

Acronyms

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A

A2LA	American Association for Laboratory Accreditation
A	ampere
AACG	American Association for Crystal Growth
AAAL	American Association for Laboratory Accreditation
ABA	American Bioenergy Association
ABB	Asia Brown Boveri
ABE ferm	acetone-butanol-ethanol fermentation
ABEC	Associated Bioengineers and Consultants
ABO	Air Base Operability
ABR	anaerobic baffled reactor
AC	air conditioning alternating current
ACC	acetyl-CoA carboxylase
ACCA	Air Conditioning Contractors of America
ACCase	acetyl-CoA carboxylase
ACCG	American Conference on Crystal Growth
ACE	acetyl cellulose esterase American Coalition for Ethanol
ACEC	American Consulting Engineers Council
ACEEE	American Council for an Energy Efficient Economy
acfm	actual cubic feet per minute
ach	air changes per hour
ACI	asset condition index
ACRES	Advanced Component Research Facility
ACS	American Chemical Society
ACTF	Advanced Component Test Facility (Georgia Institute of Technology)
ACWA	American Clean Water Association
AD	anaerobic digestion
ADAM	ADvanced Automotive Manikin
ADAMS	Automated Dynamic Analysis of Mechanical Systems (computer code)
ADAS	Advanced Data Acquisition System
ADCC	advanced direct-contact condenser
ADEPT	Assisting the Deployment of Energy Practices and Technologies
ADH	alcohol dehydrogenate
ADL	A. D. Little Co.
ADM	Archer Daniels Midland (a company)
AD-MSS	anaerobically digested municipal sewage solids
ADPI	Air Diffusion Performance Index
ADVISOR	Advanced Vehicle Simulator
ADVS	analog design verification system

AE	acoustic emissions
A/E	architectural/engineering
AEA	Alaska Energy Authority
AEC	Army Environmental Center
AEDOT	Advanced Energy Design and Operations Technology
AEE	Association of Energy Engineers
AEI	Alternative Energy Institute
	Advanced Energy Initiative
AES	Atmospheric Environment Service
	auger electron spectroscopy
AESP	Association of Energy Service Professionals
A-factor	diode factor
AF	alternative feedstocks
AFCESA	Air Force Civil Engineering Support Agency
AFDC	Alternative Fuels Data Center
AFDW	ash-free dry weight
AFEX	ammonia freeze explosion
AFM	atomic force microscopy
AFP	Alternative Feedstocks Program
AFPA	American Forest and Paper Association
AFRD	Alternative Fuels Research and Development (Program)
AFUE	annual fuel utilization efficiency
AFUF	Alternative Fuels User Facility
AFUP	Alternative Fuels Utilization Program
AFV	alternative fuel vehicle
AGA	American Gas Association
AGMA	American Gear Manufacturers Association
AGREA	Analysis Group for Regional Electricity Alternatives
AGT	Advanced Garrett Turbine
AHAC	active heating and cooling
AHS	ammonia hydrogen sulfate
AIA	American Institute of Architects
AIAA	American Institute of Aeronautics and Astronautics
AIA/F	American Institute of Architects Foundation
AIA/RF	American Institute of Architects Research Foundation
AIC	Advanced Industrial Concepts
	aluminum-induced crystallization
AIChE	American Institute of Chemical Engineers
AID	Agency for International Development
AIP	American Institute of Physics
AIRR	Adjusted Internal Rate of Return
AIVC	Air Infiltration and Ventilation Centre
ALARA	as low as reasonably achievable (the translation is never used)
ALP	anemometer loan program
ALS	acetolactate synthase
AM	air mass

AMFA	Alternative Motor Fuels Act (of 1988)
AMP	adenosine monophosphate or adenylic acid
AMPP	Advanced Materials Processing Program
AMPSA	2-acrylamido-2-methyl-1-propane sulfonic acid
AMS	American Meteorological Society
AMTEXJ	American Textile Partnership
amu	atomic mass units
ANL	Argonne National Laboratory
ANOVA	analysis of variance
ANSI	American National Standards Institute
AOC	Atlantic Orient Corp.
AOCS	Atmospheric Optical Calibration System
AOSS	Automated Office Support System
AOP	annual operating plan
APD	antiphase domain
APEC	Asian Pacific Economic Cooperation
API	American Petroleum Institute
APP	alternative power producer
APPA	American Public Power Association
APL	Applied Physics Laboratory
APR	advanced pyrolysis reactor
APRAC	Air Pollution Research Advisory Committee
APRR	active program research requirement
APS	Advanced Photovoltaic Systems American Physical Society Arizona Public Service Co.
APTA	American Public Transportation Association
APU	auxiliary power units
APUP	Alliance Partner University Program
AQ	anthraquinone
AQIRP	Air Quality Improvement Research Program
AR	antireflective
AR&D	advanced research and development
ARB	Air Quality Review Board Architectural Review Board
ARC	advanced rotary compressor accelerating rate calorimeter
ARCS	Atmospheric Radiation and Clouds Station
ARE	active reactive evaporation
ARES	Automated Residential Energy Standard
ARI	Air Conditioning and Refrigeration Institute/American Refrigeration Institute
ARL	Atmospheric Research Laboratory
ARM	adjustable rate mortgage
ARS	Agricultural Research Service

ARPA	Advanced Research Projects Agency
ARRA	(see Recover Act)
ARRI	Automation and Robotics Research Institute
ART	advanced research turbines
ASCS	Advanced Stirling Conversion System
ASD	Adjustable-speed drive
	Analytic Studies Division
ASE	Alliance to Save Energy
ASEAN	Association of Southeast Asian Nations
ASEC	Applied Solar Energy Corp.
ASEE	American Society for Engineering Education
ASERTTI	Association of State Energy Research and Technology Transfer Institutions
ASES	American Solar Energy Society
ASHRAE	American Society of Heating, Refrigerating, and Air-Conditioning Engineers
a-Si	amorphous silicon
ASL	acid-soluble lignin
ASM	American Society of Microbiology
ASME	American Society of Mechanical Engineers
ASMS	American Society of Mass Spectrometry
ASOS	automated surface observing system
ASP	Aquatic Species Program
ASPEN	advanced simulator for process engineering
ASR	autoshrredder residue
ASRC	Atmospheric Sciences Research Center
ASRM	advanced solar reflective mirror
ASRP	Amorphous Silicon Research Project
ASSET	analysis of state energy tradeoffs databank
ASTF	Alaska Science and Technology Foundation
ASTM	American Society for Testing and Materials
ASU	Arizona State University
ATA	American Trucking Association
ATCC	American-type culture collection
ATD-CCM	Automotive Technology Development – Contractor's Coordination Meeting
ATDD	Atmospheric Transport and Diffusion Division
ATF	alternative transportation fuels
ATM	Advanced Technology Materials Inc.
ATP	adenosine triphosphate
A&TT	Applications and Technology Transfer
ATV	advanced technology vehicle
AUI	asset utilization index
AVC	auger voltage contrast
AVF	Alternative Vehicle Forum
AVG	Advanced Vehicles Group

AVS	American Vacuum Society
AWEA	American Wind Energy Association
AWT	advanced wind turbine Advanced Wind Turbines Inc.
AWMA	American Waste Management Association
AWU	Association of Western Universities
AWWA	American Water Works Association
AXE	acetyl xylan esterase

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B

BA	budget authorization
BAA	Broad Agency Announcement
BAE	Building Area Engineer
BAO	Boulder Atmospheric Observatory
BASF	name of company (don't spell out)
BATF	Bureau of Alcohol, Tobacco, and Firearms
BC	biochemical conversion
BCA	bicinchoninic acid
BCCL	Biomass Chemical Characterization Laboratory
BCPDU	Biochemical Process Development Unit
BCRF	Biological and Chemical Research Facility
BCS	beam characterization system Buildings and Community Systems
BCTR	Biological and Chemical Technologies Research (Program)
BDC	Bioenergy Development Corp.
b-dRDF	binder-enhanced densified refuse-derived fuel
BEC	Building Emergency Coordinator
BEEP	Best of Energy Efficiency Program
BERA	Biomass Energy Research Association
BERD	building energy research and development
BES	Basic Energy Sciences
BEST	Bioengineering Simulation Technology
BESTEST	Building Energy Simulation Test
BET	Brunauer-Emmett-Teller (a type of analysis)
BETD	Biomass Energy Technology Division
BEVA	building element vector analysis
BEW	Behnke, Erdman & Whitaker Engineering
BGF	Biomass Gasification Facility
BGSUF	Biomass Gasifier Scale-Up Facility
BGVJ	back-grooved vertical junction cells
BIPV	building-integrated photovoltaics
BLC	building load coefficients
BLM	Bureau of Land Management

BMI	Basic Measuring Instruments
BMP	biochemical methane potential biological methane potential
BMTDC	Biobased Materials Technology Development Center
BMS	building management systems
BMWT(D)	Biofuels and Municipal Waste Technology (Division)
BNL	Brookhaven National Laboratory
BOA	basic ordering agreement
BOD	biological oxygen demand
BOMA	Building Owners and Managers Association
BOPD	barrels of oil per day
BOR	Bureau of Reclamation
BORCAL	broad band outdoor radiometer calibration
BOS	balance of systems
BPA	blanket purchase agreement Bonneville Power Administration
BPCL	Biobased Polymer and Composites Laboratory
BQ	benzoquinone
BSA	bovine serum albumin
BSC	Basic Sciences Center
BSD	Biofuels Systems Division
BSF	back surface field
BSR	back surface reflector
BST	building-specific training
BTDC	before top dead center
BTECC	Building Thermal Envelope Coordinating Committee
BTEX	benzene, toluene, ethylbenzene, xylene
BTF	Blade Test Facility
BTRF	Biotechnology Research Facility
Btu	British thermal unit
BTX	benzene, toluene, xylene
BU	Boston University
BuRec	Bureau of Reclamation (Department of Interior)
BWEA	British Wind Energy Association

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C

C2B2	Colorado Center for Biorefining and Biofuels
CA	cellulose acetate
CAAA-90	Clean Air Act Amendments of 1990
CAB	cellulose acetate butyrate
CACS	Commercial and Apartment Conservation Service
CAD	computer-aided design
CADCO	(not an acronym)

