

Notice of Intent to Apply for a Site Certificate

**Bakeoven Solar Project
November 2018**

**Submitted to
Oregon Energy Facility Siting Council**

Prepared for



Bakeoven Solar, LLC

Prepared by



Tetra Tech, Inc.

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Acronyms and Abbreviations

Applicant or Bakeoven	Bakeoven Solar, LLC
ASC	Application for Site Certificate
Avangrid	Avangrid Renewables, LLC
BPA	Bonneville Power Administration
CRP	Conservation Reserve Program
DC	direct current
EFSC	Energy Facility Siting Council
Facility	Bakeoven Solar Project
HV	high voltage
kV	kilovolt
Li-ion	lithium-ion
Maupin Substation	Maupin Interconnection Substation
MW	megawatt
NHD	National Hydrography Dataset
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
NWI	National Wetlands Inventory
O&M	operations and maintenance
OAR	Oregon Administrative Rule
ODEQ	Oregon Department of Environmental Quality
ODFW	Oregon Department of Fish and Wildlife
ORBIC	Oregon Biodiversity Information Center
ORS	Oregon Revised Statute
PCB	polychlorinated biphenyl
PV	photovoltaic
SCADA	Supervisory Control and Data Acquisition
SHPO	State Historic Preservation Office
US-97	U.S. Highway 97

Exhibit A. Applicant Information – OAR 345-020-0011(1)(a)

(a) Exhibit A. Information about the applicant and participating persons, including:

(A) The name and address of the applicant including all co-owners of the proposed facility, the name, mailing address, email address and telephone number of the contact person for the NOI, and if there is a contact person other than the applicant, the name, title, mailing address, email address and telephone number of that person.

Response:

Name and mailing address of Applicant:

Bakeoven Solar, LLC
c/o Avangrid Renewables, LLC
1125 NW Couch Street, Suite 700
Portland, OR 97209

Applicant contact persons with mailing address and telephone numbers:

Brian Walsh
Senior Developer
Avangrid Renewables, LLC
1125 NW Couch Street, Suite 700
Portland, OR 97209
(503) 796-6928
brian.walsh@avangrid.com

Matt Hutchinson
Manager, Permitting and Environmental
Avangrid Renewables, LLC
1125 NW Couch Street, Suite 700
Portland, OR 97209
(503) 478-6317
matthew.hutchinson@avangrid.com

(B) The contact name, mailing address, email address and telephone number of all participating persons, other than individuals, including but not limited to any parent corporation of the applicant, persons upon whom the applicant will rely for third-party permits or approvals related

to the facility, and persons upon whom the applicant will rely in meeting any facility standard adopted by the Council.

Response:

Bakeoven Solar, LLC (Bakeoven or Applicant) is a subsidiary of Avangrid Renewables, LLC (Avangrid).

Parent Company:

Avangrid Renewables, LLC
1125 NW Couch St., Suite 700
Portland, Oregon 97209
(503) 796-7000

Contact Name, Mailing Address, Email Address, and Telephone Number:

Brian Walsh
Senior Developer
Avangrid Renewables, LLC
1125 NW Couch Street, Suite 700
Portland, OR 97209
brian.walsh@avangrid.com
(503) 796-6928

(C) If the applicant is a corporation, it shall give:

(i) The full name, official designation, mailing address, email address and telephone number of the officer responsible for submitting the NOI;

(ii) The date and place of its incorporation;

*(iii) A copy of its articles of incorporation and its authorization for submitting the NOI;
and*

(iv) In the case of a corporation not incorporated in Oregon, the name and address of the resident attorney-in-fact in this state and proof of registration to do business in Oregon.

Response:

Bakeoven is not a corporation. Therefore, this rule is not applicable.

(D) If the applicant is a wholly owned subsidiary of a company, corporation or other business entity, in addition to the information required by paragraph (C), it shall give the full name and business address of each of the applicant's full or partial owners.

Response:

As noted above, Bakeoven is a subsidiary of Avangrid. Avangrid is a subsidiary of AVANGRID (NYSE: AGR). The parent company names and business addresses are as follows:

Avangrid Renewables, LLC
1125 NW Couch St., Suite 700
Portland, Oregon 97209
(503) 796-7000

AVANGRID
180 Marsh Hill Road
ORANGE, CT 06477
www.avangrid.com

(E) If the person submitting the NOI is an association of citizens, a joint venture or a partnership, it shall give:

- (i) The full name, official designation, mailing address, email address and telephone number of the person responsible for submitting the NOI;*
- (ii) The name, business address and telephone number of each person participating in the association, joint venture or partnership and the percentage interest held by each;*
- (iii) Proof of registration to do business in Oregon;*
- (iv) A copy of its articles of association, joint venture agreement or partnership agreement and a list of its members and their cities of residence; and*
- (v) If there are no articles of association, joint venture agreement or partnership agreement, the applicant shall state that fact over the signature of each member.*

Response:

The Applicant is not an association of citizens, a joint venture, or partnership. Therefore, this rule is not applicable.

(F) If the applicant is a public or governmental entity, it shall give:

- (i) The full name, official designation, mailing address, email address and telephone number of the person responsible for submitting the NOI; and*
- (ii) Written authorization from the entity's governing body to submit an NOI.*

Response:

The Applicant is not a public or governmental entity. Therefore, this rule is not applicable.

(G) If the applicant is an individual, the individual shall give his or her mailing address, email address and telephone number.

Response:

The Applicant is not an individual. Therefore, this rule is not applicable.

(H) If the applicant is a limited liability company, it shall give:

(i) The full name, official designation, mailing address, email address and telephone number of the officer responsible for submitting the NOI;

(ii) The date and place of its formation;

(iii) A copy of its articles of organization and its authorization for submitting the NOI; and

(iv) In the case of a limited liability company not registered in Oregon, the name and address of the resident attorney-in-fact in this state and proof of registration to do business in Oregon.

Response:

The Applicant is a limited liability company. The officer responsible for submitting the Notice of Intent (NOI) is as follows:

Jesse Gronner
Authorized Representative
Avangrid Renewables, LLC
1125 NW Couch Street, Suite 700
Portland, OR 97209

Bakeoven Solar, LLC was organized and acknowledged by the Oregon Secretary of State on October 11, 2018, in Salem, Oregon. The articles of organization and authorization for submitting the NOI are provided in Attachment 1. Bakeoven Solar, LLC is registered in Oregon; therefore, information for the resident attorney-in-fact is not required.

Exhibit B. Facility Description – OAR 345-020-0011(1)(b)

(b) Exhibit B. Information about the proposed facility, including:

(A) A description of the proposed energy facility, including as applicable:

Response:

The Applicant proposes to construct and operate a photovoltaic (PV) solar energy generation facility and related or supporting facilities in Wasco County, Oregon. As described in more detail below, the proposed Bakeoven Solar Project (Facility) will consist of up to 303 megawatts (MW) of solar generation and include a battery storage system capable of storing up to 100 MW of energy. The Facility will generate electricity using PV solar panels wired in series and in parallel to form arrays and connected to electrical infrastructure.

