Exhibit C

Project Location and Maps

Nolin Hills Wind Power Project
February-November 2020

Prepared for

Capital Power
RESPONSIBLE ENERGY FOR TOMORROW

d/b/a Nolin Hills Wind, LLC

Prepared by

Tetra Tech, Inc.
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## Acronyms and Abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
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<tbody>
<tr>
<td>Applicant</td>
<td>Nolin Hills Wind, LLC</td>
</tr>
<tr>
<td>ASC</td>
<td>Application for Site Certificate</td>
</tr>
<tr>
<td>BESS</td>
<td>battery energy storage system</td>
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<td>GE</td>
<td>General Electric</td>
</tr>
<tr>
<td>kV</td>
<td>kilovolt</td>
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<td>MW</td>
<td>megawatt</td>
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<td>OAR</td>
<td>Oregon Administrative Rules</td>
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<td>O&amp;M</td>
<td>Operations and maintenance building</td>
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<td>Project</td>
<td>Nolin Hills Wind Power Project</td>
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1.0 Introduction

Nolin Hills Wind, LLC (the Applicant) proposes to construct the Nolin Hills Wind Power Project (Project), a wind and solar energy project with a nominal generating capacity of approximately 350-600 megawatts (MW) and up to 117.397 average MW of energy (preliminarily 340 MW of wind generation and 260 MW of solar generation) located in Umatilla County, Oregon. The Project comprises up to 116-112 wind turbine generators, depending on the turbine model selected and the final layout determined during the micrositing process. If larger turbines are selected, fewer turbines will be installed. The solar array will include up to approximately 1,117,591 solar modules, depending on the final technology and layout selected. The Project will interconnect to the regional grid via either a transmission line leading from the northern Project substation northwest to the Umatilla Electric Cooperative Cottonwood Substation in Hermiston, or a new 230-kilovolt transmission line to the proposed Bonneville Power Administration Stanfield Substation, north of the town of Nolin. Other Project components include electrical collection lines, substations, a battery energy storage system (BESS), site access roads, one operations and maintenance building, meteorological data collection towers, and temporary construction yards. These facilities are all described in greater detail in Exhibit B. This exhibit contains information about the location of the Project under Oregon Administrative Rules (OAR) 345-021-0010(1)(c).

2.0 General Location – OAR 345-021-0010(1)(c)(A)

OAR 345-021-0010(1)(c) Information about the location of the proposed facility, including:

OAR 345-021-0010(1)(c)(A) A map or maps showing the proposed locations of the energy facility site, all related or supporting facility sites and all areas that might be temporarily disturbed during construction of the facility in relation to major roads, water bodies, cities and towns, important landmarks and topographic features, using a scale of 1 inch = 2000 feet or smaller when necessary to show detail;

The Project is entirely in northwestern Umatilla County, Oregon, as shown on the following maps:

- Figure C-1 is a vicinity map showing county and state boundaries, major roads, communities, and other recognizable features within approximately 40 miles of the Project.
- Figure C-2 is a facility location map depicting the proposed Site Boundary in relation to nearby major roads, water bodies, cities and towns, county boundaries, land ownership categories, and other geographic features.
- Figure C-3 shows other energy generation facilities that are known to be operating or proposed within 10 miles of the proposed Site Boundary.
- Figure C-4 provides site layout detail maps for Turbine Option 1, which consists of up to 58 full Site Boundary Siemens Gamesa 6.0 MW turbines. Figures include large-scale
maps (Figures C-4.1 through C-4.38) showing the proposed micrositing corridor, and wind turbine configuration, and solar siting area boundary, including the locations of related or supporting facilities.

Figure C-5 provides site layout detail maps for Turbine Option 2, which consists of up to 116 General Electric (GE) 3.03-MW turbines. Figures include large-scale maps (Figures C-5.1 through C-5.38) showing the proposed micrositing corridor and wind turbine configuration, including the locations of related or supporting facilities.

- Figure C-5 provides site layout details centered on the solar siting area, including illustrating the location of BESS options.

Although Figures C-4 and C-5 show turbine Project component locations, the intent of this application is to permit the micrositing corridors and solar siting area within the Site Boundary. Therefore, the turbine locations and solar array configuration as shown should be considered conceptual in nature and representative of a constructible design. These turbine location/site plans are used for impact calculation purposes only, and are subject to change at the time of construction, with impacts less than or equal to the impacts presented in the Application for Site Certificate (ASC).

