

November 1, 2019

Executive Secretary
North Dakota Public Service Commission
600 E. Boulevard, Dept. 408
Bismarck, ND 58505-0480

RE: Updated Wind Facility Decommissioning
Plan and Cost

Thunder Spirit Wind Facility
Case No. PU-18-105

Montana-Dakota Utilities Co. (Montana-Dakota), respectfully submits an original and two (2) copies of an update to the Decommissioning Study submitted for the Thunder Spirit 1 Facility (Thunder Spirit 1) on June 27, 2018 in the above referenced docket. A separate study related to the Thunder Spirit 2 facility purchased from ALLETE Clean Energy on March 1, 2018 and now owned and operated by Montana-Dakota is also attached.

Pursuant to data requests and conversations with Commission Staff, Montana-Dakota requested Wanzek Construction to provide additional detail regarding its original estimate provided to Montana-Dakota for the cost to fully decommission the Thunder Spirit I facility and at the same time requested an estimate for the expansion completed at the Thunder Spirit site on October 31, 2018. The studies are provided in Attachment A and Attachment B respectively.

The study originally submitted for Thunder Spirit I has been revised to exclude certain facilities that will be decommissioned at the time the expansion is decommissioned. Those facilities include the substation, transmission line, O&M facility and the Met tower as noted on the cost breakout provided on Attachment A, page 5. The Thunder Spirit 1 decommissioning cost estimate has also been updated to 2019 dollars in order to correspond with the estimate for Thunder Spirit 2 prepared in 2019. The total estimated cost to decommission the Thunder Spirit 1 facility is now estimated to be \$11,494,099 with Thunder Spirit 2 decommissioning estimated at \$5,591,927 as shown on Attachment A, page 5 and Attachment B, page 5 respectively. The above-mentioned decommissioning cost estimates are before taking into account any potential salvage

value. As described in the assumptions and clarification sections of the proposals (Attachments A and B page 7, the estimated costs assume the turbines will be dismantled with a crane, the components downsized, and the scrap hauled to a disposal site that is a maximum of 90 miles away from the site.

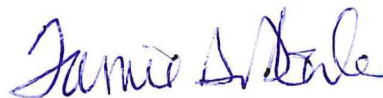
In response to 69-09-09-01.6e of the NDAC, Montana-Dakota does not expect that the Thunder Spirit facility will have any impact on present or future natural resource development in the area.

In accordance with 69-09-09-04 of the NDAC, decommissioning will begin within twelve months of the abandonment or the end of the useful life of the facility with decommissioning complete with twenty-four months unless a plan to return the facility to operation is approved by the Commission.

The Company will separately submit the required financial assurance in the form of a self-guarantee as revised to reflect the decommission cost update. The Company is reviewing the self-guarantee recently approved by the Commission in Case No. PU-18-339 for Xcel Energy in development of its updated self-guarantee.

Please acknowledge receipt by stamping or initialing the duplicate copy of this letter attached hereto and returning the same in the enclosed self-addressed stamped envelope.

Sincerely,



Tamie A. Aberle
Director of Regulatory Affairs

Attachments
CC: Alan Welte
Karl Liepitz

Attachment A

Attachment A

THUNDER SPIRIT 1

DECOMMISSIONING PROJECT

PROPOSAL PROVIDED FOR MONTANA DAKOTA UTILITIES

Proposal Provided by

WANZEK

a **MasTec** company 

Wanzek Construction | 4850 32nd Ave S, Fargo, ND 58104 | wanzek.com

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Wanzek Experience

Wanzek Construction, Inc. is pleased to provide Montana Dakota Utilities with our proposal for the Thunder Spirit 1 Decommissioning project. With over forty-five years of experience driving excellence through all stages of construction, Wanzek has the experience and breadth of knowledge to provide continuing presence and direct management involvement to each project. Wanzek is continuously investing in equipment, technology and teams to provide innovative, efficient and cost-effective construction services that meet client needs. Wanzek is a relationship-driven company with growth largely due to repeat clients. We are further strengthened by the backing of our parent company. As a wholly-owned subsidiary of MasTec North America, Inc./ MasTec, Inc., Coral Gables, FL (NYSE: MTZ), Wanzek has the geographic reach, scalability and overall financial stability to deliver high quality and innovative solutions.

Safety is the cornerstone of our company culture and our dedicated safety personnel and employees work to make sure safe behavior is instinctive and automatic. Our focus on safety starts long before we mobilize to the field. It is a crucial part of reviewing and finalizing proposals, continues through project planning and is the responsibility of every Wanzek employee every day. Wanzek follows an Operator Qualification Plan designed to ensure all team members are OQ-certified to perform tasks safely.

Wanzek addresses quality at all stages of the job, from planning through operations and execution to lessons learned at job closure. We work collaboratively with our clients, using lean continuous improvement methodologies to optimize all aspects of construction and operations.

Our teams are built on strength, stability and experience. Wanzek self-performs the majority of our work. To ensure safety, quality and repeat clients, we employ skilled, proficient and dedicated teams. Company-wide, our craftspeople have an average of fifteen years of experience in their trade and work in a senior-level to junior-level ratio of approximately 1:4.

On behalf of Wanzek Construction, thank you for the opportunity to present our capabilities as a qualified contractor for the Thunder Spirit I Decommissioning project. I welcome your comments and questions as you review the proposal and look forward to working with you.

Regards,



Jacob Nikle
Director of Operations, Repower
Wanzek Construction, Inc.
(701) 893-3629
jnikle@wanzek.com

PRICING



Our pricing methodology includes requesting multiple bids from reputable subcontractors and material suppliers to achieve the best value. Our knowledge and expertise allow us to maximize efficiency while providing clients with all-inclusive pricing. Our detailed quotation for the Thunder Spirit 1 Decommissioning project follows.



