



# Wind Energy Acronyms

[Section] 48C	The part of the 2009 Stimulus Act that established a 30% investment tax credit for manufacturers of clean energy products to retool, expand or open new manufacturing facilities	CFC	National Rural Utilities Cooperative Finance Corporation
[Section] 1603	The part of the 2009 Stimulus Act that established a 30% grant in lieu of an investment tax credit in lieu of the production tax credit, thus mobilizing financing for the industry	CFC	ChloroFluoroCarbons (an Ozone Depleting Substance)
[Section] 9006	The part of the 2002 Farm Bill that establishes a grant program to help farmers and rural small businesses to buy renewable energy technologies such as small wind	CFD	Contract for Differences
ACE	Area Control Error	CH <sub>3</sub> Br	Methyl Bromide (an Ozone Depleting Substance)
ACENY	Alliance for Clean Energy New York	CH <sub>3</sub> CCl <sub>3</sub>	Methyl Chloroform (an Ozone Depleting Substance)
ACORE	American Council on Renewable Energy	CH <sub>4</sub>	Methane (1 of 6 Kyoto greenhouse gases)
AEP	Annual Energy Production	CO <sub>2</sub>	Carbon Dioxide (1 of 6 greenhouse gases)
AGA	American Gas Association	COD	Commercial Operation Date
AGC	Automatic Generation Control	CPC	Certificate of Public Convenience
ALM	Active Load Management	CREB	Clean Renewable Energy Bond
AMT	Alternative Minimum Tax	CREZ	Competitive Renewable Energy Zone
ANPR	Advance Notice of Proposal Rulemaking	CT	Combustion Turbine
APPA	American Public Power Association	Ct	Thrust Coefficient
ASI	Above Sea Level	DEP	Diurnal Energy Production
ASOS	Automated Surface Observing System	DFIG	Doubly-Fed Induction Generator
ATC	Available Transfer Capability	DHS	Department of Homeland Security
AWEA	American Wind Energy Association	DOD	Department of Defense
BA	Balancing Area	DOE	Department of Energy
BACT	Best Available Control Technology	DOT	Department of Transportation
Bcf	Billion cubic feet (of gas)	DSCR	Debt Service Coverage Ratio
BLM	Bureau of Land Management	E10	10% Ethanol
BOP	Balance of Plant	E85	85% Ethanol
BPA	Bonneville Power Administration	ECAR	East Central Area Reliability Coordinating Agreement
Btu	British Thermal Unit (1000 Btu = 1 cubic foot of gas)	EEL	Edison Electric Institute
BWEC	Bats & Wind Energy Cooperative	EHS	Employee Health & Safety
CAIR	Clean Air Interstate Rule	EIPC	Eastern Interconnection Planning Collaborative
CAISO	California Independent System Operator	EIR	Environmental Impact Report
CAMR	Clean Air Mercury Rule	EIS	Environmental Impact Study
CanWEA	Canadian Wind Energy Association	ELCC	Effective Load-Carrying Capacity
CAPX	Capital Expenditures	ENSO	El Nino / Southern Oscillation
CCGT	Combined Cycle Gas Turbine	EPA	Environmental Protection Agency
CCl <sub>4</sub>	Carbon TetraChloride (an Ozone Depleting Substance)	EPC	Engineering, Procurement, and Construction
CDEAC	Clean and Diversified Energy Advisory Committee	EOI	Expression of Interest
CDF	Computational Fluid Dynamics	ERCOT	Electric Reliability Council of Texas
CEERT	The Center for Energy Efficiency and Renewable Technologies	EWEA	European Wind Energy Association
CEQA	California Environmental Quality Act	EWITS	Eastern Wind Integration and Transmission Study
Cf	Cubic foot (of gas)	EWTS	European Wind Turbine Standard
CF	Capacity Factor	FAA	Federal Aviation Administration
CFB	Circulating Fluidized Bed	FERC	Federal Energy Regulatory Commission
		FFT	Fast Fourier Transform
		FRCC	Florida Reliability Coordinating Council
		FTR	Financial Transmission Right
		GHG	Greenhouse Gas
		GL	Germanischer Lloyd (certification body)
		GOES	Geostationary Operations Environmental Satellites
		GPS	Global Positioning System
		GWEC	Global Wind Energy Council