### 3.0 Location and Disturbance Areas – OAR 345-021-0010(1)(c)(B)

OAR 345-021-0010(1)(c)(B) A description of the location of the proposed energy facility site, the proposed site of each related or supporting facility and areas of temporary disturbance, including the total land area (in acres) within the proposed site boundary, the total area of permanent disturbance, and the total area of temporary disturbance. If a proposed pipeline or transmission line is to follow an existing road, pipeline or transmission line, the applicant must state to which side of the existing road, pipeline or transmission line the proposed facility will run, to the extent this is known;

The proposed Site Boundary encompasses a total of approximately 48,077.196 acres of privately-owned land. Table C-1 identifies the Public Land Survey System sections in which the Site Boundary is located.

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<tr>
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<th>Range</th>
<th>Section</th>
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<td>30E</td>
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<tr>
<td>2N</td>
<td>28E</td>
<td>1, 12</td>
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<td>2N</td>
<td>29E</td>
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<tr>
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<td>30E</td>
<td>2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36</td>
</tr>
</tbody>
</table>
As noted in Exhibit B, a micrositing corridor is established within the Site Boundary. Project facilities will be constructed within the micrositing corridor. This approach allows some flexibility with specific component locations and design in response to site-specific conditions and engineering requirements that will be determined prior to construction. The micrositing corridor includes approximately 13,968 - 15,726 acres. Within this area, the solar sitting area encompasses 1,896 acres to accommodate the solar array, BESS, and associated roads and electrical infrastructure.

As described in Exhibit B, in order to allow flexibility in the choice of wind turbines available at the time of construction, this ASC analyzes impacts for two turbine models and number of turbines under consideration for the Project, that represent a range of alternative turbine technologies. For each of the two turbine models, a sample layout, including related or supporting facilities, has been prepared to represent maximum potential impacts. Turbine Option 1 utilizes up to 58 Siemens Gamesa 6.0-MW turbines, along with the related or supporting facilities needed to support energy generation and transmission. Turbine Option 2 utilizes up to 116 112 General Electric 3.03-MW turbines, along with their corresponding related or supporting facilities. The final layout will have 58 to 116 turbines, with any combination of turbines within the size and characteristics described herein. The total number of turbines will not exceed 116112, and the total wind generation capacity will not exceed 350 MW.

Analyzing impacts for two turbine types allows for the representation of a range of turbine technologies that are currently available. The solar configuration may also differ from that depicted in Figure C-5; however, solar facilities, including the BESS, will only be constructed within the solar sitting area and the total area will not exceed the maximum 1,896-acre disturbance provided in this exhibit.

