

Annex VI: Acronyms

This chapter should be cited as:

IPCC, 2022: Annex VI: Acronyms. In *Climate Change 2022: Mitigation of Climate Change. Contribution of Working Group III to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change* [P.R. Shukla, J. Skea, R. Slade, A. Al Khourdajie, R. van Diemen, D. McCollum, M. Pathak, S. Some, P. Vyas, R. Fradera, M. Belkacemi, A. Hasija, G. Lisboa, S. Luz, J. Malley, (eds.)]. Cambridge University Press, Cambridge, UK and New York, NY, USA. doi: 10.1017/9781009157926.025

A/R	afforestation/reforestation	BASIC	Brazil, South Africa, India and China
AB	Assembly Bill	BAT	best available technology
AC	alternating current	BAU	business as usual
ACCTS	Agreement on Climate Change, Trade and Sustainability	BC	black carbon
ACF	areal carbon footprint	BCA	border carbon adjustment
ADEME	Agence de l'Environnement et de la Maîtrise de l'Energie (French Environment and Energy Management Agency)	BECCS	bioenergy with carbon capture and storage
AF	Adaptation Fund	BEES	building energy efficiency standards
AFR	Africa	BEMS	building energy management systems
AFD	French Development Agency	BEV	battery electric vehicle
AFOLU	agriculture, forestry and other land use	BF-BOF	blast furnace-basic oxygen furnace
AGAGE	Advanced Global Atmospheric Gases Experiment	BIM	Building Information Modelling
AI	artificial intelligence	BIPV	building-integrated photovoltaic
AILAC	Association of the Latin American and Caribbean Countries	BLUE	Bookkeeping of land-use emissions
ALBA	Alianza Bolivariana para los Pueblos de Nuestra América (Bolivarian Alliance for the Peoples of our Americas)	BR	biennial report
ALCA	Attributional Life Cycle Assessment	BRI	Belt and Road Initiative
AM	additive manufacturing	BRT	bus rapid transport
APEC	Asia-Pacific Economic Cooperation	BTR	biennial transparency report
AR4	Fourth Assessment Report of the Intergovernmental Panel on Climate Change	BTU	British thermal units
AR5	Fifth Assessment Report of the Intergovernmental Panel on Climate Change	BUR	biennial update report
AR6	Sixth Assessment Report of the Intergovernmental Panel on Climate Change	CA	capability approach
AR7	Seventh Assessment Cycle of the Intergovernmental Panel on Climate Change	CAT	Climate Action Tracker
ARC	African Risk Capacity	CAGR	compound annual growth rate
ARPA-E	Advanced Research Projects Agency-Energy	CAIT	Climate Analysis Indicators Tool
ART	Architecture for REDD+ Transactions	CAPEX	capital expenditure
Art.	Article (e.g., of the UNFCCC)	CAR	Climate Action Reserve
ASAP	Adaptation for Smallholder Agriculture Programme	CBA	cost-benefit analysis
ASCM	Agreement on Subsidies and Countervailing Measures	CBAM	carbon border adjustment mechanism
ASI	Avoid-Shift-Improve	CBCF	consumption-based carbon footprint (accounting)
ASK	available seat kilometres	CBD	Convention on Biological Diversity
AUM	assets under management	CBDRRRC	common but differentiated responsibilities and respective capabilities
		CBEs	consumption-based emissions
		CCAC	Climate and Clean Air Coalition
		CCD	climate-compatible development
		CCPI	Climate Change Performance Index
		CCRIF	Caribbean Catastrophe Risk Insurance Facility
		CCS	carbon capture and storage
		CCT	cirrus cloud thinning