Other components will include a substation, operations and maintenance (O&M) building, and an approximately 11-mile-long 230-kilovolt (kV) transmission line. The Facility will interconnect to the existing 230-kV Bonneville Power Administration (BPA) Big Eddy to Redmond transmission line at the existing Maupin Interconnection Substation (Maupin Substation). Figure G-2 in Attachment 2 shows the general site plan for the Facility.

(i) The nominal electric generating capacity and the average electrical generating capacity, as defined in ORS 469.300.

Response:

The Facility will have up to 303 MW of nominal and average generating capacity as defined in Oregon Revised Statute (ORS) 469.300(4)(c).

(ii) Major components, structures and systems, including a description of the size, type and configuration of equipment used to generate electricity and useful thermal energy.

Response:

The solar array will be composed of a combination of solar modules, tracker systems, posts, and related electrical equipment. The Applicant seeks to permit a range of technology in order to preserve design flexibility. The solar modules and associated equipment, and precise layout of the solar arrays, have not yet been determined. Because technology is changing rapidly, the Application for Site Certificate (ASC) will analyze impacts associated with the largest solar array footprint and impacts. The actual solar array equipment and layout selected will not exceed the impacts analyzed. During pre-construction and final design engineering, the Applicant will specify the precise details of the energy generation equipment and layout in accordance with reporting requirements to the

Oregon Department of Energy. Therefore, the following description of major components is based on the best available design information at this time, but may not reflect the final design.

Solar Modules. Solar modules use mono- or poly-crystalline cells to generate electricity by converting sunlight into direct current (DC) electrical energy. The electrical generation from a single module varies by module size and the number of cells per module. The dimensions of each module will be approximately 2 meters long and 1 meter wide. Other than the crystalline cell, solar modules consist of antireflective glass, a metal frame, and factory installed “quick connect” wire connectors. The modules will be connected in series to form long rows. The rows of modules are then connected via combiners, cables, and switchboards. The configuration of multiple rows (the array) can vary depending on the equipment type and topography. The actual number of modules will vary depending on the module technology, spacing, mounting equipment, and other design criteria, which are subject to change during final design.

Tracker Systems. Strings of solar modules will be mounted on single-axis tracker systems that optimize electricity production by rotating the solar modules to follow the path of the sun throughout the day. The length of each tracker row may vary by topography and the number of modules that the tracker can hold. The drive unit for the tracking system can control a single row or multiple rows of modules through a series of mechanical linkages and gearboxes. As the solar modules tilt throughout the day, the height of their top edges will shift accordingly (i.e., between 11 feet and 14 feet high). The tracker system, and associated posts, will be specifically designed to withstand wind, snow, and seismic loads anticipated at the site.

Posts. Each tracker will be supported by multiple steel posts, which could be round hollow posts, or pile-type posts (i.e., H-pile, C-pile, S-pile). Post depth may vary depending on soil conditions, but the posts are typically installed 4 to 8 feet below the surface and protrude approximately 4 to 5.5 feet above grade. Posts at the end of tracker rows are usually installed to greater depth to withstand wind uplift. In some soil conditions, concrete backfill is required for each post. For the purposes of the ASC, the Applicant will assume that all posts will use concrete foundations but site-specific conditions will determine whether concrete actually will be required for construction. Post locations will be determined by the final layout of the tracker system and geotechnical investigations of the solar area.

Inverters. The direct current collected from the solar modules via combiner boxes must be converted into alternating current (AC) before connecting to the collector substation. Inverters serve the function of converting DC power supply to an AC power supply in accordance with electrical requirements. The number of inverters will vary depending on the actual generation output of the solar array. The inverter specification will comply with the applicable requirements of the National Electric Code and Institute of Electrical and Electronics Engineers standards.

Transformers. The alternating current from the inverters will be routed to transformers that will increase the output voltage from the inverter (1,500 volts) to the desired substation feed voltage (34.5 kV). The transformers could be collocated with the inverters associated with each array, or centrally located. Transformers at these locations will step up the voltage from the inverters.

Cabling. The electrical current produced by solar modules is in the form of direct current. Cables collect and aggregate the direct current before it is converted to alternating current and sent to the project substation. Low-voltage cabling will connect the solar modules of each tracker string in series and combine multiple strings to a single combiner box. Cabling from multiple combiner boxes will connect to a single inverter, which will convert the direct current to alternating current and connect to the buried collection system. Cabling can be mounted to the tracker system, placed in cable trays, or buried. The majority of buried cable associated with the solar array will be located within the solar area fence line and included in the estimated total permanent impact associated with the solar array (i.e., no temporary impacts are calculated for buried cable inside the solar array fence line).

Collection System. The transformers will connect the generation output of the solar array to the 34.5-kV collector lines which will underground, if possible, except where topography or other site condition constraints require them to be aboveground. The 34.5-kV collector lines will connect to the connector substation.

Site Access, Service Roads, Perimeter Fencing, and Gates. The solar array will be accessed from Bakeoven Road south of Maupin, Oregon. The locations of these access points will depend on the final configuration of the solar array. Within the solar array, service roads will be constructed for access and maintenance purposes. An additional perimeter service road will be located inside the solar array fence line on the south and west sides of the solar array field. The service roads within the solar array boundary will be all-weather gravel compacted and up to 20 feet wide with an internal turning radius sufficiently sized for emergency vehicle access. Chain-link perimeter fencing, 8 feet in height, will enclose the solar array. The perimeter fencing will have vehicle and pedestrian access gates. The Applicant will reseed disturbed areas within the fenced area with a native, low-growing seed mix that is compatible with adjacent land uses, minimizing graveled areas.

(iii) Methods for waste management and waste disposal, including, to the extent known, the amount of wastewater the applicant anticipates, the applicant's plans for disposal of wastewater and storm water, and the location of disposal.

Response:

The Facility will not consume water in the generation of electricity, nor will it produce wastewater for disposal or significant quantities of solid waste. Further details of stormwater drainage, water, solid waste management, and sewage treatment during construction and operations are provided in Exhibit K of this NOI.

(iv) For thermal power plants:

(I) A discussion of the source, quantity and availability of all fuels proposed to be used in the facility to generate electricity or useful thermal energy.

(II) Methods for disposal of waste heat.

Response:

The Facility is not a thermal power plant. The Facility will generate wind power; consequently, no waste heat will be generated.

(v) For transmission lines, approximate transmission line voltage, load carrying capacity and type of current.

Response:

The Facility will require construction of an associated transmission line that will connect the Facility to the regional grid. The associated transmission line, in and of itself, is not a transmission line within the meaning of Energy Facility Siting Council (EFSC) jurisdiction. The associated transmission line will be approximately 11 miles of 230-kV overhead line to connect the Facility collector substation to the existing 230-kV BPA Big Eddy to Redmond transmission line at the Maupin Substation. The 230-kV overhead line will be supported either by H-frame structures with two galvanized steel or wood poles, or by galvanized steel or wood monopole structures. The structures will rise to a height of approximately 80 to 100 feet above grade depending on design and terrain.

(vi) For pipelines, approximate operating pressure and delivery capacity in thousand cubic feet per day.

Response:

The Facility is not a pipeline. Therefore, this rule is not applicable.

(vii) For surface facilities related to underground gas storage, estimated daily injection and withdrawal rates, horsepower compression required to operate at design injection or withdrawal rates, operating pressure range and fuel type of compressors.