Project:	Thunder Spirit 1 Decommissioning
Proposal Type:	BOP Budget (2019 dollars)
Proposal Date:	9/17/2019
WTG # & Type:	43 x Nordex 2.5 MW, 80M HH, 100M rotor
Total MW:	107.5
Phase:	1
Location:	Hettinger, ND

Client Requested Breakout Sheet

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
1	Wind Turbine Removal	43	EA	\$ 108,438.73	\$ 4,662,865.39
2	Crane Mobilization	1	LS	\$ 214,788.31	\$ 214,788.31
3	Crane Rental	1	LS	\$ 534,114.88	\$ 534,114.88
4	Crane Teardowns	2	EA	\$ 25,184.84	\$ 50,369.68
5	Wind Turbine Hauling / Disposal	43	EA	\$ 88,568.56	\$ 3,808,448.08
6	Wind Turbine Foundation Removal	43	EA	\$ 7,943.04	\$ 341,550.72
7	Wind Turbine Foundation Hauling / Disposal	43	EA	\$ 1,341.61	\$ 57,689.23
8	Substation Removal				Included in Thunder Spirit 2
9	Substation Hauling and Disposal				Included in Thunder Spirit 2
10	Transmission Line Removal				Included in Thunder Spirit 2
11	Civil Works Crushed Rock Surfacing Removal	76,671	LF	\$ 12.06	\$ 924,652.26
12	Civil Works Hauling / Disposal	1	LS	\$ 139,660.15	\$ 139,660.15
13	Civil Works Grading / Seeding Costs	1	LS	\$ 244,795.88	\$ 244,795.88
14	O&M Facility Removal				Included in Thunder Spirit 2
15	O&M Facility Hauling / Disposal				Included in Thunder Spirit 2
16	Met Tower Removal / Disposal				Included in Thunder Spirit 2
17	Collection System Removal	1	LS	\$ 181,841.27	\$ 181,841.27
18	Contingency	1	LS	\$ 333,322.85	\$ 333,322.85
TOTAL PRICE (EXCLUDING PERFORMANCE BOND)					\$ 11,494,098.70

ALTERNATES

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
A	SCRAP VALUE OF COMPONENTS (See next page)	1	LS		\$ (2,886,360.00)



Project:	Thunder Spirit 1 Decommissioning
Proposal Type:	BOP Budget (2019 dollars)
Proposal Date:	9/17/2019
WTG Type:	Nordex 2.5 MW, 80M HH, 100M rotor X 43
Total MW:	107.5
Location:	Hettinger, ND

Salvage Value Worksheet

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
Mixed Steel					
1	Concrete WTG Foundation - Spread Footing Pedestal Rebar	172.00	TN	\$ (120.00)	\$ (20,640.00)
2	WTG Steel Towers - 80 Meter	8,170.00	TN	\$ (120.00)	\$ (980,400.00)
3	WTG Equipment - Hub Assemblies	1,182.50	TN	\$ (120.00)	\$ (141,900.00)
4	WTG Equipment - Nacelles	2,838.00	TN	\$ (120.00)	\$ (340,560.00)
5	WTG Equipment - Generators	258.00	TN	\$ (120.00)	\$ (30,960.00)
6	Electrical Equipment - WTG Transformer 34.5KV	215.00	TN	\$ (120.00)	\$ (25,800.00)
7	Electrical Equipment - MP Transformer 34.5KV				Included in Thunder Spirit 2
8	Electrical Equipment - Grounding Transformer 34.5KV	7.00	TN	\$ (120.00)	\$ (840.00)
9	Electrical Equipment - Poles, Risers, Structural, Misc.				Included in Thunder Spirit 2
Copper					
10	WTG Equipment - Tower Cable	68.80	TN	\$ (4,000.00)	\$ (275,200.00)
11	WTG Equipment - Generators	172.00	TN	\$ (4,000.00)	\$ (688,000.00)
12	Electrical Equipment - WTG Transformer 34.5KV	86.00	TN	\$ (4,000.00)	\$ (344,000.00)
13	Electrical Equipment - MP Transformer 34.5KV				Included in Thunder Spirit 2
14	Electrical Equipment - Grounding Transformer 34.5KV	5.00	TN	\$ (4,000.00)	\$ (20,000.00)
Aluminum					
15	Cable - Misc Wiring	90.30	TN	\$ (200.00)	\$ (18,060.00)
SALVAGE VALUE SUBTOTAL					\$ (2,886,360.00)
Unit Cost					\$ (67,124.65)

Clarifications to Budgetary Pricing

General Clarifications

1. Wanzek has prepared pricing for strictly budgetary purposes, based on current market prices.
2. Wanzek has excluded any prevailing wage or union requirements.
3. Wanzek has excluded taxes. Applicable taxes will be paid by owner.

Site Clarifications

4. Wanzek assumes that access to and from the jobsite along with an adequate work area will be available without restriction.
5. Owner to provide adequate lay down area for storage of contractor materials, supplies and equipment storage and maintenance area.
6. Owner responsible for Landowner communications and dealings.
7. Wanzek excludes any state, or county road improvements and/or traffic control measures, barricades, or utility control, that may be required to operate at the jobsite.

Turbine Disassembly

8. Wanzek's pricing assumes the turbines will be deconstructed with a crane, following construction industry safety processes.
9. Wanzek's pricing includes downsizing the WTG components on site and hauling away for scrap. Approximate salvage value is listed on the second page of the pricing sheet, based on current market prices.

Civil Works

10. Pricing includes removal of 8" (average) of road aggregate and turbine beauty rings. Pricing assumes all removed material will be placed on nearby aggregate roads.
11. Foundation demo work assumes concrete will be disposed of offsite at 42" at Thunder Spirit Wind Farm, as per the land lease agreement. Structural steel will be removed and scrapped.
12. All areas will be de-compacted and graded to facilitate drainage using surrounding material. No imported fill has been considered.
13. Seeding has been included where necessary.

Collection System

14. Wanzek has included removal of pad mount transformers and box pads. Junction Boxes will also be removed.
15. Wanzek has included the removal of the substations and reclamation of the aggregate yards.
16. Wanzek has excluded the removal of underground collection cable deeper than 24" but will remove electrical components to a depth of 24" for the substation, transmission, and collection systems.

Shared Facilities

17. Removal of the following facilities shared with Thunder Spirit 2 has been excluded for Thunder Spirit 1.
 - Substation
 - Transmission Line
 - O&M Building
 - Met Tower
18. The removal of these items is included in a separate estimate for Thunder Spirit 2.

Mobilization

Wanzek will mobilize the main crane (LR1750), support cranes, equipment and crews a week before disassembly will begin. Wanzek will also bring in a single wide trailer for site management to work.

Take Down Turbines

Wanzek will have two crews taking down the turbines. Crew #1 will prep the towers ahead of the main erection crane. Crew #2 will disassemble the turbines. Wanzek predicts that four to five towers per week will be taken down and placed on the ground.

Remove Collection System

Wanzek will remove the pad mount transformers and box pads. Collection cables will be removed to a depth of 24"; all collection materials below that depth will remain in place. All areas requiring reseeding will be seeded with approved seed mix.

Remove Foundations

Wanzek will excavate around the foundation following all OSHA requirements for excavations. We will remove the concrete to a depth of 42" using an excavator with a concrete breaker attachment. Once concrete is all broken up, the rebar and bolts will be removed (using a torch if needed) and placed in a steel dumpster. The excavations will be backfilled and compacted to 85%.