CCU	carbon capture and utilisation	COP	Conference of the Parties to the UNFCCC
CCUS	carbon capture, use and storage	CORSIA	Carbon Offsetting and Reduction Scheme for International Aviation
CCX	Chicago Climate Exchange	CPRS	Climate Policy Relevant Sectors
CD	charge depleting	CPTPP	Comprehensive and Progressive Agreement for Trans-Pacific Partnership
CDD	cooling degree-days	CRD	climate-resilient development
CDIAC	Carbon Dioxide Information Analysis Center	CREMAs	Community Resource Management Area Mechanisms (Ghana)
CDM	Clean Development Mechanism	CRF	common reporting format
CDR	carbon dioxide removal	CRIBs	Climate Relevant Innovation-system Builders
CE	circular economy	CS	charge sustaining
CEA	cost-effectiveness analysis	CSC	climate-smart cocoa
CEDS	Community Emissions Data System	CSI	Cement Sustainability Initiative
CETA	EU-Canada Comprehensive Economic and Trade Agreement	CSP	concentrating solar power
CFCs	chlorofluorocarbons	CSR	corporate social responsibility
CfD	contract for difference	CSSP	cross-sector social partnership
CFL	compact fluorescent lamp [lighting]	CTCN	Climate Technology Centre and Network
CGE	Computable General Equilibrium	CurPol	Current Policies scenario
CGTP	combined global temperature change potential	DAC	direct air capture
CH₄	methane	DACCS	direct air carbon capture and storage
CHP	combined heat and power	DACCU	direct air capture carbon and utilisation
CII	Carbon Intensity Indicator	DALY	disability adjusted life year
CLASP	Collaborative Labelling and Appliance Standards Program	DBH	diameter at breast height
CLC	constant land cover	DC	direct current
CLCA	Consequential Life Cycle Assessment	DGVM	dynamic global vegetation model
CLIMI	Climate Laws, Institutions and Measures Index	DLS	decent living standards
CLRTAP	Convention on Long-Range Transboundary Air Pollution	DRI	direct reduced iron
CLT	cross-laminated timber	DSM	demand-side management
CMA	Conference of the Parties serving as the meeting of the Parties to the Paris Agreement	DWM	down woody material
CMIP6	Coupled Model Intercomparison Project Phase 6	EaaS	energy as a service
CNG	compressed natural gas	EAF	electric arc furnace
CO	carbon monoxide	EBEs	extraction-based emissions
CO₂	carbon dioxide	EDGAR	Emissions Database for Global Atmospheric Research
CO₂-eq	carbon dioxide equivalent	EDLC	electrochemical double layer capacitor
COMMIT	Climate policy assessment and Mitigation Modelling to Integrate national and global Transition pathways	EEA	Eastern Europe and West Central Asia
CoP	coefficient of performance	EED	Energy Efficiency Directive
		EEDI	Energy Efficiency Design Index
		EEE	emissions embodied in exports
		EEl	emissions embodied in imports

