

Badger Wind Project
Summary of Project Adjustments

Since Badger Wind, LLC (“Badger Wind”) filed its Certificate of Site Compatibility Application (“Application”) on February 25, 2022, Badger Wind has continued to gather information for, and coordinate with agencies and landowners on, the Badger Wind Project (“Project”). As a result, Badger Wind has made minor adjustments to the Project Area and layout. The updated Project layout was filed with the North Dakota Public Service Commission (“PSC”) on May 26, 2022. The minor adjustments to the layout and Project Area compared to what was filed with the Application are also depicted in the Comparison Figure (proposed **BW Exhibit 3**) and updated Application Figures 1-11 (proposed **BW Exhibit 2**).

Project Area

During title review, Badger Wind determined that a small quarter-quarter section of land had been carved out of a parcel prior to being leased by Badger Wind, and a second small parcel on the edge of the Project Area boundary was not fully excluded from the Project Area. As a result, the Project Area has been updated to show these two parcels and the residence associated with the first parcel as nonparticipating. The same changes have been made in the sound and shadow flicker modeling. The corrections do not impact the Project layout, which remains in compliance with all applicable setback and sound requirements. There are now approximately 31,467.45 acres in the Project Area.

Project Layout

Badger Wind coordinated with the Federal Aviation Administration (“FAA”) to make minor shifts to two turbine locations (now Turbines 33-A and 70-A) to address the FAA’s concerns. Adjustments have also been made to some collection lines, access roads, and crane path locations based on further site analysis and landowner coordination. As noted above, the final Project layout was filed with the PSC on May 26, 2022.

Notable changes in impacts are described as follows. The current Project layout will result in approximately 11.51 acres of temporary impacts to delineated wetlands, which is a reduction of 1.89 acres. Collection lines intersect one perennial watercourse (reduced from two); however, collection lines will be bored under this watercourse, thereby avoiding impacts. The changes to the current layout impact numbers compared to the previous layout impact numbers result in an overall smaller footprint of facilities. Calculations are based on all proposed turbine locations; however, since only up to 74 turbines will be constructed, the actual temporary and permanent impacts will be less.

Table 4-3: Summary of Temporary and Permanent Footprints from Project Facilities (acres)¹
Revised June 2022

Project Facility	Description of Footprint	Previous Layout		Current Layout	
		Temporary ²	Permanent ²	Temporary ²	Permanent ²
Turbines	79 turbines (includes five alternates), 50-foot radius turbine pad, 250-foot radius temporary construction workspace	272.45	14.24	277.87	14.24
Access Roads	16-foot-wide road, 100-foot-wide temporary construction workspace	388.12	73.95	336.92	59.46
Crane Paths	100-foot-wide temporary disturbance area	34.24	0.00	44.05	0.00
Electrical Collection and Communication Lines	75-foot-wide corridor for collection lines	575.96	0.00	522.65	0.00
ADLS	0.5-acre ADLS tower site	0.47	0.06	0.47	0.06
MET Towers	Five possible locations are included, but only three permanent MET towers will be constructed (the current project layout includes two alternate sites); each MET tower location has a 50-square-foot permanent disturbance area	0.00	0.27	0.00	0.28
Project Facilities	Includes laydown/staging areas, O&M facility, and substation footprints	90.20	3.73 (2.05 project substation; 1.68 O&M facility)	88.08	3.73

Table 4-3: Summary of Temporary and Permanent Footprints from Project Facilities (acres)¹
Revised June 2022

Project Facility	Description of Footprint	Previous Layout		Current Layout	
		Temporary ²	Permanent ²	Temporary ²	Permanent ²
Total		1,361.44	92.26	1,270.04	77.77

¹ Because the Project has collocated facilities, double counting of potential impacts has been accounted for by first calculating permanent impacts, then calculating temporary impacts from electrical collection and communication lines (ground disturbance), then turbine workspace, crane paths, access roads, and facility footprints.

² Rounding has been applied to all values.

Table 6-4: Project Summary of Land Cover Impacts
Revised June 2022

Land Cover Type	Impacts			
	Previous Layout		Current Layout	
	Temporary (acres) ¹	Permanent (acres) ¹	Temporary (acres) ¹	Permanent (acres) ¹
Cropland	907.58	65.34	849.66	56.73
Developed	0.87	0.02	0.52	0.00
Mixed-grass Prairie	184.12	9.28	182.27	7.95
Pasture/Hayland	67.88	4.15	58.92	3.16
Planted Grassland	62.20	2.61	59.28	2.78
Planted Herbaceous	10.90	0.43	9.52	0.41
Planted Woodland	12.22	0.75	11.87	0.40
Prairie Pothole	0.48	0.00	0.31	0.00
Riparian Herbaceous	27.96	0.74	24.43	0.73
Riparian Woodland	0.00	0.00	0.00	0.00
Roads	87.23	8.94	73.27	4.77
Tallgrass Prairie	0.00	0.00	0.00	0.00
Wooded Draw/Ravine Woodland	0.01	0.00	0.00	0.00
Total	1,361.45	92.26	1,270.04	76.92

Source: (USGS 2020)

¹ Rounding has been applied to all values.

Table 6-7: Summary of Permanent Impacts to Prime Farmland
Revised June 2022

Farmland Classification	Previous Layout	Current Layout
	Permanent Facility Acres ¹	Permanent Facility Acres ¹
Prime Farmland ²	7.24	6.68
Farmland of Statewide Importance	40.39	32.41
Not Prime Farmland	44.64	37.83
Total	92.28	76.92

¹ Acres of impacts includes all permanent facilities (turbines, access roads, project substation, and O&M facility). Rounding has been applied to all values.

² This includes soils classified as prime farmland or prime farmland if the limiting factor is mitigated (e.g., by draining or irrigating).