Response:

The Facility does not involve underground gas storage. Therefore, this rule is not applicable.

(viii) For facilities to store liquefied natural gas, the approximate volume, maximum pressure, liquefaction and gasification capacity in thousand cubic feet per hour.

Response:

The Applicant does not propose the storage of liquefied natural gas. Therefore, this rule is not applicable.

(B) A description of major components, structures and systems of each related or supporting facility.

Response:

Related or supporting facilities consist of battery storage, one collector substation, one 230-kV transmission line, and one O&M building.

Battery Storage. The Applicant proposes to construct a battery storage system adjacent to the collector substation. The battery storage system will be capable of storing up to 100 MW of solar energy generated by the Facility. Two battery options may be used: lithium-ion (Li-ion) batteries or flow batteries. Both options could hold up to 100 MW of power in a series of self-contained containers located within a fenced area, or within a single warehouse-type enclosure of a similar scale and size.

230-kV Transmission Lines. A new 230-kV transmission line will interconnect to the existing 230-kV BPA Big Eddy to Redmond transmission line at the existing Maupin Substation. The new 230-kV transmission line will be approximately 11 miles in length.

Operations and Maintenance Building. The O&M building will be a single-story building located near the solar array and will include an office space, storage, bathroom, and breakroom facilities. Water will be supplied via a small well or connection to a municipal water system. The O&M building will have an on-site, state-permitted septic system or sewer connection. Electric power and telephone will be provided via local service providers. A gravel parking and storage area will be located adjacent to the building.

Collector Substation. Low-voltage cabling will link each solar module to inverters to convert panel output from 400-watt DC to 1,500-volt AC. Additional cabling will connect the inverters to transformers that will step up the voltage from 1,500 volts to 34.5 kV for the collector cable lines. The collector cable lines will transmit power to the Facility collector substation, which will be located as shown in Figure G-2, Facility Layout (see Attachment 2). The substation site will be surrounded by a graveled, fenced area enclosing the transformer and switching equipment and an area to park utility vehicles. Transformers will be non-polychlorinated biphenyl (PCB) oil-filled types. Any additional equipment installed at the substation will be located within the existing fenced area. Additional substation equipment may include circuit-breakers, power transformer(s), bus and insulators, disconnect switches, relaying, battery and charger, surge arresters, AC and DC supplies, control house, metering equipment, grounding, and associated control wiring.

Additional Construction Areas. During construction, temporary staging areas will be used to support construction and store supplies and equipment.

(C) The approximate dimensions of major facility structures and visible features.

Response:

The most notable features of the Facility are: (1) the various components of the solar array; (2) battery storage system, (3) the substation; (4) the O&M building, and (5) the 230-kV overhead

transmission line. The estimated dimensions of the major facility structures, as currently available, are summarized below.

Solar Array. The solar array will occupy up to 3,000 acres and comprise linear rows of modules. The maximum height of the solar array will be 14 feet when the modules are tilted. The exact number and size of modules, layout, and associated equipment specifications will be determined during micrositing, but the total area of the solar array, within perimeter fencing, will not exceed 3,000 acres.

Battery Storage. Both the Li-ion and flow battery technologies are often placed in standard-sized shipping containers on a concrete slab. Each container holds the batteries, a supervisory and power management system, cooling system (if needed), and a fire prevention system. By connecting multiple containers, the battery storage system can be scaled to the desired capacity. Containers may be stacked up to two levels with an estimated maximum height of approximately 20 feet. For purposes of this analysis the battery storage system (either Li-ion or flow) is assumed to require 104 double-stacked containers that will occupy an area approximately 470 feet by 600 feet. The battery storage area will be enclosed by approximately 2,140 feet of continuous chain-link perimeter fencing 8 feet in height, with two 16-foot-wide gates and one pedestrian, 4-foot-wide gate. The entire area within the battery storage fence line (10 acres) is assumed to be permanently disturbed by placement of containers, cooling systems, transformers, and cabling.

Substations. The Facility collector substation will be situated within a fenced area of approximately 3 acres with equipment approximately 10 feet in height

O&M Building. The O&M building will be a one-story structure approximately 20 feet high with an area of approximately 5,000 square feet

230-kV Transmission Line. The approximately 11-mile 230-kV line will be supported either by H-frame structures with two galvanized steel or wood poles or by a galvanized steel or wood monopole structure. The structures will rise to a height of approximately 100 feet above grade, depending on the terrain. Clearing for the installation of the 230-kV transmission line will require a temporary workspace of 40 feet by 40 feet per structure. The 230-kV line will generally have 700-foot long spans between structures; however, spans may be shorter or longer depending on the terrain.

Exhibit C. Facility Location – OAR 345-020-0011(1)(c)

(c) Exhibit C. A description of the location of the proposed energy facility site and the proposed site of each related or supporting facility and all areas that might be temporarily disturbed during construction of the facility, including the approximate land area of each.

Response:

The Facility is located in Wasco County, Oregon (see Figure G-1 in Attachment 2). The Facility site boundary includes approximately 10,615 acres of private land. The site boundary encompasses some or all of the townships, ranges, and sections identified in Table C-1.

Table C-1. Township, Range, and Section within the Facility Site Boundary

Township and Range	Sections
4S 14E	25, 26, 27, 36
4S 15E	25, 29, 30, 31, 32, 36
4S 16E	30
5S 15E	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 23, 24, 25
5S 16E	7, 18, 19, 20, 29, 30

In the ASC, the Applicant will confirm the solar micro-siting corridor area shown on Figure G-2 which also shows representative locations of related and supporting facilities. The Applicant requests micro-siting flexibility within the solar micro-siting corridor to site the energy facility and related and supporting facilities using the most efficient and effective equipment and layout. The site boundary provides the limits of the area that may be temporarily or permanently disturbed during construction of the facility. Worst-case temporary and permanent acreage impacts will be provided by facility component in the ASC. The approximate land area for each aboveground facility component for the purpose of this NOI is provided in Table C-2.

Table C-2. Approximate Land Area of Facility

Facility Component	Approximate Land Area
Solar Array	3,000 acres
Battery Storage	10 acres
O&M Building	3 acres
Substation	3 acres
Transmission Line	11 miles, with anticipated 150-foot right-of-way

Exhibit D. Alternative Locations – OAR 345-020-0011(1)(d)

(d) Exhibit D. If the proposed energy facility is a pipeline or a transmission line or has, as a related or supporting facility, a transmission line or pipeline that, by itself, is an energy facility under the definition in ORS 469.300, identification of at least two proposed corridors, as defined in OAR 345-001-0010, or identification of a single proposed corridor with an explanation of why alternate corridors are unlikely to better meet the applicant's needs and satisfy the Council's standards. The applicant shall include an explanation of the basis for selecting the proposed corridor(s) and, for each proposed corridor, the information described in subsections (e), (g), (i), (j), (k), (n) and (p) that is available from existing maps, aerial photographs, and a search of readily available literature.

Response:

The Facility is not a pipeline or a transmission line as defined by Oregon Revised Statute (ORS) 469.300. The Facility includes neither a pipeline nor transmission line that, by themselves, would be considered an energy facility under ORS 469.300(11)(a)(C).

