

Application for a Certificate of Environmental Compatibility and Public Need Pursuant to Article 10 of the New York State Public Service Law

North Side Energy Center

Towns of Massena, Brasher, and Norfolk, St. Lawrence County, New York

Case No.: 17-F-0598

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Table of Contents

Exhibits

- Exhibit 1. General Requirements
- Exhibit 2. Overview and Public Involvement
- Exhibit 3. Location of Facilities
- Exhibit 4. Land Use
- Exhibit 5. Electric System Effects
- Exhibit 6. Wind Power Facilities
- Exhibit 7. Natural Gas Power Facilities
- Exhibit 8. Electric System Production Modeling
- Exhibit 9. Alternatives
- Exhibit 10. Consistency with Energy Planning Objectives
- Exhibit 11. Preliminary Design Drawings
- Exhibit 12. Construction
- Exhibit 13. Real Property
- Exhibit 14. Cost of Facilities
- Exhibit 15. Public Health and Safety
- Exhibit 16. Pollution Control Facilities
- Exhibit 17. Air Emissions
- Exhibit 18. Safety and Security
- Exhibit 19. Noise and Vibration
- Exhibit 20. Cultural Resources
- Exhibit 21. Geology, Seismology, and Soils
- Exhibit 22. Terrestrial Ecology and Wetlands
- Exhibit 23. Water Resources and Aquatic Ecology
- Exhibit 24. Visual Impacts
- Exhibit 25. Effect on Transportation
- Exhibit 26. Effect on Communications
- Exhibit 27. Socioeconomic Effects
- Exhibit 28. Environmental Justice
- Exhibit 29. Site Restoration and Decommissioning
- Exhibit 30. Nuclear Facilities
- Exhibit 31. Local Laws and Ordinances

Exhibit 32. State Laws and Regulations
Exhibit 33. Other Applications and Filings
Exhibit 34. Electric Interconnection
Exhibit 35. Electric and Magnetic Fields
Exhibit 36. Gas Interconnection
Exhibit 37. Back-Up Fuel
Exhibit 38. Water Interconnection
Exhibit 39. Wastewater Interconnection
Exhibit 40. Telecommunications Interconnection
Exhibit 41. Applications to Modify or Build Adjacent

Figures

Figure 1-1. Regional Project Location
Figure 2-1. Project Area and Study Area
Figure 3-1. Project Component Locations
Figure 4-1. Existing Land Use
Figure 4-2. Existing Utility Locations
Figure 4-3. Tax Parcels
Figure 4-4. Zoning Map
Figure 4-5. Specially Designated Areas
Figure 4-6. Agricultural Use Within the Study Area
Figure 4-7. Recreational and Other Sensitive Land Uses
Figure 4-8. Aerial Photography of the Study Area
Figure 4-9. Farmland Classifications of the Project Area
Figure 13-1. Real Property Map of Generating Site and Interconnection Facilities
Figure 15-1. Public Health and Safety
Figure 15-2. Receptor Locations
Figure 21-1. Existing Slopes
Figure 21-2. Soil Types
Figure 21-3. Bedrock
Figure 21-4. Seismic Hazards
Figure 21-5. Mines/Quarries and Oil/Gas Wells
Figure 22-1. Plant Communities of the Project Area
Figure 22-2. Plant Communities within 500 feet of Disturbance

Figure 22-3. Delineated Wetlands and Streams
Figure 22-4. Impacts to Wetlands and Streams
Figure 22-5. Mapped Wetlands
Figure 22-6. Potential Blanding's Turtle Habitat
Figure 22-7. Wildlife Mapping
Figure 23-1. Depth to High Groundwater
Figure 23-2. Ground Water Aquifers and Recharge Areas
Figure 23-3. Approximate Private Well Locations
Figure 23-4. Surface Waters
Figure 28-1. Census Block Groups and Potential Environmental Justice Areas in the Vicinity of
the Project
Figure 35-1. Nearest Residence to Overhead Connection

