Avangrid Renewables

Badger Mtn. Solar Energy Project

November 17th, 2021
Avangrid Renewables

• Aurora Solar LLC, a wholly owned subsidiary of Avangrid Renewables, headquartered in Portland, OR is one of the leading developers of wind and solar projects in the U.S. and has more than 7,000 MW of owned and controlled wind and solar generation in the U.S.
  • Includes the Lund Hill Solar 150MW ac (Klickitat County WA) and Gala Solar 56MWac (Crook County OR)
  • Successful development and operations of wind projects in Washington since 2004. Big Horn I & II (249.5 MW) and Juniper Canyon (151.2 MW)

• Avangrid Renewables is a subsidiary of AVANGRID and part of the IBERDROLA Group. IBERDROLA has one of the largest renewable asset base of any company in the world, with more than 32,000 megawatts (MW) of renewable energy spread across a dozen countries.

• Avangrid Renewables is involved in all phases of wind and solar development:
  • Meteorological prospecting
  • Wildlife and environmental assessments
  • Permitting
  • Executing agreements with communities and individual landowner
  • Overseeing project construction
  • Managing daily wind/solar project operations
  • Marketing the power produced.
Avangrid Renewable U.S. Power Assets

Badger Mtn. Solar Energy Project
Douglas County, WA
<table>
<thead>
<tr>
<th>Land use</th>
<th>Dryland agricultural, rangeland, undeveloped land, local roads and existing electrical utility infrastructure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Utility</td>
<td>Puget Sound Energy (PSE) 230-kV Bonneville Power Administration (BPA) 230-kV</td>
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<td>Interconnection</td>
<td>Puget Sound Energy (PSE) 230-kV Bonneville Power Administration (BPA) 230-kV</td>
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<tr>
<td>Project Size</td>
<td>200MW AC</td>
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<tr>
<td>Technology</td>
<td>Single-axis tracking ground mounted solar PV</td>
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<tr>
<td>Location</td>
<td>Douglas County, WA approximately 3.5 miles east of East Wenatchee</td>
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<tr>
<td>Landowners</td>
<td>21 privately owned parcel 5 Landowners 2 state owned parcels</td>
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<tr>
<td>Site acreage</td>
<td>Project leased boundary: 4,399 acres Solar array micrositing area: 2,274 acres</td>
</tr>
<tr>
<td></td>
<td>Gen-tie micrositing corridor: 116 acres Total project footprint: 1,338 acres</td>
</tr>
<tr>
<td>Site control</td>
<td>Long term land lease and transmission easements</td>
</tr>
</tbody>
</table>

Badger Mtn. Solar Energy Project

Badger Mtn. Solar Energy Project
Douglas County, WA
Badger Mtn. Solar Energy Project Location
Badger Mtn. Solar Energy Project Preliminary Site Plan

Badger Mountain Solar Energy Project

DOUGLAS COUNTY, WASHINGTON

Figure A-1
Preliminary Site Plan

Project Lease Boundary (4,390 acres)
Project Area (2,390 acres)
Solar Array Microgrid Area (2,274 acres)
Gen-ite Microgrid Corridor (116 acres)
Option 1 Point of Interconnect
Option 2 Point of Interconnect

Proposed Project Components
- Solar Array
- Inverters
- Perimeter Fence
- Project Service Road
- O&M Building
- Collector Substation
- Battery Energy Storage System
- 230 kV Gen-ite Line
- Switchyard
- Temporary Staging Area

Basemap Features
- Existing Transmission
- City Limits
- State Lands

Data Sources
Reference Map

1:36,000 NAD 1983 StatePlane Washington North FIPS 4601 Feet

NOT FOR CONSTRUCTION
Badger Mtn. Solar Energy Project Characteristics

- Development initiated in 2017
- Ideal Solar location
  - Proximity to existing electrical transmission. PSE and BPA Lines available
  - Abundant Solar Exposure
  - Compatible topography
  - Adequate available nonirrigated agricultural and undeveloped land
  - Ag land designated as not commercially significant
  - Project has support of participating landowners on private land.

- Project will avoid talus slopes
- Potential impact to shrub-steppe habitat have been minimized
  - Less then 3% of the project area
- Continuing consultation with area tribes
- Potential visual impacts will largely be screened from population centers by existing topography
- No wetlands, intermittent or perennial streams occur in the Project area.
- Vast majority of the Project area is on nonirrigated agricultural land (87%)
  - Representing less than 1% of dryland wheat in Douglas County.
Consultation

Agency Consultations are ongoing with:

- U.S. Fish and Wildlife Service (USFWS)
- Washington Department of Fish and Wildlife (WDFW)
- Washington Energy Facility Siting Evaluation Council (EFSEC)
- Washington Department of Ecology
- Washington Department of Natural Resources (WDNR)
- Washington Department of Archaeology and Historic Preservation (DAHP)
- Tribal Consultation with Colville Confederated Tribes, Spokane Tribe, Confederated Tribes and Bands of the Yakama Nation
- Douglas County Department of Transportation and Land Service
- Douglas County Planning Department
Badger Mtn. Solar Energy Project

Surveys and Studies Completed

Part 1

Earth

• Geotechnical
  – Field surveys completed in Spring 2020: Geotechnical Engineering Report completed Spring 2021

Water

• Wetland Study
  – Spring 2021- Wetland Delineation complete. No wetlands in the Project area.

• FEMA -Floodplains
  – Completely outside any FEMA-designated flood hazard area or area with high flood risk.

• Water Quality/Stormwater Runoff
  – Spring 2020- Stage 1 Report of Expected Geotechnical Conditions
  – Spring 2021- Geotechnical Engineering Report
  – Spring 2020- Preliminary Stormwater Management Plan
  – Fall 2020- Preliminary Hydrology Report
Badger Mtn. Solar Energy Project

Surveys and Studies Completed

Part 2

Habitat, Plants, and Animals

• Spring 2021- 2021 Rare Plant Survey
• Spring 2021- 2021 Wildlife and Habitat Survey
• Spring 2019- 2019 Raptor Nest Survey
• Spring 2020- 2020 Raptor Nest Monitoring Report
• Spring 2021- 2021 Eagle Nest Monitoring Report
• Spring 2021- Wetland Delineation

Noise

• Fall 2021- Acoustic Assessment Report

Light, Glare and Aesthetics

• Fall 2021- Visual Impact Assessment
• Fall 2021- Solar Glare Report
• Fall 2021- Federal Aviation Administration (FAA) Notice Criteria Tool
Badger Mtn. Solar Energy Project

Surveys and Studies Completed

Part 3

Archaeological and Historical Resources

• Fall 2021- Cultural Resources Survey Report
• Upcoming (Spring 2022) - Traditional Use Study (Colville Confederated Tribes)
What Does Commercial Solar Development Look Like?

Fixed-Tilt System

Single-Axis Tracking
Single Axis Tracking
Solar Array

Badger Mtn. Solar Energy Project
Douglas County, WA
Battery Storage Facility Example

Badger Mtn. Solar Energy Project
Douglas County, WA
Badger Mtn. Solar Energy Project

Questions?