Remove Roads, Turbine Rings and Crane Pads

Wanzek will utilize motor grader, excavator and gravel truck to remove the existing gravel. All road gravel is assumed to be installed on adjacent gravel roads. All areas requiring seeding will be seeded with an approved seed mixture.

Equipment

Wanzek has included one main crane, support crane, two fork lifts, excavator, loader, generators, light plants, pickups, skid steer and all required tooling to disassemble a tower.

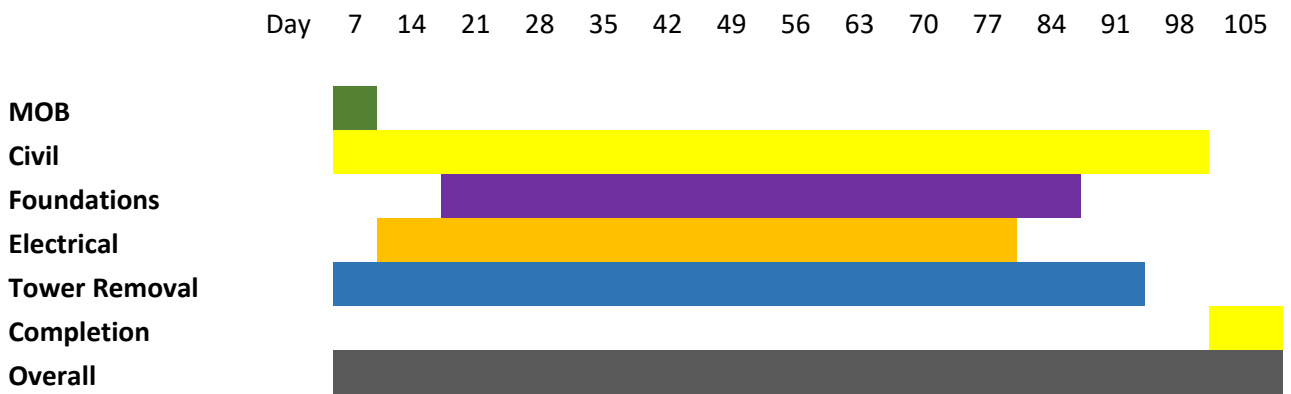
Trucking

Wanzek has assumed a maximum of a 90-mile haul and tipping fees of \$60 per ton.

PROJECT SCHEDULE

Our project schedulers focus on defined goals, realistic milestones and the resources needed to mitigate risk. Wanzek has included a high-level overview of the anticipated activity durations below:

Thunder Spirit Wind Farm Phase 1 Hettinger, ND



SAFETY



Safety is the cornerstone of our company culture and our dedicated safety personnel and employees work to make sure safe behavior is instinctive and automatic. Our focus on safety starts long before we mobilize to the field. It is a crucial part of reviewing and finalizing proposals, continues through project planning and is the responsibility of every Wanzek employee every day.

Our safety culture details follow.

WANZEK

a MasTec company 

CULTURE OF SAFETY

TOTAL RECORDABLE INCIDENT RATE

2018	0.42
2017	0.73
2016	0.75
2015	0.88
2014	1.72
2013	1.77
2012	1.86
2011	1.59
2010	1.35
2009	2.02
2008	2.52

EMR

2018	0.51
2017	0.54
2016	0.55
2015	0.53
2014	0.45
2013	0.49
2012	0.61
2011	0.63



Our Safety Culture

Wanzek’s safety process starts long before we mobilize to the field. Our focus on safety begins with reviewing proposals, continues through project planning and is the responsibility of every Wanzek employee, every day. We continuously work to improve our safety training and management systems, to hold every team member accountable and to ensure we hold ourselves to our vision of zero injuries. Our commitment includes a Zero Injury process to instill safety values in each employee and to ensure safe behavior is instinctive.



Stretch and Flex

The first of every morning, all personnel on the project will be present for the Stretch & Flex program. Subcontractor personnel are required to be present as well. This program prepares the worker to function both physically and mentally.

WANZEK CONSTRUCTION CULTURE OF SAFETY



Continual safety training and coaching is ongoing with each project.

Our Zero Injury System of Safety Excellence contains eight critical safety elements that focus on how we manage safety:

LEADERSHIP	Defines our expectations to lead and support the process
TRAINING	Outlines how we train and our expectations for training
R4	Provides the opportunity for employee engagement through active participation in our systems and through our employee observation and feedback program
PLANNING	Outlines the expectations of our pre-job planning activities such as the Pre-Task Plan (PTP), Job Hazard Analysis (JHA) Process and the Integrated Work Plan (IWP)
ASSESSMENTS	Defines how we review our safety process
INCIDENT MANAGEMENT	Is how we identify causes and system improvements to prevent recurrence
SUBCONTRACTOR MANAGEMENT	Ensures subcontractors' safety policies and procedures are equal to or greater than Wanzek's
METRICS	Is how we use both leading and lagging indicators



The R4 Observation Process was developed to reinforce safe behaviors and allows employees to contribute to the overall safety success of Wanzek. The process promotes the ongoing involvement of employees via employee R4 teams who conduct observations of peer employees performing work.

