

ANNEX |

Acronyms, Abbreviations and Chemical Symbols

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1P	proven reserves	ARGeo	African Rift Geothermal Energy Development Facility
2P	proved plus probable reserves	ARI	acute respiratory infections
3P	proved plus probable plus possible reserves	ARMZ	Atomredmetzoloto JSC (Russia)
ABC	atmospheric brown cloud	ASHRAE	American Society of Heating, Refrigeration and Air Conditioning Engineers
ABNT	Associação Brasileira de Normas Técnicas (Brazilian National Standards Organization)	ASME	American Society of Mechanical Engineers
ABS	advanced biomass stoves	ASN	Nuclear Safety Authority (France)
AC	alternating current	ASP	average selling price
ACCESS	Australian Community Climate and Earth-System Simulator	ASPIRE	Asia and Pacific Initiative to Reduce Emissions
ACEEE	American Council for an Energy-Efficient Economy	ASU	acid separation unit
ACP	African, Caribbean, and Pacific states	ATR	autothermal reformer/reforming
ADB	Asian Development Bank	AVR	Arbeitsgemeinschaft Versuchsreaktor (a prototype pebble bed reactor in West Germany)
AEFP	America's Energy Future Panel	BAPS	(IEA) Beyond Alternative Policy Scenario
AER	all electric range	BAT	best available technology
AEU	annual energy use	BAU	business-as-usual
AfDB	African Development Bank	BC	black carbon
AFR	Sub-Saharan Africa region	BCIRA	British Cast Iron Research Association
AGC-21	Advanced Gas Conversion for the 21st Century	BCL	brown coal liquefaction
AGECC	United Nations Secretary-General's Advisory Group on Energy and Climate Change	BDCPM	brushless direct-current permanent magnet motors
AGR	advanced gas reactor	BEDP	Bagasse Energy Development Programme (Mauritius)
AGU	Arabian Gulf University (Bahrain)	BEE	Bureau of Energy Efficiency (India)
AIA	American Institute of Architects	BEFS	Bioenergy and Food Security
AIRE	Atlantic Interoperability Initiative to Reduce Emissions	BEOP	breakeven oil price
Al₂O₃	alumina	BEV	battery-powered electric vehicle
ALRI	acute lower respiratory infection	BGR	Bundesanstalt für Geowissenschaften und Rohstoffe (Federal Institute for Geosciences and Natural Resources – Germany)
AME	Africaine de Maintenance et d'Équipement (solar water heating equipment and maintenance company based in Dakar)	BIGCC	biomass integrated gasification combined cycle
AMI	advanced metering infrastructure	BII	biomass input index
AMM	automatic meter management	BioCCS	bioenergy carbon capture and storage
AMR	automated meter reading	BiPV	building-integrated photovoltaic
ANL	Argonne National Laboratory (United States)	BMTC	Bangalore Metropolitan Transport Corporation
ANME	National Agency for Energy Management (Tunisia)	BOS	balance-of-systems
ANSI	American National Standards Institute	BP	British Petroleum
AOT40	accumulated O ₃ exposure over a threshold of 40 parts per billion	BPL	below-the-poverty line
API	American Petroleum Institute	BRIC	Brazil, Russia, India, and China
APINA	Air Pollution Information Network for Africa	BRICS	Brazil, Russia, India, China, and South Africa
APS	(IEA World Energy Outlook) Alternative Policy Scenario	BRIMCS	Brazil, Russia, India, Mexico, China, and South Africa
AQG	air quality guidelines	BRT	bus(-based) rapid transit (system)
AREED	African Rural Energy Enterprise Development	BTG	biomass to gasoline via methanol intermediate
		BTG-RC-CCS	BTG plant with recycle synthesis design and CO ₂ capture and storage

BTG-RC-V	BTG plant with recycle synthesis design and CO ₂ venting	CBTL2-OT-CCS	CBTL1 plant with OT synthesis design and with CO ₂ capture and storage
BTL	Biomass-to-Liquids, where liquids refers to Fischer-Tropsch fuels	CBTL-OT-CCS	CBTL plant with once-through synthesis design and with CO ₂ capture and storage
BTL-RC-CCS	BTL plant with recycle synthesis design and CO ₂ capture and storage	CBTL-OT-V	CBTL plant with once-through synthesis design and with CO ₂ venting