Exhibit E. Permits Needed for Construction and Operation – OAR 345-020-0011(1)(e)

(e) Exhibit E. Identification of all federal, state and local government permits related to the siting of the proposed facility, a legal citation of the statute, rule or ordinance governing each permit, and the name, address, email address and telephone number of the agency or office responsible for each permit. For each permit, the applicant shall provide a preliminary analysis of whether the permit should or should not be included in and governed by the site certificate.

Response:

Table E-1 identifies the federal, state, and local government permits required for construction and operation of the Facility.

Table E-1. Permits or Other Approvals Required for Construction and Operation of the Facility

Permit	Agency	Authority/Description
Federal Permits		
Record of Decision/ National Environmental Policy Act Compliance	Bonneville Power Administration (BPA) Attn: Eric Taylor, Customer Manager PO Box 3621 Portland, OR 97208-3621 (360) 619-6014 ektaylor@bpa.gov	National Environmental Policy Act (NEPA), Section 102 (42 United States Code [USC] § 4332); 40 Code of Federal Regulations [CFR] § 1500 Description: Interconnection to BPA's transmission system is subject to review under NEPA. BPA will lead this process as a separate action from the solar facility site certificate process. This federal process is not within the jurisdiction of the Oregon Energy Facility Siting Council (EFSC) and therefore should not be included within the site certificate.
Clean Water Act, Section 404	U.S. Army Corps of Engineers, Portland District Attn: Peter Olmstead, Project Manager PO Box 2946 Portland, OR 97208-2946 (541) 962-0401 Peter.d.olmstead@usace.army.mil	Clean Water Act, Section 404 (33 USC § 1344); 33 CFR §§ 320, 323, 325-28, and 330 Description: A Section 404 permit will be required if dredge or fill occurs in waters of the United States. This federal process is not within the jurisdiction of EFSC and therefore should not be included in the site certificate.

Table E-1. Permits or Other Approvals Required for Construction and Operation of the Facility (continued)

Permit	Agency	Authority/Description
Notice of Proposed Construction or Alteration (Form 7460.1)	Federal Aviation Administration (FAA) Attn: Dan Shoemaker Airspace Specialist Seattle Obstruction Evaluation Group 1601 Lind Ave SW Renton, WA 98057 (425) 227-2791 Dan.shoemaker@faa.gov	Federal Aviation Act of 1958 (14 USC § 44718); 14 CFR § 77 Description: The Applicant proposes construction or alterations that may affect navigable airspace pertaining to potential glare from the Project’s solar arrays, or for construction of structures within specified distances of runways or helipads, may be required to file this notice. No permit is issued by the FAA. This federal process is not within the jurisdiction of EFSC and therefore should not be included in the site certificate.
Supplemental Notice of Actual Construction or Alteration (Form 7460-2)	Federal Aviation Administration Attn: Dan Shoemaker Airspace Specialist Seattle Obstruction Evaluation Group 1601 Lind Ave SW Renton, WA 98057 (425) 227-2791 Dan.shoemaker@faa.gov	Federal Aviation Act of 1958 (14 USC § 44718); 14 CFR § 77 Description: If a Notice of Proposed Construction or Alteration with the FAA is required, then submission of the Supplemental Notice of Actual Construction or Alteration form must be filed within 5 days after construction reaches its greatest height as specified in the No Hazard Determination. This federal process is not within the jurisdiction of EFSC and therefore should not be included in the site certificate.
State Permits		
Energy Facility Site Certificate	Oregon Department of Energy and Energy Facility Siting Council Attn: Todd Cornett 550 Capitol Street NE Salem, OR 97301 (503) 378-8692 Katie.Clifford@oregon.gov	ORS 469.300 et seq.; Oregon Administrative Rules (OAR) Chapter 345, Divisions 1, 21-24 Description: This site certificate is the subject of this NOI.
Removal/Fill Permit	Oregon Department of State Lands Attn: Bethany Herrington Eastern Region 1645 NE Forbes Rd., Suite 112 Bend, OR 97701 (541) 325-6170 Bethany.Herrington@state.or.us	ORS 196; OAR Chapter 141, Division 85 Description: A removal-fill permit is required if 50 cubic yards or more of material is removed, filled, or altered within a jurisdictional water of the State. If this is proposed, the Removal-Fill Permit should be included in and governed by the site certificate under ORS 469.401(3).

Table E-1. Permits or Other Approvals Required for Construction and Operation of the Facility (continued)

Permit	Agency	Authority/Description
On-site Sewage Disposal Construction-Installation Permit	<p>Oregon Department of Environmental Quality</p> <p>Wasco-Sherman Public Health Department Attn: Glenn Pierce Wasco-Sherman Public Health Department 419 East 7th Street The Dalles, OR 97058-2607 Glennp@co.wasco.or.us (541) 506-2601</p>	<p>ORS 454 and 468B; OAR Chapter 340, Divisions 71</p> <p>Description: Facilities with on-site sewage disposal system must obtain a Construction-Installation Permit before construction. The Facility will have a daily sewage flow of fewer than 2,500 gallons and the Applicant's third-party contractor will obtain from the Oregon Department of Environmental Quality (ODEQ) a Construction-Installation Permit for the operations and maintenance facility. Therefore, this permit should not be included in and governed by the site certificate.</p>
National Pollutant Discharge Elimination System (NPDES) Stormwater Discharge Permit 1200-C	<p>Oregon Department of Environmental Quality</p> <p>Attn: Jackie Ray Eastern Region 800 SE Emigrant, Suite 330 (541) 278-4605 Ray.Jackie@deq.state.or.us</p>	<p>Clean Water Act, Section 402 (33 USC § 1342); 40 CFR § 122; ORS 468 and 468B; OAR Chapter 340, Division 45</p> <p>Description: NPDES permit is required for construction activities that will disturb one or more acres of land. The Applicant will obtain this permit directly from ODEQ as it is outside the jurisdiction of EFSC and should not be included in or governed by the site certificate.</p>
401 Water Quality Certification	<p>Oregon Department of Environmental Quality</p> <p>Attn: Linda Hayes-Gorman Eastern Region 700 SE Emigrant, Suite 330 (541) 633-2018 Hayes-gorman.linda@deq.state.or.us</p>	<p>Clean Water Act, Section 401 (33 USC § 1341); OAR Chapter 340, Division 48</p> <p>Description: Water quality certification is required for projects that are processed under the U.S. Army Corps of Engineers Section 404 Nationwide Permits. The Applicant will obtain this permit directly from ODEQ as it is outside the jurisdiction of EFSC and should not be included in or governed by the site certificate.</p>
Water Right Permit or Water Use Authorization	<p>Oregon Water Resources Department Water Rights Section District 5</p> <p>Attn: Greg Silbernagel 116 SE Dorion Ave Pendleton, OR 97801 (541) 278-5456 greg.m.silbernagel@wrdd.state.or.us</p>	<p>ORS 537; OAR 690 Divisions 310, 340, 410 and 502</p> <p>Description: If water for construction is not available from permitted sources, the Applicant will obtain the necessary water right permit or use authorization directly from the Oregon Water Resources Department.</p>