Appendices

Appendix 1-1. Certificate of Formation
Appendix 2-1. Solar Panel Data Sheets
Appendix 2-2. Inverter Data Sheets
Appendix 2-3. PIP Meeting Log
Appendix 2-4. Stakeholders List
Appendix 2-5. Informational Mailer
Appendix 5-1. System Reliability Impact Study
Appendix 5-2. Substation Design Criteria
Appendix 5-3. Preliminary Operations and Maintenance Plan
Appendix 8-1. Production Modeling Analysis
Appendix 11-1. Preliminary Design Drawings
Appendix 12-1. Quality Assurance and Quality Control Plan
Appendix 12-2. NextEra Energy Major Duties & Accountability Matrix
Appendix 12-3. Complaint Resolution Plan
Appendix 13-1. Survey of Properties Leased by the Applicant
Appendix 13-2. Demonstration that the Applicant has Obtained Rights in the Project Area
Appendix 14-1. Estimated Cost of Facilities
Appendix 18-1. Site Security Plan
Appendix 18-2. Preliminary Emergency Response Plan
Appendix 19-1. List of Sound Receptors

Appendix 19-2. Pre-construction Sound Level Measurement Program	
Appendix 19-3. Construction Modeled Sound Levels	
Appendix 19-4. Annual Daytime-Nighttime Calculations	
Appendix 19-5. List of Modeled Sound Sources	
Appendix 19-6. Project-Only Modeled Sound Levels – 1-Hour L_{eq}	
Appendix 19-7. Cumulative Modeled Sound Levels – 1-Hour L_{eq}	
Appendix 19-8. Total Future Sound Levels – Modeled Project Plus Measured Background – 1-Hour L_{eq}	
Appendix 19-9. Sound Monitoring and Compliance Protocol	
Appendix 20-1. Phase IA/IB Archaeological Survey and Sensitivity Assessment	
Appendix 20-2. Agency Project Related Correspondence	
Appendix 20-3. Historic Architectural Resources Survey and Effects Report	
Appendix 21-1. Geotechnical Engineering Report	
Appendix 21-2. Inadvertent Return Plan	
Appendix 21-3. Preliminary Blasting Plan	
Appendix 22-1. Plant and Wildlife Inventory List	
Appendix 22-2. Breeding Bird Surveys	
Appendix 22-3. Winter Raptor Surveys	
Appendix 22-4. Grassland Breeding Birds Cumulative Impacts Assessment	
Appendix 22-5. Wetland and Stream Delineation Report	
Appendix 22-6. Wetland Functions and Values Assessment	
Appendix 22-7. Invasive Species Management and Control Plan	
Appendix 22-8. Agency Correspondence	
Appendix 22-9 Net Conservation Benefit Plan for State-Listed Grassland Birds	
Appendix 23-1. Agency Correspondence	
Appendix 23-2. Private Water Well Survey and Responses	
Appendix 23-3. Preliminary Stormwater Pollution Prevention Plan	
Appendix 24-1. Visual Impact Assessment	
Appendix 24-2. Glint and Glare Analysis	
Appendix 25-1. Sight Distance Diagram and AASHTO Tables	
Appendix 25-2. Emergency Access Routes	
Appendix 25-3. NYSDOT Average Annual Daily Traffic (AADT) Volumes	
Appendix 25-4. Accident Summary Data 2017-2019	
Appendix 25-5. School Bus Routes and Transit Routes	

Appendix 25-6. Construction Access Routes

Appendix 25-7. Highway Capacity Software (HCS) Level of Service Output

Appendix 25-8. Posted Bridge Data

Appendix 25-9. Truck Turning Templates

Appendix 29-1. Decommissioning and Restoration Plan

Appendix 31-1. Town of Massena Zoning Code (2009)

Appendix 31-2. Town of Massena Local Law No. 2 of 2020: A Local Law to Regulate Solar
Energy Facilities

Appendix 31-3. Town of Brasher Zoning Regulations (Local Law No. 2 of 2020)

Appendix 31-4. Code of the Town of Norfolk (2012)

Appendix 31-5. Town of Norfolk Local Law No. 2 of 2020: A Local Law to Regulate Solar Energy
Facilities