BTL-RC-V	BTL plant with recycle synthesis design and CO ₂ venting	CBTL-RC-CCS	CBTL plant with RC synthesis design and with CO ₂ capture and storage
BUENAS	Bottom-up Energy Analysis System	CBWP	community-based woodfuel
BWR	boiling water reactor	CC	chilled ceiling
C	carbon	CCGT	combined cycle gas turbine
C₂F₆	Hexafluoroethane – CFC-116	CCLP	Chevron coal liquefaction
CAEP	Committee on Aviation Environmental Protection	CCP	CO ₂ capture project
CAES	compressed-air energy system	CCS	carbon (dioxide) capture and storage
CAFE	corporate average fuel economy	CDM	clean development mechanism
CAGR	compound annual growth rate	CEMAC	Communauté Economique et Monétaire de l’Afrique Centrale (Economic and Monetary Community of Central Africa)
CANDU	Canada Deuterium Uranium reactor	CEA	European Committee for Standardization
CAP	climate-active pollutant	CEBIO	Centre Brasileiro de Referência em Biomass (Brazilian Reference Center on Biomass)
CARNFCHT	Committee on Assessment of Resource Needs for Fuel Cell and Hydrogen Technologies (United States)	CENELEC	The European Committee for Electrotechnical Standardization
CARTA	Consortium for Advanced Research Training in Africa	CEPCI	Chemical Engineering Plant Cost Index
CASBEE	Comprehensive Assessment System for Built Environment Efficiency	CER	certified emissions reduction (in the CDM)
CBIGCC-CCS	coal/biomass integrated gasification combined cycle with CO ₂ capture and storage	CERBIO	Centro Brasileiro de Referência em Biocombustíveis (Brazilian Reference Center on Biofuels)
CBIGCC-V	coal/biomass integrated gasification combined cycle with CO ₂ venting	CERM	coordinated emergency response mechanism
CBM	coal-bed methane	CERN	European Organization for Nuclear Research
CBTG	coal + biomass to gasoline	CERTS	Consortium for Electricity Reliability Solutions
CBTG1	coal + biomass to gasoline, with reduced biomass/coal input ratio (relative to CBTG)	CF	capacity factor
CBTG1-PB-CCS	CBTG1 plant with partial bypass of syngas and with CO ₂ capture and storage	CF₄	Tetrafluoromethane – CFC-14
CBTG-PB-CCS	CBTG plant with partial bypass of syngas and with CO ₂ capture and storage	CFB	circulating fluidized bed
CBTG-RC-CCS	CBTG plant with recycle synthesis design and with CO ₂ capture and storage	CFC	Chlorofluorocarbon
CBTL	coal + biomass to liquids, where liquids refers to Fischer-Tropsch fuels	CFC-14	Tetrafluoromethane – CF ₄
CBTL1	coal + biomass to FTL, with reduced biomass/coal input ratio (relative to CBTL)	CFC-116	Hexafluoroethylene – C ₂ F ₆
CBTL1-OTA-CCS	CBTL1 plant with OT synthesis design and with aggressive CO ₂ capture and storage	CFL	compact fluorescent lamps/light bulbs
CBTL1-OT-CCS	CBTL1 plant with OT synthesis design and with CO ₂ capture and storage	CGNPC	China Guangdong Nuclear Power Holding Company
CBTL2	coal + biomass to FTL, with reduced biomass/coal input ratio (relative to CBTL1)	(CH₂)₄(COOH)₂	adipic acid
CBTL2-OTA-CCS	CBTL plant with OT synthesis design and with aggressive CO ₂ capture and storage	CH₃OH	methanol
		CH₄	methane
		CHP	combined heat and power
		CIGCC	coal integrated gasification combined cycle
		CIGCC-CCS	coal integrated gasification combined cycle with CO ₂ capture and storage
		CIGCC-V	coal integrated gasification combined cycle with CO ₂ venting
		CIGI	Centre for International Governance Innovation
		CLE	current and planned legislation

CLEEN	Consortium for Continuous Low Energy, Emissions, and Noise (United States)	CTL-RC-V	CTL plant with RC synthesis island design and with CO ₂ venting
ClO₂	Chlorine dioxide	CTSL	catalytic two-stage liquefaction
CMH	ceramic and metal halide	DAC	Development Assistance Committee (OECD)
CNG	compressed natural gas	DAE	Department of Atomic Energy (India)
CNNC	China National Nuclear Corporation	DALY	disability-adjusted life year
CO	carbon monoxide	DBC	divided blast cupola
CO₂	carbon dioxide	DC	direct current
CO₂-eq	carbon dioxide equivalent	DCAP	downstream plus upstream CO ₂ capture