CADD	computer-assisted design and drafting
CADDET	Center for the Analysis and Dissemination of Demonstrated Energy Technologies
CAE	computer-aided engineering
CAER	Center for Applied Energy Research (University of Kentucky)
CAFE	corporate average fuel economy
CAFI	Consortium on Applied Fundamentals and Innovation
C-AFM	conductive atomic force microscopy
CAIS	Condition Assessment Information System
CALSEIA	California Solar Energy Industries Association
Caltech	California Institute of Technology
c-AMP	cyclic-AMP
CAN	controller area networks
CANMET	Canadian Center for Mineral and Energy Technologies
CANWEA	Canadian Wind Energy Association
CAP	cellulose acetate propionate
CARB	California Air Resources Board Consortium for Advanced Residential Buildings
CAREIRS	Conservation and Renewable Energy Inquiry and Referral Service
CARES	Conservation and Renewable Energy System
CARS	Coherent Anti/Stokes Raman Spectroscopy
CART	Controls Advanced Wind Turbine
CAS	Condition Assessment Survey
CASH	Canadian, American, Swedish Hydrolysis
CAT	Chemical Analysis and Testing (task name)
CATI	Colorado Advanced Technology Institute
C/B	catalyst/biomass
CBC	circuit breaker control
CBD	Commerce Business Daily chemical bath deposition
CBI	Chicago Bridge and Iron
CBH	cellobiohydrolase
CC	closed cycle
CCAP	Center for Clean Air Policy Climate Change Action Plan
CCC	Collaborative Consensus Committee
CCD	capacitively coupled device
CCE	cost of conserved energy
CCEM	Colorado Center for Environmental Management
CCI	Community College Institute
CC/PT	combined-cycle power tower
CD	construction and demolition critical decision
CDBG	community development block grant
CDC	Control Data Corp.
CDD	cooling degree-day
CDBG	community development block grant

CDOT	Colorado Department of Transportation
CDR	Conceptual Design Review
CDRR	conceptual design report revision
CdTe	cadmium telluride
CEC	California Energy Commission
	Cargocaire Engineering Corp.
CEG	Clean Energy Group, Inc
CEM	continuous emission monitoring
CEO	chief executive officer
CEPEL	Centro de Pesquisas de Energia Elétrica (equivalent of EPRI in Brazil)
CEQ	Council of Environmental Quality
CER	carbon dioxide evolution rate
CERCLA	Comprehensive Response Compensation and Liability Act
CERL	Construction Engineering Research Laboratory (U.S. Army Corps of Engineers)
CERT	Council of Energy Resource Tribes
CESS	Colorado Energy Science Center
CET	Center for Ecological Technology
CF	capacity factor
CFC	chlorofluorocarbon
CFCC	continuous fiber ceramic component
CFD	computational fluid dynamics
	cumulative frequency distributions
CFFV	clean fuel fleet vehicle
CFL	compact fluorescent lighting
CFM	cubic feet per minute
CFR	Consolidated Fuels Research
	code of federal regulations
CFRD	contract-funded research and development
CFTP	Cooperative Field Test Program
CFTT	contract-funded technology transfer
CFV	clean fuel vehicle
CGS	copper gallium diselenide
CHESF	(equivalent of Bonneville Power Administration in northeastern Brazil)
CHP	combined heat and power
CH-OIP	Chicago Office of Intellectual Property
CHP	combined heat and power
CHPC	Combined Heat, Power, and Cooling Plant
CID	collision-induced dissociation
CIDI	compressed-ignition direct-injection
CIFAR	California Institute for Foods and Agricultural Research
CIFER	Colorado Institute for Fuels and Engine Research
CIGS	CuInGaSe ₂ (copper indium gallium diselenide)
CIGSS	CuInGaSSe ₂ (copper indium gallium sulfur selenide)
CIP	continuation in part
CIR	collision induced reaction

CIRB	Colorado Institute for Research and Biology
CIRES	Cooperative Institute for Research in Environmental Science
CIS	CuInSe ₂ (copper indium diselenide)
CIT	continuous improvement team
CL	coefficient of lift cathodoluminescence
CLEFT	cleavage of lateral epitaxial film for transfer
CLF	Conference and Learning Facility (STM Site)
CLOUT	Coalition for Learning Opportunity and United Tutors
CMAQ	Congestion Mitigation and Air Quality Development Program
CMB	Chemical Mass Balance (receptor model)
CMC	carboxymethyl cellulose Colorado Mountain College
CMCase	carboxymethyl cellulase
CMFERT	Collaborative Manufacturing Buildings Facility for Energy Research and Testing
CMR	continuous-flow microreactor system
CMS	compatible molten salt
CMTF	Collector Module Test Facility (Sandia National Laboratories)
CMU	Carnegie-Mellon University
CMWC	Consolidated Mutual Water Company
CN	cetane number
CNG	compressed natural gas Colorado National Guard
C-NMR	carbon-nuclear magnetic resonance
C/N ratio	carbon/nitrogen ratio
CNT	carbon nanotube
CO ₂	carbon dioxide
CO	coherent optical carbon monoxide critical outcome
COD	chemical oxygen demand
COE	cost of energy
COMMEND	commercial end-use
CONEG	Council of Northeastern Governors
CONFRM	Cooperative Network for Renewable Resource Measurements
COP	coefficient of performance
CORECT	Committee on Renewable Energy Commerce and Trade
COSE	cost of saved energy
COTS	commercial off the shelf
CPFF	cost plus fixed fee
CPG	Cummins Power Generation Inc.
CPI	Consumer Price Index
CPM	constant photocurrent method critical path method communications processing module

CP/MAS	cross-polarization magic angle spinning
CPS	capsular polysaccharide Corporate Planning System
CPUC	California Public Utilities Commission
CPV	concentrating photovoltaics
CR	central receiver
CRADA	cooperative research and development agreement
CRC	Coordinating Research Council
CRD	contractor requirements document
CREC	Colorado Renewable Energy Collaboratory
CREED	Colorado Renewable Energy and Economic Development Facility
CREF	Colorado Renewable Energy Forum
CREST	Center for Renewable Energy and Sustainable Technology
CREW	Center for Research and Education in Wind
CRP	Conservation Reserve Program cooperative research program
CRS	central receiver system certified realty specialist
CRSP	Center for Revolutionary Solar Photoconversion
Csave	cost of saved energy
CSB	Colorado Science Bowl
CSCVT	close-space chemical vapor transport
CSDS	Concentrating Solar Deployment System
CSEN	Colorado Science Education Network
c-Si	crystalline silicon
CSIRO	Commonwealth Scientific and Industrial Research Organization
CSL	corn steep liquor
CSMRI	Colorado School of Mines Research Institute
CSO	Cognizant Secretarial Office
CSP	concentrating solar power
CSR	Climatological Solar Radiation
CSS	close-spaced sublimation
CSSA	cellulose sulfate sodium salt
CST	Central Solar Technology (DOE)
CSTR	continuous stirred tank reactor
CSTRR	Corporation for Solar Technologies and Renewable Resources
CSVV	close-space vapor transport
CSW	corn steep water
CT	combustion turbine current transformer
CTA	cellulose triacetate
CTAA	Community Transportation Association of America
CTE	coefficient of thermal expansion
CTI	Climate Technology Initiative
CTRF	Central Receiver Test Facility
CU	University of Colorado

CURD	Crop Utilization Research Database
C-V	capacitance-voltage
CVD	chemical vapor deposition
CVI	compact vacuum insulation
CVM	cluster-variation method
CVT	chemical/vapor transport
CW	continuous-wave
CWA	Clean Water Act
CWMI	Cornell Waste Management Institute
CWP	cold water pipe
CY	calendar year
CZ	Czochralski

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D

D&R	(a company name)
DAB	Design Advisory Board
DAC	Design Assistance Center
DAR	direct absorption receiver
DARPA	Defense Advanced Research Projects Agency
DARTS	direct absorption receiver and thermal storage
DACS	data acquisition and control system
DAS	data acquisition system
DAS-RE	Deputy Assistant Secretary, Renewable Energy
DAWT	diffuser-augmented wind turbine
DBOM	dual-beam optical modulation
DBT	dibenzothiophene
DC	direct current
DCA	dicarboxylic acid
DCAA	Defense Contracting Auditing Agency Department of Cost and Accounting Audit
DCB	dichlorobenzene
DCC	direct-contact condenser
DCE	dichloroethylene
DCFROR	discounted cash flow/rate of return
DCHX	direct-contact heat exchanger
DCS	distributed collector system
DDGS	distillers dried grains with solubles
DDRD	Director's Discretionary Research and Development
DFMA	design for manufacture and assembly
DE	destruction efficiency distributed energy
DEAE	diethylaminoethyl
DEER	Distributed Energy and Electric Reliability

DEGC	diethylgallium chloride
DEGREES	Dynamic Energy and Greenhouse Emissions Evaluation System
DEG/SE	Davis Energy Group/SunEarth
DETL	Distributed Energy Technologies Laboratory
DEMP	Departmental Energy Management Program
DEP	Department of Environmental Protection diethylphthalate
DER	distributed energy resources
DEWI	(German Wind Energy Institute)
DFMA	design for manufacture and assembly
DFMECA	design failure mode effects and criticality analysis
DFSS	dedicated feedstock supply system
DFV	digital functional vehicle
DFR	design for reliability
DG	distributed generation
DGAP	data gathering and processing
DHC	district heating and cooling
DHE	dynamic hydrogen electrode
DHS	dehydroshikimic acid
DHW	domestic hot water
DI	deionized
DING	direct injection natural gas
DJ	dual junction
DLTS	deep level transient spectroscopy
DLR	German Aerospace Center
DM	deutschmarks
DMA	data, modeling, and analysis
DMBQ	2,6-dimethoxybenzoquinone
DMC	direct microbial conversion
DME	dimethyl ether
DMME	Department of Mines, Minerals, and Energy (state of Virginia)
DMSO	dimethyl sulfoxide
DMT	dimethyl terephthalate
DNA	Defense Nuclear Agency deoxyribonucleic acid
DNB	departure from nucleate boiling
DNNA	Daylighting Network of North America
DNS	dinitrosalicylic acid
DNI	direct normal incident
DO	dissolved oxygen
DOC	U.S. Department of Commerce
DOD	U.S. Department of Defense
DOE	U.S. Department of Energy
DOE CH	DOE Chicago Operations Office
DOE EH	DOE Environment, Safety, and Health
DOE EM	DOE Environmental Restoration and Waste Management

DOE FE	DOE Fossil Energy
DOE GO	DOE Golden Field Office
DOE HQ	DOE Headquarters
DOE RFO	DOE Rocky Flats Office
DOE SAN	DOE San Francisco Site Office
DOH	Department of Housing
DOS	density of states
DOT	Department of Transportation
DP	distributed power
DPP	Distributed Power Program
DQMS	data quality management system
dRDF	densified refuse-derived fuel
DRE	destruction and removal efficiency
DRI	Data Resources Inc. Desert Research Institute
DRIFT	diffuse reflectance infrared Fourier transform
DS	degree of substitution
DSA	diafiltration saccharification assay
DSC	differential scanning calorimeter
DSE	degree of synergistic effect
DSET	(DSET Laboratories, not an acronym)
DSM	demand-side management
DSO	Denver Support Office
DSP	digital signal processor
DSMTI	Demand-Side Management Training Institute
DTA	differential thermal analysis
dtPD	dry tonne per day
dTPD	dry ton per day
DTS	differential transmittance spectra
DUV	Distributed Utility Valuation
DVM	digital voltmeter
DWEA	Desert Wind Energy Association
DWS	desktop workstation