Table C-2 presents assumptions regarding disturbance areas related to the Project. These assumptions were used to calculate areas of temporary and permanent disturbance for Turbine Option 1 and Turbine Option 2, as presented in Attachment C-1, and Attachment C-2, respectively.
<table>
<thead>
<tr>
<th>Disturbance Type</th>
<th>Temporary Disturbance</th>
<th>Permanent Disturbance</th>
</tr>
</thead>
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<tr>
<td>Wind Turbines</td>
<td>6.5 acres per turbine based on a 600-foot-diameter circle, subtracting the permanent disturbance area. Includes a temporary laydown area at each turbine location.</td>
<td>5,274 square feet per turbine, based on a 82-foot-diameter circle; includes gravel area of pad, transformer, foundation, and gravel area for each tower.</td>
</tr>
<tr>
<td>Overhead 34.5-kilovolt (kV) Collector Lines</td>
<td>35-foot corridor for vehicle traffic and laydown along the full extent of the overhead collector lines, subtracting the overlapping permanent road disturbance area.</td>
<td>3-foot-diameter footprint per pole; monopole structures spaced approximately 225 feet apart; within solar siting area, disturbance included in overall total.</td>
</tr>
<tr>
<td>Underground 34.5-kV Collector Lines</td>
<td>35-foot corridor per collector line (with overlap merged for adjacent lines) for trench width, vehicle traffic, and laydown along the full extent of the underground collector line route, subtracting overlapping permanent road disturbance area.</td>
<td>No permanent disturbance; within solar siting area, disturbance included in overall total.</td>
</tr>
<tr>
<td>230-kV Project Substation Connector Line</td>
<td>40,200-foot corridor for vehicle traffic and laydown along the full length of route, except in identified locations of sensitive habitat where narrowed to 50-foot corridor, and in addition, 0.75 acres per pulling and tensioning area.</td>
<td>4-foot-diameter footprint per pole, two poles per structure (H-frame configuration) spaced approximately 600 feet apart.</td>
</tr>
<tr>
<td>230-kV Umatilla Electric Cooperative Cottonwood Transmission Line Route</td>
<td>122,200-foot corridor for vehicle traffic and laydown along the full length of route, except in identified locations of sensitive habitat where narrowed to 50-foot corridor.</td>
<td>5-foot-diameter footprint per pole with small percentage 10-foot diameter footprint (average 21 square feet per pole); monopole structures spaced approximately 600 feet apart.</td>
</tr>
<tr>
<td>230-kV Bonneville Power Administration Stanfield Transmission Line Route</td>
<td>108,200-foot corridor for vehicle traffic and laydown along the full length of route, except in identified locations of sensitive habitat where narrowed to 50-foot corridor. As only one would be used, acreage for the larger of the two alternative corridor locations included in disturbance.</td>
<td>4-foot-diameter footprint per pole, two poles per structure (H-frame configuration) spaced approximately 600 feet apart. As only one would be used, acreage for the larger of the two alternative corridor locations included in disturbance.</td>
</tr>
<tr>
<td>Meteorological Towers</td>
<td>154,750 square-feet per tower, subtracting the permanent tower disturbance area.</td>
<td>1,764 square feet per tower, includes an approximately 24-by 24-foot foundation with surrounding gravel area extending approximately 18 feet beyond the edge of the foundation, for a total 42-by 42-foot permanent area.</td>
</tr>
<tr>
<td>Disturbance Type</td>
<td>Temporary Disturbance</td>
<td>Permanent Disturbance</td>
</tr>
<tr>
<td>------------------------------------------</td>
<td>--------------------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Existing Access Roads to Be Improved</td>
<td>66-foot disturbance width, consisting of an 82-foot corridor, less the width of the existing road (assumed 16-foot width).</td>
<td>No permanent disturbance.</td>
</tr>
<tr>
<td>New Access Roads</td>
<td>66-foot disturbance width, consisting of an 82-foot corridor, less the 16-foot width of the permanent road disturbance.</td>
<td>16-foot corridor along the full length of all new access roads; within solar siting area, disturbance included in overall total.</td>
</tr>
<tr>
<td>Crane Paths</td>
<td>75-foot corridor for crane paths not co-located with new or existing access roads; where adjacent to access roads, subtracted overlapping permanent road disturbance.</td>
<td>No permanent disturbance.</td>
</tr>
<tr>
<td>Substations</td>
<td>50-foot buffer width from edge of permanent impact area of each substation.</td>
<td>10.5 acres for the northern substation and 5.9 acres for the southern substation, as designed, for maximum potential permanent disturbance. For calculation, northern substation within permanent footprint of solar siting area.</td>
</tr>
<tr>
<td>Construction Yards</td>
<td>1 central construction staging area (includes batch plant); 11 small distributed staging areas; all other temporary laydown areas adjacent to turbine locations or included in temporary impact corridors.</td>
<td>No permanent disturbance at distributed staging areas; for maximum calculation, central construction yard within permanent footprint of solar siting area.</td>
</tr>
<tr>
<td>O&amp;M (Operations and Maintenance) Building</td>
<td>50-foot buffer width from edge of permanent impact area of the O&amp;M Building.</td>
<td>7.6 acres fenced enclosure; within permanent footprint of solar siting area.</td>
</tr>
<tr>
<td>Solar Siting Area</td>
<td>6-foot exterior buffer along full length of fence line. All disturbance within fence line assumed to be permanent.</td>
<td>Entire area within fence line assumed to be permanently disturbed (approx. 1,896 acres); includes interior access roads, 34.5-kV collector lines, all solar and BESS components, as well as Project facilities noted as within fence line for purposes of maximum calculation (i.e., central construction yard, northern Project substation, O&amp;M Building). Actual fencing of individual components may be constructed differently within overall permanent footprint.</td>
</tr>
</tbody>
</table>

