

## Acronym and Abbreviation List

ADT	Average daily traffic
AMSL	Above mean sea level
APE	Area of Potential Effects
APLIC	Avian Power Line Interaction Committee
APMs	Applicants' Proposed Measures
ABPP	Avian and Bat Protection Plan
Applicants	Basin Electric Power Cooperative and PrairieWinds SD1, Incorporated
AR	Administrative Rule
AWEA	American Wind Energy Association
BA	Biological Assessment
Basin Electric	Basin Electric Power Cooperative
BCC	Birds of Conservation Concern
BGEPA	Bald and Golden Eagle Protection Act
bgs	Below ground surface
BIA	Bureau of Indian Affairs
BLM	Bureau of Land Management
BMPs	Best Management Practices
CEQ	Council on Environmental Quality
CFR	Code of Federal Regulations
CO	Carbon monoxide
CO <sub>2</sub>	Carbon dioxide
CR	County Road
CRP	Conservation Reserve Program
CWA	Clean Water Act
dB	Decibel
dBA	A-weighted decibel
DEIS	Draft Environmental Impact Statement
DENR	Department of Environment and Natural Resources
DOE	U.S. Department of Energy
DR	Department Regulation
EIA	Energy Information Administration
EIS	Environmental Impact Statement
EMF	Electric and magnetic fields
EPA	U.S. Environmental Protection Agency
ESA	Endangered Species Act
FAA	Federal Aviation Administration
FEIS	Final Environmental Impact Statement
FEMA	Federal Emergency Management Agency
FERC	Federal Energy Regulatory Commission
FIRM	Flood insurance rate map
FPPA	Farmland Protection Policy Act
FR	<i>Federal Register</i>
FSA	Farm Service Agency

G	Gauss
Gal	Gallon
GHG	Greenhouse Gas
GIS	Geographic Information System
GPA	Game Production Areas
Hz	Hertz
I	Interstate
IEC	International Electrotechnical Commission
IPCC	Intergovernmental Panel on Climate Change
Intertribal COUP	Intertribal Council on Utility Policy
K	Soil erodibility factor
KOP	Key Observation Point
kV	Kilovolt
kWh	Kilowatt Hour
LCIC	Lewis and Clark Interpretive Center
LCTDR	Lewis and Clark Trail Driving Route
L <sub>dn</sub>	Day-night average sound level
L <sub>eq(1-h)</sub>	The sound equivalency over 1 hour
L	Liter
LGIA	Large Generator Interconnection Agreement
LGIP	Large Generator Interconnection Procedures
MBTA	Migratory Bird Treaty Act
mG	Milligauss
MISO	Midwest Independent Transmission System Operator
MOA	Memorandum of Agreement
mph	Miles per hour
μT	Microtesla
MW	Megawatt
MWh	Megawatt-hours
NAAQS	National Ambient Air Quality Standards
NAGPRA	Native American Graves Protection and Repatriation Act
NEPA	National Environmental Policy Act
NHPA	National Historic Preservation Act
NHT	Lewis and Clark National Historic Trail
NOAA Fisheries	National Oceanic and Atmospheric Administration Fisheries
NO <sub>2</sub>	Nitrogen dioxide
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
NPS	National Park Service
NRCS	Natural Resources Conservation Service
NREL	National Renewable Energy Laboratory
NRHP	National Register of Historic Places
NWI	National Wetlands Inventory
O <sub>3</sub>	Ozone
O&M	Operation and maintenance
OSHA	Occupational Safety and Health Administration

Pb	Lead
PII	Potential Impact Index
PM <sub>2.5</sub>	Particulate matter less than 2.5 microns in diameter
PM <sub>10</sub>	Particulate matter less than 10 microns in diameter
PPR	Prairie Pothole Region
PrairieWinds	PrairieWinds SD1, Incorporated
Proposed Project	Proposed South Dakota PrairieWinds Project
PSA	Power Supply Analysis
RE Act	Rural Electrification Act
REOs	Renewable Energy Objectives
ROD	Record of Decision
ROI	Region of Influence
RPS	Renewable Portfolio Standards
RSA	Rotor Sweep Area
RUS	Rural Utilities Service
SCADA	Supervisory control and data acquisition
SDAAQS	South Dakota Ambient Air Quality Standards
SDCL	South Dakota Codified Laws
SDDL	South Dakota Department of Labor
SDDOT	South Dakota Department of Transportation
SDDPR	South Dakota Division of Parks and Recreation
SDGFP	South Dakota Game, Fish and Parks
SDGS	South Dakota Geological Survey
SDNHP	South Dakota Natural Heritage Program
SDOC	South Dakota Office of Climate
SDPUC	South Dakota Public Utilities Commission
SF <sub>6</sub>	Sulfur hexafluoride
SGIA	Small Generator Interconnection Agreement
SGIP	Small Generator Interconnection Procedures
SHPO	State Historic Preservation Office
sle	Super long extreme
SO <sub>2</sub>	Sulfur dioxide
SPCC	Spill Prevention Control and Countermeasures Plan
SR	State Route
SSURGO	Soil Survey Geographic Database
SUP	Special Use Permit
SWPPP	Storm Water Pollution Prevention Plan
T	Tesla
Tariff	Open Access Transmission Tariff
TCP	Traditional Cultural Properties
TSS	Total suspended solids
USACE	U.S. Army Corps of Engineers
U.S.C.	U.S. Code
USDA	U.S. Department of Agriculture
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey

US	U.S. Highway
V/m	Volts per meter
WEST	Western EcoSystems Technology, Inc.
Western	Western Area Power Administration
WMD	Wetland Management District
WPA	Waterfowl Production Areas
WRAN	Wind Resource Assessment Network
WUS	Waters of the U.S.

# Metric Conversions

## Metric Prefixes

Prefix	Symbol	Multiplication Factor
mega-	M	1 000 000 = $10^6$
kilo-	k	1 000 = $10^3$
deci-	d	0.1 = $10^{-1}$
milli-	m	0.001 = $10^{-3}$
micro-	$\mu$	0.000 001 = $10^{-6}$

## Conversion Chart

If You Know	To Convert into Metric,		If You Know	To Convert into English,	
	Multiply By	To Get		Multiply By	To Get
<b>Length</b>					
inch	2.54	centimeter	centimeter	0.3937	inch
feet	30.48	centimeter	centimeter	0.0328	feet
feet	0.3048	meter	meter	3.281	feet
yard	0.9144	meter	meter	1.0936	yard
mile	1.60934	kilometer	kilometer	0.62414	mile
<b>Area</b>					
acre	0.40469	hectare	hectare	2.471	acre
square mile	2.58999	square kilometer	square kilometer	0.3861	square mile
<b>Volume</b>					
gallon	3.7854	liter	liter	0.26417	gallon
gallon	0.0039	cubic meter	cubic meter	256.14	gallon
cubic yard	0.76455	cubic meter	cubic meter	1.308	cubic yard
<b>Temperature</b>					
Fahrenheit	subtract 32, then multiply by 5/9	Celsius	Celsius	multiply by 9/5, then add 32	Fahrenheit

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