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E

EA	environmental assessment
EAC	estimate at completion
EADC	Energy Analysis and Diagnostic Center
EAO	Energy Analysis Office
EASA	Electrical Apparatus Service Association
EAWAG	(Swiss Federal Institute for Environmental Science and Technology)
EB	electron beam
EBIC	electron beam induced current

EBIV	electron beam induced voltage
EBSB	electron backscatter diffraction
EC	European Community
ECD	electron capture detector
	Energy Conversion Devices (a company)
ECIP	Energy Conservation Investment Program
ECM	electronic control module
ECN	(Netherlands Energy Research Foundation)
ECP	energy conversion panel
ECR	electron cyclotron resonance
ECRE	Export Council for Renewable Energy
ECS	Electrochemical Society
ECUT	Energy Conversion and Utilization Technologies
ECW	electrochromic windows
EDAX	energy dispersive analysis by x-ray
EDF	Environmental Defense Fund
EDS	Electronic Data Systems
	energy dispersive
EDU	engineering development unit
EEAD	Energy and Environmental Analysis Division
EEBA	Energy Efficient Building Association
ECC	environmental concept car
EEC	European Economic Community
EEEDAL	ethanol-extracted explosively depressurized aspen lignin
EEI	Edison Electric Institute
EELS	electron energy loss spectroscopy
EEM	energy-efficient mortgages
EER	electrolyte electroreflectance
	energy and environmental research
	energy efficiency ratio
EERE	Office of Energy Efficiency and Renewable Energy
EERRN	Enhanced Energy Recovery and Refining News
EES	Energy Extension Service
EESE	ethanol-extracted, steam-exploded (aspen)
EESI	Environmental and Energy Study Institute
EFD	electrofluid dynamic (Wind Energy System)
EFG	edge-defined, film-fed growth
Eg	bandgap energy
EG I	endoglucanase I
EGEAS	electric generation expansion analysis system
EGR	exhaust gas recirculation
EGS	enhanced or engineered geothermal system
EGUMS	electric and gas utilities modeling system
EH	Environment, Safety, and Health (DOE)
EHP	Electric Hybrid Propulsion
EH&S	environmental health and safety

EIA	Energy Information Administration
EIES	electron impact emission spectroscopy
	Electronic Information Exchange System
EIR	Environmental Impact Report
EIS	Environmental Impact Statement
EL	electroluminescence
ELH	(a type of lamp used in solar simulators and projects, not an acronym)
ELISA	enzyme-linked immunosorbent assay
EM	Office of Environmental Restoration and Waste Management (DOE)
EMA	Engine Manufacturers' Association
EMAP	energy master action plan
EMAP	energy map
EMB	eutectic metal bonding
EMD	Electronic Materials Division
	electronic materials and devices
EMF	Energy Modeling Forum
EMI	electromagnetic interference
EMMA	equatorial mount with mirrors for acceleration
EMSA	Electron Microscope Society of America
EMP	Embden-Meyerhof-Parns (pathway)
EMT	emerging module technology
ENEA	Italian National Agency for New Technologies, Energy and the Environment
ENR	Energy and Natural Resources
E.O. 13423	Executive Order 13423
EP	emissions parameter
EPA	U.S. Environmental Protection Agency
EPAC	Ethanol Producers and Consumers
EPA-ORD	Environmental Protection Agency – Office of Research and Development
EPA/RTP	Environmental Protection Agency/Research Triangle Park
EPAct	Energy Policy Act
EPC	Engineer, Procure, Construct
Epi-fz	epitaxial float-zoned
EPMA	electron probe microanalysis
EPR	(use acronym; do not spell out)
EPRE	Ente Provincial Regulador Energetico (Argentina)
EPRI	Electric Power Research Institute
EPS	electrochemical photocapacitance spectroscopy
	exopolysaccharide
	environmental portfolio standard
EPV	Energy Photovoltaics
ER	Office of Energy Research (DOE)
	electric reliability
ERC	Energy Research Corp.
	Environmental Research Consortium

ERDA	Energy Research and Development Administration
ERG	Energy Research Groups, International
ERHA	Energy Rated Homes of America
ERIP	Energy Related Inventions Program
ERTA	Energy Recovery and Tax Act (1981)
ERULF	Energy Research Undergraduate Laboratory Fellowship (DOE)
ERV	energy recovery ventilator
ES&H	Environment, Safety, and Health
ESH&Q	Environmental, Safety, Health, and Quality
ESCA	electron spectroscopy for chemical analysis
ESCO	energy services company
ESD	electron stimulated desorption
ESG	Energy Systems Group (Rockwell International)
ESIF	Energy Systems Integration Facility
ESM	energy system monitoring
ESP	edge-supported pulling
	electric service provider
	electrostatic precipitator
ESPC	energy savings performance contract
ESR	electron spin resonance
ESST	Engine Support System Technology
ETBE	ethyl tertiary butyl ether
ETC	Energy Technology Conference
ETCE	Energy Technology Conference and Exhibition
ETEC	Energy Technology and Engineering Center (a division of Rockwell)
ETI	Environmental Technology Initiative
ETMY	estimated typical meteorological year
EtOAc	ethyl acetate
EtOH	ethanol
ETR	exploratory technology research
ETS	Edwards Test Stations (Jet Propulsion Laboratory)
EUL	enhanced use leasing
EV	electric vehicle
EVA	ethylene vinyl acetate
EVMS	Earned Value Management System
EVTECA	electric vehicle total energy cycle analysis
EWG	Evaluation Working Group
	exempt wholesale generator
EXAFS	extended x-ray absorption fine structure
EX-IM	U.S Export-Import Bank
EYH	Expanding Your Horizons

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F

FAA	Federal Aviation Administration
FAC	FIMS Advisory Committee
FACC	Ford Aerospace and Communications Corp.
FACT	Field Assessment Coordinating Team
FAME	fatty acid methyl ether
FAQ	frequently asked questions
FAR	Federal Acquisition Rules
FAS	flow angle sensors
FAST	fixed abrasive sawing technique
	Fatigue, Aerodynamics, Structures, and Turbulence
FBC	fluidized-bed combustion
FBP	Federal Bureau of Prisons
FC	flow controller
fcc	face-centered cubic
FCC	fluid cracking catalyst
FCI	Federal Corrections Institute
	fixed capital investment
	Facility Condition Index
FCV	fuel cell vehicle
FCVT	FreedomCAR and Vehicle Technologies (Program)
FDRS	financial data and reporting system
FE	fossil energy
FEA	finite-element analysis
FECS	fire-expanded clay sphere
FEED	Federal Energy Efficiency Fund
FEM	finite element model
FEMA	Federal Emergency Management Agency
FEMP	Federal Energy Management Program
FEP	fluorinated ethylene propylene
FERC	Federal Energy Regulatory Commission
FERCO	Future Energy Resources Corp.
FETA	Field Experiment Test Area
FETC	Federal Energy Technology Center
FF	fill factor
FFPT	fixed focal point trough
FFRDC	federally funded research & development center
FFV	flexible-fuel vehicle
FHA	Federal Housing Administration
FHWA	Federal Highway Administration
FIB	focused ion beam
FID	flame ionization detector (for hydrocarbons)
FIMS	Facilities Information Management System
FIRST	Fostering Innovation, Research, and Strategic Technologies
	Facility for Integrated Renewable Systems Testing
FLAP	Force and Loads Analysis Program
FLC	Federal Laboratory Consortium

FLEX	Federal Lighting Energy EXpert
FM	flow meter
F MDF	fixed mirror, distributed focus
FMVSS	Federal Motor Vehicle Safety Standards
FmHA	Farmer's Home Administration
FOA	Funding Opportunity Announcement
Fob	fuel on board
FOG	fat, oil, and grease
FONSI	Finding of No Significant Impact
FOUP	Front-Opening Unified Pod
FPA	filter paper activity
FPG	Fuels Performance Group
FPIP	Federal Project Implementation Partnership
FPRP	Fats and Protein Research Foundation
FPTF	Facilities Planning Task Force
FPU	filter paper units
FR	flame retardant
FREE	Financial Residential Energy Efficiency
FREScA	Federal Renewable Energy Screening Assistant
FRI	Federal Relighting Initiative
FRP	fiberglass reinforced plastic
FSA	flat plate solar array
FSEC	Florida Solar Energy Center
FSLR	fast solar load ration
FSP	federal standby plan (or program)
FSTA	full-scale test article
FTC	Federal Trade Commission
FTE	full-time equivalent
FTIR	Fourier transform infrared (used with spectroscopy)
FTLB	Field Test Laboratory Building
FTLF	Field Test Laboratory Facility
FT-NMR	Fourier transform-nuclear magnetic resonance
FTP	federal test procedure
	Federal Test Program
	field task package
	File Transfer Protocol
FWDC	Foster Wheeler Development Corp.
FWP	field work proposal
FY	fiscal year
FZ	float zone

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G

GA general atomic

G&A	general and administrative
GAO	General Accounting Office
GATT	General Agreement on Trade and Tariffs
GB	grain boundary
GC	gas chromatograph
GC/MS	gas chromatograph/mass spectroscope
GC/MSD	gas chromatograph/mass spectrometer detector
GDC	Green Data Center
GDO	Geothermal Drilling Organization
GDP	gross domestic product
GDV	General Development Vision
GE	General Electric
GEA	Geothermal Energy Association
GE-AED	General Electric Co. Advanced Energy Department
GE-SCD	General Electric Co. Simulation and Controls Department
GEBA	Global Energy Budget Archive
GECF	Geothermal Energy Conversion Facility
GEF	Global Environment Facility
GER	Geophysical Environmental Research
GFI	gaseous fuel injection
gge	gasoline gallon equivalent
GHG	greenhouse gas
GHP	geothermal heat pump
GHPC	Geothermal Heat Pump Consortium
GIDAS	Geographical Information Data Analysis System
GIS	geographic information system
GIT	Georgia Institute of Technology
GMP	general management plan
GMS	gas management system
GMT	Greenwich mean time
GNP	gross national product
GO	Golden Field Office
GOES	Geostationary Operational Environmental Satellite
GOSI	General Organization for Social Insurance
GPC	gel permeation chromatography
	generator power control
GPE	General Purpose Equipment
	General Plant Equipment
GPI	Glass Packaging Institute
	Golden Photon Inc.
GPO	Government Printing Office
GPP	General Plant Project
	general post processor
GPP/GPE	General Plant Project/General Purpose Equipment
GPP/LI	general plant project and line item construction
GPRA	Government Performance Results Act

GPS	Global Positioning System
GPT	gas phase titration
GPW	GeoPowering the West
GRAS	generally regarded as safe
GRC	Geothermal Resources Council
GRI	Gas Research Institute
GRP	glass-reinforced plastic
GSA	General Services Administration
GSE	Global Solar Energy
GSF	gross square feet
GSHP	ground source heat pump
GSIP	Government Solar Installation Program
GSO	goods and services on order
GTC	generator test cell
GTO	Geothermal Technology Organization
GTP	Geothermal Technologies Program
GTRI	Georgia Tech Research Institute
GTSF	Georgia Tech Solar Furnace
GUI	graphical user interface
GVW	gross vehicle weight
GW	gigawatt
GWP	global warming potential