The individual component impact areas (for roads, laydown areas, towers, etc.) were calculated using preliminary design data, and represent the Applicant’s best estimate of preliminary impacts for each
component. However, the individual component impacts do not sum to the totals shown at the bottom of each table in Attachment C-1 and Attachment C-2. This is because many of the individual component impact areas will overlap, including but not limited to the features noted above in Table C-2 that are depicted within the solar siting area for analysis; simply summing the component impact areas would indicate greater impacts than would actually occur. Instead, the totals were calculated using consolidated data, with areas of overlap eliminated, to estimate total temporary and permanent impact areas. In addition, while Figure C-4 depicts two alternative corridors for the BPA Stanfield 230-kV transmission line route where it parallels the existing 500-kV transmission line, only the maximum disturbance from selecting a single corridor is included in the impact calculation. As a result, Turbine Option 1—the Project will temporarily impact a total of approximately 1,821 acres and permanently impact approximately 2,075 acres. Turbine Option 2 will temporarily impact approximately 1,821 acres and permanently impact approximately 123 acres (Attachments C-1 and C-2).

4.0 Relation to Other Energy Generation Facilities – OAR 345-021-0010(1)(c)(C)

OAR 345-021-0010(1)(c)(C) For energy generation facilities, a map showing the approximate locations of any other energy generation facilities that are known to the applicant to be permitted at the state or local level within the study area as defined in OAR 345-001-0010 for impacts to public services.

Figure C-3 shows the location of the Project in relation to other energy generation facilities that are known to the Applicant to be permitted or proposed at the state or local level within 10 miles of the Site Boundary. Based on the level of detail available in current data, Figure C-3 includes energy generation facilities currently operating and proposed; proposed facilities may include some that are already permitted, and others under state or local review. Within 10 miles of the Site Boundary, there are four one operating wind farms: the Combine Hills, Echo, Stateline, and Vansycle Ridge Wind Energy Facilities. In addition, the Wheatridge Wind Energy Facility is currently under construction in Morrow County. Other currently operating energy facilities in the study area include two hydropower plant and two natural gas plants, as well as several in-service transmission lines. Additional proposed facilities within the study area include two hydropower projects, four natural gas projects, eight solar projects, part of one proposed wind project, and three proposed transmission lines (Figure C-3). Figure C-3 also shows facilities identified outside of the 10-mile study area.
Figures
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PROPOSED SITE BOUNDARY
MICROSITING CORRIDOR
PROPOSED UEC
TRANSMISSION LINE ROUTE, 230-KV
LIMITS OF TEMPORARY DISTURBANCE
UEC COTTONWOOD SUBSTATION
INTERSTATE HIGHWAY
SECONDARY ROAD
RAILROAD
COUNTY BOUNDARY

DATA SOURCES

- Capital Power-Project Infrastructure
- USDA-Aerial Imagery
- ESRI-Roads

NOT FOR CONSTRUCTION
Figure C-4.3
Project Layout
Detail Mapbook

Data Sources:
Capital Power-Project Infrastructure; USDA-Aerial Imagery; ESRI-Roads

NOT FOR CONSTRUCTION
Nolin Hills Wind Power Project

Figure C-4.4
Project Layout
Detail Mapbook

UMARTILLA COUNTY, OREGON

Data Sources
Capital Power-Project Infrastructure; USDA-Aerial Imagery; ESRI-Roads

NOT FOR CONSTRUCTION
Nolin Hills
Wind Power Project

Figure C-4.7
Project Layout
Detail Mapbook

Data Sources
Capital Power-Project Infrastructure;
USDA-Aerial Imagery; ESRI-Roads

NOT FOR CONSTRUCTION
Figure C-4.9
Project Layout
Detail Mapbook

Data Sources
- Capital Power-Project Infrastructure;
- USDA-Aerial Imagery;
- ESRI-Roads

NOT FOR CONSTRUCTION
Proposed Site Boundary
Micrositing Corridor
Proposed UEC
Transmission Line Route, 230-kV
Limits of Temporary Disturbance
County Boundary

Data Sources
Capital Power: Project Infrastructure; USDA: Aerial Imagery; ESRI: Roads

NOT FOR CONSTRUCTION
Nolin Hills
Wind Power Project

Figure C-4.12
Project Layout
Detail Mapbook

UMARILLA COUNTY, OREGON

Proposed Site Boundary
Micrositing Corridor
County Boundary

Data Sources
Capital Power-Project Infrastructure; USDA-Aerial Imagery; ESRI-Roads

NOT FOR CONSTRUCTION
Figure C-4.14
Project Layout
Detail Mapbook

Data Sources
Capital Power - Project Infrastructure; USDA - Aerial Imagery; ESRI - Roads