REVIEW + RECOGNIZE + RECOMMEND + REINFORCE

PROJECT EXPERIENCE

Project Name	Client	Megawatts	# of Generators	Turbine Manufacturer	State	COD
GW3S Prototype	Goldwind Americas	3.4	1	Goldwind	Texas	2018
Twin Buttes II	Avangrid Renewables, LLC	76	38	Gamesa	Colorado	2018
Aurora Brule Wind	Con Edison Development	41.4	18	General Electric	South Dakota	2018
Persimmon Creek	Scout Clean Energy	200.6	80	General Electric	Oklahoma	2018
Thunder Spirit II	Allete Clean Energy	48	16	Nordex	North Dakota	2018
Courtenay	Xcel - Minneapolis	200	100	Vestas	North Dakota	2017
Fluvanna Renewable Energy Project	Terna Energy USA	151.7	74	Vestas	Texas	2017
Cottonwood	NextEra Energy Resources, LLC	90	40	General Electric	Nebraska	2017
El Cabo	Avangrid Renewables, LLC	298	142	Gamesa	New Mexico	2017
Sterling	Akuo Energy USA, Inc.	29.9	13	General Electric	New Mexico	2017
Odell	Algonquin Power and Utilities Corp	200	100	Vestas	Minnesota	2016
Frontier Wind Power Project	Duke Energy	201.3	61	Vestas	Oklahoma	2016
Tyler Bluff (Muenster)	EDF Renewable Energy	123.1	52	Siemens	Texas	2016
Thunder Spirit	Allete Clean Energy	102.5	41	Nordex	North Dakota	2016
Desert Wind	Avangrid Renewables, LLC	208	104	Gamesa	North Carolina	2016
Prairie Breeze II	Invenergy	73.4	41	Vestas	Nebraska	2016
Prairie Breeze III	Invenergy	35.8	20	Nordex	Nebraska	2016
Los Vientos IV	Duke Energy	200	100	General Electric	Texas	2016
Los Vientos V	Duke Energy	110	55	General Electric	Texas	2016
Bow Lake	BluEarth Renewables inc	57.6	36	General Electric	Ontario	2015
Briscoe County Wind	Capital Dynamics	149.9	81	General Electric	Texas	2015
S111 Intsallation	Suzlon Wind Energy Corporation	2.1	1	Suzlon	Texas	2015
Stephens Ranch - Phase 2	Starwood Energy Group, LLC	164.7	92	General Electric	Texas	2015
Los Vientos III	Duke Energy	200	100	Vestas	Texas	2015
Lundgren	Berkshire Hathaway Energy	246.1	107	Siemens	Iowa	2014
Bison 4	Minnesota Power / Siemens	204.8	64	Siemens	North Dakota	2014
Stephens Ranch - Phase 1	Starwood Energy Group, LLC	200.6	118	General Electric	Texas	2014
G114 Prototype	Gamesa Energy	2	1	Gamesa	Texas	2014
Spring Canyon III	Invenergy	28.9	17	General Electric	Colorado	2014
Spring Canyon II	Invenergy	32.3	19	General Electric	Colorado	2014
Vienna II	Berkshire Hathaway Energy	43.7	19	Siemens	Iowa	2013
Lakeswind	Rockland Capital	51.2	32	General Electric	Minnesota	2013
Spinning Spur Wind Ranch	Cielo Wind Power, LP	161	70	Siemens	Texas	2013
Los Vientos Wind - 1A	Duke Energy	200	87	Siemens	Texas	2013
Santa Isabel	Pattern Energy Group, Inc.	101.2	44	Siemens	Puerto Rico	2013
Busch Ranch	Black Hills Corporation	28	16	Vestas	Colorado	2013
Morninglight Windfarm	Berkshire Hathaway Energy	101.2	44	Siemens	Iowa	2013
Crofton Bluffs Wind	Edison Mission Energy	42	22	Vestas	Nebraska	2013
Eclipse Wind	Berkshire Hathaway Energy	200	87	Siemens	Iowa	2013
Huerfano River	Sany Group	8	4	Sany	Colorado	2013
Meadow Creek Wind	Ridgeline Energy, LLC	119.7	57	Suzlon	Idaho	2013
Pillar Mountain II	Kodiak Electric Association, Inc.	4.5	3	General Electric	Alaska	2012
Ironwood Wind	Duke Energy	168	73	Siemens	Kansas	2012
Cimarron Wind II	Duke Energy	131	57	Siemens	Kansas	2012
Cimarron Wind I	CPV	165	72	Siemens	Kansas	2012
Broken Bow Wind - Ph I	Edison Mission Energy	80	50	General Electric	Nebraska	2012
Los Vientos Wind - 1B	Duke Energy	201.6	84	Mitsubishi	Texas	2012
Panhandle Wind Ranch	Cielo Wind Power, LP / Golden Spread Electric Cooperative	78.2	34	Siemens	Texas	2011
Taloga Wind	Edison Mission Energy	129.6	54	Mitsubishi	Oklahoma	2011
New Harvest Wind	Avangrid Renewables, LLC	100	50	Gamesa	Iowa	2011
Crow Lake	Basin Electric Power Cooperative	162	108	General Electric	South Dakota	2011
Rockland Wind Farm	Ridgeline Energy, LLC	79.2	44	Vestas	Idaho	2011
Diamond Willow	Montana Dakota Utilities (MDU)	10.5	7	General Electric	Montana	2010
Top of the World a	Duke Energy	101.2	44	Siemens	Wyoming	2010
Buffalo Ridge Wind II	Avangrid Renewables, LLC	210	105	Gamesa	South Dakota	2010
Cedro Hill Wind	Edison Mission Energy	150	100	General Electric	Texas	2010
Top of the World b	Duke Energy	99	66	General Electric	Wyoming	2010
Cedar Hills	Montana Dakota Utilities (MDU)	19.5	13	General Electric	North Dakota	2010
Red Mesa Windfarm	NextEra Energy Resources, LLC	102.4	64	General Electric	New Mexico	2010

PROJECT EXPERIENCE

Project Name	Client	Megawatts	# of Generators	Turbine Manufacturer	State	COD
Kit Carson Windfarm	Duke Energy	51	34	General Electric	Colorado	2010
Spearville II	Kansas City Power & Light	48	32	General Electric	Kansas	2010
Laredo Ridge	Edison Mission Energy	81	54	General Electric	Nebraska	2010
Goat Mountain Phase II	Edison Mission Energy	69.6	29	Mitsubishi	Texas	2009
Notrees 1b	Duke Energy	60	40	General Electric	Texas	2009
ILEC Wind	Iowa Lakes Electric Coop	21	14	General Electric	Iowa	2009
Silver Sage Windfarm	Duke Energy	42	20	Suzlon	Wyoming	2009
Buffalo Ridge Wind	Avangrid Renewables, LLC	50.4	24	Suzlon	South Dakota	2009
Rugby Windfarm	Avangrid Renewables, LLC	149.1	71	Suzlon	North Dakota	2009
Wilton II	NextEra Energy Resources, LLC	49.5	33	General Electric	North Dakota	2009
Three Buttes/Campbell Hill	Duke Energy	100.5	67	General Electric	Wyoming	2009
Charles City	Berkshire Hathaway Energy	75	50	General Electric	Iowa	2008
Endeavor II	NextEra Energy Resources, LLC	50	20	Clipper	Iowa	2008
Baker Windfarm	Montana Dakota Utilities (MDU)	19.5	13	General Electric	Montana	2008
Notrees 1a	Duke Energy	90.7	55	Vestas	Texas	2008
Adair Windfarm	Berkshire Hathaway Energy	174.8	76	Siemens	Iowa	2008
Langdon II	NextEra Energy Resources, LLC	40.5	27	General Electric	North Dakota	2008
Barton Wind	Avangrid Renewables, LLC	160	80	Gamesa	Iowa	2008
Wessington Springs Wind	Pattern Energy Group, Inc.	51	34	General Electric	South Dakota	2008
Marengo II	RES Americas	77.4	43	Vestas	Washington	2008
Goat Mountain Phase I	Edison Mission Energy	80	80	Mitsubishi	Texas	2008
Winnebago	Avangrid Renewables, LLC	20	10	Gamesa	Iowa	2008
Century III	Berkshire Hathaway Energy	15	10	General Electric	Iowa	2008
Happy Jack Windfarm	Duke Energy	29.4	14	Suzlon	Wyoming	2008
Endeavor I	Clipper Windpower	100	40	Clipper	Iowa	2008
Jeffers Windfarm	Clipper Windpower	50	20	Clipper	Minnesota	2007
Top of Iowa II	Avangrid Renewables, LLC	80	40	Gamesa	Iowa	2007
Marengo I	RES Americas	140.4	78	Vestas	Washington	2007
Top of Iowa III	Madison Gas & Electric	29.7	18	Vestas	Iowa	2007
Oliver County II	NextEra Energy Resources, LLC	48	32	General Electric	North Dakota	2007
Wilton I	NextEra Energy Resources, LLC	49.5	33	General Electric	North Dakota	2006
Oliver County I	NextEra Energy Resources, LLC	50.6	22	Siemens	North Dakota	2006
Mower County	NextEra Energy Resources, LLC	99	43	Siemens	Minnesota	2006
Velva Windfarm	DES	12	18	Vestas	North Dakota	2005
2001-2004 Wind Projects	*Multiple Owners	85	89		North Dakota	2004
Edgeley/Kulm	NextEra Energy Resources, LLC	61.5	41	General Electric	North Dakota	2003
Totals		9,140.9	4,646.0			

