Change
GM	Genetically Modified	IMAGE	Integrated Model to Assess Global Environment
GMO	Genetically Modified Organism	INDC	Intended Nationally Determined Contribution
GMSL	Global Mean Sea Level	INPE	Instituto Nacional de Pesquisas Espaciais (National Institute for Space Research)
GMST	Global Mean Surface Temperature	IOD	Indian Ocean Dipole
GMT	Global Mean Temperature	IPBES	Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services
GNR	Global Nutrition Report	IPCC	Intergovernmental Panel on Climate Change
GPP	Gross Primary Productivity/Gross Primary Production	IPO	Inter-decadal Pacific Oscillation
GWP	Global Warming Potential	IQR	Interquartile Range
Ha	Hectares	IRD	Integrated Rural Development
H₂	Hydrogen	ISEAL	ISEAL Alliance (International Social and Environmental Accreditation and Labelling Alliance)
HadCM3	Hadley Centre Coupled Model, version 3	ISO	International Organization for Standardization
HANPP	Human Appropriation of Net Primary Production	ITPS	Intergovernmental Technical Panel on Soils
HAPPI	Half a degree Additional warming, Projections, Prognosis and Impacts	ITRDB	International Tree Ring Data Bank
HDI	Human Development Index	IUCN	International Union for Conservation of Nature
HEI	Healthcare Environment Inspectorate	IWAI	Inland Waterways Authority of India
HHP	High Hydrostatic Pressure	IWM	Integrated Watershed Management
HKH	Hindu-Kush Himalayan	JJA	June-July-August
HLPE	High Level Panel of Experts		
HYDE	History Database of the Global Environment		

K	Potassium	MERIS	Medium Resolution Imaging Spectrometer
km	Kilometres	MESSAGE	Model for Energy Supply Systems And their General Environmental impact
kt	Kilotonnes	MFS	Microfinance Services
kWh	Kilowatt hours	Mha	Megahectare
L	Litres	MIRWH	Mechanized Micro Rainwater Harvesting
LADA	Land Degradation Assessment in Drylands	MJ	Megajoules
LAI	Leaf Area Index	MND	Micro Nutrient Deficiency
LAPA	Local Adaptation Plan of Action	MODIS	Moderate Resolution Imaging Spectroradiometer
LCA	Lifecycle Analysis/Life-Cycle Assessment	MOFPI	Ministry of Food Processing Industries
LCC	Land-Cover Conversions	MRV	Monitoring, Reporting and Verification
LCCS	Land Cover Classification System	MSA	Mean Species Abundance
LDC	Least Developed Countries	Mt	Megatonnes
LDN	Land Degradation Neutrality	MTOE	Million Tonnes of Oil Equivalent
LED	Low Energy Demand	N	Nitrogen
LGP	Length of Growing Period	N₂O	Nitrous Oxide
LiDAR	Light Detection and Ranging	NAMA	Nationally Appropriate Mitigation Action
LIMCOM	Limpopo Watercourse Commission	NAP	National Adaptation Plan
LK	Local Knowledge	NAPA	National Adaptation Program of Action
LM	Land Management	NARC	Nepal Agricultural Research Council
LMIC	Low- and Middle-Income Country	NASA/GISS	US National Aeronautics and Space Administration
LPG	Liquified Petroleum Gas	NBS	Nature Based Solutions
LSAT	Land Surface Air Temperature	NCE	New Climate Economy
LSLA	Large-Scale Land Acquisition	NCD	Non-Communicable Diseases
LTKA	Local and Traditional Knowledge in Agriculture	NCP	Nature's Contributions to People
LUC	Land Use Change	NDC	Nationally Determined Contribution
LUH2	Harmonised Land Use Change Data	NDVI	Normalised Difference Vegetation Index
LULCC	Land Use Land Cover Change	NENA	Near East and North Africa
LULUCF	Land Use, Land Use Change and Forestry	NEON	National Science Foundation's National Ecological Observatory Network
MA	Millennium Ecosystem Assessment	NEP	National Energy Programme
MAC	Marginal Abatement Cost	NET	Negative Emission Technology
MACC	Marginal Abatement Cost Curve	NFPP	National Forest Protection Program
MAgPIE	Model of Agricultural Production and its Impact on the Environment	NGO	Non-Governmental Organisation
MAM	March-April-May	NH₃	Ammonia
MAR	Managed Aquifer Recharge	NIAB	National Institute of Agricultural Botany
MCF	Methyl Chloroform	NOAA	US National Oceanic and Atmospheric Administration
MCS	Mesoscale Convective Systems		
MEA	Millennium Ecosystem Assessment		
MED	Middle Eastern Dust Storms		