NOT FOR CONSTRUCTION
See Figure C-5 for Solar Area Details.
Nolin Hills
Wind Power Project

Figure C-4.17
Project Layout
Detail Mapbook

UMARILLA COUNTY, OREGON

Data Sources
- Capital Power-Project Infrastructure
- USDA-Aerial Imagery
- ESRI-Roads

NOT FOR CONSTRUCTION
See Figure C-5 for Solar Area Details.
See Figure C-5 for Solar Area Details

Figure C-4.20
Project Layout
Detail Mapbook

UMARILLA COUNTY, OREGON

Data Sources
Capital Power-Project Infrastructure;
USDA-Aerial Imagery; ESRI-Roads

NOT FOR CONSTRUCTION
Nolin Hills Wind Power Project

Figure C-4.23
Project Layout Detail Mapbook

UMARILLA COUNTY, OREGON

Data Sources
Capital Power-Project Infrastructure; USDA-Aerial Imagery; ESRI-Roads

NOT FOR CONSTRUCTION
See Figure C-6 for Solar Area Details

Nolin Hills
Wind Power Project

Figure C-4.24
Project Layout
Detail Mapbook

UMATILLA COUNTY, OREGON

Proposed Site Boundary
Micrositing Corridor
Proposed Turbines
Access Road (New)
Proposed Transportation Route
Underground Collector Line
Proposed Crane Path
Limits of Temporary Disturbance
Solar Siting Area
Secondary Road
County Boundary

Data Sources
Capital Power-Project Infrastructure;
USDA-Aerial Imagery; ESRI-Roads

NOT FOR CONSTRUCTION
Figure C-4.26
Project Layout
Detail Mapbook

Data Sources:
Capital Power-Project Infrastructure; USDA-Aerial Imagery; ESRI-Roads

NOT FOR CONSTRUCTION

Proposed Site Boundary
Micrositing Corridor
Proposed Turbines
Access Road (New)
Underground Collector Line
Proposed Crane Path
Limits of Temporary Disturbance
County Boundary

UMARILLA COUNTY, OREGON

Reference Map

Proposed Site Boundary
Micrositing Corridor
Proposed Turbines
Access Road (New)
Underground Collector Line
Proposed Crane Path
Limits of Temporary Disturbance
County Boundary

NOT FOR CONSTRUCTION
Nolin Hills
Wind Power Project

Figure C-4.27
Project Layout
Detail Mapbook

DATA SOURCES
Capital Power - Project Infrastructure;
USDA - Aerial Imagery; ESRI - Roads

NOT FOR CONSTRUCTION
Figure C-4.28
Project Layout
Detail Mapbook

Umatilla County, Oregon

Reference Map

Data Sources
Capital Power-Project Infrastructure;
USDA-Aerial Imagery; ESRI-Roads

NOT FOR CONSTRUCTION
Nolin Hills
Wind Power Project

Figure C-4.32
Project Layout
Detail Mapbook

Data Sources
Capital Power-Project Infrastructure; USDA-Aerial Imagery; ESRI-Roads

NOT FOR CONSTRUCTION
Figure C-4.34
Project Layout
Detail Mapbook

Data Sources
- Capital Power-Project Infrastructure
- USDA-Aerial Imagery
- ESRI-Roads

NOT FOR CONSTRUCTION
Figure C-4.36
Project Layout
Detail Mapbook

Reference Map

UMARILLA COUNTY, OREGON

WGS 1984 UTM Zone 11N
1:10,000

Proposed Site Boundary
Micrositing Corridor
Proposed Turbines
Access Road (New)
Underground Collector Line
Proposed Crane Path
Proposed Laydown Area
Limits of Temporary Disturbance
Secondary Road
County Boundary

Data Sources
Capital Power-Project Infrastructure;
USDA-Aerial Imagery; ESRI-Roads

NOT FOR CONSTRUCTION
Nolin Hills Wind Power Project

Reference Map

Figure C-4.38
Project Layout
Detail Mapbook

UMARILLA COUNTY, OREGON

Data Sources
- Capital Power-Project Infrastructure;
- USDA-Aerial Imagery;
- ESRI-Roads