W

WANZEK

a **MasTec** company 

Wanzek Construction | 4850 32nd Ave S, Fargo, ND 58104 | wanzek.com

Attachment B

Attachment B

THUNDER SPIRIT 2

DECOMMISSIONING PROJECT

PROPOSAL PROVIDED FOR MONTANA DAKOTA UTILITIES

Proposal Provided by

WANZEK

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On behalf of Wanzek Construction, thank you for the opportunity to present our capabilities as a qualified contractor for the Thunder Spirit 2 Decommissioning project. I welcome your comments and questions as you review the proposal and look forward to working with you.

Regards,



Jacob Nikle
Director of Operations, Repower
Wanzek Construction, Inc.
(701) 893-3629
jnikle@wanzek.com

PRICING



Our pricing methodology includes requesting multiple bids from reputable subcontractors and material suppliers to achieve the best value. Our knowledge and expertise allow us to maximize efficiency while providing clients with all-inclusive pricing. Our detailed quotation for the Thunder Spirit 2 Decommissioning project follows.



Project:	Thunder Spirit 2 Decommissioning
Proposal Type:	BOP Budget (2019 dollars)
Proposal Date:	9/17/2019
WTG # & Type:	16 x Nordex 3 MW, 91M HH, 117M rotor
Total MW:	48
Phase:	1
Location:	Hettinger, ND

Client Requested Breakout Sheet

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
1	Wind Turbine Removal	16	EA	\$ 116,812.85	\$ 1,869,005.60
2	Crane Mobilization	1	LS	\$ 218,617.79	\$ 218,617.79
3	Crane Rental	1	LS	\$ 250,482.17	\$ 250,482.17
4	Crane Teardowns	2	EA	\$ 30,361.91	\$ 60,723.82
5	Wind Turbine Hauling / Disposal	16	EA	\$ 90,147.66	\$ 1,442,362.56
6	Wind Turbine Foundation Removal	16	EA	\$ 8,149.64	\$ 130,394.24
7	Wind Turbine Foundation Hauling / Disposal	16	EA	\$ 2,794.62	\$ 44,713.92
8	Substation Removal	1	LS	\$ 209,280.92	\$ 209,280.92
9	Substation Hauling and Disposal	1	LS	\$ 81,387.02	\$ 81,387.02
10	Transmission Line Removal	4,800	LF	\$ 63.19	\$ 303,312.00
11	Civil Works Crushed Rock Surfacing Removal	34,103	LF	\$ 12.27	\$ 418,443.81
12	Civil Works Hauling / Disposal	1	LS	\$ 93,973.57	\$ 93,973.57
13	Civil Works Grading / Seeding Costs	1	LS	\$ 108,857.40	\$ 108,857.40
14	O&M Facility Removal	3,200	SF	\$ 16.11	\$ 51,552.00
15	O&M Facility Hauling / Disposal	1	LS	\$ 22,092.01	\$ 22,092.01
16	Met Tower Removal / Disposal	1	LS	\$ 42,956.68	\$ 42,956.68
17	Collection System Removal	1	LS	\$ 85,936.61	\$ 85,936.61
18	Contingency	1	LS	\$ 157,834.73	\$ 157,834.73
TOTAL PRICE (EXCLUDING PERFORMANCE BOND)					\$ 5,591,926.85

ALTERNATES

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
A	SCRAP VALUE OF COMPONENTS (See next page)	1	LS		\$ (1,513,040.00)



Project:	Thunder Spirit 2 Decommissioning
Proposal Type:	BOP Budget (2019 dollars)
Proposal Date:	9/17/2019
WTG Type:	Nordex 3 MW, 91M HH, 117M rotor X 16
Total MW:	48
Location:	Hettinger, ND

Salvage Value Worksheet

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
Mixed Steel					
1	Concrete WTG Foundation - Spread Footing Pedestal Rebar	64.00	TN	\$ (120.00)	\$ (7,680.00)
2	WTG Steel Towers - 91 Meter	3,472.00	TN	\$ (120.00)	\$ (416,640.00)
3	WTG Equipment - Hub Assemblies	480.00	TN	\$ (120.00)	\$ (57,600.00)
4	WTG Equipment - Nacelles	944.00	TN	\$ (120.00)	\$ (113,280.00)
5	WTG Equipment - Drivetrain	912.00	TN	\$ (120.00)	\$ (109,440.00)
6	Electrical Equipment - WTG Transformer 34.5KV	160.00	TN	\$ (120.00)	\$ (19,200.00)
7	Electrical Equipment - MP Transformer 34.5KV	67.00	TN	\$ (120.00)	\$ (8,040.00)
8	Electrical Equipment - Grounding Transformer 34.5KV	7.00	TN	\$ (120.00)	\$ (840.00)
9	Electrical Equipment - Poles, Risers, Structural, Misc.	60.00	TN	\$ (120.00)	\$ (7,200.00)
Copper					
10	WTG Equipment - Tower Cable	25.60	TN	\$ (4,000.00)	\$ (102,400.00)
11	WTG Equipment - Generators	64.00	TN	\$ (4,000.00)	\$ (256,000.00)
12	Electrical Equipment - WTG Transformer 34.5KV	32.00	TN	\$ (4,000.00)	\$ (128,000.00)
13	Electrical Equipment - MP Transformer 34.5KV	65.00	TN	\$ (4,000.00)	\$ (260,000.00)
14	Electrical Equipment - Grounding Transformer 34.5KV	5.00	TN	\$ (4,000.00)	\$ (20,000.00)
Aluminum					
15	Cable - Misc Wiring	33.60	TN	\$ (200.00)	\$ (6,720.00)
SALVAGE VALUE SUBTOTAL					\$ (1,513,040.00)
				Unit Cost	\$ (94,565.00)

Clarifications to Budgetary Pricing

General Clarifications

1. Wanzek has prepared pricing for strictly budgetary purposes, based on current market prices.
2. Wanzek has excluded any prevailing wage or union requirements.
3. Wanzek has excluded taxes. Applicable taxes will be paid by owner.