Appendix 35-1. Electric and Magnetic Field Calculation Report

Acronym	Definition
AAC	All Aluminum Conductor
AADT	Annual Average Daily Traffic
AASHTO	American Association of State Highway and Transportation Officials
Ac	Acre
AC	Alternating current
AFs	Attachment Facilities
ALJ	Administrative law judge
AM	Amplitude Modulation
ACI	American Concrete Institute
AEIC	Association of Edison Illuminating Companies
AMSL	above mean sea level
ANSI	American National Standards Institute
AED	Automated External Defibrillator
amsl	above mean sea level
APA	Adirondack Park Agency
APE	Area of Potential Effects
API	American Petroleum Institute
The Applicant	North Side Energy Center, LLC
ARP	Acid Rain Program
ASA	Acoustical Society of America
ASCE	American Society of Civil Engineers
ASME	American Society of Mechanical Engineers
ASNT	American Society for Nondestructive Testing
ASTM	American Society for Testing and Materials
ATC	Air Traffic Control
ATS	Automatic transfer switch
ATV	All-Terrain Vehicle
AW	Advanced wireless
AWS	advanced wireless service
AWS	American Welding Society
BBA	Breeding Bird Atlas

Acronym**Definition**

BBS	Breeding Bird Survey
BFFS	Base free-flow speed
BIPV	Building-integrated photovoltaic
BLM	Bureau of Land Management
BLOS	Bicycle level of service
BLS	Bureau of Labor Statistics
BMP(s)	Best Management Practice(s)
BOS	Balance of system
BPA	Bonneville Power Authority
BPS	Bulk Power System
BU	Business Unit
C	Celsius
CAA	Clean Air Act
CAD	Computer-Aided Design
CBD	Central Business District
CES	Clean Energy Standard
C-B	Commercial-Business District
C-C	Community Center
C-H	Commercial-Highway District
C-I	Commercial-Industrial District
cm	centimeter
CP	Commissioner Policy
CAA	Clean Air Act
CAC	Climate Action Council
CAF	Capacity Adjustment Factor
CAG	Capital Airspace Generation
CAPEX	Capital expenditures
CAR	Commercial Auto-Related District
CARIS	Congestion Assessment and Resource Integration Study
Cp[a	Christmas Bird Count
CBD	Central Business District
CBR	California Bearing Ratio

Acronym	Definition
CCA	Community Choice Aggregation
CCM	Certified Consulting Meteorologist
CCS	Center for Climate Strategies
CCT	Critical Clearing Time
CDL	Cropland Data Layer
CEF	Clean Energy Fund
CEMS	Continuous Emissions Monitoring Systems
CES	Clean Energy Standard
CFR	Code of Federal Regulations
CIP	Critical Infrastructure Protection
CL	Cellular
CL&CPA	Climate Leadership and Community Protection Act
CONCAWE	Conservation of Clean Air and Water in Europe
CORS	Continuously Operating Reference Stations
CO ₂	carbon dioxide
CO _{2e}	Carbon dioxide equivalents
CPR	Cardiopulmonary Resuscitation
CRIS	Cultural Resources Information System
CRISP	Catskills Regional Invasive Species Partnership
CSA	Combined Statistical Area
CSG	Community Solar Generation
CSI	Construction Specifications Institute
CTBTO	Comprehensive Nuclear Test Ban Treaty Organization
CTD	Commercial Transition District
CTO AF	Connecting Transmission Owner Attachment Facilities
CUGIR	Cornell University Geospatial Information Repository
CWA	Clean Water Act
CZMA	Coastal Zone Management Act
DAR	Division of Air Resources
db	Decibels
dBA	A-weighted decibels
DBH	Diameter at breast height

Acronym	Definition
DC	Direct current
DHSES or NYSDHSES	Division of Homeland Security and Emergency
DMM	Document and Matter Management
DoD	Department of Defense
DOE	Department of Energy
DOT	Department of Transportation
DOW	Division of Water
DSNY	Dig Safely New York
DTT	Direct Transfer Trip
EAB	Emerald Ash Borer
EAF	Environmental Assessment Form
ECL	Environmental Conservation Law
ECOS-IPaC	Environmental Conservation Online System-Information for Planning and Consulting
EM	Environmental Monitor
EIA	Energy Information Administration
EMF	Electric and Magnetic Fields
EMR	Experience Modification Rate
EMS	emergency medical services
END	Endangered
EPA	Environmental Protection Agency
EPC	Engineering, Procurement, and Construction
EPSC	erosion prevention & sediment control
ERM	Environmental Resource Mapper
ERP	Emergency Response Plan
Epsilon	Epsilon Associates, Inc.
ESA	Endangered Species Act
ESBs	Electric System Bulletins
ESRI	Environmental Systems Research Institute
EX	Expansion Bus Support
F	Fixed Bus Support
FD	Follower Density