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H

H ₂ S	hydrogen sulfide
HAC	hydroxyacetaldehyde
HALT	highly accelerated lifetime testing
HAWT	horizontal-axis wind turbine
HAZOP	hazard and operability
HBCU	Historically Black Colleges and Universities
HCE	heat collection element
HCFC	hydrochlorofluorocarbon
HCRF	Heat Cycle Research Facility
HCSC	hot carrier solar cell
HDD	heating degree-day
HDPE	high-density polyethylene
HDR	hot dry rock
HDV	heavy-duty vehicle
HEC	herbaceous energy crop
HECO	Hawaiian Electric Co.
HEEB	high-energy electron beam
HEM	heat exchanger method
HEPA	high-efficiency particle filter absolute

HERS	Hawaiian Electric Renewable Systems Home Energy Rating Systems
HEV	hybrid electric vehicle
HEXA	hexamethylene tetramine
HFC	high-flux cavity
HFCIT	Hydrogen, Fuel Cell, and Infrastructure Technologies (Program)
HFSF	High-Flux Solar Furnace
HFSS	high-flux solar simulator
HGCU	hot-gas cleanup
HIBRP	Hawaii Integrated Biofuels Research Program
HIC	hydrophobic interaction chromatography
HID	high-intensity discharge
HiPerf PV	High-Performance Photovoltaics Project
HIPSS	high-intensity pulsed solar simulator
HMF	hydroxyl-methyl-furfural
HMO	heat medium oil
HMTEA	Heat- and Mass-Transfer Experimental Apparatus
HMTSTA	Heat- and Mass-Transfer Scoping Test Apparatus
HNEI	Hawaii Natural Energy Institute
HOMER	Hybrid Optimization Model for Electric Renewables
HOST	Hawaii Ocean Science Technology
HOV	high-occupancy vehicle
HP	Hewlett Packard
HPAEC	high-performance anion exchange chromatography
HPC	high-performance computing
HP-DSC	high-pressure differential scanning calorimetry
HPLC	high-performance liquid chromatograph
HPP	high-pressure plasma
HPSEC	high-performance size exclusion chromatography
HPTB	Hybrid Power Test Bed
HQ	headquarters
HRII	High-Reliability Inverter Initiative
HRT	hydraulic retention time
HRTEM	high-resolution transmission electron microscopy
HRV	heat recovery ventilator
HSD	high-solids digester
HSL	hybrid solar lighting
HSPA	Hawaiian Sugar Planters' Association
HSPF	heating seasonal performance factor
HTAP	Hydrogen Technical Advisory Panel
HTF	heat transfer fluid
HTIP	Hydrogen Technical Interagency Panel
HTML	High Temperature Materials Laboratory
HTR	high throughput reactor
HTS	high-temperature superconductor high throughput screening

HTSC	high-temperature superconducting
HTTB	hybrid technology test bed
HUD	Housing and Urban Development
HVAC	heating, ventilating, and air conditioning
HVDC	high-voltage direct current
HVST	high-voltage stress test
HWCVD	hot-wire chemical vapor deposition
HWFET	highway fuel economy test
HWVE	hot-wall vacuum evaporation

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I

IACS	Indian Association for Cultivation of Science
IADB	Inter-American Development Bank
IAEE	International Association for Energy Economics
IAG	industry average gasoline
IAQ	indoor air quality
IBACOS	Integrated Building and Construction Solutions
IBAD	ion-beam assisted vapor deposition
IBIS	International Biosynthetics (name of company)
IBMER	(Institute for Buildings, Mechanization, and Electrification of Agriculture) (Poland)
IBRF	Integrated Biorefinery Research Facilities
IC	integrated circuit
ICB	ionized cluster beam
ICE	industrial combustion equipment
ICEV	internal combustion engine vehicle
ICF Inc.	(name of a company, not an acronym)
ICI	Imperial Chemicals Inc.
ICLEI	International Council for Local Environmental Initiatives
ICP	inductively coupled plasma
	Institutional Conservation Program
ICPC	inductively coupled plasma concentrator
	integrated compound parabolic curve
ICS	integrated collector storage
ICTMC	International Conference on Ternary and Multinary Compounds
ID	inside diameter
IDC	internal diameter clearance
IDIP	in-line diagnostics and intelligent processing
IDIQ	indefinite delivery, indefinite quantity (FEMP)
IDM	International Display Materials (company name)
IDMP	International Daylight Measurement Program
IEA	International Energy Agency
IEC	International Electrotechnical Commission

	Institute of Energy Conversion
IECEC	Intersociety Energy Conversion Engineering Conference
IEEE	Institute of Electrical and Electronics Engineers
IEF	International Energy Foundation
IEP	Independent Energy Producer
IES	Illuminating Engineering Society
IFI	Integrated Facilities and Infrastructure
IFPU	international filter paper units
IFREE	International Fund for Renewable Energy and Energy Efficiency
IGCC	integrated gasification and combined cycle
	Interagency Geothermal Coordinating Council
IGES	inert gas exhaust system
IGMA	Insulating Glass Manufacturers Alliance
IGPP	Institutional General Plant Project
IGT	Institute of Gas Technology
IHP	industrial heat pump
IIT	Illinois Institute of Technology
	Indian Institute of Technology
IITRI	Illinois Institute of Technology Research Institute
ILEV	inherently low-emission vehicle
I/M	inspection/maintenance
IMA	impact-modified acrylic
IMEC	Interuniversity Microelectronics Center
IMEP	indicated mean effective pressure
IMIC	Infrastructure Modernization Implementation Committee
IMP	ion-moderated partition
IMS	integrated mechanical system
IMTS	International Meeting of Test Stations
IMVS	intensity-modulated photovoltage spectroscopy
INL	Idaho National Laboratory
I/O	input/output
IOU	investor-owned utility
IP	intermediate process
IPA	isopropyl alcohol
IPAC	Intra-Government Payment and Collection
IPC	Institute of Paper Chemistry
	Integrated Power Corp.
IPEG	interim price estimation guidelines
IPH	industrial process heat
IPO	initial public offering
IPP	independent power producer
IPST	Institute of Paper Science and Technology
IQT	interim qualification testing
IR	infrared
IRENIC	International Renewable Energy Network and Information Center
I-R100	(Industrial Research Award, see R&D 100)

IRAP	Insolation Resource Assessment Program
IRB	Internal Review Budget
IREC	Interstate Renewable Energy Council
IRL	Insolation Resource Laboratory
IRM	integrated resource management international resource monitoring
IRP	integrated resource planning
IRR	internal rate of return
ISCC	Interstate Solar Coordination Council
ISCCP	International Satellite Cloud Climatology Project
ISCCS	Integrated Solar Combined-Cycle System
ISE	Institute for Solar Energy
ISES	International Solar Energy Society
ISET	International Solar Electric Technology
ISIS	Integrated Surface Irradiance Study
ISM	integrated safety management
ISMA	interactive self-modeling multivariate analysis
ISO	International Standards Organization independent system operator
ISOE	(see SPIE)
ISP	Information Services Program Institute for Sustainable Power
ISS	ion scattering spectroscopy
IST	Industrial Solar Technology
ITE	Institute of Transportation Engineers
ITIS	Integrated Technical Information Service
ITN/ES	ITN Energy Systems
ITO	indium tin oxide
ITSAC	International Thermal Storage Advisory Council
ITUTF	Industrial Thermochemical User Test Facility
IUF	Industrial User Facility
IUPAC	International Union of Pure and Applied Chemistry
I-V	current voltage
IVHS	Intelligent Vehicle Highway Systems
IWP	Industrial Waste Program
IWS	Industrial Welding and Supply Co.
IWSA	Integrated Waste Services Association

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J

J	Joule
JCGS	Joint Center for Graduate Studies
JEDI	Jobs and Economic Development Impact
JGCRI	Joint Global Change Research Institute

JNCP	justification for noncompetitive procurement
JPL	Jet Propulsion Laboratory
Jsc	short-circuit current
JSEE	Journal of Solar Energy Engineering
JSES	Japan Solar Energy Society
JSF	Joyce Street Facility
JSME	Japan Society of Mechanical Engineers
J-V	current density voltage
JVP	Joint Venture Project
JWS	joint work statement

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K

KAD	known airflow device
KACST	King Abdulaziz City for Science and Technology
KAPL	Knowles Atomic Power Laboratory
KEURP	Kansas Electric Utility Research Program
KFA	Kernforschungsanlage
KGRA	known geothermal resource area
kHz	kilohertz
KIER	Korean Institute for Energy Research
KIESD	Kentucky Institute for the Environment and Sustainable Development
KSES	Korean Solar Energy Society
kW	kilowatt
kWhe	kilowatt hour electric
kWht	kilowatt hour thermal
kWp	kilowatt peak
kV	kilovolt

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L

LACMTA	Los Angeles County Metropolitan Transit Authority
LACSS	large-area, continuous-solar simulator
LADWP	Los Angeles Department of Water and Power
LALCO	low-aromatics light cycle oil
LAMEL-CNR	(Laboratorio di Chimica e Technologie dei Materiali e Componenti: per Elettronica-Consiglio Nazionale Ricerche)
LAN	local area network
LANL	Los Alamos National Laboratory
LANSIR	large-aperture, near-specular imaging reflectometer
LAP	laboratory analytical procedure (protocol)
LAPSS	large-area pulse solar simulator

LAPW	linearized augmented plane wave
LASL	Los Alamos Scientific Laboratory
LASS	low-angle silicon sheet
LB	Langmuir-Blodgett (a type of analysis) laser beam Luria broth
LBES	Laboratory of Biomedical and Environmental Sciences (University of California, Los Angeles)
LBIC	laser beam induced current light beam induced current
LBNL	Lawrence Berkeley National Laboratory
LBTF	Large Blade Test Facility
LCA	life-cycle assessment
LCC	low-cost concentrator life-cycle costs
LCD	liquid crystal display
LCGO	light coker gas oil
LCHP	laboratory chemical hygiene plan
LCNT	low concentration nontracking
LCO	light-cycle oil
LCOE	levelized cost of energy
LD	laser diode
LDA	laser doppler anemometry
LDV	laser doppler velocimeter light-duty vehicle
LDRD	Laboratory Directed Research and Development Program
LEBS	low-emission boiler system
LEC	levelized energy cost
LED	light-emitting diode
LEED	Leadership in Energy and Environmental Design
LEFR	laminar entrained-flow reactor (associated with black-liquor gasification)
LEGR	leading-edge grain roughness
LeRC	Lewis Research Center (National Aeronautics and Space Administration)
LEP	Low Emission Partnership
LES	liquid encapsulated synthesis
LEV	low-emission vehicle
LFDR	line-focus distributed receiver
LFG	landfill gas
LHR	low-heat rejection
LI-COR	Lambda Instrumentation Corp. (always use abbreviation)
LIPA	Long Island Power Authority
LIST	long-term inflow and structural testing (NWTC Wind Program)
LL	Lincoln Laboratory
LLL	Lawrence Livermore Laboratory