Site Clarifications

4. Wanzek assumes that access to and from the jobsite along with an adequate work area will be available without restriction.
5. Owner to provide adequate lay down area for storage of contractor materials, supplies and equipment storage and maintenance area.
6. Owner responsible for Landowner communications and dealings.
7. Wanzek excludes any state, or county road improvements and/or traffic control measures, barricades, or utility control, that may be required to operate at the jobsite.

Turbine Disassembly

8. Wanzek's pricing assumes the turbines will be deconstructed with a crane, following construction industry safety processes.
9. Wanzek's pricing includes downsizing the WTG components on site and hauling away for scrap. Approximate salvage value is listed on the second page of the pricing sheet, based on current market prices.

Civil Works

10. Pricing includes removal of 8" (average) of road aggregate and turbine beauty rings. Pricing assumes all removed material will be placed on nearby aggregate roads.
11. Foundation demo work assumes concrete will be disposed of offsite at 42" at Thunder Spirit Wind Farm, as per the land lease agreement. Structural steel will be removed and scrapped.
12. All areas will be de-compacted and graded to facilitate drainage using surrounding material. No imported fill has been considered.
13. Seeding has been included where necessary.

Collection System

14. Wanzek has included removal of pad mount transformers and box pads. Junction Boxes will also be removed.
15. Wanzek has included the removal of the substations and reclamation of the aggregate yards.
16. Wanzek has excluded the removal of underground collection cable deeper than 24" but will remove electrical components to a depth of 24" for the substation, transmission, and collection systems.

Shared Facilities

17. Removal of the following facilities shared with Thunder Spirit 1 has been included.
 - Substation
 - Transmission Line
 - O&M Building
 - Met Tower

Mobilization

Wanzek will mobilize the main crane (LR1750), support cranes, equipment and crews a week before disassembly will begin. Wanzek will also bring in a single wide trailer for site management to work.

Take Down Turbines

Wanzek will have two crews taking down the turbines. Crew #1 will prep the towers ahead of the main erection crane. Crew #2 will disassemble the turbines. Wanzek predicts that four to five towers per week will be taken down and placed on the ground.

Remove Collection System

Wanzek will remove the pad mount transformers and box pads. Collection cables will be removed to a depth of 24"; all collection materials below that depth will remain in place. All areas requiring reseeding will be seeded with approved seed mix.

Remove Substation

Wanzek will remove all fixtures and steel and haul off site. Foundations will be removed to a depth of 42" at Thunder Spirit, in compliance with the respective land lease agreements. All materials below that depth will remain in place. Substation fence will be removed and hauled away. Aggregate yard will be removed and distributed on nearby gravel roadways. All areas requiring reseeding will be seeded with approved seed mix.

Remove Transmission Line and Interconnect

Wanzek will remove conductor wire, ground wire, insulators and brackets from the poles. Risers and switches will be removed. Poles will be lifted out of the ground and hauled off site. Holes will be filled with native material and all areas requiring reseeding will be seeded with approved seed mix.

Remove Met Tower

Wanzek will remove 1 existing lattice MET tower at Thunder Spirit, including foundations to a depth of 42". Electrical cables will be removed to a depth of 24", all materials below that depth will remain in place. All areas requiring reseeding will be seeded with approved seed mix.

Remove O&M Building

Wanzek will demo and remove the building including foundation to a depth of 42". All materials below that depth will remain in place. All areas requiring reseeding will be seeded with approved seed mix.

Remove Foundations

Wanzek will excavate around the foundation following all OSHA requirements for excavations. We will remove the concrete to a depth of 42" using an excavator with a concrete breaker attachment. Once concrete is all broken up, the rebar and bolts will be removed (using a torch if needed) and placed in a steel dumpster. The excavations will be backfilled and compacted to 85%.

Remove Roads, Turbine Rings and Crane Pads

Wanzek will utilize motor grader, excavator and gravel truck to remove the existing gravel. All road gravel is assumed to be installed on adjacent gravel roads. All areas requiring seeding will be seeded with an approved seed mixture.

Equipment

Wanzek has included one main crane, support crane, two fork lifts, excavator, loader, generators, light plants, pickups, skid steer and all required tooling to disassemble a tower.

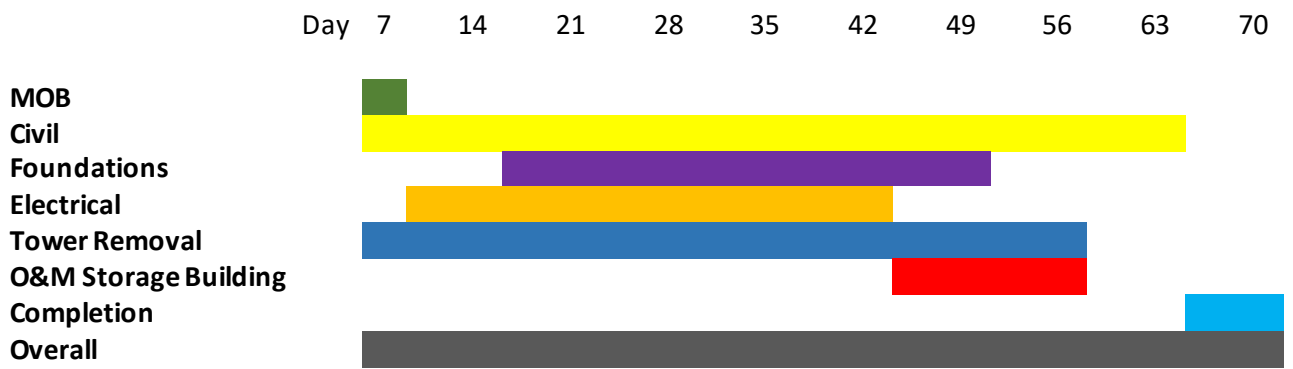
Trucking

Wanzek has assumed a maximum of a 90-mile haul and tipping fees of \$60 per ton.