Acronym	Definition
FM	Frequency Modulation
FM	Factory Mutual
FAA	Federal Aviation Administration
FAC	Facultative
FCC	Federal Communications Commission
FEMA	Federal Emergency Management Agency
FFS	Free-flow speed
FHWA	Federal Highway Administration
FIN	Fisheries Identification Number
FOIL	Freedom of Information Law
FPDC	Fleet Performance and Diagnostics Center
FRN	Registration number
FRS	Frequency Regulation System
FRT	Frequency Ride Through
FRU	field replaceable units
FTE	full-time equivalent
G	Ground Absorption Factor
G-C	General Commercial
G-PD	Greenbelt Preservation District
GDP	Gross Domestic Product
GHG	greenhouse gas
GIS	Geographic Information System
GLONASS or GNSS	Global Navigation Satellite System
GP	General Permit
GPM	Gallons per minute
GPS	Global-Positioning System
GRP	Gross Regional Product
GSU	Generator Step-up
GW	gigawatt
H	Hamlet District
H-C	Highway Commercial
HA	Amateur

Acronym	Definition
hp	Horsepower
HV	Vanity
HCA	Host Community Agreement
HCM	Highway Capacity Manual
HCS	Highway Capacity Software
HDD	horizontal directional drilling
HDM	Highway Design Manual
HDPE	high-density polyethylene
HFNS	High-Frequency Natural Sound
HMANA	Hawk Migration Association of North America
HSG	Hydrologic Soil Group
HTF	Heat Transfer Fluid
HUC	Hydrologic Unit Code
Hz	Hertz
I	Industrial
I-90	Interstate 90
IBC	International Building Code
ICEA	Insulated Cable Engineers Association
ICF	ICF Resources, LLC
IDA	Industrial Development Agency
IEC	International Electric Code
IES	Illuminating Engineering Society
IEEE	Institute of Electrical and Electronic Engineers
IESNA	Illuminating Engineering Society of North America
INCE	Institute of Noise Control Engineering
IPCB	State of Illinois Pollution Control Board
IPM	Integrated Planning Model
ISMCP	Invasive Species Management and Control Plan
ISO	International Organization for Standardization
ITE	Institute of Transportation Engineers
JHA	Job Hazards Analysis
JEDI	Job and Economic Development Impact

Acronym	Definition
KCM	kilo-circular mil
Kg	Kilogram
kV	Kilovolt
KVar	Reactive power level
kw	kilowatt
lb/MWh	Pound per megawatt hour
Lbs.	Pounds
L-C	Land-Conservation
LC	Letter of Credit
If	Linear feet
LCOE	Levelized Cost of Energy
LCR	Left-side lateral clearance
LiDAR	Light Detection and Ranging
LLC	Limited Liability Company
LLP	Limited Liability Partnership
LMP	Location-based Market Prices
LOD	Limit of disturbance
LORAN	Long-Range Navigation
LOS	Level of service
LOS	Line of sight
LPC	Lightning Protection Code
LSE(s)	Load-serving entity(ies)
LSZ(s)	Landscape Similarity Zone(s)
LTE	Long-term Emergency
LVRT	Low voltage Ride Through
M	Month
M	Manufacturing District
MBTA	Migratory Bird Treaty Act
MDEP	Maryland Department of the Environment
MDNR	Michigan Department of Natural Resource
MIS	Minimum Interconnection Standard
MM	Million

Acronym	Definition
m/s	Meters per second
MI/HR	Mile per hour
mG	milligauss
MGD	Million gallons per day
MLRL	Mine Land Reclamation Law
Mph	Miles per hour
MPPT	Maximum power point tracking
MSS	Massena International Airport
MVA	Megavolt amperes
MW	megawatt
MWh	megawatt hours
N-C	Neighborhood Commercial
n.d.	No date
NASR	National Airspace System Resources
NAAQS	National Ambient Air Quality Standards
NAGPRA	Native American Graves Protection and Repatriation Act
NCBP	Net Conservation Benefit Plan
NCED	National Conservation Easement Database
NCHRP	National Cooperative Highway Research Program
NEC	National Electric Code
NED	National Elevation Dataset
NEER or NEE or NextEra	NextEra Energy Resources
NEMA	National Electrical Manufacturers Association
NEPA	National Environmental Policy Act
NERC	North American Electric Reliability Corporation
NESC	National Electric Safety Code
NESHAP	National Emission Standards for Hazardous Air Pollutants
NEXRAD	next-generation radar
NFDC	National Flight Data Center
NFPA	National Fire Protection Association