LLNL	Lawrence Livermore National Laboratory
LMA	Lockheed-Martin Astronautics
LMW	low molecular weight
LNG	liquefied natural gas
LO	longitudinal optical
LOI	letter of interest (letter of intent is always spelled out)
LORRE	Laboratory on Renewable Resources Engineering
LP	linear programming
LPE	liquid phase epitaxy
LPG	liquefied petroleum gas
LP QCM	liquid-phase quartz crystal microbalance
LPSO	Lead Program Secretarial Office
LRI	Lighting Research Institute
LSCAP	light stimulated capacitance
LSF	liquid state fermentation
LSS	laser scan system
LSTTF	Large-Scale Thermal Test Facility
LTS	long-term stewardship
LTU	Lawrence Technological University
LTV	loan-to-value
LVV	(energy transition, not an acronym)
LWCRF	Large Wind Component Reliability Facility
LWTTF	Large Wind Turbine Test Facility

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M

M&E	measurement and evaluation
M&V	measurement and verification
MAERC	Minority Access to Energy-Related Research Careers
MAMTC	Mid-America Manufacturing Technology Center
MAS	Massachusetts Audubon Society Micro Analytical Society
MAS-NMR	magic angle spinning nuclear magnetic resonance
MAT	micro activity test
MATM	matrix approach to testing mirrors
MAPPS	modular autonomous photovoltaic power supply
MB	molecular beam
MBE	molecular beam epitaxy mean bias error
MBI	Michigan Biotechnology Institute
MBMDPE	metallocene-based multi-density polyethylene
MBMS	molecular beam mass spectrometer (if it is spectrometry, spell it all out)
MBQ	monomethoxybenzoquinone

MBTQMS	molecular beam triple quadrupole mass spectrometer
MBWA	management by walking around
mc	multicrystalline
MCFC	molten carbonate fuel cell
MCS	master control system
MCU	Minority Colleges and Universities
MDA	Marine Development Associates
MDAC	McDonnell Douglas Astronautics Co.
MDC	McDonnell Douglas Corporation
MDT	mean daily total
	Mountain Daylight Time
MEC	Model Energy Code
MECO	Maui Electric Co.
MEE	migration-enhanced epitaxy
MEG	multiple-exciton generation
MEMP	Municipal Energy Management Program
MEPA	Meteorological and Environmental Protection Agency (Saudi Arabia)
MESA	Mathematics, Engineering, Science, and Achievement
METC	Morgantown Energy Technology Center
MEVP	modular electric vehicle program
MF	microfiltration
MFG	motor fuel grade
MFRB	multipurpose fluidized reactor bed
MG	metallurgical grade
MHEA	mobile home energy audit
MICC	metal interconnected cascade cell
MIM	monolithic interconnected module
MIPR	military interdepartmental purchase requisition
MIR	maximum incremental reactivity
MIS	Management Information Systems
	metal insulated semiconductor
MISR	Modular Industrial Solar Retrofit (Program)
MISS	metal insulator semiconductor switch
MIT	Massachusetts Institute of Technology
MITE	Municipal Solid Waste Innovative Technology Evaluation
MITI	Ministry of International Trade and Industry (Japan)
MLTE	module long-term exposure
MM	man months
MMBQ	monomethoxybenzoquinone
MMC	Martin Marietta Corp.
MMPE	military module power equipment
MMS	mineral management service
M&O	management and operating
MOA	memorandum of agreement
MOC	memorandum of cooperation
MOCVD	metal organic chemical vapor deposition

MON	motor octane number
MOU	memorandum of understanding
MOVPE	metal organic vapor phase epitaxy
MOWITT	Mobile Window Thermal Test
MPA	multi-pyranometer array
MPO	memorandum purchase order
MPP	model power plant
MPPT	maximum power point tracking
MRF	materials recovery facilities
MRI	Midwest Research Institute
MRS	Materials Research Society
MRT	mean radiant temperature
MS	mass spectrometer
	molten salt
MSDS	material safety data sheet
MSG	Marine Sciences Group (University of California at Berkeley)
MSO	molten salt oxidation
MSR	Monthly Status Report
	Million Solar Roofs
MSSTF	Midtemperature Solar System Test Facility (Sandia National Laboratories, Albuquerque)
MST	mountain standard time
MSW	municipal solid waste
MSWM	Municipal Solid Waste Management (used with Program)
MT	market transformation
MTBE	methyl tertiary butyl ether
MTBF	mean time between failure
MTCI	Manufacturing Technologies Conversion International
MTCRF	Midtemperature Collector Research Facility (SERI)
MTI	Mechanical Technology Inc.
MTG	methanol-to-gasoline
MTS	material testing system
MUA	methylumbelliferol acetate
MUPC	Macani-Uwila Power Corp.
MURA	Minority University Research Associates
MVA	multivariate analysis
MW	megawatt
MWh	megawatt-hour
MWC	municipal waste combustors
MYPP	Multi-Year Program Plan
MYRP	Multi-Year Research Plan
MYTP	Multi-Year Technical Plan

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N

NAA	neutron activation analysis non-attainment area
NAAQS	National Ambient Air Quality Standards
NABCEP	North American Board of Certified Energy Practitioners
NABM	National Association of Building Managers
NAECA	National Appliance Energy Conservation Act
NAEP	National Association of Environmental Publications
NAESCO	National Association of Energy Service Companies
NAFTA	North American Free Trade Agreement
NAFUF	National Alcohol Fuels Users Facility
NAHB	National Association of Home Builders
NAHB/RF	National Association of Home Builders/Research Foundation
NARSTO	North American Research Strategy for Tropospheric Ozone
NARUC	National Association of Regulatory Utility Commissioners
NAS	National Academy of Sciences Naval Air Station
NASA	National Aeronautics and Space Administration
NASCSP	National Association of State and Community Service Programs
NASEO	National Association of State Energy Officials
NASUCA	National Association of State Utility Consumer Advocates
NATAS	National Appropriate Technology Assistance Service
NAUCA	National Association of Utility Consumer Advocates
NBB	National Biodiesel Board
NBC	National Bioenergy Center
NBS	New Brunswick Scientific
NC	noncondensable
NCAR	National Center for Atmospheric Research
NCASI	National Council for Air and Stream Improvement
NCAT	National Center for Appropriate Technologies
NCC	National Climatic Center
NCCTI	National Climate Change Technology Initiative
NCDC	National Climatic Data Center
NCEL	Naval Civil Energy Laboratory
NCMA	National Concrete Masonry Association
NCPV	National Center for Photovoltaics
NCRM	National Council for Residual Management
NCSA	National Center for Supercomputing Applications
nc-Si	nanocrystalline silicon
NCSL	National Conference of State Legislatures
NCSU	North Carolina State University
NCTP	National Critical Technologies Panel
NDA	nondisclosure agreement
NDE	nondestructive experiments
NDIR	nondispersive infrared

NDP	NREL Development Plan
NDT	nondestructive testing
NEC	National Electric Code
NECPA	National Energy Conservation Policy Act
NEDO	New Energy and Industrial Technology Development Organization
NEED	National Energy Education Development
NEES	New England Electric System
NEF	National Ethanol Facility
NEG	Nippon Electric Glass
NEIC	National Energy Information Center
NEL	National Engineering Laboratory (in Europe)
NELH	Natural Energy Laboratory of Hawaii
NEPA	National Environmental Policy Act
NEMA	National Electrical Manufacturers Association
NEMI	National Energy Management Institute
NEMS	National Energy Modeling System
NEP	National Energy Policy
NEPA	National Environmental Policy Act
NERC	North American Electric Reliability Council
NES	National Energy Strategy
NESEA	North East Solar Energy Association
NETL	National Energy Technology Laboratory
NF	nanofiltration
NFC	National Fenestration Council
NFESC	Naval Facilities Engineering Service Center
NFESO	Naval Facilities Engineering Support Organization
NFPA	National Fire Protection Association
NFRC	National Fenestration Rating Council
NGL	natural gas liquid
NGO	nongovernment organizations
NGV	natural gas vehicle
NHA	National Hydrogen Association National Hydropower Association
NIEP	National Independent Energy Producers
NICE3	National Industrial Competitiveness through Energy, Environment, and Economics
NIH	National Institutes of Health
NIP	normal incidence pyrheliometer
NIPER	National Institute for Petroleum and Energy Research
NIR	near infrared
NIRS	near infrared spectroscopy
NIS	Newly Independent States
NIST	National Institute of Standards and Technology
NLC	National League of Cities
NMERI	New Mexico Energy Research Institute
NMHC	nonmethane hydrocarbon

NMI	National Maglev Initiative
NMOC	nonmethane organic carbon
NMOG	nonmethane organic gas
NMR	nuclear magnetic resonance
NMSER	New Mexico Solar Energy Research
NMSU	New Mexico State University
NNAC	NREL National Advisory Council
NOAA	National Oceanic and Atmospheric Administration
NOCT	nominal operating cell temperature
NOI	Notice of Inquiry
	Notice of Intent
NOPI	Notice of Program Interest
NOPR	Notice of Proposed Rulemaking
NORDA	Naval Oceanographic Research and Development Activity
NO _x	oxides of nitrogen
NPDES	National Pollutant Discharge Elimination System
NPPD	Nebraska Public Power District
NPPE	Net Power-Producing Experiment
NPPEA	net-power-producing experimental apparatus
NPR	Naval Petroleum Reserve
NPS	National Park Service
	Northern Power Systems Co.
NPT	neomycin phototransferase
NRC	National Research Council
NRCan	Natural Resources Canada
NRCC	Northeast Regional Climate Center
NRDC	National Resources Defense Council
NRECA	National Rural Electric Cooperative Association
NREL	National Renewable Energy Laboratory
NRL	Naval Research Laboratory
NSDN	National Solar Data Network
NSF	National Sanitation Foundation
	National Science Foundation
NSOM	near-field scanning optical microscope
NSPS	new source performance standards
NSRDB	National Solar Radiation Database
NSTC	National Science and Technology Council
NSTTF	National Solar Thermal Test Facility (at Sandia National Laboratories)
NTD	neutron transmutation dopant
NTI	National Technology Initiative
NTIS	National Technical Information Service
NTSU	North Texas State University
NTU	number of transfer units
NTUA	Navajo Tribal Utility Authority
NWGP	New World Grid Power
NWS	National Weather Service

NWTC	National Wind Technology Center
NVH	noise, vibration, and harshness
NUG	nonutility generator
NWEA	National Wood Energy Association
NWEC	National Wind Energy Center
NWTC	National Wind Technology Center
NYSERDA	New York State Energy Research and Development Authority