EEM	Energy Efficient Mortgage	FBDG	food-based dietary guidelines
EES	electrical energy storage	FCDO	UK Foreign, Commonwealth and Development Office
EET	emissions embodied in trade	FCV	fuel cell vehicle
EEXI	Energy Efficiency Existing Ship Index	FDI	Foreign Direct Investment
EF	emission factor	FFI	fossil fuel and industry
EGR	exhaust gas recirculation	F-gas	fluorinated gas
EGTT	Expert Group on Technology Transfer	FIC	Faster Innovation Case
EIMs	Energy Improvement Mortgages	FiT	feed-in tariff
EIP	energy and industrial processes	FiTP	feed-in premium
EJ	exajoule	FLEGT	Forest Law Enforcement, Governance and Trade
E_{LUC}	land-use change emissions	FLW	food loss and waste
EMAS	Eco-Management and Auditing Scheme	FRAND	fair, reasonable and non-discriminatory
EPD	Environmental Product Declaration	FSC	Forest Sustainability Council
EPBD	Energy Performance Buildings Directive	FT	Fischer-Tropsch
EPCs	Energy Performance Certificates	FTA	free trade agreement
EPS	Emissions Performance Standard	FWM	fine woody material
EPR	extended producer responsibility	GATS	General Agreement on Trade in Services
ERF	effective radiative forcing	GATT	General Agreement on Tariffs and Trade
ERIA	Economic Research Institute for ASEAN and East Asia	GBAM	ground-based albedo modifications
ES-FiT	Energy Savings Feed-in Tariff	GCAM	Global Change Assessment Model
ESCO	Energy Service Company	GCCA	Global Cement and Concrete Association
ESA	energy services agreement	GCF	Green Climate Fund
ESD	education for sustainable development	GCoM	Global Covenant of Mayors
ESG	environmental, social and governance	GCP	Global Carbon Project
ESM	energy systems model	GDP	gross domestic product
ETP	<i>Energy Technology Perspectives</i> (IEA report)	GEA	Global Energy Assessment
ETS	Emissions Trading System	GEF	Global Environment Facility
EU	European Union	GFBI	Global Forest Biodiversity Initiative
EU-27	European Union member states [excluding UK]	GFCA	Global Framework for Climate Action
EU-28	European Union member states [including UK]	GFCF	Gross-fixed capital formation
EU ETS	European Union Emissions Trading Scheme	GFED	Global Fire Emissions Database
EU-RED	EU Renewable Energy Directive	GHG	greenhouse gas
EV	electric vehicle	GIS	geographic information system
EW	enhanced weathering	GIS	global innovation system
FaIR	Finite Amplitude Impulse Response	GIZ	the German Development Agency (<i>Deutsche Gesellschaft für Internationale Zusammenarbeit</i>)
FAQ	frequently asked question	GJ	gigajoule
FAO	Food and Agriculture Organization of the United Nations	GMF	Global Methane Fund

GMI	Global Methane Initiative	ICJ	International Court of Justice
GMRIO	global multi-region input-output	ICT	information and communication technology
GNI	gross national income	IDDRI	Institute for Sustainable Development and International Relations
GPP	Green Public Procurement	IEA	International Energy Agency
GPT	general-purpose technologies	IFC	International Finance Corporation
GSAT	Global Surface Air Temperature	IFDD	Institut de la Francophonie pour le Développement Durable (Francophonie Institute for Sustainable Development)
Gt	gigatonne	IFI	international financial institution
GtCO₂-eq	gigatonnes of CO ₂ equivalent	IGCC	International Green Construction Code
GTEM	global transport energy sectoral models	IIASA	International Institute for Applied Systems Analysis
GTP	global temperature change potential	IIGCC	Institutional Investors Group on Climate Change
GWP	global warming potential	IIASA	International Institute for Applied Systems Analysis
GWP100	100-year global warming potential	IloT	industrial internet of things
HAP	household air pollution	ILB	incandescent light bulb
HCE	historical cumulative emission	ILM	intrusive load monitoring
HCFCs	hydrochlorofluorocarbons	IMF	International Monetary Fund
HCS	High Carbon Stock	IMO	International Maritime Organization
HDI	Human Development Index	IMP	Illustrative Mitigation Pathway
H-DRI	Hydrogen-based direct reduced iron	IMP-GS	Illustrative Mitigation Pathway – Gradual Strengthening
HDV	Heavy-duty vehicles	IMP-LD	Illustrative Mitigation Pathway – Low Demand
HEMS	home energy management system	IMP-Neg	Illustrative Mitigation Pathway – Net Negative Emissions
HES	Hybrid energy storage	IMP-Ren	Illustrative Mitigation Pathway – Renewable Electricity
HEV	hybrid electric vehicle	IMP-SP	Illustrative Mitigation Pathway – Shifting Pathways
HFC	hydrofluorocarbon	INDC	Intended Nationally Determined Contributions
HFCV	hydrogen fuel cell vehicle	IoT	internet of things
HIHD	Historical Index of Human Development	IPBES	Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services
HLPF	High-Level Political Forum	IPCC	Intergovernmental Panel on Climate Change
HN	Houghton and Nassikas	IP	Illustrative Pathway
HSR	high-speed rail	IPP	independent power producers
HVAC	heating, ventilation and air conditioning	IPPU	Industrial processes and product use
HVO	hydrotreated vegetable oil	IPR	intellectual property rights
HYDE	History database of the Global Environment	IRENA	International Renewable Energy Agency
IAGA	International Air Transport Association	IRP	UN International Resource Panel
IAM	integrated assessment model		
IBE	income-based emission accounting		
ICAO	International Civil Aviation Organization		
ICCT	International Council on Clean Transportation		
ICE	internal combustion engine		
ICEV	internal combustion engine vehicles		
ICI	international cooperative initiative		