CO₂CRC	Cooperative Research Centre for Greenhouse Gas Technologies	DCAP-1	downstream plus upstream CO ₂ capture (with reference to DME production from coal)
CODP	crude oil derived products	DCAP-2	more aggressive downstream plus upstream CO ₂ capture (with DME production from coal)
COGEN	cogeneration	DCAP-3	most aggressive downstream plus upstream CO ₂ capture (with DME production from coal)
Combi-Plant	Combined Power Plant (for renewable energy)	DCC	development cost charge
COP	coefficient of performance	DCV	demand-controlled ventilation
COPD	chronic obstructive pulmonary disease	DECC	Department of Energy and Climate Change (United Kingdom)
COPD	crude oil products displaced	DER	distributed energy resources
COS	carbonyl sulfide	DFID	Department for International Development (United Kingdom)
CPA	Centrally Planned Asia and China region	DG	distributed generation
CPRs	common pool resources	DLR	Deutsches Zentrum für Luft- und Raumfahrt (German Aerospace Center)
CPWD	Central Public Works Department (India)	DME	Department of Minerals and Energy
CRA	Comparative Risk Assessment	DME	dimethyl ether
CREED	China Rural Energy Enterprise Development	DNI	direct normal irradiation
CSE	coast of saved energy	DOAS	dedicated outdoor air supply
CSF	consol synthetic fuel	DRI	direct reduced iron
CSI	Cement Sustainability Initiative	DSM	demand-side management
CSIR	Council for Scientific and Industrial Research (South Africa)	DV	displacement ventilation
CSLF	Carbon Sequestration Leadership Forum	E & P	exploration and production
CSM	Centre de Stockage de la Manche (a radioactive waste depository in France)	EAF	electric arc furnace
CSP	concentrating/ed solar power	EBRD	European Bank for Reconstruction and Development
CSS	cyclic steam stimulation	EC	European Commission
CTF	Clean Technology Fund	ECBI	European Capacity Building Initiative
CTG	coal-to-gasoline via methanol intermediate	ECBM	enhanced coal bed methane
CTG-PB-CCS	coal-to-gasoline with partial bypass of syngas past methanol synthesis and with CO ₂ capture and storage	ECOWAS	Economic Community of West African States
CTG-PB-V	coal-to-gasoline with partial bypass of syngas past methanol synthesis and with CO ₂ venting	ÉDF	Électricité de France
CTG-RC-CCS	coal-to-gasoline plant with recycle design for methanol synthesis and with CO ₂ capture and storage	EDGAR	Emissions Database for Global Atmospheric Research
CTL	coal-to-liquids, where liquids refers to Fischer-Tropsch fuels	EDI	Energy Development Index
CTL-OT-CCS	CTL plant with OT synthesis island design and with CO ₂ capture and storage	EEA	European Environment Agency
CTL-OT-V	CTL plant with OT synthesis island design and with CO ₂ venting	EEB	energy efficiency in buildings
CTL-RC-CCS	CTL plant with OT synthesis island design and with CO ₂ capture and storage	EEDSM	Energy Efficiency and Demand-Side Management
		EES	electric energy storage
		EESL	Energy Efficiency Services Limited
		EEU	Central and Eastern Europe region
		EGS	enhanced geothermal systems
		EI	energy intensity

EIB	European Investment Bank	FSR	fast-spectrum reactor
EIFS	External Insulation and Finishing System	FSU	Former Soviet Union region
EITI	Extractive Industries Transparency Initiative	F-T	Fischer-Tropsch
EMBRAPA	Empresa Brasileira de Pesquisa Agropecuária	FTL	Fischer-Tropsch Liquids
EMF	Energy Modeling Forum	G20	Group of Twenty (international group of finance ministers and central bank governors from 20 major economies)
ENDA-TM	Environment and Development Action in the Third World (Senegal)	G7	Group of Seven (international finance group consisting of the finance ministers from seven industrialized nations)
EOR	enhanced oil recovery	G8	Group of Eight (forum for the governments of eight of the world's largest economies)
EPA	Environment Protection Agency	GAEZ	Global Agro-Ecological Zoning
EPBD	Energy Performance of Buildings Directive (European Union)	GAINS	Greenhouse Gas and Air Pollution Interactions and Synergies