Table E-1. Permits or Other Approvals Required for Construction and Operation of the Facility (continued)

Permit	Agency	Authority/Description
General Water Pollution Control Facilities Permit, WPCF-1700-B	Oregon Department of Environmental Quality, Eastern Region 700 SE Emigrant, Suite 330 Pendleton, OR 97801 (541) 276-4063	ORS 468B; OAR Chapter 340, Division 45 The Applicant or a third-party contractor who will conduct the solar panel washing activities may seek coverage under the WPCF-1700-B permit from ODEQ following completion of construction and before initiating any washing activities. Therefore, this permit should not be included in and governed by the site certificate.
Oversize Load Movement Permit/Load Registration	Oregon Department of Transportation Attn: Christy Jordan Motor Carriers Transportation Division 550 Capitol Street NE Salem, OR 97301 (503) 378-6192 Christy.A.Jordan@odot.state.or.us	ORS 818.030; OAR Chapter 734, Division 82 Description: Authorization for oversized loads. Movement of construction cranes and other equipment and materials may require this permit. If needed, the Applicant's third-party contractor will obtain this permit and load registration from the Oregon Department of Transportation (ODOT) and therefore this permit should not be included in and governed by the site certificate.
Access Management Permit	Oregon Department of Transportation ODOT District 12 - Pendleton 1327 SE Third Street Pendleton, OR 97801 (541) 276-1241	OAR Chapter 734, Division 51 Description: Access from Oregon state highways would require an access permit, which may be issued by the local ODOT District Offices, if required.
Permit to Occupy or Perform Operations Upon a State Highway	Oregon Department of Transportation Attn: ODOT Utility and Miscellaneous Permit Specialist ODOT District 12 - Pendleton 1327 SE Third Street Pendleton, OR 97801 (541) 276-1241	OAR Chapter 734, Division 55 (Pole Lines, Buried Cables, and Miscellaneous Operations) Description: Utility installations within the right-of-way of a state highway in Oregon require a permit issued by the ODOT.
Archaeological Excavation Permit	Oregon Parks and Recreation Department, State Historic Preservation Office John Pouley 725 Summer Street NE, Suite C Salem, OR 97301 (503) 986-0577 John.Pouley@oregon.gov	ORS Chapter 97, 358, and 390; OAR Chapter 736, Division 51 Description: Ground-disturbing activity that may affect a known or unknown archaeological resource on public or private lands requires a permit issued by the Oregon Parks and Recreation Department. If needed, the Applicant will obtain it from the State Historic Preservation Office and therefore this permit should not be included in and governed by the site certificate.

Table E-1. Permits or Other Approvals Required for Construction and Operation of the Facility (continued)

Permit	Agency	Authority/Description
Local Permits		
Conditional Use Permit and Zoning Permit	Wasco County Planning Department Attn: Angie Brewer, Planning Director 2705 East 2 nd Street The Dalles, OR 97058 (541) 506-2560 angieb@co.wasco.or.us	Wasco County Land Use and Development Ordinance (WCLUDO) Section 3.210, Exclusive Farm Use Zone; WCLUDO Chapter 5, Conditional Use Review; WCLUDO Chapter 20, Site Plan Review The Applicant elects to obtain an EFSC determination under ORS Chapter 469.504(1)(b). Under ORS 469.401(3), following issuance of the Site Certificate, the County, upon the Applicant's submission or the proper application and fee, shall issue the permits addressed in the site certificate, subject only to the conditions set forth in the site certificate and without hearings or other proceedings.
Building Permit for construction in Wasco County	Oregon Department Consumer and Business Services, Building Codes Division Attn: Rex Turner, Building Official 2705 East 2 nd Street The Dalles, OR 97058 (541) 506-2650 Rex.l.turner@oregon.gov	OAR 734, Division 51 Description: A building permit is required prior to beginning construction of the Project. Wasco County does not have its own building department, so building permits are issued by the Oregon State Building Codes Division.
Utility Crossing Permit and Access Approach Site Permit	Wasco County Public Works Department Attn: Arthur Smith, Public Works Director 2705 East 2 nd Street The Dalles, OR 97058 (541) 506-2645 ArthurS@co.wasco.or.us	ORS 374.305 to 374.325 Description: A Utility Crossing permit is required any time a utility is constructed within or across a County road right-of-way. An Approach Site Permit will be required for each location where Facility access roads intersect with county roads, or if necessary upgrades to existing access roads affect a county road.

Exhibit F. Property Ownership – OAR 345-020-0011(1)(f)

(f) Exhibit F. A list of the names and mailing addresses of all owners of record, as shown on the most recent property tax assessment roll, of property located within or adjacent to the site boundary as defined in OAR 345-001-0010. In addition to incorporating the list in the NOI, the applicant shall submit the list to the Department of Energy in electronic format acceptable to the Department for the production of mailing labels. Property adjacent to the site boundary means property that is:

(A) Within 100 feet of the site boundary where the site, corridor or micrositing corridor is within an urban growth boundary;

(B) Within 250 feet of the site boundary where the site, corridor or micrositing corridor is outside an urban growth boundary and not within a farm or forest zone; and

(C) Within 500 feet of the site boundary where the site, corridor or micrositing corridor is within a farm or forest zone.

Response:

In accordance with OAR 345-020-0011(1)(f)(C), Table F-1 in Attachment 3 lists the names and mailing addresses of all owners of record in Wasco County, where the Facility will be sited, and adjacent Sherman County that are within 1 mile of the Facility site boundary. This distance greatly exceeds the recommended notification distance and demonstrates the Applicant's willingness to seek community input into the design of the Facility. Property ownership records were obtained from Wasco and Sherman counties on October 29, 2018. Figure F-1 in Attachment 3 displays the Wasco and Sherman counties property tax lots in relation to the site boundary. An electronic list of property ownership will also be provided to the Oregon Department of Energy in a format suitable to produce mailing labels, as requested.

Exhibit G. Facility Maps – OAR 345-020-0011(1)(g)

(g) Exhibit G. A map or maps showing:

Response:

Attachment 2 contains six maps that show the required information, as follows:

(A) 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.

Response:

Figure G-1 shows the location of the site boundary in relation to major roads, cities and towns, important landmarks, and topographic features.

Figure G-2 identifies the Facility site boundary, micrositing corridor, and related or supporting features.

Figure G-3 details the site boundary in relation to nearby geographic features and illustrates the range of elevations within the vicinity of the Project.

Figures G-4 and G-5 show the hydrology within the vicinity of the Facility based on National Wetlands Inventory (NWI) data (Figure G-4) and National Hydrography Dataset (NHD) data (Figure G-5).

(B) The proposed locations of the corridors the applicant has identified under subsection (d) in relation to major roads, water bodies, cities and towns, important landmarks and topographic features.

Response:

The Applicant has not identified proposed alternative corridors under subsection (d). As noted above, the Facility includes neither a pipeline nor transmission line that, by themselves, would be considered an energy facility under ORS 469.300(11)(a)(C).

(C) The study area(s) for the proposed facility as defined in OAR 345-001-0010.

(D) The topography of the study area(s) including streams, rivers, lakes, major roads and contour lines.