NOAA AVHRR	US National Oceanic and Atmospheric Administration Advanced Very High Resolution Radiometer	PPCDAm	Interministerial Plan of Action for Prevention and Control of Deforestation of the Legal Amazon
NOAA ESRL	US National Oceanic and Atmospheric Administration Earth System Research Laboratory	PPI	Plant Phenology Index
NPP	Net Primary Production/Net Primary Productivity	PRIMAP	Potsdam Real-time Integrated Model for the probabilistic Assessment of emission Paths
NPV	Net Present Value	RAP	Representative Agricultural Pathways
NRC	National Research Council	RCM	Regional Climate Models
NRDC	Natural Resources Defence Council	RCP	Representative Concentration Pathway
NTFP	Non-Timber Forest Product	REDD	Reducing Emissions from Deforestation and Degradation
NUS	Neglected and Underutilised Species	REDD+	Reducing Emissions from Deforestation and Degradation and the role of conservation, sustainable management of forests and enhancement of forest carbon stocks in developing countries
O₂	Oxygen	RegCM	Regional Climate Model
O₃	Ozone	REMIND	REgional Model of INvestments and Development
OC	Organic Carbon	REN21	Renewable Energy Policy Network for the 21st Century
OECD	Organisation for Economic Co-operation and Development	RF	Radiative Forcing
OH	Hydroxyl Radical	RESTREND	Residual Trends
ORCHIDEE	Organising Carbon and Hydrology In Dynamic Ecosystems	RIL	Reduced Impact Logging
OSS	Sahara and Sahel Observatory	ROSCA	Rotating Saving and Credit Association
P	Precipitation or Phosphorus	RPDS	Research Program on Dryland Systems
PAF	Pilot Auction Facility	RUE	Rain Use Efficiency
PAGGW	Pan-African Agency of the Great Green Wall	RUSLE	Revised Universal Soil Loss Equation
PAH	Polycyclic Aromatic Hydrocarbon	RVI	Reconstructed Vegetation Index
PAYT	Pay As You Throw	RWH	Rainwater Harvesting
PBAP	Primary Biological Aerosol Particles	RX1day	Annual Maximum 1-day Precipitation
PCP	Precipitation	SAH	Sahara
PCRAFI	Pacific Catastrophe Risk Assessment and Financing Initiative	SAS	South Asia
PEFC	Programme for the Endorsement of Forest Certification	SAT	Surface Air Temperature
PES	Payment for Environmental Services/Payment for Ecosystem Services	SCC	Social Cost of Carbon
PET	Potential Evapotranspiration	SD	Standard Deviation or Sustainable Development
PHL	Post Harvest Losses	SDG	Sustainable Development Goal
PICS	Purdue Improved Crop Storage	SDS-WAS	Sand and Dust Storm Warning Advisory and Assessment System
PM	Particulate Matter	SERFOR	National Forest Service and Wildlife Authority
PM2.5	Particulate matter with size less than 2.5 µm	SES	Socio-Ecological Systems
PoU	Prevalence of Undernourishment	SFM	Sustainable Forest Management
PPA	Power Purchase Agreements		

SFSC	Shortening Food Supply Chain	TSS	Time Series Segmentation
SI	Sustainable Intensification	UGI	Urban Green Infrastructure
SIB	State Investment Bank	UHI	Urban Heat Island
SICAR	National Land Registry System	UNCBD	United Nations Convention on Biodiversity
SIDS	Small Island Developing States	UNCCD	United Nations Convention to Combat Desertification
SLCF	Short-Lived Climate Forcer	UNCED	United Nations Conference on Environment and Development
SLCP	Short Lived Climate Pollutant	UNCTAD	United Nations Conference on Trade and Development
SLM	Sustainable Land Management	UNDP	United Nations Development Programme
SM	Supplementary Materials	UN-EMG	UN Environment Management Group
SO₂	Sulfur dioxide	UNEP	United Nations Environment Programme
SOA	Secondary Organic Aerosols	UNEP-GEF	UN Environment Global Environment Facility
SOC	Soil Organic Carbon	UNFCCC	United Nations Framework Convention on Climate Change
SOFI	The State of Food Security and Nutrition in the World	UNICEF	United Nations Children's Fund
SOM	Soil Organic Matter	UNISDR	UN Sendai Framework for Disaster Risk Reduction
SON	September-October-November	UN-REDD	United Nations Collaborative Programme on Reducing Emissions from Deforestation and Forest Degradation in Developing Countries
SPOT VGT	Satellite Pour l'Observation de la Terre Vegetation (Satellite for the Observation of the Earth Vegetation)	UPAF	Urban and Peri-urban Agriculture and Forestry
SR15	IPCC Special Report on Global Warming of 1.5°C	USAID	United States Agency for International Development
SRCLL	IPCC Special Report on Climate Change and Land	USD	United States Dollars
SRES	IPCC Special Report on Emission Scenarios	USDA	United States Department of Agriculture
SREX	IPCC Special Report on Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation	USEPA	United States Environmental Protection Agency
SR-LULUCF	IPCC Special Report on Land Use, Land-Use Change and Forestry	UTFI	Underground Taming of Floods for Irrigation
SROCC	IPCC Special Report on the Ocean Cryosphere and Climate Change	UV	Ultraviolet
SSP	Shared Socio-economic Pathways	VGGT	Voluntary Guidelines on the Responsible Governance of Tenure of Land, Fisheries and Forests in the Context of National Food Security
SSSA	Soil Science Society of America	VOC	Volatile Organic Compound
SST	Sea Surface Temperature	VOD	Vegetation Optical Depth
SWAT	Soil and Water Assessment Tool	w/	With
SWC	Soil and Water Conservation	w/o	Without
SYR	IPCC Synthesis Report	W	Watts
t	Tonnes	WAF	West Africa
TCR	Transient Climate Response	WaTEM/SEDEM	Spatially distributed sediment delivery model combining the WaTEM and SEDEM models
TEEB	The Economics of Ecosystems and Biodiversity		
Tg	Teragrams		
TS	Technical Summary		

WBA	World Bioenergy Association
WBCSD	World Business Council for Sustainable Development
WEC	World Energy Council
WEF	World Economic Forum
WEO	World Energy Outlook
WEPP	Water Erosion Prediction Project
WET	Wetland Extent Trends
WFP	World Food Programme
WGI	IPCC Working Group I
WGII	IPCC Working Group II
WGIII	IPCC Working Group III
WHO	World Health Organisation
WMO	World Meteorological Organisation
WOCAT	World Overview of Conservation Approaches and Technologies
WRI	World Resources Institute
WSOA	Water Soluble Organic Compounds
WTO	World Trade Organisation
WUE	Water Use Efficiency
yr	Year
ZNLD	Zero Net Land Degradation