NOT FOR CONSTRUCTION
Attachment C-1. Temporary and Permanent Impacts (Acres) for Turbine Option 1
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<table>
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<tr>
<th>Temporary Impacts for Turbine Option 1 – 58 Siemens-Gamesa 6.0-MW Turbines Project</th>
<th>Units</th>
<th>Dimensions per Unit</th>
<th>Number of Units</th>
<th>Temporary Disturbance Acres(^1)</th>
<th>Units</th>
<th>Dimensions per Unit</th>
<th>Number of Units</th>
<th>Permanent Disturbance Acres</th>
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<tr>
<td>Wind Turbines</td>
<td>Acres</td>
<td>6.5</td>
<td>58</td>
<td>369.5</td>
<td>Square feet per tower</td>
<td>5,274</td>
<td>58</td>
<td>7.0</td>
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<td>Feet of width per linear foot</td>
<td>35</td>
<td>15.6 (mi)</td>
<td>56.0</td>
<td>Square feet per structure</td>
<td>7.1</td>
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<td>Underground 34.5-kV Collector Lines</td>
<td>Feet of width per linear foot</td>
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<td>59.2 (mi)</td>
<td>153.6</td>
<td>Feet of width per linear foot</td>
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<td>230-kV Project Substation Connector Transmission Line</td>
<td>Feet of width per linear foot</td>
<td>408</td>
<td>6.8 (mi)</td>
<td>88.5</td>
<td>Square feet per structure</td>
<td>25.2</td>
<td>60</td>
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<td>Pulling &amp; Tensioning Areas</td>
<td>Acres</td>
<td>0.75</td>
<td>10</td>
<td>7.5</td>
<td>Acres</td>
<td>--</td>
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<td>230-kV UEC Cottonwood Transmission Line Route(^2)</td>
<td>Feet of width per linear foot</td>
<td>12</td>
<td>24.9 (mi)</td>
<td>36.2</td>
<td>Square feet per structure</td>
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<td>Feet of width per linear foot</td>
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<td>4.1 (mi)</td>
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<td>Square feet per structure</td>
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<td>Meteorological Towers</td>
<td>Square feet</td>
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<td>7.6</td>
<td>Square feet per tower</td>
<td>1,764</td>
<td>2</td>
<td>&lt;0.1</td>
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<td>Existing Access Roads to Be Improved</td>
<td>Feet of width per linear foot</td>
<td>66</td>
<td>9.2 (mi)</td>
<td>73.6</td>
<td>Feet of width per linear foot</td>
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<td>New Access Roads</td>
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<td>66</td>
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<td>231.1</td>
<td>Feet of width per linear foot</td>
<td>16</td>
<td>28.9 (mi)</td>
<td>56.0</td>
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<td>Turning Radius Widening</td>
<td>Acres</td>
<td>--</td>
<td>--</td>
<td>6.8</td>
<td>Acres</td>
<td>--</td>
<td>--</td>
<td>0</td>
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<tr>
<td>Crane Paths</td>
<td>Feet of width per linear foot</td>
<td>35</td>
<td>33.2 (mi)</td>
<td>235.1</td>
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<td>0</td>
</tr>
<tr>
<td>Substations</td>
<td>Acres</td>
<td>3.3 (N)/2.5 (S)</td>
<td>2</td>
<td>5.8</td>
<td>Acres</td>
<td>10.5 (N)/5.9 (S)</td>
<td>2</td>
<td>16.4</td>
</tr>
</tbody>
</table>
### Temporary Impacts for Turbine Option 1 – 58 Siemens-Gamesa 6.0-MW Turbines

<table>
<thead>
<tr>
<th>Component</th>
<th>Units</th>
<th>Dimensions per Unit</th>
<th>Number of Units</th>
<th>Temporary Disturbance Acres¹</th>
<th>Units</th>
<th>Dimensions per Unit</th>
<th>Number of Units</th>
<th>Permanent Disturbance Acres</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central Construction Yard</td>
<td>Acres</td>
<td>–</td>
<td>1</td>
<td>27.5</td>
<td>Acres</td>
<td>–</td>
<td>–</td>
<td>0</td>
</tr>
<tr>
<td>Distributed Staging Areas</td>
<td>Acres</td>
<td>–</td>
<td>8</td>
<td>0.1</td>
<td>Acres</td>
<td>–</td>
<td>–</td>
<td>0</td>
</tr>
<tr>
<td>O&amp;M Building</td>
<td>Acres</td>
<td>–</td>
<td>1</td>
<td>2.9</td>
<td>Acres</td>
<td>–</td>
<td>1</td>
<td>7.63</td>
</tr>
</tbody>
</table>