Response:

Figure G-6 shows the boundaries and topography of the study areas as defined by OAR 345-001-0010(59) for land use (0.5 mile), fish and wildlife habitat (0.5 mile), recreational opportunities (5 miles), threatened and endangered species (5 miles), scenic resources (10 miles), and public services (10 miles), as well as for protected areas (20 miles), as described in OAR 345-022-0040. Figure G-3 details the site boundary in relation to nearby geographic features and illustrates the range of elevations within the vicinity of the Project.

(E) All protected areas in the study area as defined in OAR 345-001-0010 for impacts to protected areas.

Response:

Figure G-7 displays and labels all protected areas in the study area as defined by OAR 345-001-0010(59).

(F) The location of any potential waters of the state or waters of the United States that are on or adjacent to the site.

Response:

Figures G-4 and G-5, showing NWI and NHD features respectively, display potential waters of the State or potential waters of the United States within the vicinity of the Project. A comprehensive waters and wetlands field survey, including a formal wetland delineation, is in the process of being conducted, and detailed information regarding the location of and impacts to waters of the State or of the United States will be provided in the ASC.

(G) For energy generation facilities, 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.

Response:

Figure G-8 shows the approximate location of the one permitted energy facility, Summit Ridge Wind Farm, known to the Applicant within 10 miles of the site boundary, in accordance with OAR 345-001-0010(59) for impacts to public services. Additionally, Figure G-8 shows a proposed energy facility, the Imperial Wind Project, within 10 miles of the site boundary.

Exhibit H. Non-generating Energy Facility – OAR 345-020-0011(1)(h)

(h) Exhibit H. If the proposed facility is a non-generating energy facility for which the applicant must demonstrate need under OAR 345-023-0005, identification of the rule in Division 23 of this chapter under which the applicant intends to demonstrate need and a summary statement of the need and justification for the proposed facility.

Response:

The Facility is not a non-generating energy facility. Therefore, this rule is not applicable.

Exhibit I. Land Use – OAR 345-020-0011(1)(i)

(i) Exhibit I. A statement indicating whether the applicant intends to satisfy the Council's land use standard, OAR 345-022-0030, by obtaining local land use approval under ORS 469.504(1)(a) or by seeking a Council determination under ORS 469.504(1)(b).

Response:

The Applicant intends to satisfy EFSC's land use standard, OAR 345-022-0030, by seeking an EFSC determination under ORS 469.504(1)(b). The Applicant seeks a determination by EFSC of compliance with land use standards from Wasco County.

Exhibit J. Environmental Impacts – OAR 345-020-0011(1)(j)

(j) Exhibit J. Identification of significant potential environmental impacts of construction and operation of the proposed facility on the study areas, including those impacts affecting air quality, surface and ground water quality and availability, wildlife and wildlife habitat, threatened and endangered plant and animal species, historic, cultural and archaeological resources, scenic and aesthetic areas, recreation, and land use.

Response:

This exhibit presents potential environmental impacts from the Facility’s construction and operation on air quality; surface and groundwater quality and availability (including wetlands and waters of the State or of the United States); wildlife and wildlife habitat; threatened and endangered plant and animal species; historic, cultural, and archaeological resources; scenic and aesthetic areas (including protected areas); recreation; protected areas; and land use. The analyses are based on the study area for each resource, as defined in OAR 345-001-0010(59) and shown in Table J-1.

Table J-1. Study Areas for Environmental Impacts

Resource	Study Area	Regulatory Requirement
Air Quality	Site boundary	Not applicable
Surface and Groundwater Quality and Availability (includes Wetlands and Waters of the United States)	Site boundary	Not applicable
Wildlife and Wildlife Habitat	0.5 mile from site boundary	OAR 345-001-0010(59)(c)
Threatened and Endangered Plant and Animal Species	5 miles from site boundary	OAR 345-001-0010(59)(a)
Historic, cultural and archaeological resources	Site boundary	Not applicable
Scenic and Aesthetic Areas	10 miles from site boundary	OAR 345-001-0010(59)(b)
Recreation	5 miles from site boundary	OAR 345-001-0010(59)(d)
Protected Areas	20 miles from site boundary	OAR 345-001-0010(59)(e)
Land Use	0.5 mile from site boundary	OAR 345-001-0010(59)(c)

Air Quality

The Facility will not emit air pollution for the generation of electricity. During construction, air pollutant combustion emissions will be generated from diesel and gasoline engines in the various vehicles and construction equipment and facilities used during Facility construction. Fugitive dust

may be generated from vehicle traffic on paved and unpaved roads and from equipment during construction activities. The Applicant will implement construction best management practices, as necessary, including applying dust control measures which will be described in the ASC. The emissions and fugitive dust from these vehicles and equipment will be minor and will not exceed state emissions thresholds; thus, these emissions are not quantified and do not require a permit from the Oregon Department of Environmental Quality (ODEQ).

Surface and Groundwater

The Facility will not discharge pollutants or use to surface water or groundwater during the generation of electricity. During construction, temporary impacts from construction stormwater will be managed in accordance with a National Pollutant Discharge Elimination System (NPDES) 1200-C permit to be issued by ODEQ, and the associated Erosion Control Plan. During operations, the O&M building will use water from a new exempt well with no more than 5,000 gallons per day of use, and discharge to an approved on-site septic system with a drain field, in accordance with local or state permitting requirements.

During Facility construction, an estimated 20 million gallons of water will be required for dust control, road compaction, concrete mixing, and other uses. Water will be obtained from existing, upgraded existing, or new landowner wells or from the City of Shaniko. The construction contractor will be responsible for identifying water sources and ensuring that any needed permits or approvals are obtained for construction water use. Once available on site, water will either be put to immediate use, or placed temporarily in an on-site water storage tank or holding pond to hold the water before it is used. In the ASC, the Applicant will both confirm the anticipated amount of water required for construction and confirm with participating landowners or the City of Shaniko that the City has sufficient water rights and is capable of providing sufficient water source to meet the Facility requirements during construction.

Wetlands and Waters of the United States

The Applicant has completed a wetland delineation of the solar micro-siting area and transmission line corridor. The delineation and assessment were conducted to meet requirements under the Oregon Removal/Fill Law (ORS 196; OAR Chapter 141, Division 85) and Section 404 of the Clean Water Act. The ASC will contain a detailed discussion of the potential impacts to potentially jurisdictional wetlands and waters identified in the wetland delineation and assessment, including required mitigation (if any), and will identify necessary permits. Where impacts may occur, they will be mitigated in accordance with state and federal law. Wetland and streams mapped by NWI and NHD are shown in Figures G-4 and G-5.

Wildlife and Wildlife Habitat

Habitat surveys conducted within the micro-siting corridor (Tetra Tech 2018) found that it is primarily characterized by agriculture, Conservation Reserve Program (CRP) fields, grasslands,

intermittent drainage ditches, stock-ponds, and a few basalt outcrops. Portions of the proposed transmission line corridor and small areas of grassland/CRP in the site boundary were burned in the Boxcar Fire in late June 2018. The site boundary overlaps with ODFW-designated mule deer winter range (ODFW 2013). The Applicant will provide an analysis of potential habitat impacts including impacts by habitat type in the ASC.