ISDS	investor–state dispute settlement	MAPS	Mitigation Action Plans and Scenarios
ITF	International Transport Forum	mbpd	million barrels per day
ITMO	internationally transferred mitigation outcome	MCB	marine cloud brightening
ITUC	International Trade Union Confederation	MDB	multilateral development bank
JICA	Japanese International Cooperation Agency	ME	material efficiency
JRC	GECO Joint Research Centre – Global Energy and Climate Outlook	MES	material efficiency scenario
KR	key risks	MEA	multilateral environmental agreement
kWh	kilowatt hour	MEPC	Marine Environment Protection Committee
LAM	Latin America and the Caribbean	MEPSs	Minimum Energy Performance Standards
LCA	life cycle assessment <i>or</i> life cycle analysis	Mha	million hectares
LCC	lifecycle costs	MIGA	Multilateral Investment Guarantee Agency
LCCE	levelised cost of conserved energy	MIS	mission-oriented innovation systems
LCCC	levelised cost of conserved carbon	MJ	megajoule
LCOE	levelised cost of electricity <i>or</i> levelised cost of energy	Mkm²	million square kilometres
LCS	low-carbon society	MLP	multi-level perspective
LDCs	Least-Developed Countries	ModAct	Moderate Action scenario
LDCF	Least Developed Countries Fund	MOE	molten oxide electrolysis
LDN	Land Degradation Neutrality	MOOC	massive open online course
LDV	light-duty vehicle	MPa	megapascal
LEAF	Lowering Emissions by Accelerating Forest Finance	MRV	measuring, reporting and verifying <i>or</i> measuring, reporting and verification
LED	light-emitting diode	MS	member state
LED scenario	Low Energy Demand scenario	MSME	micro, small and medium enterprises
LEDs	low-emissions development strategies	Mt	megatonne
LIB	lithium-ion battery	MTA	methanol-to-aromatics
LiRE	IMAGE-Lifestyle-Renewable (IEA scenario)	MTO	methanol-to-olefins
LNG	liquefied natural gas	MWh	megawatt hour
LPG	liquefied petroleum gas	N₂O	nitrous oxide
LTGG	long-term global goal (to hold the increase in the global average temperature to well below 2°C above pre-industrial levels and to pursue efforts to limit the temperature increase to 1.5°C above pre-industrial levels)	NAFTA	North American Free Trade Agreement
LTO	long-term operation	NAMA	Nationally Appropriate Mitigation Actions
LULUCF	land use, land-use change and forestry	NAP	national adaptation plan
LUM	land-use model	NAZCA	Non-State Actor Zone for Climate Action
MA	Mitigation Alliance	NBS	nature-based solutions
MaaS	Mobility as a Service	NDC	Nationally Determined Contribution
MAC	marginal abatement cost	NEDO	New Energy and Industrial Technology Development Organisation, Japan
MACC	marginal abatement cost curve	NELD	non-economic loss and damage
		NF₃	nitrogen trifluoride
		NGFS	Network for Greening the Financial System
		NGHGI	national greenhouse gas inventories