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O

O&M	operation and maintenance
OATS	outdoor accelerated test system
OBP	Office of Biomass Program
OBCS	Office of Buildings and Community Systems (DOE)
OBIC	optical beam induced current
OC	open cycle
OCLI	Optical Coating Laboratory Inc.
OCVD	Open-circuit voltage decay (technique)
OD	optical density
	outside diameter
ODC	ordered defect compound
	other direct cost
OECM	Office of Engineering and Construction Management
OEDER	Office of Electricity Delivery and Energy Reliability
OEM	Office of Environmental Restoration and Waste Management (DOE)
OEM	original equipment manufacturer
OER	Office of Energy Research
OESD	Office of Energy Storage and Distribution
OET	Ocean Energy Technology
OFCCP	Office of Federal Contract Compliance
OFD	Office of Fuels Development
OIH	organic-inorganic hybrid
OIP	Office of Industrial Programs
OMA	optical multichannel analyzer
OMAE	Offshore Mechanic and Arctic Engineering
OMB	Office of Management and Budget
OMCVD	organometallic chemical vapor deposition
OMR	Office of Management and Resources
OMVPE	organometallic vapor phase epitaxy
OP	optical processing
OPA	Office of Planning and Assessment
	Office of Policy Assessment
	Office of Program Analysis
	Office of Public Affairs (most commonly used)

OPEC	Organization of Petroleum Exporting Countries
OPV	organic photovoltaics
ORC	organic rankine cycle
ORD	EPA Office of Research and Development
ORE	Office of Renewable Energy
ORNL	Oak Ridge National Laboratory
ORR	operational readiness review
OSB	oriented strand board
OSEC	Office of Solar Energy Conversion
OSHA	Occupational Safety and Health Administration
OSLAP	Office of State and Local Assistance Programs
OSTI	Office of Scientific and Technical Information
OSTP	offshore test platform White House Office of Science and Technology Policy
OSU	Oregon State University
OSW	EPA Office of Solid Waste
OTA	Office of Technical Assistance
OTEC	ocean thermal energy conversion
OTF	Outdoor Test Facility
OTFA	Office of Technical and Financial Assistance
OTR	oxygen transfer rate
OTT	Office of Transportation Technologies
OUT	Office of Utility Technologies oxygen uptake
OVC	ordered vacancy compound
OWIP	Office of Weatherization and Intergovernmental Programs

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P

PA	polyamine
PAAAS	polyacrylic acid ammonium salt
PAACM	polyacrylic acid-carboxyl modified
PAD	pulsed amperometric detection
PADD	Petroleum Administration for Defense Districts
PAE	planning, analysis, and evaluation
PAFC	phosphoric acid fuel cell
PAH	polyaromatic hydrocarbons
PAMS	Photochemical Assessment Monitoring Station
PAN	peroxyacetyl nitrate polyacrylonitrile
PAR	photosynthetically active radiation project (or proposal) authorization request
PASS	pulse analysis spectroradiometer system
PBA	Office of Planning, Budget, and Analysis

PBN	pyrolytic boron nitride
PBR	performance-based ratemaking performance-based regulation progressing batch reactor
PC	polycarbonate
PCA	protocatechuic acid
PCB	polychlorinated biphenyl
PCC	Pittsburgh Corning Corp.
PCD	photoconductive decay
PCE	perchloroethylene
PCL	polymer-concrete lined (or lining)
PCM	phase-change material pulse-code modulated
PCO	photocatalytic oxidation
PCPB	photochemical/photobiology
PCR	polymerase chain reaction
PC/TM	Performance Criteria and Test Methods
PCU	power conditioning unit power conversion unit
PDC	pyruvate decarboxylase
PDF	portable document format
PDFL	Photovoltaic Device Fabrication Laboratory
PDH	pyruvate dehydrogenase
PDIL	Process Development and Integration Laboratory
PDP	pressure dew point programmable digital processor
PDS	photovoltage deflection spectroscopy
PDTS	parabolic dish test site
PDU	Process Development Unit
PEAT	(NREL's) Policy and Environmental Analysis Team
PEC	Petroleum Energy Council photoelectrochemical
PE/CVD	plasma-enhanced chemical vapor deposition
PECVT	plasma-enhanced chemical vapor transport
PED	pulsed electron-beam deposition
PEF	processed engineered fuels
PEG	Program for Entrepreneurial Growth
PEI	polyethylenimine
PEL	Permissible Exposure Limit
PEM	proton exchange membrane
PEP	Photovoltaic Energy Project
PERI	Princeton Economic Research Inc.
PERT	performance and energy ratings testbed
PET	polyethylene terephthalate
PETC	Pittsburgh Energy Technology Center
PFA	prefeasibility analysis

PFBC	pressurized fluid bed combustion
PFD	process flow diagram
PFDR	point-focusing distributed receiver
PFDRT	Point-Focusing Distributed Receiver task
PFR	plug-flow reactor
PGI	Power Generating Inc. (company name, acronym preferred)
PG&E	Pacific Gas and Electric Co.
PGMase	phosphoglucomutase
PHA	poly(hexamethylene) adipamide
PHEV	plug-in hybrid electric vehicle
PI	performance indicator principal investigator
PIC	products of incomplete combustion
PICHTR	Pacific International Center for High Technology Research
P&ID	pipng and instrumentation design
PIER	Public Interest Energy Research
PIM	project integration meeting
PIMS	Process Industry Modeling System
PIN	particulate-induced noise
PING	pilot injection natural gas
PIR	products of incomplete reaction
PIRL	polyimide release layer
PIT	powder in tube
PJKK	Prince Jonah Kamehameha Kona
PKI	Power Kinetics Inc.
PL	photoluminescence
PLD	polymeric liquid desiccants pulsed laser deposition
PLS	partial least squares
PMA	Power Marketing Administration
PMASS	poly(methacrylic acid sodium salt)
PMMA	polymethylmethacrylate acrylics
PMR	proton magnetic resonance
PMRC	Pyrolysis Materials Research Consortium
PMT	photomultiplier tube
P/N	phenol/neutral
p/n fraction	phenolics and neutrals fraction
PNA	polynuclear aromatics
PNGV	Partnership for a New Generation of Vehicles
PNNL	Pacific Northwest National Laboratory
PO	performance objective
POB	Project Oversight Board
POP	period of performance
POTW	publicly owned treatment works
POX	partial oxidation reactor
PP	pentose phosphate

	polypropylene
PPA	power purchase agreement
PPBES	Planning, Programming, Budgeting, and Evaluation System
PPG	Pittsburgh Plate Glass Industries
ppmv	parts per million by volume
PPR	polypropylene random copolymer
PPS	polyphenylene sulfide
PPU	power processing unit
	Program Planning Unit
PR	Public Relations
	purchase request
P.R. China	People's Republic of China
PRDA	program research and development announcement
PRINTS	Publication Request and Inventory Tracking System
PROCER	Programa de Cooperacion en Energia Renovable
PS I	Photosystem I
PS II	Photosystem II
PSB	photosynthetic bacteria
PSC	phosphoric acid swollen cellulose
	pressure system controller
PSCo	Public Service Company of Colorado
PSCNM	Public Service Company of New Mexiso
PSI	Physical Sciences Inc.
	Pressure Systems Inc.
PSM	power sensor module
PSO	Program Secretarial Office
PSSA	polystyrene sulfonic acid
PSSAKS	polystyrene sulfonic acid potassium salt
PSSALS	polystyrene sulfonic acid lithium salt
PSSA-L	polystyrene sulfonic acid lithium salt
PSSASS	polystyrene sulfonic acid sodium salt
PSSA-Na	polystyrene sulfonic acid sodium salt
PT	potential transformer
PTC	production tax credit
	power transfer control
PTI	Power Technologies Inc.
PTL	Photovoltaic Testing Lab
PTS	phosphotransferase system
PU	polyurethane
PUC	public utility commission
PUHCA	Public Utilities Holding Company Act of 1935
PURPA	Public Utility Regulatory Policies Act
PV	photovoltaic(s)
PV4U	PV for Utilities
PVAP	pervaporation apparatus
PVB	polyvinyl butyral

PV:BONUS	Photovoltaics Building Opportunities in the United States
PVC	polyvinyl chloride
PVCCC	PV Compact Coordinating Council
PV:COMPACT	Photovoltaic Collaborative Market Project to Accelerate Commercial Technology
PVD	physical vapor deposition
PVDF	polyvinylidene fluoride
PV GAP	Photovoltaic Global Approval Program
PVMaT	Photovoltaic Manufacturing Technology
PVME	polyvinylmethylether
PVMR&D	PV Manufacturing R&D
PVP	polyvinylpyrrolidone
PVPS	photovoltaic power system
PVSA	polyvinyl sulfonic acid (sodium salt)
PVSAC	Photovoltaic Systems Assistance Center
PVSAM	PV Systems Analysis Model
PVSC	Photovoltaic Specialists' Conference
PVSEC	Photovoltaic Science and Engineering Conference
PVSOL	PV System Optimization Laboratory
PVUSA	Photovoltaics for Utility-Scale Applications
PWE	Portland Wind Electric
PWEC	prototype wave energy converter
PWECS	pneumatic wave energy conversion system
PWM	pulse-width modulated pulse-width modulation
PY	prior year
Py-MBMS	pyrolysis-molecular beam mass spectrometry

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Q

QAP	quality assurance plan
QAS	quality assurance and standards
QC/QA	quality control and quality assurance
QCM	quartz crystal microbalance
QD	quantum dot
QDLED	quantum dot light-emitting diode
QE	quantum efficiency
QF	qualifying facility
QCM	quartz crystal microbalance
QSSPC	quasi-steady-state photoconductance
QTS	qualification test system
QVM	qualified vehicle modifier
QVV	(not an acronym)

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R

RABiTS	rolling-assisted biaxially-textured substrates (coated conductor)
RAD	research and advanced development
RAM	random access memory
RAPAD	Research Association for Petroleum Alternatives Development
RBEP	Regional Biomass Energy Program
RBS	reverse bias soaking Rutherford backscattering spectroscopy
RCCP	Residential and Commercial Conservation Program
RCRA	Resource Conservation and Recovery Act
RCS	Residential Conservation Service
RCUH	Research Center of the University of Hawaii
RCPCD	resonant-coupled, photoconductive decay
R&D	research and development
RD&D	research, development, and demonstration
R&M	reliability and maintainability
RDBMS	Relational Data Base Management System
RDF	refuse-derived fuel
REA	Renewable Energy Alliance Rural Electrification Administration
REAP	Renewable Energy Alternative Program Renewable Energy Academic Partnership
REC	renewable energy certificate Renewable Energy Credit
Recovery Act	American Recovery and Reinvestment Act of 2009
REE	rapeseed ethyl ester
REEPS	Residential End-Use Energy Policy System
REETI	Renewable and Energy Efficiency Training Institute
REFAD	Renewable Energy for African Development
REI	The Renewable Energy Institute
REIA	Renewable Energy in the Americas
REIS	Renewable Energy Information Service
REP	Rotor Enhancement Program
REASIA	Renewable Energy Asia
RES	Regional Experiment Station
RET	Renewable Electric Technologies renewable energy technologies
RETA	Renewable Energy Technology Analysis
RETF	Renewable Energy Trust Fund
RETSIE	Renewable Energy Technologies Symposium and International Exposition
REV	replacement equipment value
RF	radio frequency

