



NOBLE WETHERSFIELD WINDPARK, LLC

EXHIBIT 9

COST OF PROPOSED FACILITY

230 kV TRANSMISSION LINE

WETHERSFIELD TO ORANGEVILLE

Pursuant to Section 86.10

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TERMS, ACRONYMS, AND ABBREVIATIONS

A	Agriculture Use Zoning District
AADT	Annual Average Daily Traffic
agl	Above ground level
AC	Alternating current
ACSR	aluminum conductor steel reinforced
Ad	Alden Series soils
AM	amplitude modulated radio signal
amsl	above mean sea level
ANSI	American National Standard Institute
Applicant	Noble Wethersfield Windpark, LLC
BaB, BaC	Bath series soils
BIB, BIC, BID	Bath – Valois Complex Series soils
B	Business Use Zoning District
Best Management Practices	construction techniques designed to contain sediments and turbid water from impacting off site soils, surface water and groundwater, and vegetation.
C&R	Camping and Recreation Zoning District
CgA, CgB	Castile Series soils
CIA, CIB	Chenango Series soils
Certificate	Certificate of Environmental Capability and Public Need
conductor	single or multiple wire(s) used to transmit electricity
conductor security zone	air space around a conductor that must be free of vegetation for safe operation of a transmission line
C(t)	NYSDEC designation for streams capable of sustaining trout populations
DC	Direct current
DEIS	Draft Environmental Impact Statement
dielectric fluid	an alkylbenzene dielectric liquid used to control heat dissipation from underground high pressure fluid-filled electric cables
EA	Environmental Assessment
Ee	Ellery Series soils
ErA, EsB	Erie Series soils
EIR	Environmental Impact Report
EIS	Environmental Impact Statement

TERMS, ACRONYMS, AND ABBREVIATIONS (Continued)

encroachment	any man-made structure of a permanent nature that, if allowed to remain in its current location, could interfere with the construction, maintenance or operation of the Proposed Transmission Line
EM&CP	Environmental Management and Construction Plan
EMF	electric and magnetic field
Epsilon	Epsilon Associates, Inc.
ESA	Endangered Species Act
FAA	Federal Aviation Administration
FCC	Federal Communication Commission
FEMA	Federal Emergency Management Agency
FERC	Federal Energy Regulatory Commission
FM	frequency modulated radio signal or short-wave
FIRM	Flood Insurance Rate Map
GIS	Geographic Information Systems
GPS	Global Positioning System
Ha	Halsey Series soils
H-Frame	double pole structure type designed to support aboveground electric circuits
HPFF	high pressure fluid filled cable
HsE	Howard – Chenango Complex Series soils
Hz	Hertz
I	Industrial Use District
IEEE	Institute of Electrical and Electronic Engineers
ID	Identification
JMA	John Milner Associates, Inc.
Joint Application	Combined Federal Army Corps of Engineers and New York State Department of Environmental Conservation wetlands permit application
kcmil	thousand circular mills
kV	kilovolt
kV/m	kilovolts per meter

TERMS, ACRONYMS, AND ABBREVIATIONS (Continued)

LaA, LaB	Langford Series soils
LEF	longitudinal electric field
LPOF	Low-pressure oil-filled cable
M	million
MHz	Mega Hertz
M&E Rating	Mechanical & Electrical Strength Ratings
mG	milligauss
MP	milepost
MrB, MrC	Mardin Series soils
mV	millivolts
MVA	megavolt ampere
MRI	Magnetic Resonance Imagery
MW	megawatt
NEPA	National Environmental Policy Act
NESC	National Electric Safety Code
NMPC	National Grid/Niagara Mohawk Power Corporation
NPCC	Northeast Power Coordinating Council
NPDES	National Pollution Discharge Elimination System
NRCS	Natural Resource Conservation Survey
NWI	National Wetlands Inventory
NYSGIS	New York State Geographical Information Systems
NY-ISO	New York Independent System Operator
NYNHP	New York Natural Heritage Program
NYOPRHP	New York State Office of Parks, Recreation and Historical Preservation
NYPP	New York Power Pool (predecessor of the NY-ISO)
NYSCRR	New York State Code of Rules and Regulations
NYSDAM	New York State Department of Agriculture and Markets
NYSDEC	New York State Department of Environmental Conservation
NYSDOS	New York State Department of State
NYSDOT	New York State Department of Transportation
NYSEG	New York State Electric and Gas Corporation
NYSDPS	New York State Department of Public Service
NYSpsc	New York State Public Service Commission
NYPA	New York State Power Authority

TERMS, ACRONYMS, AND ABBREVIATIONS (Continued)

O&M	operation and maintenance
OPRHP	Office of Parks, Recreation and Historic Preservation
OPGW	optical groundwave
OSHA	Occupational Safety and Health Administration
PEM	Palustrine Emergent, Persistent Wetlands
PFO1/4	Palustrine Forested, Broad-leaved Deciduous/Needle-leaved Evergreen Wetlands
PFO1	Palustrine Forested, Broad-leaved Deciduous Wetlands
Pk, Pm	Papakating Series soils
PPE	Personal protection equipment
PSS	Palustrine Scrub-Shrub Wetlands
PILOT	payment in lieu of taxes
PIP	Public Information Program
Proposed Transmission Line	230 kV transmission line proposed for connection of proposed Noble Windpark to the existing NYSEG 230 kV transmission line
Psi	pounds per square inch
PPE	personal Protection Equipment
pu	per unit
PVC	polyvinyl chloride
R	Residential Use Zoning District
Rh	Red Hood Series soils
ROW	right-of-way
ROWs	rights-of-way
S	Seasonal Use Zoning District
SEQR	State Environmental Quality Review
SEQRA	State Environmental Quality Review Act
SPDES	State Pollution Discharge Elimination System
S/NRHP	State and/or National Register of Historic Places
SRIS	System Reliability Impact Study
State	New York State
SWPP	Storm water pollution prevention
SUNY	State University of New York
Su	Sun Series soils

TERMS, ACRONYMS, AND ABBREVIATIONS (Continued)

Tg	Tioga Series soils
USACOE	United States Army Corps of Engineers
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
UTM	Universal Transverse Mercator
VRA	Visual Resource Assessment
VEF	vertical electric field
VoA, VoB	Volusia Series soils
Wethersfield Substation	Substation located in Wethersfield
WsB	Williamstown Series soils
XLPE	cross linked polyethylene cable or solid dielectric cable
Y	Youth Training Reservation Use Zoning District

EXHIBIT 9 – COST OF PROPOSED FACILITY

This exhibit covers the estimated cost of the proposed Noble Wethersfield Windpark, LLC transmission line (Proposed Transmission Line). Cost estimates are based on various sources including:

1. Material and labor costs based upon costs for recent projects in the upstate New York area.
2. An average of 6 percent was used to determine accumulative interest during construction.
3. Contingencies were established at 20 percent.
4. Estimated costs were escalated to determine the actual costs at the time of expenditure.

Description	Cost
ROW Acquisition	\$250,000
Access Roads	\$100,000
ROW Clearing	\$400,000
Licensing and Permitting	\$500,000
Survey	\$75,000
Materials	\$1,100,000
Labor	\$1,500,000
Engineering	\$250,000
Construction Management	\$100,000
Administrative Overhead	\$150,000
Fees for legal and other Services	\$150,000
Interest During Construction (6 percent)	\$100,000
Contingency (~ 20 percent)	\$900,000
Subtotal	\$5,575,000