Acronyms

NGO	non-governmental organisation	PCRAFI	Pacific Catastrophe Risk Assessment and Financing Initiative
NiCD	nickel–cadmium	PDB	public development bank
NILM	non-intrusive load monitoring	PEFC	Programme for the Endorsement of Forest Certification
Nimby	Not in my back yard	PEMFC	proton-exchange membrane fuel cells
NiMH	nickel-metal hydride	PES	payment for ecosystem services
NIS	national innovation system	PFCs	perfluorocarbons
NMVOC	non-methane volatile organic compounds	PHEV	plug-in hybrid electric vehicle
NOAA	National Oceanic and Atmospheric Administration	pkm	passenger-kilometres
NRG	natural regrowth	PM	particulate matter
NR	Non-Residential	PPA	Power Purchase Agreement
NSA	non-state actor	PPCA	Powering Past Coal Alliance
NTEM	national transport -energy models	PPCR	Pilot Program for Climate Resilience
NT	Non-technological	PPI	pulp and paper industry
NZE	net zero emissions	PPP	public-private partnership
NZE scenario	Net-Zero Emissions by 2050 (IEA scenario)	PPP	purchasing power parity
NZEB	net zero energy building	PRI	Principles for Responsible Investment
nZEB	nearly zero energy building	PV	photovoltaic
NSTT	North–South technology transfer and cooperation	QE	quantitative easing
NUA	New Urban Agenda	R&D	research and development
NYDF	New York Declaration on Forests	RCEP	Regional Comprehensive Economic Partnership
OA	ocean alkalinity	RCM	reduced complexity model
OAC	ocean albedo change	RCP	Representative Concentration Pathway
OAE	ocean alkalinity enhancement	RD&D	research, development and demonstration
ODA	overseas development assistance	RDI	Research, Development and Innovation
ODS	ozone-depleting substance	RECC	Resource Efficiency and Climate Change
OECD	Organisation for Economic Co-operation and Development	RECC-LED	Resource Efficiency and Climate Change-Low Energy Demand (IEA scenario)
OF	ocean fertilisation	REDD+	reducing emissions from deforestation and forest degradation and the role of conservation, sustainable management of forests and enhancement of forest carbon stocks
OPEC	Organization of the Petroleum Exporting Countries	REEs	rare earth elements
OPEX	operating and maintenance expenditures	ReSOLVE	Regenerate, Share, Optimise, Loop, Virtualise, Exchange framework
OS	overshoot	RGGI	Regional Greenhouse Gas Initiative
OSS	one-stop shop	RIMAP	Real-time Integrated Model for probabilistic Assessment of emissions Paths
P2P	peer-to-peer	RIS	regional innovation systems
PA	The Paris Agreement	RKR	Representative Key Risks
PACE	Property Assessed Clean Energy		
PBEs	production-based emissions		
PCCB	Paris Committee on Capacity-building		
PCF	personal carbon footprint		