PROJECT SCHEDULE

Our project schedulers focus on defined goals, realistic milestones and the resources needed to mitigate risk. Wanzek has included a high-level overview of the anticipated activity durations below:

Thunder Spirit Wind Farm Phase 2 Hettinger, ND





SAFETY

Safety is the cornerstone of our company culture and our dedicated safety personnel and employees work to make sure safe behavior is instinctive and automatic. Our focus on safety starts long before we mobilize to the field. It is a crucial part of reviewing and finalizing proposals, continues through project planning and is the responsibility of every Wanzek employee every day.

Our safety culture details follow.

WANZEK

a MasTec company

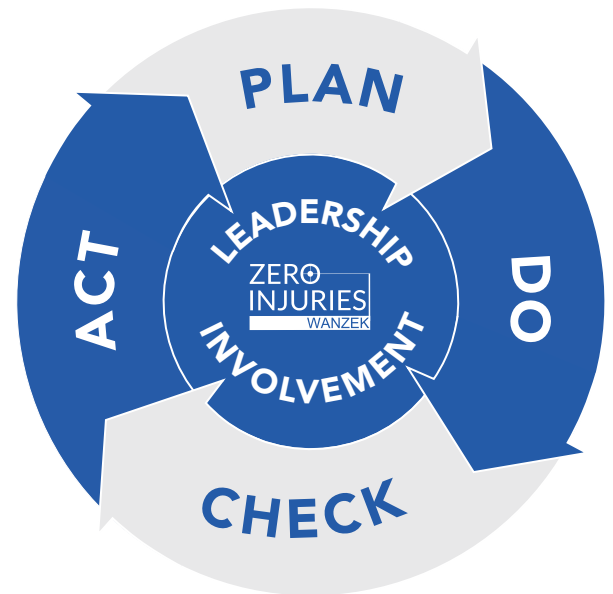
CULTURE OF SAFETY

TOTAL RECORDABLE INCIDENT RATE

2018	0.42
2017	0.73
2016	0.75
2015	0.88
2014	1.72
2013	1.77
2012	1.86
2011	1.59
2010	1.35
2009	2.02
2008	2.52

EMR

2018	0.51
2017	0.54
2016	0.55
2015	0.53
2014	0.45
2013	0.49
2012	0.61
2011	0.63



Our Safety Culture

Wanzek's safety process starts long before we mobilize to the field. Our focus on safety begins with reviewing proposals, continues through project planning and is the responsibility of every Wanzek employee, every day. We continuously work to improve our safety training and management systems, to hold every team member accountable and to ensure we hold ourselves to our vision of zero injuries. Our commitment includes a Zero Injury process to instill safety values in each employee and to ensure safe behavior is instinctive.



Stretch and Flex

The first of every morning, all personnel on the project will be present for the Stretch & Flex program. Subcontractor personnel are required to be present as well. This program prepares the worker to function both physically and mentally.

WANZEK CONSTRUCTION CULTURE OF SAFETY



Continual safety training and coaching is ongoing with each project.

Our Zero Injury System of Safety Excellence contains eight critical safety elements that focus on how we manage safety:

LEADERSHIP	Defines our expectations to lead and support the process
TRAINING	Outlines how we train and our expectations for training
R4	Provides the opportunity for employee engagement through active participation in our systems and through our employee observation and feedback program
PLANNING	Outlines the expectations of our pre-job planning activities such as the Pre-Task Plan (PTP), Job Hazard Analysis (JHA) Process and the Integrated Work Plan (IWP)
ASSESSMENTS	Defines how we review our safety process
INCIDENT MANAGEMENT	Is how we identify causes and system improvements to prevent recurrence
SUBCONTRACTOR MANAGEMENT	Ensures subcontractors' safety policies and procedures are equal to or greater than Wanzek's
METRICS	Is how we use both leading and lagging indicators



The R4 Observation Process was developed to reinforce safe behaviors and allows employees to contribute to the overall safety success of Wanzek. The process promotes the ongoing involvement of employees via employee R4 teams who conduct observations of peer employees performing work.

