



Wind Energy Acronyms

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| [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 ₃ Br | Methyl Bromide (an Ozone Depleting Substance) |
| ACENY | Alliance for Clean Energy New York | CH ₃ CCl ₃ | Methyl Chloroform (an Ozone Depleting Substance) |
| ACORE | American Council on Renewable Energy | CH ₄ | Methane (1 of 6 Kyoto greenhouse gases) |
| AEP | Annual Energy Production | CO ₂ | 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) | EI | 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 ₄ | 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 |

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|--------|---|------------------|---|
| GW | Gigawatt | M/S | Meters Per Second |
| GWh | Gigawatt Hour | MTEP | MISO Transmission Expansion Plan |
| GWP | Global Warming Potential (CO ₂ = 1 and SF ₆ = 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 ₂ 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 ₃ | 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 | | |

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|-----------------|--|---------------|---|
| 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 | σ | 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 | ξ | Uncertainty |
| RGGI | Regional Greenhouse Gas Initiative | URL | Uniform Resource Locator |
| RIX | Roughness Index | USACE | United States Army Corps Engineers |
| RMATS | Rocky Mountain Area Transmission Study | USFWS | US Fish & Wildlife Service |
| RMR | Reliability – Must-Run | USOWC | United States Offshore Wind |
| RNP | Renewable Northwest Project | Collaborative | |
| ROI | Return on Investment | UTM | Universal Transverse Mercator |
| ROW | Right of Way | UWIG | Utility Wind Integration Group |
| RPS | Renewables Portfolio Standard | VAWT | Vertical-Axis Wind Turbine |
| RRO | Regional Reliability Organization | WAPA | Western Area Power Administration |
| RTO | Regional Transmission Organization | WECC | Western Electricity Coordinating Council |
| QF | Qualifying Facility | WFMS | Wind Farm Management System |
| S/S | Substation | WGA | Western Governors' Association |
| SAR | Synthetic Aperture Radar | WOW | Wind on the Wires |
| SCADA | Supervisory Control And Data Acquisition | WRA | Wind Resources Area |
| SD | Standard Deviation | WREZ | Western Renewable Energy Zone |
| SERC | Southeastern Electric Reliability Council | WTG | Wind Turbine Generator |
| SF ₆ | Sulfur HexaFluoride (1 of 6 Kyoto greenhouse gases) | WWSIS | Western Wind and Solar Integration Study |
| SN | Serial Number | | |
| SO ₂ | Sulfur Dioxide | | |
| SODAR | Sonic Detection and Ranging | | |