EPC	energy performance contracting	GBTL	natural gas + biomass-to-liquids, where liquids refers to Fischer-Tropsch fuels
EPFL	École Polytechnique Fédérale de Lausanne (Swiss Federal Institute of Technology in Lausanne)	GBTL-OT-CCS	GBTL plant with once-through synthesis design and with CO ₂ capture and storage
EPI	Energy Performance Indicator	GBTL-OT-V	GBTL plant with once-through synthesis design and with CO ₂ venting
EPR	European Pressurized Reactor	GCC	Gulf Cooperation Council
EPRI	Electric Power Research Institute	GCCSI	Global Carbon Capture and Storage Institute
ESAP	Energy Sector Assistance Programme	GCV	gross calorific value
ESCO	energy service company	GDF	Gaz de France
ESDP	Energy Service Delivery Project	GDP	Gross Domestic Product
ESP	electrostatic precipitator	GEA	Global Energy Assessment
ESPRIT	European Strategic Programme for Research and Development on Information Technologies	GECF	Gas Exporting Countries Forum
ETC	Enrichment Technology Company	GEE	global exposure equivalent
ETI	energy technology innovation	GEF	Global Environment Facility
ETIS	Energy Technology Innovation System	genset	engine-generator
EtOH	ethanol	GEO	Global Environment Outlook
ETS	emission trading scheme	GFAAF	Global Framework for Aviation Alternative Fuels
EU	European Union	GHG	greenhouse gas
EUR	estimated ultimate recoverable oil	GHGI	greenhouse gas emission index
EURODIF	European Gaseous Diffusion Uranium Enrichment Consortium	GIS	geographic information system
EV	electric vehicle	GLASOD	Global Assessment of Human-induced Soil Degradation
EWEA	European Wind Energy Association	GM	General Motors
EWG	Energy Watch Group	GMT	global mean surface temperature
EWM	excess winter mortality	GNEP	Global Nuclear Energy Partnership
FAO	Food and Agriculture Organization (of the United Nations)	GNESD	Global Network on Energy for Sustainable Development
FBE	Free Basic Electricity (South Africa)	GPT	general purpose technologies
FC	fuel cell	GPU	ground power unit
FCC	fluid catalytic cracker	GRP	gross regional product
FCV	fuel cell vehicles	GTAP	Global Trade Analysis Project
FDI	foreign direct investment	GTI	Gas Technology Institute
FE	fuel efficiency	gTKP	Global Transport Knowledge Partnership
FEED	Front End Engineering Design	GTL	(natural) gas-to-liquids, where liquids refers to Fischer-Tropsch fuels
FERC	Federal Energy Regulatory Commission	GWEC	Global Wind Energy Council
FGD	flue gas desulphurization		
FIREX	fast ignition experiment (Japan)		
FIT	feed-in tariffs		
FLE	frozen legislation		
FQD	Fuel Quality Directive		

GWP	global warming potential	IDP	integrated design process
H	atomic hydrogen	IDRC	International Development Research Centre (Canada)
H₂	molecular hydrogen	IEA	International Energy Agency
H₂O	water	IEA-OES-IA	IEA Ocean Energy Systems Implementing Agreement
H₂S	hydrogen sulfide	IEA-PVPS	International Energy Agency-Photovoltaic Power Systems Programme
ha	hectare	IEEE	Institute of Electrical and Electronics Engineers
HCFC	hydrochlorofluorocarbons (hydrogenated fluorocarbons)	IEF	International Energy Forum
HCO₃⁻	bicarbonate ion	IEP	International Energy Program
HDD	heating degree day	IFA	International Fertilizer Industry Association
HDI	Human Development Index	IFES	Integrated food energy systems
HDR	Human Development Report (UNDP)	IFPRI	International Food Policy Research Institute
HEU	highly (energy) enriched uranium (containing 20% or more 235U)	IGCC	integrated (coal) gasification combined cycle
HEV	hybrid electric vehicle	IHD	ischemic heart disease
HFC	hydrogen fuel cell	IIASA	International Institute for Applied Systems Analysis
HFC-134a	CH ₂ FCF ₃	IIDP	Institute for Infectious Diseases of Poverty (Ghana)
HFCV	hydrogen fuel cell vehicles	IIE	Instituto de Investigaciones Eléctricas (Electric Research Institute – Mexico)
HFO	heavy fuel oil	IISD	International Institute for Sustainable Development
HG	mercury	ILO	International Labour Organization
hh	household	ILUC	indirect land-use charge