Sensitive, Threatened, and Endangered Species

The Applicant considered a variety of resources to determine the threatened, endangered, and sensitive species that may occur within the site boundary and surrounding area, including the following agency resources:

- Oregon Department of Fish and Wildlife (ODFW) Sensitive Species List (ODFW 2016);
- ODFW threatened, endangered and candidate fish and wildlife species (ODFW 2017);
- Oregon Biodiversity Information Center (ORBIC) Rare, Threatened and Endangered Species of Oregon (ORBIC 2016);
- Query of ORBIC database (ORBIC 2018);
- Query of U.S. Fish and Wildlife Service Information for Planning and Consultation (IPaC) database;
- Oregon Department of Agriculture Listed and Candidate Plants; and
- StreamNet Mapper, Fish Distribution (StreamNet 2017).

For a complete list of special-status species with potential to occur within the site boundary and within 5 miles of the site boundary in consideration of the data from the desktop resources, see Attachment 4. The Applicant will provide an analysis of potential impacts to sensitive, endangered, and threatened species in the ASC.

Historic, Cultural, and Archaeological Resources

The Applicant will complete a cultural resources field inventory and submit the results of this study with the ASC. This inventory will evaluate the presence or absence of historic properties and other cultural resources that may not meet the threshold of significance necessary to qualify them as historic properties. The study methodology will follow applicable Oregon State Historic Preservation Office (SHPO) regulations, and will be consistent with U.S. Secretary of Interior standards for cultural resource surveys and documentation under Section 106 of the National Historic Preservation Act (Public Law 89-665).

Any archaeological or historic sites discovered during the field investigation will be officially recorded and filed with the SHPO. If an archaeological or historic site is identified, the Applicant will undertake the appropriate avoidance or mitigation actions to avoid significant impacts.

Scenic and Aesthetic Areas

The study area for scenic and aesthetic resources consists of the area within the site boundary plus a 10-mile buffer around the site boundary (Figure G-6), in accordance with OAR 345-001-0010(59)(b). Pursuant to OAR 345-021-0010(1)(r) and 345-022-0080(1), scenic resources to be considered are those “identified as significant or important in local land use plans, tribal land management plans and federal land management plans for any lands located within the analysis area...”

The Wasco County Comprehensive Plan, as amended (Wasco County 2010), identifies six outstanding scenic and recreational areas in Wasco County. These include one location within the study area, the Deschutes River (Figure G-7). The Comprehensive Plan also identifies eight highways within Wasco County as designated scenic areas. Portions of U.S. Highway 97 (US-97) are identified as a scenic area within the study area. Analysis will be performed in the ASC to determine potential Facility visibility from the Deschutes River canyon and US-97.

Potential impacts to identified scenic resources will likely be negligible because the Facility structures will be short, screened by vegetation and topography, will be near existing agricultural development (e.g., irrigation systems), and will be viewed from long distances. The visual assessment that will be included in the ASC will include proposed mitigation measures for any significant potential impacts identified through the ASC process.

Recreation

The study area for recreational opportunities consists of the site boundary plus a surrounding 5-mile buffer (Figure G-6), in accordance with OAR 345-001-0010(59)(d). In general, recreational activities in the study area consist of hiking, fishing, boating, camping, bicycling, and sightseeing. These activities occur in various locations outside the study area. Some specific recreational opportunities within the study area include whitewater rafting and fishing along the Deschutes River, as well as day and overnight use at Maupin City Park. Exhibit T of the ASC will include more detailed analysis of the potential impacts to recreational resources and whether the recreational opportunities within the study area meet the level of uniqueness or irreplaceability that is required by OAR 345-022-0100(1).

Protected Areas

The study area for protected areas is the site boundary plus a surrounding 20-mile buffer (Figure G-7), in accordance with OAR 345-001-0010(59)(e). Protected areas are defined and listed in OAR 345-022-0040. Table J-2 lists all protected areas within the study area, which are shown on Figure G-7. No protected areas are located within the site boundary. The Facility is not anticipated to significantly affect any protected area due to the distance and topography between the Facility and the nearest protected area. Exhibit L of the ASC will include more detailed analysis of the potential impacts to protected areas.

Table J-2. Protected Areas¹ within the Study Area

Type	Area Name	Approximate Distance to Site Boundary (Miles)	Direction from Project
(a) National Parks	None	NA	NA
(b) National Monuments	None	NA	NA
(c) Wilderness Areas	Badger Creek Wilderness	15	Northwest
	Lower White River Wilderness	16	West
(d) National and State Wildlife Refuges	None	NA	NA
(e) National Coordination Areas	None	NA	NA
(f) Fish Hatcheries	Oak Springs Fish Hatchery, ODFW	3	Northwest
(g) National Recreation and Scenic Areas	Mount Hood National Recreation Area	20	Northwest
(h) State Parks and Waysides	Deschutes- Oregon Wildlife Heritage Foundation #2	19	North
	Deschutes River State Scenic Waterway	13	North
	White River Falls State Park	4	Northwest
(i) State Natural Heritage Areas	Tygh Valley	4	Northwest
(j) State Estuarine Sanctuaries	None	NA	NA
(k) Scenic Waterways/Wild and Scenic Rivers	Deschutes River – Federal Wild and Scenic River and Oregon Scenic Waterway	2	West
	Fifteenmile Creek Wild and Scenic River	20	Northwest
	White Wild and Scenic River	3	West
	John Day River - Federal Wild and Scenic River and Oregon Scenic Waterway	16	East
(l) Experimental Areas (Rangeland Resources Program)	None	NA	NA
(m) Agricultural Experimental Stations	None	NA	NA
(n) Research Forests	None	NA	NA
(o) BLM Areas of Critical Environmental Concern (ACEC)	None	NA	NA

Table J-2. Protected Areas¹ within the Study Area (continued)

Type	Area Name	Approximate Distance to Site Boundary (Miles)	Direction from Project
(o) BLM Research Natural Areas and Outstanding Natural Areas	None	NA	NA
(p) State Wildlife Areas and Management Areas (per OAR 635, Div. 8)	Lower Deschutes ODFW Wildlife Area	17	North
	White River ODFW Wildlife Area	9	Northwest
¹ Protected Areas are defined and listed in OAR 345-022-0040.			

Land Use

The study area for land use consists of the area within the site boundary plus a surrounding 0.5-mile buffer, in accordance with OAR 345-001-0010(59)(c). All land within the study area is zoned for Exclusive Farm Use by Wasco County. Some minor conversion of agricultural land will occur. Impacts to agricultural land will be fully evaluated in Exhibit K of the ASC, as required by OAR 345-022-0030.

Exhibit K. Community Service Impacts – OAR 345-020-0011(1)(k)

(k) Exhibit K. Information about significant potential adverse impacts of construction and operation of the proposed facility on the ability of communities in the study area to provide the services listed in OAR 345-022-0110.

Response:

Pursuant to OAR 345-001-0010(57)(b), the study area for impacts to the public services listed in OAR 345-022-0110 includes the site boundary plus a surrounding 10-mile buffer. Public services that will be evaluated for potential impacts from the construction and operation of the Facility are listed in OAR 345-020-0011(1)(k) and outlined below:

- Sewers and sewage treatment;
- Water;
- Stormwater drainage;
- Solid waste management;
- Housing;
- Traffic safety;
- Police and fire protection;
- Health care; and
- Schools.