Acronym	Definition
NGO	Non-government organization
NHL	National Historic Landmarks
NHP	Natural Heritage Program
NHPA	National Historic Preservation Act
NLCD	National Land Cover Dataset
NMFS	National Marine Fisheries Service
NOAA	National Oceanic and Atmospheric Administration
NOCT	Nominal Operating Cell Temperature
NOI	Notice of Intent
NOT	Notice of Termination
NOx	nitrogen oxides
NPCC	Northeast Power Coordinating Council, Inc.
NPDES	National Pollutant Discharge Elimination System
NPS	National Park Service
NRCS	Natural Resources Conservation Service
NREL	National Renewable Energy Lab
NRHP	National Register of Historic Places
NRS	Northern Research Station
NRT	National Recreation Trails
NSPS	New Source Performance Standards
NTIA	National Telecommunications and Information Administration
NWI	National Wetlands Inventory
NWP	Nationwide Permit
NYAC	New York Archaeological Council
NYCA	New York Construction Alliance
NYCRR	New York Codes, Rules and Regulations
NYHPA	New York Historic Preservation Act
NYIS	New York Invasive Species
NYISO	New York Independent System Operator
NYNHP	New York Natural Heritage Program
NYPA	New York Power Authority

Acronym	Definition
NYPSC or NYSPSC	New York Public Service Commission
NYS	New York State
NYS AML	New York State Agriculture and Markets Law
NYSAGM or NYSDAM	New York State Department of Agriculture and Markets
NYSRC	New York State Reliability Council
NYSDEC or DEC	New York State Department of Environmental Conservation
NYSDPS or DPS	New York State Department of Public Service
NYSDOH	New York State Department of Health
NYSDOT	New York State Department of Transportation
NYSE	New York Stock Exchange
NYSEG	New York State Electric & Gas
NYSEPB	New York State Energy Planning Board
NYSERDA	New York State Energy Research and Development Authority
NYSGPO or NYSGISPO	New York State GIS Program Office
NYSM	New York State Museum
NYSORPS	New York State Office of Real Property Services
NYSOPRHP	New York State Office of Parks, Recreation and Historic Preservation
O&M	Operations and maintenance
OATT	Open Access Transmission Tariff
ONAN	Oil Natural Air Natural
O-S	Open-Space District
OPEX	Operating expenses
OPRHP	Office of Parks, Recreation and Historic Preservation
ORP	Oxidation-reduction Potential
OSHA	Occupational Safety and Health Administration
P.A.	Public Address
Pb	Lead
P-C	Planned Commercial District

Acronym	Definition
P-D	Planned Development
P-LI	Planned Light Industrial District
P-LW	Public Lands and Water
P-R	Planned Residential District
P-Rec	Planned Recreational District
P&H	Patrick & Henderson
PAB	Palustrine Aquatic Bottom
PAR	Phase angle regulators
PCBs	Polychlorinated biphenyls
PC/H	Passenger cars/hour
PC/MI/LN	Passenger cars/mile/lane
PCO	Point of Change Ownership
PCS	Personal Communication Service
PDD or PD or P-D	Planned Development District
PE	Professional Engineer
PEJA	Potential Environmental Justice Areas
PEM	Palustrine Emergent wetlands
PERC	Passivated Emitter and Rear Cell
PFO	Palustrine Forested wetlands
PHTP	Patrick & Henderson Tensionless Pier
PID	Planned Industrial District
PILOT	payment in lieu of taxes
PIP	Public Involvement Program
PLS-CADD	Power Line Systems Computer-Aided Design and Drafting
Pmax	Maximum Power
PNIA	Pre-Construction Sound Level Impact Assessment
POD	Plan of the Day
POI	Point of Interconnection
POL	Public Officers Law
PRISM	Partnership for Regional Invasive Species Management
PSC	Public Service Commission