HHSFU	household solid fuel use	IMAGE	Integrated Model to Assess the Global Environment
HHV	higher heating value	IMO	International Maritime Organization
HIR	halogen infrared-reflecting	IMP	Instituto Mexicano del Petróleo (Mexican Institute of Petroleum)
HIV/AIDS	Human Immunodeficiency Virus /Acquired Immune Deficiency Syndrome	INMM	Institute for Nuclear Materials Management
HLW	high-level waste	INPO	Institute of Nuclear Power Operations (United States)
HNO₃	nitric acid	INPRO	International Project on Innovative Nuclear Reactors and Fuel Cycles (IAEA)
HRJ	hydro-treated renewable jet	INSAG	International Nuclear Safety Advisory Group (IAEA)
HRSR	heat recovery steam generator	I-O	input-output
HV	hybrid vehicles	IOC	international oil company
HVAC	heating, ventilation, and air conditioning	IOI	Initiative for Open Innovation
HVDC	high voltage direct current	IP	intellectual property
HWR	heavy-water reactor	IPAM	Instituto de Pesquisa Ambiental da Amazônia (Amazon Environmental Research Institute)
HyRaMP	European Regions and Municipalities Partnership for Hydrogen and Fuel Cells	IPCC	Intergovernmental Panel on Climate Change
IAASTD	International Assessment of Agricultural Knowledge, Science and Technology for Development	IPE	Interdepartmental Project directorate Energy transition
IAEA	International Atomic Energy Agency	IPFM	International Panel on Fissile Materials
IAI	International Aluminium Institute	IPR	intellectual property right
IARC	International Agency for Research on Cancer	IRENA	International Renewable Energy Agency
IC	internal combustion	IRRE	internal rate of return on equity
ICAO	International Civil Aviation Organization		
ICE	internal combustion engine		
ICEF	India-Canada Environment Facility		
ICRISAT	International Crop Research Institute for the Semi-Arid Tropics		
ICS	improved cook stove		
ICT	information and communication technology		
IDCOL	Infrastructure Development Company Limited		

IRSN	Institut de Radioprotection et de Sûreté Nucléaire (Institute of Radioprotection and Nuclear Safety – France)	MALT	mise à la terre
ISEW	Index of Sustainable Economic Welfare	MDC	minimum dispatch cost
ISG	integrated starter/generator	MDG	Millennium Development Goal
ISL	in situ leaching	MDO	marine diesel oil
ISO	Independent System Operators	MEA	Middle East and North Africa region
ISO	International Organization for Standardization	MEA	Millennium Ecosystem Assessment
ISP	Integrated service provider	MEA	monoethanolamine
ITER	international thermonuclear experimental reactor	MEE	Middle East
IUEC	International Uranium Enrichment Center	MEM	Microgrid energy management
IWMI	International Water Management Institute	MEPS	minimum efficiency performance standards
JI	Joint Implementation	MEPS	minimal energy performance standards
JNFL	Japan Nuclear Fuel Limited	MER	market exchange rates
JODI	Joined Oil Data Initiative	MESSAGE	Model for Energy Supply Strategy Alternatives and their General Environmental Impact
KAERI	Korea Atomic Energy Research Institute	MeOH	methanol
KBS	Kenya Bureau of Standards	MFP	multifunctional energy platform
KCJ	Kenya Ceramic Jiko	MFR	maximum feasible reduction
KiKK	Kinderkrebs in der Umgebung von Kernkraftwerken (Childhood Cancer in the Vicinity of Nuclear Power Plants – Germany)	MH	microhydropower
LAC	Latin America and the Caribbean region	MHD	magnetohydrodynamics
LbD	learning by doing	MHP	micro-hydro plants
LBL	Lawrence Berkeley National Laboratory	MIC	middle-income country
LbU	learning by using	MNRE	Ministry of New and Renewable Energy
LCA	life cycle assessment	MOE	Ministry of the Environment
LCIA	life-cycle impact assessment	MOX	mixed oxide
LCFS	low-carbon fuel standard	MPI	multidimensional poverty index
LCOE	levelized cost of electricity/energy	MS	modal shift
LCOF	levelized cost of fuel	MSA	methane sulfonic acid
LCOH	levelized cost of heat	MSW	municipal solid waste
LDC	least-developed country	MTBE	methyl tert-butyl ether