RPK	revenue passenger-kilometres	SLoCaT	Sustainable Low Carbon Transport Partnership
RSD	relative standard deviation	SLM	sustainable land management
RSPO	Roundtable on Sustainable Palm Oil	SLR	sea level rise
RTS	Reference Technology Scenario	SM	smart manufacturing
S&L	standards and labelling	SMEs	small and medium-sized enterprises
SAF	sustainable aviation fuel	SNA	System of National Accounts
SAI	stratospheric aerosol interventions	SNTT	South–North technology transfer and cooperation
SAM	Social Accounting Matrix	SO₂	sulphur dioxide
SAR	Second Assessment Report	SOE	state-owned enterprise
SARPs	Standards and Recommended Practices	SOFC	solid oxide fuel cell
SASB	Sustainability Accounting Standards Board	SPM	Summary for Policymakers
SBSTA	Subsidiary Body for Scientific and Technological Advice	SPV	special purpose vehicle
SBT	science-based target	SR1.5	IPCC Special Report on Global Warming of 1.5°C
SCC	social cost of carbon	SRCCCL	IPCC Special Report on Climate Change and Land
SCCF	Special Climate Change Fund	SRI	Sustainable and Responsible Investment
SCS	soil carbon sequestration	SRM	solar radiation modification
SDG	Sustainable Development Goal	SROCC	IPCC Special Report on the Ocean and Cryosphere in a Changing Climate
SDPS	shifting development pathways to increased sustainability	SSC	South-South cooperation
SDR	Special Drawing Rights	SSP	Shared Socio-economic Pathway
SDS	Sustainable Development Scenario (IEA scenario)	SSTT	South–South technology transfer and cooperation
SDSN	Sustainable Development Solutions Network	STEM	science, technology, engineering and mathematics
SE	sustainable entrepreneur	STEPS	Stated Policies Scenario
SEA	strategic environmental assessment	SUV	sport utility vehicle
SEADRIF	South East Asian Disaster Risk Insurance Facility	TA	territorial accounting
SEC	specific energy consumption	TABS	thermally activated building systems
SECA	sulphur emission control area	TBT Agreement	WTO Agreement on Technical Barriers to Trade
SEEMP	Ship Energy Efficiency Management Plan	TCBA	technology-adjusted consumption-based emission accounting
SEM	structural equations modelling	TCFD	Task Force on Climate-related Financial Disclosures
SER	Sufficiency, Efficiency, Renewal	TCRE	transient climate response to cumulative emissions of carbon dioxide
SETAC	Society of Environmental Toxicology and Chemistry (UNEP-SETAC)	TDR	travel demand reduction
SF₆	sulphur hexafluoride	TEEB	The Economics of Ecosystems and Biodiversity
SI	sustainable intensification	TEC	Technology Executive Committee
SIDS	Small Island Developing States	TES	Transforming Energy Scenario
SIS	sectoral innovation system		
SLCF	short-lived climate forcer		
SLCP	short-lived climate pollutant		

Acronyms

TIS	technological innovation system	VNR	Voluntary National Review
TFC	total final energy consumption	WBCSD	World Business Council on Sustainable Development
TGC	tradeable green certificate	WEFN	water-energy-food nexus
tkm	tonne-kilometre	WEO	World Energy Outlook
TNA	technology needs assessment	WFP	World Food Programme
TOD	transit-oriented development	WG	Working Group
TPES	total primary energy supply	WHO	World Health Organization
TRA	technology readiness assessment	WHP	waste heat to power
TrC	triangular cooperation	WMO	World Meteorological Organisation
TGCs	Tradable Green Certificates	WRAP	Waste and Resources Action Programme
TRIPS Agreement	Trade-Related Aspects of Intellectual Property Rights Agreement	WSUD	Water Sensitive Urban Design
TRL	technology readiness level	WTO	World Trade Organization
TW	terawatt	WTP	willingness to pay
UF	utility factor	ZEV	zero emission vehicle
UHI	urban heat island		
UKCCC	United Kingdom Climate Change Committee		
ULCS	ultra-low carbon steel		
UNCCD	United Nations Convention to Combat Desertification		
UNCRD	United Nations Centre for Regional Development		
UNDP	United Nations Development Programme		
UNEP	United Nations Environment Programme		
UNFCCC	United Nations Framework Convention on Climate Change		
UNOSSC	United Nations Office for South-South Cooperation		
USD	US dollar		
US DOE	United States Department of Energy		
US EPA	United States Environmental Protection Agency		
UV	ultraviolet		
V1G	controlled charging (of an electric vehicle)		
V2G	vehicle-to-grid		
VC	venture capital		
VCS	Verified Carbon Standard of the Verra programme		
vkm	vehicle-kilometre		
VKT	vehicle kilometres travelled		
VLR	Voluntary Local Review		
VMT	vehicle miles travelled		