**Total Temporary Impact²** 1,011.5  
**Total Permanent Impact²** 87.2

1. Overlapping permanent disturbance area subtracted from temporary impact corridors/areas as described in assumptions Table C-2.  
2. While only one of the two 230-kV transmission line routes would ultimately be constructed to connect to the regional grid, both are presented to account for all potential impacts.  
3. Totals were calculated using consolidated data, with areas of overlap eliminated. Therefore, totals are not a sum of the Project component rows.
Attachment C-2. Temporary and Permanent Impacts for Turbine Option 2
### Temporary and Permanent Impacts for the Project: Turbine Option 2 – 116 GE 3.03-MW Turbines

<table>
<thead>
<tr>
<th>Project Component</th>
<th>Units</th>
<th>Dimensions per Unit</th>
<th>Number of Units</th>
<th>Temporary Disturbance Acres</th>
<th>Units</th>
<th>Dimensions per Unit</th>
<th>Number of Units</th>
<th>Permanent Disturbance Acres</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wind Turbines</td>
<td>Acres</td>
<td>6.5</td>
<td>11612</td>
<td>738.9713.4</td>
<td>Square feet per tower</td>
<td>5,274</td>
<td>11612</td>
<td>14.113.6</td>
</tr>
<tr>
<td>Overhead 34.5-kV Collector Lines²</td>
<td>Feet of width per linear foot</td>
<td>35</td>
<td>9.1 (mi)</td>
<td>28.8</td>
<td>Square feet per structure</td>
<td>7.1</td>
<td>216</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>Underground 34.5-kV Collector Lines²</td>
<td>Feet of width per linear foot</td>
<td>35</td>
<td>90.289.0 (mi)</td>
<td>253.9250.5</td>
<td>Square feet per structure</td>
<td>--</td>
<td>--</td>
<td>0</td>
</tr>
<tr>
<td>230-kV Project Substation Connector Transmission Line³</td>
<td>Feet of width per linear foot</td>
<td>108200</td>
<td>6.8 (mi)</td>
<td>885.160.7</td>
<td>Square feet per structure</td>
<td>25.2</td>
<td>60</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>Pulling &amp; Tensioning Areas</td>
<td>Acres</td>
<td>0.75</td>
<td>10</td>
<td>7.5</td>
<td>Acres</td>
<td>--</td>
<td>--</td>
<td>0</td>
</tr>
<tr>
<td>230-kV UEC Cottonwood Transmission Line Route⁴</td>
<td>Feet of width per linear foot</td>
<td>12200</td>
<td>24.9253 (mi)</td>
<td>362613.6</td>
<td>Square feet per structure</td>
<td>21</td>
<td>283</td>
<td>0.1</td>
</tr>
<tr>
<td>230-kV BPA Stanfield Transmission Line Route⁴</td>
<td>Feet of width per linear foot</td>
<td>108200</td>
<td>415.0 (mi)</td>
<td>532122.3</td>
<td>Square feet per structure</td>
<td>25.2</td>
<td>3646</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>Meteorological Towers</td>
<td>Square feet</td>
<td>154,750</td>
<td>3</td>
<td>10.5</td>
<td>Square feet per tower</td>
<td>1,764</td>
<td>3</td>
<td>0.1</td>
</tr>
<tr>
<td>Existing Access Roads to Be Improved</td>
<td>Feet of width per linear foot</td>
<td>66</td>
<td>19 (mi)</td>
<td>151.6</td>
<td>Feet of width per linear foot</td>
<td>--</td>
<td>--</td>
<td>0</td>
</tr>
<tr>
<td>New Access Roads⁴</td>
<td>Feet of width per linear foot</td>
<td>66</td>
<td>44.428 (mi)</td>
<td>351.8342.9</td>
<td>Feet of width per linear foot</td>
<td>16</td>
<td>44.428 (mi)</td>
<td>85.182.9</td>
</tr>
<tr>
<td>Turning Radius Widening</td>
<td>Acres</td>
<td>--</td>
<td>--</td>
<td>14.613.5</td>
<td>Acres</td>
<td>--</td>
<td>--</td>
<td>0</td>
</tr>
<tr>
<td>Crane Paths</td>
<td>Feet of width per linear foot</td>
<td>75</td>
<td>53.350.9 (mi)</td>
<td>385.33685</td>
<td>Feet of width per linear foot</td>
<td>--</td>
<td>--</td>
<td>0</td>
</tr>
<tr>
<td>Substations⁴</td>
<td>Acres</td>
<td>3.315 (N)/2.5 (S)</td>
<td>2</td>
<td>5.839</td>
<td>Acres</td>
<td>10.5 (N)/5.9 (S)</td>
<td>2</td>
<td>16.4</td>
</tr>
</tbody>
</table>