GW	Gigawatt	M/S	Meters Per Second
GWh	Gigawatt Hour	MTEP	MISO Transmission Expansion Plan
GWP	Global Warming Potential (CO <sub>2</sub> = 1 and SF <sub>6</sub> = 22,200)	MTSA	Master Turbine Supply Agreement
Halons	BromoFluoroCarbons (an Ozone Depleting Substance)	MW	Megawatt
HAWT	Horizontal-Axis Wind Turbine	MWh	Megawatt hour
HCFC	HydroChloroFluoroCarbons (a greenhouse gas)	N <sub>2</sub> O	Nitrous Oxide (1 of 6 Kyoto greenhouse gases)
HVDC	High Voltage Direct Current	NAO	North Atlantic Oscillation
HFC	Hydro Fluoro Carbons (1 of 6 Kyoto greenhouse gases)	NARR	North American Regional Re-analysis
I&C	Instrumentation and Controls	NARUC	National Association of Regulatory Utility Commissioners
IAD	Inter-Annual Variation	NCEP	National Centers for Environmental Prediction
IBL	Internal Boundary Layer	NEPA	National Environmental Policy Act
ICAP	Installed Capacity	NERC	North American Electric Reliability Corporation
ICT	Independent Coordinator of Transmission	NESC	National Electrical Safety Code
IE	Independent Engineer	NESDIS	National Environmental Satellite, Data, and Information Service
IEA	International Energy Agency	NERC	North American Electric Reliability Council
IEC	International Electrotechnical Commission	NEXRAD	Next Generation Weather Radar
IEEE	Institute of Electrical and Electronics Engineers	NIMBY	Not-IN-My-Back-Yard
IGCC	Integrated Gasification Combined Cycle	NGSA	Natural Gas Supply Association
IIPP	Injury and Illness Prevention Program	NOx	Nitrogen oxides
INGA	Interstate Natural Gas Association	NOPR	Notice of Proposed Rulemaking (by the FERC)
IRP	Integrated Resource Planning	NPDES	National Pollutant Discharge Elimination System
IOU	Investor Owned Utility	NRECA	National Rural Electric Cooperative Association
IPO	Initial Public Offering	NREL	National Renewable Energy Laboratory
IPP	Independent Power Producer	NWCC	National Wind Coordinating Collaborative
IRR	Internal Rate of Return	NYISO	New York Independent System Operator
ISO	Independent System Operator	NYSERDA	New York State Energy Research and Development Authority
ITC	Investment Tax Credit (usable up-front by consumers)	O <sub>3</sub>	Ozone (a greenhouse gas)
JCSP	Joint Coordinated System Plan	O&M	Operations and Maintenance
JPO	Joint Program Office	OATT	Open Access Transmission Tariff
kPa	Kilopascals	ODS	Ozone Depleting Substance
kW	Kilowatt	OEM	Original Equipment Manufacturer
kWh	Kilowatt hour	OPTF	Ocean Policy Task Force
LC	Letter of Credit	OPX	Operations Expenditures
LD	Liquidated Damages	P&L	Profit and Loss
LIDAR	Light Detection and ranging	PCIP	Principal Controlled Insurance Program
LIOWI	Long Island Offshore Wind Initiative	PDO	Pacific Decadal Oscillation
LLC	Limited Liability Company	PEIS	Programmatic EIS
LLP	Limited Liability Partnership	PFC	PerFluoroCarbons (1 of 6 Kyoto greenhouse gases)
LNG	Liquid Natural Gas	PIP	Public Involvement Program
LOLP	Loss of Load Probability	PJM	Pennsylvania-New Jersey-Maryland Interconnection
LOT	Letter of Intent	PM	Periodic Maximum
LOTO	Lockout-Tag out	POT	Peak over Threshold
LPG	Liquid Petroleum Gas	PPA	Power Purchase Agreement
LTA	Lost Time Accidents	PPE	Personal Protective Equipment
LVRT	Low Voltage Ride-Through	PSD	Prevention of Significant Deterioration
MAAC	Mid-Atlantic Area Council	PSI	Pounds per square inch
MAIN	Mid-American Interconnected Network	PSIA	PSI absolute
MAPP	Mid-Continent Area Power Pool	PSIG	PSI gauge
MAREC	Mid Atlantic Renewable Energy Coalition	PSS	Preliminary Scoping Statement
Mcf	Thousand cubic feet (of gas)	PTC	Production Tax Credit
MEP	Monthly Energy Production	PUC	Public Utilities Commission
METAR	Meteorological Aerodrome Report	PUHCA	Public Utilities Holding Company Act
MISO	Midwest Independent System Operator		
MMBtu	Million Btu (equals 1 Mcf gas)		
MMS	Minerals Management Service		
MOU	Memorandum of Understanding		
MRO	Midwest Reliability Organization		

PURPA	Public Utility Regulatory Policies Act	SONAR	Sound Navigation and Ranging
PVC	PolyVinylChloride	SOW	Scope Of Work
QC	Quality Control	SPP	Southwest Power Pool
Quad	Quadrillion Btu	$\sigma$	Standard Error
RADAR	Radio Detection and Ranging	SWCC	Small Wind Certification Council
RASS	Radio Acoustic Sounding System	TCEQ	Texas Commission on Environmental
RAWS	Remote Automated Weather System	Quality	
RD	Rotor Diameter	Tcf	Trillion cubic feet (of gas)
REC	Renewable Energy Credit	TI	Turbulence Intensity
REC	Rural Electric Cooperative	TSA	Turbine Supply Agreements
RES	Renewable Electricity Standard	UCAP	Unforced Capacity (a modification of Installed Capacity)
RENEW	RENEW New England		Uncertainty
RGGI	Regional Greenhouse Gas Initiative	$\xi$	Uniform Resource Locator
RIX	Roughness Index	URL	United States Army Corps Engineers
RMATS	Rocky Mountain Area Transmission Study	USACE	US Fish & Wildlife Service
RMR	Reliability – Must-Run	USFWS	United States Offshore Wind
RNP	Renewable Northwest Project	USOWC	
ROI	Return on Investment	Collaborative	
ROW	Right of Way	UTM	Universal Transverse Mercator
RPS	Renewables Portfolio Standard	UWIG	Utility Wind Integration Group
RRO	Regional Reliability Organization	VAWT	Vertical-Axis Wind Turbine
RTO	Regional Transmission Organization	WAPA	Western Area Power Administration
QF	Qualifying Facility	WECC	Western Electricity Coordinating Council
S/S	Substation	WFMS	Wind Farm Management System
SAR	Synthetic Aperture Radar	WGA	Western Governors' Association
SCADA	Supervisory Control And Data Acquisition	WOW	Wind on the Wires
SD	Standard Deviation	WRA	Wind Resources Area
SERC	Southeastern Electric Reliability Council	WREZ	Western Renewable Energy Zone
SF <sub>6</sub>	Sulfur HexaFluoride (1 of 6 Kyoto greenhouse gases)	WTG	Wind Turbine Generator
SN	Serial Number	WWSIS	Western Wind and Solar Integration Study
SO <sub>2</sub>	Sulfur Dioxide		
SODAR	Sonic Detection and Ranging		