Acronym	Definition
psf	Pounds per square foot
PSL	Public Service Law
PSS	Preliminary Scoping Statement
PSS	Palustrine Scrub-shrub wetlands
PTC	Power Test Codes
pu	per unit
PUB	Palustrine Unconsolidated Bottom
PV	Photovoltaic
PVC	Polyvinyl chloride
PWSF	Personal Wireless Service Facilities Overlay District
QAQC	Quality Assurance and Quality Control
R-A	Residential-Agricultural zones
RC	Resource Conservation District
R-1	One-Family Residence
R-A	Residential-Agriculture
R-A	Residential A District
R-B	Residential B District
R-C	Residential C District
R-H	Residential-Hamlet District
R-R	Resort-Residential District
R-T	Residential Transition District
RC	Resource Conservation District
RCNM	Roadway Construction Noise Model
REC	Renewable Energy Credit
REPH	ephemeral streams
RESRFP	Renewable Energy Standard Solicitation Request for Proposal
REV	Reforming the Energy Vision
RFI	Request for Information
RFP	Request for Proposal
RGGI	Regional Greenhouse Gas Initiative
RLOS	radio line-of-sight

Acronym	Definition
RIN	intermittent streams
ROCC	Renewable Operations Control Center
ROW	Right-of-way
RP	Rural Place District
RPS	Renewable Portfolio Standard
RSS	Revised Scoping Statement
RUA	Road Use Agreements
RUP	perennial streams
RUS	Rural Utilities Service
S	Slip Bus Support
S-P	Scenic Preservation
sf	Square feet
SAE	Standard Automotive Engineering
SAF	Speed Adjustment Factor
SCDOPH	Schoharie County Department of Public Health
SCED	security constrained economic dispatch
SCSWCD	Suffolk County Soil and Water Conservation District
SCUC	security constrained unit commitment
SDS	Safety Data Sheet
SEP	State Energy Plan
SERC	State Emergency Response Commission
SEQRA	State Environmental Quality Review Act
SGCN	species of greatest conservation need
SGHAT	Solar Glare Hazard Analysis Tool
SHPO	State Historic Preservation Office
SHWT	seasonal high water table
SLM	sound level meter
SMDM	Stormwater Management Design Manual
SMP	Stormwater Management Practice
SO ₂	sulfur dioxide
SPC	Spill Prevention and Control Countermeasures Plan
SPCN	Species of Potential Conservation Need

Acronym	Definition
SPDES	State Pollutant Discharge Elimination System
SPGN	Species of Greatest Conservation Need
SPGN-HP	Species of Greatest Conservation Need – High Priority
SPT	Standard Penetration Test
SR	Scenic Resources Overlay District
SRHP	State Register of Historic Places
SRIS	System Reliability Impact Study
SSA	Sole source aquifers
SSC	species of special concern
SSD	Stopping Sight Distances
SSESC	Specifications for Erosion and Sediment Control
SSPC	Steel Structures Painting Council
SSURGO	Soil Survey Geographic Database
ST	Standard Trench
STC	sound transmission class
STE	Short-term emergency
STL	Studio Transmitter Link
STP	Shovel Test Pit
SUF	System Upgrade Facilities
SUT	Single-Unit Trucks
SWAP	State Wildlife Action Plan
SWPPP	Stormwater Pollution Prevention Plan
T&E	Threatened and endangered
TBD	To be determined
TCPU	Transportation, Communications, and Public Utilities
TEI Manual	Transmission Expansion and Interconnection Manual
THPO	Tribal Historic Preservation Office
THR	Threatened
TLC	Total Level of Clearance
TNC	The Nature Conservancy
TT	Tractor trailer
UBC	Uniform Building Code

Acronym	Definition
UL	Underwriters Laboratories
UNK	Unknown
USACE	United States Army Corps of Engineers
USBM	United States Bureau of Mines
USC	United States Code
USCS	United Soil Classification Systems
USDA	United States Department of Agriculture
USEPA	United States Environmental Protection Agency
USDOI	United States Department of the Interior
USDOT	United States Department of Transportation
USFS	United States Forest Service
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
USN	Unique site number
V	Volt
VIA	Visual Impact Assessment
VMT	Vehicle Miles Traveled
VSA	Visual Study Area
W	Week
WCS	Wireless communication service
W/m ²	Watts per square meter
WHO	World Health Organization
WOTUS	Waters of the United States
WRD	Waterfront Revitalization District
WRRS	Wildlife Resource Recovery System
WSS	Web Soil Survey
WQC	Water Quality Certification
WWTP	Wastewater Treatment Plant
Y	Year
XLPE-TR	polyethylene tree resistant
ZEC	zero-emissions credit
ZVI	Zone of Visual Impact