LDCF	Least Developed Country Fund (UNFCCC/GEF)	MTG	methanol to gasoline
LDV	light-duty vehicle	MURE	Mesures d'Utilisation Rationnelle de l'Énergie (Rational Use of Energy Measures)
LED	light-emitting diode	MVA	manufacturing value added
LEED	Leadership in Energy and Environmental Design	MVA	monitoring, verification, and accounting
LEU	low-enriched uranium (containing less than 20% 235U)	MVR	mechanical vapor recompression
LHV	lower heating value	N	atomic nitrogen
LIC	low-income country	N₂	molecular nitrogen
LNG	liquefied natural gas	N₂O	nitrous oxide
LPG	liquefied petroleum gas (propane/butane mixture)	NAAQOs	National Ambient Air Quality Objectives
LRT	light rapid transit	NAAQS	National Ambient Air Quality Standards
LRTAP	long range transboundary air pollution	NAM	North America region
LSE	liquid solvent extraction	NATCARB	National Carbon Explorer
LUI	land-use intensity	NDRC	National Development and Reform Commission
LVPC	Latrobe Valley Post Combustion Capture Project	NEA	Nuclear Energy Agency (OECD)
LWR	light-water reactor	NEDO	New Energy and Industrial Technology Development Organization
LZC	low- and zero-carbon technologies	NEF	new energy finance
MAGICC	Model for the Assessment of Greenhouse-gas Induced Climate Change	NELFA	Natural Energy Laboratory of Hawaii Authority
		NEPAD	New Partnership for Africa's Development
		NER	net energy ratio
		NES	National Electrification Scheme

NESRP	Northern Electrification and System Reinforcement Project	-OT-	once-through (referring to design of synthesis island)
NETL	National Energy Technology Laboratory (United States)	-OTA-	once-through (referring to design of synthesis island) with aggressive CO ₂ capture design
NFCRs	naturally fractured carbonate reservoirs	OTEC	ocean thermal energy conversion
NFPA	National Fire Protection Association	PACE	property-assessed clean energy
NG	natural gas	PAF	population attributable fraction
NGCC	natural gas combined cycle	PAH	polycyclic aromatic hydrocarbon
NGCC-CCS	natural gas combined cycle with CO ₂ capture and storage	PAO	Pacific OECD region
NGCC-V	natural gas combined cycle with CO ₂ vented	PAS	Other Pacific Asia region
NGL	natural gas liquids	-PB-	partial bypass (referring to design of methanol synthesis island)
NGO	non-governmental organization	PBS	Palli Biddut Samities (rural electricity cooperatives in Bangladesh)
NH₃	ammonia	PC	personal computer
NIF	National Ignition Facility	PC	pulverized coal
NiMH	nickel-metal hydride (batteries)	PCBs	polychlorinated biphenyls
NMEE	National Mission on Enhanced Energy Efficiency	PC-CCS	pulverized coal plant with CO ₂ capture and storage
NMT	non-motorized transport/transportation	PCM	phase change material
NMV	non-motorized vehicles	PC-V	pulverized coal plant with CO ₂ venting
NMVOC	non-methane volatile organic carbon	PDF	probability density functions
NO	nitric oxide	PDVSA	Petróleos de Venezuela Sociedad Anonima (Oils of Venezuela, the Venezuelan state-owned petroleum company)
NO_x	nitrogen oxides (the sum of NO and NO ₂) atomic oxygen	PE	private equity
NOC	national oil company	PEA	Provincial Electricity Authority
NPC	National Petroleum Council	PEI	Princeton Environmental Institute
NPP	net primary production	PEM	polymer electrolyte membrane
NPP	nuclear power plant	PERMER	Proyecto de Energías Renovables en Mercados Rurales (Renewable Energy Project for the Rural Market – Argentina)
NPT	Treaty on the Non-Proliferation of Nuclear Weapons (Non-Proliferation Treaty)	Petrobras	Petroleo Brasileiro S. A. (Brazilian energy corporation)
Nr	reactive nitrogen	PFC	Perfluorocarbon
NPV	net present value	PFCHEV	plug-in fuel cell hybrid electric vehicle
NRC	National Research Council	PFM	public finance mechanism
NRES	new renewable energy sources	PHEV	plug-in hybrid electric vehicle
NS	new stock	PIC	products of incomplete combustion
NSG	Nuclear Suppliers Group	PISI	gasoline port injection spark ignition engine
O₂	molecular oxygen	PM	particulate matter