RFCF	Renewable Fuels and Chemicals Facility
RFCP	Renewable Fuels Central Plant
RFETS	Rocky Flats Environmental Technology Site
RFG	reformulated gasoline
RFHP	Renewable Fuel Heat Plant
RFI	Request for Information
RFMS	radio-frequency magnetron sputtering
RFP	request for proposals
	reinforced fiber plastic
RFPCD	radio frequency photo-conductive decay
RFQ	Request for Quotation
	request for qualifications
RFS	radiation and free-convection shield
	renewable fuels standard
RFVSF	Renewable Fuels & Vehicles Systems Facility
RGA	residual gas analyzer
RH	relative humidity
RHEED	reflection high-energy electron diffraction
RICP	Renewable Institutional Conservation Program
RIMS	reference irradiance and meteorological system
RITH	roof-integrated thermosiphon
RMG	refined metallurgical grade
RMI	Rocky Mountain Institute
RMOTC	Rocky Mountain Oilfields Testing Center
RMSE	root mean square error
RMT	research management team
RNA	ribonucleic acid
RO	reverse osmosis
ROG	reactive organic gas
ROI	record of invention
	return on investment
ROM	read-only memory
RON	research octane number
ROS	Renewable Oxygenate Standard
ROWPU	reverse osmosis water purification unit
RPI	Rensselaer Polytechnic Institute
RPS	renewables portfolio standard
RPV	replacement plant value
RReDC	Renewable Resource Data Center
RRSD	rough, rotten, and salvable dead (wood)
RSEP	Resource Supply Expansion Program
RSEC	Regional Solar Energy Center
RSF	Research Support Facilities
RSI	renewable systems integration
RSM	reciprocal space map
RSO	regional support office

RT	room temperature
RTA	rapid thermal annealing
RTD	regional transportation district resistance temperature device
RTEC	regenerative thermoelectrochemical converter
RTI	Research Triangle Institute
RTO	Regional Transmission Organization regional transmission operator
RTP	rapid thermal processing
RTR	ribbon-to-ribbon
RTSE	real-time spectroscopic ellipsometry
RUS	Rural Utilities Service
RVP	Reid vapor pressure

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S

SA	Saudi Arabia spark advance
SAB	Science Advisory Board
SAC	Solar America Cities
SAE	Society of Automotive Engineers
SAI	Science Applications Inc.
SAIC	Science Applications International Corp.
SAM	scanning auger microprobe System Advisor Model (formerly Solar Advisor Model)
SAMIS	Solar Array Manufacturing Industry Simulation
SAN	Department of Energy, San Francisco Operations Office
SANCST	Saudi Arabian National Center for Science and Technology
SAPRC90	Strategic Air Pollution Research Center 1990
SAR	safety analysis review
SAS	statistical analysis system Solar America Showcases
SASOL	South African Synthetic Oil Limited
SAT	site acceptance testing
SAX	small-angle x-ray
SBC	systems benefit charge
SBEP	Sustainable Biomass Energy Program
SBIC	Sustainable Buildings Industry Council
SBIR	Small Business Innovation Research
SBP	sludge bed pool
SBR	sulfate-reducing bacteria
SBTF	Single Blow Test Facility
SCADA	supervisory control and data acquisition
SCAQMD	South Coast Air Quality Management District

SCC21	Standards Coordinating Committee 21
SCCM	standard cc per minute
SCE	Southern California Edison
SC3EP	Superconductivity Coordinating Committee for Electric Power
SCECO	Saudi Central Electricity Co.
SCFD	standard cubic feet per day
SCFE	super-critical fluid extraction
SCFH	standard cubic feet per hour
SCFM	standard cubic feet per minute
SCG	Southern California Gas
SCI	San Clemente Island
SCIM	silicon on ceramic by inverted meniscus (also called SOC)
SCL	superconducting current limiter
SCLC	space-charge limited current
SCO	system control object
SCP	single cell protein
SCR	Silicon controlled rectifier
SCRTD	Southern California Rapid Transit District
SCSE	small community solar thermal power equipment
SDA	Systems-Driven Approach
SDG&E	San Diego Gas and Electric
SDHW	solar domestic hot water
SDMS	Scanning Defect Mapping System
SDP	Site Development Plan
SDS	sodium dodecyl sulfate
SDSE	sulfur dioxide steam explosion
SDSU	South Dakota State University
SDWA	Safe Drinking Water Act
SE	specific energy
SEAB	Secretary of Energy Advisory Board
SEACC	Systems Engineering Analysis Computer Code
SEC	size exclusion chromatography
SECP	State Energy Conservation Program
SED	selective electro-dissolution
SEER	seasonal energy-efficiency ratio
SEGIS	Solar Energy Grid Integration Systems
SEGS	solar electric generating systems
SEI	Solar Energy International
SEIA	Solar Energy Industries Association
SEIDB	solar energy information data bank
SEM	scanning electron microscopy
SEMRTS	Solar Energy Meteorological Research and Training Sites
SEN	Secretary of Energy Notice
SEO	state energy office
SEOR	solar enhanced oil recovery
SEP	Source Evaluation Panel

	standard energy package
	State Energy Program
SEPA	Solar Electric Power Association
SER	systems effectiveness research
SERAPH	solar energy research and applications in process heat
SERD	Solar Electric Research Division
SERDP	Strategic Environmental Research and Development Program
SERES	Southeast Regional Experiment Station
SEREF	Solar Energy Research and Education Foundation
SERF	Solar Energy Research Facility
SERI	Solar Energy Research Institute
SERP	Super-Efficient Refrigeration Program
SES	Stirling Energy Systems
SET	squeezable electron tunneling
SETP	Solar Energy Technologies Program
SFB	solar federal building
SFBP	Solar Federal Buildings Program
SFDI	solar facilities design integrator
SFES	Southern Forestry Experiment Station
SFIX	simultaneous fermentation and isomerization of xylose
SFRD	Solar Fuels Research Division
SG	semiconductor grade
	specific gravity
SGI	Silicon Graphics Interface
SGP	Southern Great Plains (site located at Lamont, Oklahoma)
SHC	solar heating and cooling
SHED	simplified home energy design
SHF	separate hydrolysis and fermentation
	sequential hydrolysis and fermentation
SHGC	solar heat gain coefficient
SHGR	Solar Hydrogen Generation Research
SHIP	Solar Heat Industrial Process
SHJ	silicon heterojunction
SHOT	Scanning Hartmann Optical Test
SHR	sensible heat ratio
SHRD	Solar Heat Research Division
SHW	solar hot water
SIAB	Science and Industries Advisory Board
SIC	Standard Industrial Classification
SIF	stress intensity factor
SILSO	(trade name for Wacker cast silicon)
SIMS	secondary ion mass spectrometry
SIMTA	Solar Industrial Mesa Test Area
SIP	state implementation plan
	structural insulated panel
SITL	Systems Interconnection Test Laboratory

SKI	Solar Kinetics Inc.
SKPM	scanning Kelvin probe microscopy
SL	superlattice
SLAC	Stanford Linear Accelerator Center
SLC	Strategic Laboratory Council
SLP	standard laboratory practice
	service life prediction
SLR	St. Lawrence Reactors
SMD	Sauter Mean Diameter
SMER	systems and materials effectiveness research
SMES	superconducting magnetic energy storage
SMIF	Standard Mechanical InterFace
SMS	strategic management system
SMSA	standard metropolitan statistical area
SMUD	Sacramento Municipal Utility District
SNARL	Sierra Nevada Aquatic Research Laboratory
SNET	Southern New England Telephone Co.
SNI	San Nicholas Island
SNL	Sandia National Laboratories
SO	Support Office
SoCAB	South Coast Air Basin
SOC	silicon or ceramic
	state of charge
SOFC	solid oxide fuel cell
SOLAR/CS	Division of Solar Applications under the Office of the Assistant Secretary for Conservation and Solar Applications
SolarDS	Solar Deployment Systems (model)
Solar PACES	Solar Power and Chemical Energy Systems
SOLMET	Solar-Meteorological
SOMES	standardized outdoor module evaluation system
SOP	safe operating procedure
SOW	statement of work
SPC	solid-phase crystallized
SPDT	single-pole, double-throw (relay)
SPH	solar process heat
SPHER	small particle heat-exchanger receiver
SPI	Superconducting Partnership Initiative
SPIE	Society of Photo-Optical Instrumentation Engineers (name changed to International Society for Optical Engineering, but acronym did not change)
SPIP	Solid Propellant Integrity Program
SPSA	small power systems applications
SPV	surface photovoltage
SQUID	superconducting quantum interference device
SR	spectral response
SRCC	Solar Rating and Certification Corp.

SRD	straight-run diesel
SRE	Subsystems Research Experiment (JPL)
SRF	Solar Radiation Facility
SRI	Stanford Research Institute
SRIC	short rotation intensive crop
SRP	Salt River Project
SRRAP	Solar Radiation Resource Assessment Project
SRRL	Solar Radiation Research Laboratory
SR&T	supporting research and testing
SRV	surface recombination velocity
SRWC	short-rotation woody crop
SSA	Source Selection Authority
SSBS	spectrally selective beam splitter
SSE	Surface Meteorology and Solar Energy (a NASA project)
SSF	simultaneous saccharification and fermentation
SSI	Shell Solar Industries
SSJ	sole source justification
SSL	spent sulfite liquor
SSMS	spark source mass spectroscopy
SSO	Safety and Security Office
SS PCM	solid-state phase-change material
SSTA	subscale test article
SSTM	spectroscopic scanning tunneling microscope
S&T	science and technology
STC	standard test conditions
STCH	solar thermochemical hydrogen
S&TF	Science & Technology Facility
STM	South Table Mountain
STAIR	Services/Transportation/Agriculture/Industry/Residential
STC	Stirling Technology Corp.
STDAC	solar thermal design assistance center
STEM	scanning transmission electron microscope
	Short Term Energy Monitoring (Project)
STEP	Solar Total Energy Project
	Sustainable Technology Energy Partnerships
STEPS	Superconductivity Technology for Electric Power Systems
STES	solar total energy systems
STI	Seacoast Test Facility
	Science and Technology Initiative
	Sonoma Technology Inc.
	Stress Technology Inc.
STIG	steam-injected gas turbine
STIP	Solar Technical Information Program
STM	scanning tunneling microscopy
	South Table Mountain
	Stirling Thermal Motors

STMPO	Solar Ten-Megawatt Project Office (Department of Energy)
STPP	Surface Transportation Policy Project
STTF	Solar Thermal Test Facility
STTFUA	Solar Thermal Test Facilities Users Association
SULEV	super-ultra-low-emission vehicle
SUNY	State University of New York
SURFRAD	Surface Radiation Budget Network
SVD	singular value decomposition
SWANA	Solid Waste Management Association of North America
SWAP	Solar Weatherization Assistance Program
SWC	surge withstand capability
SWCC	Saline Water Conservation Cooperation
SWH	solar water heating
SWL	surface-wave lamp
SWOP	solid waste options
SWRES	Southwest Regional Experiment Station
SwRI	Southwest Research Institute
SWTDI	Southwest Technology Development Institute
SWY	standard work year