---

Nolin Hills Wind Power Project C.1-1 Supplement to the Preliminary Application for Site Certificate
<table>
<thead>
<tr>
<th>Project Component</th>
<th>Units</th>
<th>Dimensions per Unit</th>
<th>Number of Units</th>
<th>Temporary Disturbance Acres</th>
<th>Units</th>
<th>Dimensions per Unit</th>
<th>Number of Units</th>
<th>Permanent Disturbance Acres</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central Construction Yard</td>
<td>Acres</td>
<td>--</td>
<td>1</td>
<td>27.5n/a</td>
<td>Acres</td>
<td>--</td>
<td>--</td>
<td>27.5</td>
</tr>
<tr>
<td>Distributed Staging Areas</td>
<td>Acres</td>
<td>--</td>
<td>11</td>
<td>0.2</td>
<td>Acres</td>
<td>--</td>
<td>--</td>
<td>0</td>
</tr>
<tr>
<td>O&amp;M Building</td>
<td>Acres</td>
<td>--</td>
<td>1</td>
<td>2.90.6</td>
<td>Acres</td>
<td>--</td>
<td>1</td>
<td>7.62</td>
</tr>
<tr>
<td>Solar Siting Area</td>
<td>Acres</td>
<td>--</td>
<td>1</td>
<td>11.6</td>
<td>Acres</td>
<td>--</td>
<td>1</td>
<td>1,895.7</td>
</tr>
<tr>
<td><strong>Total Temporary Impact</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>1,532.62,075.</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>123,220,349.</strong></td>
</tr>
</tbody>
</table>

1. Overlapping permanent disturbance area subtracted from temporary impact corridors/areas as described in assumptions Table C-2.
2. The collector lines within the solar siting area are not included in this row. Disturbance from the up to 55 miles of collector lines (up to 10 percent overhead) associated with the Project’s solar component is included in the total permanent disturbance reported for the solar siting area. As the entire area is considered permanently disturbed, no temporary impact is estimated for collector lines within the solar siting area.
3. In areas of sensitive habitat (shrub-steppe), the temporary impact corridor was narrowed to 50 feet to minimize Project disturbance. This is reflected in the limits of disturbance illustrated on Figure C-4.
4. While only one of the two 230-kV transmission line routes would ultimately be constructed to connect to the regional grid, both are presented to account for all potential impacts. In areas of sensitive habitat (shrub-steppe), the temporary impact corridor was narrowed to 50 feet to minimize Project disturbance. This is reflected in the limits of disturbance illustrated on Figure C-4. Of the two potential corridors for the BPA Stanfield route, the largest potential length and footprint is included for calculating impacts.
5. As for collector lines, disturbance from the up to 18 miles of new access roads associated with the Project’s solar component is included in the total permanent disturbance reported for the solar siting area. As the entire area is considered permanently disturbed, no temporary impact is estimated for new access roads within the solar siting area.
6. The northern Project substation is within the solar siting area for purposes of analysis; as such, only temporary disturbance outside the solar siting area fence line is reported. While the permanent acreage of the northern project substation is provided separately for informational purposes, overlap with the solar siting area is subtracted from the total permanent impact in the last row.
7. The central construction yard is within the fenced solar siting area for purposes of analysis. While it would only be used as a construction yard during the temporary construction period, it is within the permanently disturbed solar siting area, and could be used as needed during operation of the Project. The acreage is provided for informational purposes; overlap with the solar siting area is subtracted from the total permanent impact in the last row.
8. The O&M Building is within the fenced solar siting area for purposes of analysis; as such, only temporary disturbance outside the solar siting area fence line is reported. While the permanent acreage of the O&M Building is provided separately for informational purposes, overlap with the solar siting area is subtracted from the total permanent impact in the last row.
9. Totals were calculated using consolidated data, with areas of overlap eliminated. Therefore, totals are not a sum of the Project component rows.