O₃	ozone	PM_{2.5}	particles with an aerodynamic diameter < 2.5 µm
O&M	operating and maintenance	PM₁₀	particles with an aerodynamic diameter < 10 µm
OC	organic carbon	PMU	phasor measurement unit
ODA	official development assistance	PNG	piped natural gas
ODS	ozone-depleting substances	POP	persistent organic pollutant
ODI	Overseas Development Institute	POX	partial oxidation reforming
OECD	Organisation for Economic Co-operation and Development	ppm	parts per million
Ofgem	Office of Gas and Electricity Markets	ppbv	parts per billion by volume
OLADE	Organizacion Latinoamericana de Energia (Latin America Energy Organization)	PPP	purchasing power parities
OLED	organic light-emitting diode	PR	performance ratio
OPEC	Organization of the Petroleum Exporting Countries		
OSA	Other South Asia region		
OSART	Operation Safety Review Team (IAEA)		

PRGF	Partial Risk Guarantee Fund	SAS	South Asia region
PROALCOOL	National Alcohol Program (Brazil's first ethanol program)	SBS	Sick Building Syndrome
PROCEL	Programa Nacional de Conservação de Energia Elétrica (National Electrical Energy Conservation Program – Brazil)	SCCF	Special Climate Change Fund
PRSP	poverty-reduction strategy papers	SCO	Shanghai Cooperation Organization
PSA	pressure swing absorption/absorbers	SCR	selective catalytic reduction
PV	photovoltaic	SD	standard deviation
PWR	pressurized (light) water reactor	SEFI	Sustainable Energy Finance Initiative
PYE	person year equivalents	SEGS	solar energy generating system
R&C	residential and commercial	SESAR	Single European Sky ATM Research
R&D	research and development	SEU	specific energy use
R/P	reserves-to-production ratio	SF₆	sulfur hexafluoride
RAR	reasonably assured resources	SFC	synthetic fuels corporation
-RC-	recycle (referring to design of synthesis island)	SGE	supercritical gas extraction
RCSP	Regional Carbon Sequestration Partnerships	SHEP	Self-Help Electrification Project
RD&D	research, development, and deployment/ demonstration	SHP	small hydropower
RDD&D	research, development, demonstration, and deployment	SHS	solar home system
REA	Rural Electrification Agency	SI	Système international d'unités (International System of Units)
REC	Rural Electrification Corporation	SloCAT	Partnership for Sustainable Low Carbon Transport
RED	Renewable Energy Directive	SLE	stringent air pollution, stringent climate, and universal energy access policies
REED	Rural Energy Enterprise Development Partnership	SME	small- and medium-sized enterprise
REEEP	Renewable Energy and Energy Efficiency Partnership	SME	small and microenterprise
REREDP	Rural Electrification and Renewable Energy Development Project (Bangladesh)	SME(S)	superconducting magnetic energy storage
RES	renewable energy sources	SMP	Sustainable Mobility Project (of the WBCSD)
RF	radiative forcing	SMR	steam methane reforming
RF	recoverable fraction	SNBI	Sustainable Net Benefit Index
RFS	renewable fuel standard	SNG	synthetic natural gas
RGGVY	Rajiv Gandhi Grameen Vidhyutikaran Yojana (program for rural electricity infrastructure and household electrification in India)	SO₂	sulfur dioxide
RISI	Resource Information Systems Incorporated	SO_x	sulfur oxides
ROK	Republic of Korea	SOC	soil-organic carbon
RPR	residue to product ratio	SODIS	solar water disinfection
RPS	Renewable Portfolio Standards	SOE	state-owned enterprises
RR	risk rate	SOFC	solid oxide fuel cell
RTE	repowering through experiment	Sofidif	Société franco-iranienne pour l'enrichissement de l'uranium par diffusion gazeuse (French-Iranian Society for the Enrichment of Uranium by Gas Diffusion)
RTO	Regional Transmission Organizations	SRES	Special Report on Emissions Scenarios (IPCC)
RVE	remote village electrification	SRMC	short run marginal cost of electricity
S	atomic sulfur	SSAC	state system accounting and control
S&L	standard and labeling	SSTR	Steady State Tokamak Reactor
SADC	Southern African Development Community	STE	solar thermal electricity