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T

TA	technical assistance
TAC	Technical Advisory Committee
TAEF	tertiary-amyl ethyl ether
TAG	technical advisory group
TAHP	thermally-activated heat pump
TAME	tertiary-amyl methyl ether
TAP	thermosyphon air panels
TAPPI	Technical Association of the Pulp and Paper Industry
TBA	tertiary butyl alcohol
TBC	test-bed concentrator (JPL)
TBCCO	TiBaCaCuO
TBD	to be determined
TBFI	terrestrial biomass feedstock interface
TC	Technical Committee
	thermochemical conversion
TCA	thermal cycle annealing
TCAPP	Technology Cooperation Agreement Pilot Project
TCC	transparent conductive coating
TCDD	tetrachlorodibenzodioxin
TCDF	Technology Commercialization Development Fund
TCE	trichloroethylene
TCO	transparent conducting oxide

	Technical Communications Office
TCPDU	Thermochemical Process Development Unit
TCSC	thyristor-controlled series capacitor
TCUF	Thermochemical Users Facility
T&D	transmission and distribution
TDA	Technology Development Associates U.S. Trade and Development Agency
TDC	top dead center
TDI	toluene-diisocyanate
TDS	total dissolved solids
TDMS	thermal-desorption mass spectrometry
TEA	technical and economic assessment
TE-21	Transportation Equity Act of the 21st Century
TEAM	Transformational Energy Action Management Initiative
TEAM-UP	Technology Experience to Accelerate Markets in Utility Photovoltaics
TEC	Technology Extension Center total energy cycle
TEI	Technology Evaluation and Integration
TEM	transmission electron microscopy technical exchange meeting
TEO	Territorial Energy Office
TEP	Technical Evaluation Panel Technical Evaluation and Planning Tucson Electric Power
TES	thermal energy storage
TESS	trajectory and evaporation of spray systems
TEST	thermal energy storage and transport
TFP	thick-film paste
TGA	thermogravimetric analysis
THA	total hydrocarbon analyzer
THC	total hydrocarbon
TIC	Technical Information Center total ion current total installed cost
TIFR	Tata Institute of Fundamental Research
TIO	Technology Improvement Opportunity
TIP	Technical Information Program
TISES	Texas Instruments Solar Energy System
THAMA	Toxic and Hazardous Materials Agency (U.S. Army)
THF	tetrahydrofuran
TLC	thin-layer chromatography
TLEV	transitional low-emission vehicle
TMA	thermomechanical analysis trimethylamine
TMBMS	transportable molecular beam mass spectrometer
TMF	Technology Maturation Fund

TMT	tetramethyltin
TMY	typical meteorological year
TO	transverse optical
TOA	task ordering agreement
TOC	total organic carbon
TOF	time of flight
TOP	theoretical overlay photographic
TOPO	trioctylphosphine oxide
TOU	time of use
TPD	tons per day
	temperature-programmed desorption
TPI	technical program integrator
TPP	Technology Pathway Partnership
TPV	thermophotovoltaic
TQM	total quality management
TQ&Q	technical qualitative and quantitative (used with evaluation)
TQQR	technical quantitative and qualitative review
TR	tandem reactor
TRAC	Teachers Research Associates Program
TRB	Transportation Research Board
TRC	Technical Review Committee
	Transportation Research Center
TRES	thermally regenerative electrochemical system
TRI	Trucking Research Institute
TRNSYS	TRaNsient SYstem Simulation Program
TRP	Technology Reinvestment Program
TRPL	time-resolved photoluminescence
TRT	technical review team
TSARC	Thermal Storage Applications Research Center
TSB	tryptic soy broth
TSC	Technical Steering Committee
TSCAP	thermally stimulated capacitance
TSRF	Translational Science Research Facility
TTCAP	Tiger Team Corrective Action Plan
TTCG	Technology Transfer Coordinating Group
TTF	Thermal Test Facility
TTO	Technology Transfer Office
TTPG	Technology Transfer Project Group (DOE)
TVA	Tennessee Valley Authority
TW	terrawatt
TWES	Tornado Wind Energy System
TWP	Tropical Western Pacific
TU	toxicity unit
TVMI	Technology Validation and Market Introduction
TVP	turbine verification program
TYSP	Ten-Year Site Plan

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U

UBECA	Utility Biomass Energy Commercialization Association
UBS	ultraviolet backscattering utility battery storage
UCB	University of California, Berkeley
UCETF	Urban Consortium Energy Task Force
UCLA	University of California, Los Angeles
UCR	University of California, Riverside
UDDS	urban dynamometer driving schedule
UDRI	University of Dayton Research Institute
UEGO	universal exhaust gas oxygen
UESC	Utility Energy Services Contracting
UF	ultrafiltration
UGPase	UDP-glucose pyrophosphorylase
UH	University of Hawaii
UHF	ultrahigh frequency
UHV	ultrahigh vacuum
UL	Underwriters Laboratories
ULEV	ultra-low-emission vehicle
ULRF	University of Louisville Research Foundation
UMTA	Urban Mass Transit Authority
UN	United Nations
UNC	University of North Carolina
UNCF	United Negro College Fund
UNDESA	United Nations Department of Economic and Social Affairs
UNDP	United Nations Development Program
UNEP	United Nations Environmental Program
UNESCO	United Nations Educational, Scientific, and Cultural Organization
UNL	University of Nebraska at Lincoln
UNLV	University of Nevada Las Vegas
UNM/ME	University of New Mexico Mechanical Engineering Department
U of L	University of Louisville
UPC	Utility Power Control
UPG	Utility Power Group
UPS	ultraviolet photoelectron spectroscopy United Parcel Service
UPVG	Utility PhotoVoltaic Group
URRA	Utility Renewable Resources Association
US	utility scale
USABC	United States Advanced Battery Consortium
USAID	United States Agency for International Development
USCAR	U.S. Council for Automotive Research

USDA	United States Department of Agriculture
US/EC	United States/European Communities
USGBC	U.S. Green Building Council
USGS	U.S. Geological Survey
USH2O	U.S. Solar Hot Water Initiative
USIA	United States Information Administration
USSC	United Solar Systems Corp.
USW	U,S, Windpower
UT	universal time
UTEP	University of Texas at El Paso
UTRC	United Technologies Research Center
UTS	Utility Tracking System (database)
UURI	University of Utah Research Institute
UV	ultraviolet
UWIG	Utility Wind Interest Group
U*WRAP	Utility Wind Resource Assessment Program

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V

V&V	verification and validation
VA	Veterans Administration
VAC	volt alternating current
VAR	volt ampere reactive
VASE	variable-angle spectroscopic ellipsometry
VAV	variable air volume
VAWT	vertical-axis wind turbine
VB	valence band
VBM	valence band maximum
VCE	vacuum chemical epitaxy
VCI	variable conductance insulation
VE	Value Engineering
VET	value-engineered turbine
VFA	volatile fatty acid
VFD	variable-frequency drive
VFV	variable-fuel vehicle
VHF	very high frequency
VITA	Volunteers in Technical Assistance
VMT	vehicle miles traveled
VOC	volatile organic compounds
VoIP	voice-over Internet protocol
VPA	vertical plane array
VPE	vapor-phase epitaxy
VSCAP	voltage stimulated capacitance
VSCF	variable speed, constant frequency

VSGS	variable speed generation system
VSHOT	Video Scanning Hartmann Optical Test
VSM	vibrating sample magnetometers
VT	visible transmittance
VTD	vapor transport deposition
VTT	(Technical Research Centre of Finland, a technical research company in Finland; don't spell out)
VVM	vessel volumes per minute

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W

WAM	Weatherization Audit for Mobile Homes (software)
WAP	Weatherization Assistance Program
WAPA	Western Area Power Administration
WCEF	Wind Conference and Education Facility
WCPEC	World Conference on Photovoltaic Energy Conversion
WDS	wavelength dispersive mode
WEATS	Wind Energy Applications Training Seminar
WEBS	Wind Energy Battery System
WEC	WhiteWater Energy Corp.
WECS	wind energy conversion system
WEEC	World Energy Engineering Conference
WERC	Wind Energy Research Center
WES	wind energy system
WETAC	Wind Energy Technology Assistance Center
WETC	Wind Energy Test Center
WFO	work for others
WGA	Western Governors' Association
WHSV	weight-hourly space velocity
WIFE	Women in Farm Economics
WIP-I	Weatherization and Intergovernmental Program-International
WISEM	Women in Science, Engineering, and Mathematics
WLVEC	water low velocity energy converter
WMO	World Meteorological Organization
WOM	weatherometer
WOT	wide-open throttle
WPA	work package authorization
WPP	work package proposal
WPRS	Water and Power Resources Service (Bureau of Reclamation, DOI)
WRDC	World Radiation Data Center
WREC	World Renewable Energy Congress
WRR	World Radiometric Reference
WSHP	water source heat pump
WSMF	Wind Staging and Maintenance Facility

WSRIC	Waste Stream and Residue Identification and Characterization Report
WSSF	White Sands Solar Furnace
WTAP	Wind Technology Application Projects
WTC	Wind Turbine Co.
WTE	waste to energy
WVTR	water vapor transport rate
WYEC	Weather Year for Energy Calculations

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X

XDH	xylitol dehydrogenase
XI	xylose isomerase (plasmid)
XPS	X-ray photoelectron spectroscopy
XR	xylose reductase
XRD	X-ray diffraction

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Y

YAG	yttrium aluminum garnet
YBCO	YBa ₂ Cu ₃ O ₇ (yttrium barium copper oxide)
YDR	yield, durability, and reliability
YE	yeast extract
YNB	yeast nitrogen base

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Z

ZEB	zero-energy building
ZEH	zero-energy homes
ZEV	zero-emission vehicles
ZMR	zone-melt-recrystallization

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Computer Codes

ABSORB	INTFAC
ACA	LENGTH
ADAMS	LOTUS
ALEST	MAPINFO
AMPS	MINSUN
ASPEN	NASTRAN
BASIC	PASCAL
BLAST	PHI
BLK	POWERE
CDC	POWERT
COBOL	PRISM
CPE-Tools (Chemical Process Economics Tools)	PROPPC
DELSOL	QABS
DOE2	REFLCT
DSOL	ROSET
DYNA 3D	SELFSH
EDGE	SEPS
EDNLS	SERIRES
ENRIMS	SHADOW
ERDAS	SOL
ETASC	SOLBUG
FIELD	SOLIPH
FINAM	SOLPOND
FLAP	THETA
FORTRAN	TRANS
FRAC	TRNSYS
GENPRO	TSTEP
HNRIS	ULMOD
HRANG	U*WRAP
HISTO	WAM
IAMOD1	WTP
INANGI	WTPDAT
	WTPREAD