REVIEW + RECOGNIZE + RECOMMEND + REINFORCE

PROJECT EXPERIENCE

Project Name	Client	Megawatts	# of Generators	Turbine Manufacturer	State	COD
GW3S Prototype	Goldwind Americas	3.4	1	Goldwind	Texas	2018
Twin Buttes II	Avangrid Renewables, LLC	76	38	Gamesa	Colorado	2018
Aurora Brule Wind	Con Edison Development	41.4	18	General Electric	South Dakota	2018
Persimmon Creek	Scout Clean Energy	200.6	80	General Electric	Oklahoma	2018
Thunder Spirit II	Allete Clean Energy	48	16	Nordex	North Dakota	2018
Courtenay	Xcel - Minneapolis	200	100	Vestas	North Dakota	2017
Fluvanna Renewable Energy Project	Terna Energy USA	151.7	74	Vestas	Texas	2017
Cottonwood	NextEra Energy Resources, LLC	90	40	General Electric	Nebraska	2017
El Cabo	Avangrid Renewables, LLC	298	142	Gamesa	New Mexico	2017
Sterling	Akuo Energy USA, Inc.	29.9	13	General Electric	New Mexico	2017
Odell	Algonquin Power and Utilities Corp	200	100	Vestas	Minnesota	2016
Frontier Wind Power Project	Duke Energy	201.3	61	Vestas	Oklahoma	2016
Tyler Bluff (Muenster)	EDF Renewable Energy	123.1	52	Siemens	Texas	2016
Thunder Spirit	Allete Clean Energy	102.5	41	Nordex	North Dakota	2016
Desert Wind	Avangrid Renewables, LLC	208	104	Gamesa	North Carolina	2016
Prairie Breeze II	Invenergy	73.4	41	Vestas	Nebraska	2016
Prairie Breeze III	Invenergy	35.8	20	Nordex	Nebraska	2016
Los Vientos IV	Duke Energy	200	100	General Electric	Texas	2016
Los Vientos V	Duke Energy	110	55	General Electric	Texas	2016
Bow Lake	BluEarth Renewables inc	57.6	36	General Electric	Ontario	2015
Briscoe County Wind	Capital Dynamics	149.9	81	General Electric	Texas	2015
S111 Intsallation	Suzlon Wind Energy Corporation	2.1	1	Suzlon	Texas	2015
Stephens Ranch - Phase 2	Starwood Energy Group, LLC	164.7	92	General Electric	Texas	2015
Los Vientos III	Duke Energy	200	100	Vestas	Texas	2015
Lundgren	Berkshire Hathaway Energy	246.1	107	Siemens	Iowa	2014
Bison 4	Minnesota Power / Siemens	204.8	64	Siemens	North Dakota	2014
Stephens Ranch - Phase 1	Starwood Energy Group, LLC	200.6	118	General Electric	Texas	2014
G114 Prototype	Gamesa Energy	2	1	Gamesa	Texas	2014
Spring Canyon III	Invenergy	28.9	17	General Electric	Colorado	2014
Spring Canyon II	Invenergy	32.3	19	General Electric	Colorado	2014
Vienna II	Berkshire Hathaway Energy	43.7	19	Siemens	Iowa	2013
Lakeswind	Rockland Capital	51.2	32	General Electric	Minnesota	2013
Spinning Spur Wind Ranch	Cielo Wind Power, LP	161	70	Siemens	Texas	2013
Los Vientos Wind - 1A	Duke Energy	200	87	Siemens	Texas	2013
Santa Isabel	Pattern Energy Group, Inc.	101.2	44	Siemens	Puerto Rico	2013
Busch Ranch	Black Hills Corporation	28	16	Vestas	Colorado	2013
Morninglight Windfarm	Berkshire Hathaway Energy	101.2	44	Siemens	Iowa	2013
Crofton Bluffs Wind	Edison Mission Energy	42	22	Vestas	Nebraska	2013
Eclipse Wind	Berkshire Hathaway Energy	200	87	Siemens	Iowa	2013
Huerfano River	Sany Group	8	4	Sany	Colorado	2013
Meadow Creek Wind	Ridgeline Energy, LLC	119.7	57	Suzlon	Idaho	2013
Pillar Mountain II	Kodiak Electric Association, Inc.	4.5	3	General Electric	Alaska	2012
Ironwood Wind	Duke Energy	168	73	Siemens	Kansas	2012
Cimarron Wind II	Duke Energy	131	57	Siemens	Kansas	2012
Cimarron Wind I	CPV	165	72	Siemens	Kansas	2012
Broken Bow Wind - Ph I	Edison Mission Energy	80	50	General Electric	Nebraska	2012
Los Vientos Wind - 1B	Duke Energy	201.6	84	Mitsubishi	Texas	2012
Panhandle Wind Ranch	Cielo Wind Power, LP / Golden Spread Electric Cooperative	78.2	34	Siemens	Texas	2011
Taloga Wind	Edison Mission Energy	129.6	54	Mitsubishi	Oklahoma	2011
New Harvest Wind	Avangrid Renewables, LLC	100	50	Gamesa	Iowa	2011
Crow Lake	Basin Electric Power Cooperative	162	108	General Electric	South Dakota	2011
Rockland Wind Farm	Ridgeline Energy, LLC	79.2	44	Vestas	Idaho	2011
Diamond Willow	Montana Dakota Utilities (MDU)	10.5	7	General Electric	Montana	2010
Top of the World a	Duke Energy	101.2	44	Siemens	Wyoming	2010
Buffalo Ridge Wind II	Avangrid Renewables, LLC	210	105	Gamesa	South Dakota	2010
Cedro Hill Wind	Edison Mission Energy	150	100	General Electric	Texas	2010
Top of the World b	Duke Energy	99	66	General Electric	Wyoming	2010
Cedar Hills	Montana Dakota Utilities (MDU)	19.5	13	General Electric	North Dakota	2010
Red Mesa Windfarm	NextEra Energy Resources, LLC	102.4	64	General Electric	New Mexico	2010

PROJECT EXPERIENCE

Project Name	Client	Megawatts	# of Generators	Turbine Manufacturer	State	COD
Kit Carson Windfarm	Duke Energy	51	34	General Electric	Colorado	2010
Spearville II	Kansas City Power & Light	48	32	General Electric	Kansas	2010
Laredo Ridge	Edison Mission Energy	81	54	General Electric	Nebraska	2010
Goat Mountain Phase II	Edison Mission Energy	69.6	29	Mitsubishi	Texas	2009
Notrees 1b	Duke Energy	60	40	General Electric	Texas	2009
ILEC Wind	Iowa Lakes Electric Coop	21	14	General Electric	Iowa	2009
Silver Sage Windfarm	Duke Energy	42	20	Suzlon	Wyoming	2009
Buffalo Ridge Wind	Avangrid Renewables, LLC	50.4	24	Suzlon	South Dakota	2009
Rugby Windfarm	Avangrid Renewables, LLC	149.1	71	Suzlon	North Dakota	2009
Wilton II	NextEra Energy Resources, LLC	49.5	33	General Electric	North Dakota	2009
Three Buttes/Campbell Hill	Duke Energy	100.5	67	General Electric	Wyoming	2009
Charles City	Berkshire Hathaway Energy	75	50	General Electric	Iowa	2008
Endeavor II	NextEra Energy Resources, LLC	50	20	Clipper	Iowa	2008
Baker Windfarm	Montana Dakota Utilities (MDU)	19.5	13	General Electric	Montana	2008
Notrees 1a	Duke Energy	90.7	55	Vestas	Texas	2008
Adair Windfarm	Berkshire Hathaway Energy	174.8	76	Siemens	Iowa	2008
Langdon II	NextEra Energy Resources, LLC	40.5	27	General Electric	North Dakota	2008
Barton Wind	Avangrid Renewables, LLC	160	80	Gamesa	Iowa	2008
Wessington Springs Wind	Pattern Energy Group, Inc.	51	34	General Electric	South Dakota	2008
Marengo II	RES Americas	77.4	43	Vestas	Washington	2008
Goat Mountain Phase I	Edison Mission Energy	80	80	Mitsubishi	Texas	2008
Winnebago	Avangrid Renewables, LLC	20	10	Gamesa	Iowa	2008
Century III	Berkshire Hathaway Energy	15	10	General Electric	Iowa	2008
Happy Jack Windfarm	Duke Energy	29.4	14	Suzlon	Wyoming	2008
Endeavor I	Clipper Windpower	100	40	Clipper	Iowa	2008
Jeffers Windfarm	Clipper Windpower	50	20	Clipper	Minnesota	2007
Top of Iowa II	Avangrid Renewables, LLC	80	40	Gamesa	Iowa	2007
Marengo I	RES Americas	140.4	78	Vestas	Washington	2007
Top of Iowa III	Madison Gas & Electric	29.7	18	Vestas	Iowa	2007
Oliver County II	NextEra Energy Resources, LLC	48	32	General Electric	North Dakota	2007
Wilton I	NextEra Energy Resources, LLC	49.5	33	General Electric	North Dakota	2006
Oliver County I	NextEra Energy Resources, LLC	50.6	22	Siemens	North Dakota	2006
Mower County	NextEra Energy Resources, LLC	99	43	Siemens	Minnesota	2006
Velva Windfarm	DES	12	18	Vestas	North Dakota	2005
2001-2004 Wind Projects	*Multiple Owners	85	89		North Dakota	2004
Edgeley/Kulm	NextEra Energy Resources, LLC	61.5	41	General Electric	North Dakota	2003
Totals		9,140.9	4,646.0			

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