SAGD	steam-assisted gravity drainage	STEG	Tunisian Electricity and Gas Company
SAGSI	Standing Advisory Group on Safeguards Implementation (IAEA)	sub PC	subcritical pulverized coal
SAPIERR	Support Action Pilot Initiative for European Regional Repositories (European Union)	sup PC	supercritical pulverized coal
		sup PC-V	supercritical coal power plant that vents CO ₂
		SUTP	Sustainable Urban Transport Project
		SUV	sports utility vehicles
		SWDI	Shannon-Wiener Diversity Index
		SWH	solar water heaters/heating
		SWU	separative work unit

T&D	transport and distribution	US	United States
tce	tonne of coal equivalent	USGBC	United States Green Building Council
TDM	transportation demand management	USGS	United States Geological Survey
TECPAR	Paraná Technology Institute	UV	Ultraviolet
TEGs	thermal-electric generators	UV-B	ultraviolet-B radiation
TEPCO	Tokyo Electric Power Company	V2G	vehicle-to-grid
TERI	The Energy Research Institute	VAT	value added tax
TEU	twenty-foot equivalent units	VAV	variable air volume
TIA	Technology Innovation Agency	VC	venture capital
TM5	Global Chemistry-Transport Index	VCFEE	Venture Capital Fund for Energy Efficiency
TPC	total plant cost	VESP	Village Energy Security Programme
TPES	total primary energy supply	VMT	vehicle-miles traveled
TRC	Total Recordable Case Rate	VOC	volatile organic compound
TSP	total suspended particle/particulate matter	VPSA	vacuum pressure swing absorbers
TTO	technology transfer office	VVER	Vodo-Vodyanoi Energeticheskoy Reactor (Russian pressurized water reactor)
TTW	tank-to-wheel	WANO	World Association of Nuclear Operators
U	uranium metal	WBCSD	World Business Council for Sustainable Development
U₃O₈	uranium oxide	WBGU	Wissenschaftlicher Beirat der Bundesregierung Globale Umweltveränderungen (German Advisory Council for Global Environmental Change)
UAE	United Arab Emirates	WCD	World Commission on Dams
UCAP	upstream CO ₂ capture (with reference to plant designs for DME production from coal)	WEA	World Energy Assessment
UCG	underground coal gasification	WEC	World Energy Council
UF₆	uranium hexafluoride	WENRA	Western European Nuclear Regulators
UGS	underground (gas) storage	WEO	World Energy Outlook
UIC	underground injection control	WEU	Western Europe region
UITP	International Association of Public Transport	WGS	water gas shift
UK	United Kingdom	WHO	World Health Organization
UN	United Nations	WINS	World Institute of Nuclear Security
UNCTAD	United Nations Conference on Trade and Development	WISE	World Information Service on Nuclear Energy
UNDESA	United Nations Department of Economic and Social Affairs	WMD	weapon of mass destruction
UNDP	United Nations Development Programme	WNA	World Nuclear Association
UNECE	United Nations Economic Commission for Europe	WO PC-V	written-off pulverized coal plants and CO ₂ venting
UNEP	United Nations Environment Programme	WRI	World Resources Institute
UNESCO	United Nations Educational, Scientific and Cultural Organization	WSSD	World Summit on Sustainable Development
UNFCCC	United Framework Convention on Climate Change	WTA	willingness to accept
UNIDO	United Nations Industrial Development Organization	WTO	World Trade Organization
UNU-GTP	United Nations University Geothermal Training Programme	WTP	willingness to pay
UNU-MERIT	United Nations University – Maastricht Economic Research Institute on Innovation and Technology	WTT	well-to-tank
URENCO	Uranium Enrichment Consortium	WTW	well-to-wheel
US DOE	United States Department of Energy	WUP	World Urbanization Prospects
US EIA	United States Energy Information Administration	XTL-CCS	plants that co-produce electricity and Fischer-Tropsch liquids transportation fuels from X, where X is coal, biomass, or coal+biomass
US EPA	United States Environmental Protection Agency	YOLL	years of life lost
US NAS	United States National Academy of Sciences	ZEFI	zero-emission fuels index
US NRC	United States Nuclear Regulatory Commission		