Sewers and Sewage Treatment

During construction, sanitary waste will be collected on-site in portable toilets that will be provided and maintained by a licensed subcontractor. During operation, sanitary waste will be limited to domestic wastewater from the Project's O&M building, which will be discharged to a licensed on-site septic system. The Applicant does not anticipate requiring connection to sewers or sewage treatment facilities. Therefore, significant adverse impacts to community sewer systems are not anticipated.

Water

Facility construction will require approximately 20 million gallons of water for several activities, including concrete mixing for wind tower foundations, road construction, underground collection line installation, and dust control. Actual daily water use will vary depending on weather and the

final construction schedule (e.g., the need for dust control will be far greater in dry, windy summer conditions than at other times of year). Water use during operation of the Facility will be limited to small amounts used at the O&M building for sanitation and human consumption and will be fewer than 5,000 gallons per day.

The Applicant will confirm the anticipated amount of water required for construction and operation in the ASC. Additionally, the Applicant will confirm that the identified source can meet the Project's water requirements during construction, and a detailed analysis of water use requirements for accessing a private or municipal source will be included. If the water source is found to be insufficient, an alternative off-site source will be identified, or water will be obtained from a new on-site well to be permitted under a limited water use license.

The Applicant expects to rely on an exempt well allowed under ORS 537.545 to provide water to the O&M building. This well will use less than 5,000 gallons per day, which will not require the Applicant to obtain a new water right.

During Facility construction and operation, water will only be obtained from permitted sources with adequate water rights. Therefore, public water systems will not be adversely affected by construction or operation of the Project.

Stormwater Drainage

The site boundary is a rural area where existing stormwater infrastructure is limited to minimal facilities associated with public roads. The site boundary is not within a designated drainage district or urban area.

Stormwater runoff from the Facility will be managed on site, typically using retention and infiltration systems that will be described in the Facility's NPDES 1200-C construction permit and accompanying Erosion and Sediment Control Plan. These facilities will be located on private land and will not affect the provision of stormwater management services by any public agency. Most of the area within the site boundary is vegetated, which will serve as a buffer to promote infiltration and minimize erosion. No impact on stormwater drainage is expected from the Facility.

Solid Waste Management

The incorporated communities near the Facility will provide solid waste management services to their respective incorporated areas. Waste Connections, Inc. provides collection, transfer, and recycling services in the Wasco County area. Solid waste disposal for the Facility during construction and operations will be provided through a private contract with local commercial haulers, and is not anticipated to disrupt services already being provided in any incorporated communities or in the larger Wasco County area. The public landfill nearest to the Site Boundary is the Wasco County Landfill, owned by Waste Connections, Inc., in The Dalles. The Wasco County Landfill expanded its capacity in 2001 and currently has a solid waste disposal permit that is valid until 2024 (ODEQ 2014).

Housing

Construction

An average of 250 employees will be present on site during construction. This number will fluctuate during periods where multiple teams of contractors perform their work simultaneously. The Applicant estimates that a maximum of 500 employees will be on site at one time, when multiple disciplines of contractors complete their work simultaneously during periods of the highest activity.

Construction workers will include a combination of locally hired workers for road and facility construction, and specialized workers for certain types of specialized construction (e.g. solar array installation and testing). Some workers are expected to come from outside of the study area and will require temporary housing. The percentage of the construction workforce that is hired locally will depend on the availability of workers with appropriate skills. The size of the skilled local workforce is continually growing as more solar energy projects are built in eastern Oregon. Additional workers may commute daily from communities outside the study area (e.g., The Dalles, Dufur, Warm Springs, Madras), which would lessen impacts to housing associated with the in-migration of outside workers.

Construction workers hired from areas outside a commutable distance may choose to stay in local motels or other rental units for the duration of their stay, which could have potential impacts on housing if there is an inadequate supply of housing in relation to the demand from the new temporary and permanent residents associated with the Project. Typical housing options for temporary workers include motels, hotels, apartments, short-term rental homes, and campgrounds or other areas where workers can park trailers or other mobile housing. Availability of temporary housing is best in larger communities within a commutable distance of the construction site, where hotels, motels, and trailer parking are available, although options are also available in nearby smaller towns. Communities that could potentially house temporary workers include Hood River, The Dalles, Dufur, Wasco, Maupin, and Madras. Because workers can spread out to many communities within a commutable distance, the impact to housing in the immediate vicinity of the Facility associated with the in-migration of outside workers will be lessened. Workers from outside the area will also benefit the communities and local businesses by renting rooms, eating at local restaurants, and purchasing goods and services from local stores.

Operations

An estimated 5 to 10 operational personnel, including contract workers, will be permanently employed at the Facility at its full 303-MW capacity. Where possible, the O&M staff will be hired locally, except for those positions that require previous experience at other solar energy generation facilities. Some outside contractors may also be required from time to time for specialized maintenance tasks, such as solar module inspections, electrical system maintenance, or the repair of solar panel and tracker equipment. The Applicant expects that the Facility will be in operation for

at least 30 years. No significant adverse impacts to housing in the area are anticipated because of housing operational personnel.

Traffic Safety

The primary transporter route is assumed to carry the majority of construction-related heavy-duty and light-duty delivery vehicles, as well as some workforce traffic. This route will likely begin from either northbound or southbound US-97 and continue east on Bakeoven Road, or from northbound or southbound US-97 and continue west on Bakeoven Road from Shaniko.

During construction, many trucks may be accessing the site on these transportation routes. Construction-related traffic is not expected to result in any significant adverse impacts to traffic safety. Any improvements to county or state roads will be restricted to areas within the respective rights-of-way and subject to approval by the applicable agency.

Operational staff is expected to commute to the Facility site from nearby communities. Operational trips include employees traveling to work in their personal vehicles, as well as specialized personnel required for inspections Facility components who may travel in light-duty trucks. The occasional delivery truck may also access the site during operations. Operational traffic impacts associated with the Facility are not anticipated. Impacts to traffic safety will be fully evaluated in Exhibit U of the ASC.

Police and Fire Protection

Wasco County Sheriff's Department serves the Facility area. The Applicant will seek assistance from the Wasco County Sheriff's Office in The Dalles, Oregon, for police service. Backup law enforcement service is available from the Oregon State Police Eastern Region, with offices in Madras, Prineville, and Bend. The relatively small number of new temporary and permanent residents is not anticipated to place significant new demands on the providers of police protection in the area.

The Applicant will work with the Juniper Flat Rural Fire Protection District and the Wasco County Fire District to determine which entity will provide fire protection to the Facility area. The Applicant will notify the Fire Protection Districts of construction plans and phasing, identify the location of and access to Facility structures, and provide mutual assistance in the case of fire in or around the Facility area. The site will be equipped with fire protection equipment in accordance with the Oregon Fire Code. The relatively small number of new temporary and permanent residents is not anticipated to place significant new demands on the fire protection forces that serve the area.

Health Care

Because population density in the study area is relatively low, hospitals and health care services tend to be regional. The nearest hospital to the southern portion of the Facility site boundary is Mountain View Hospital located in Madras, Oregon, approximately 38 miles from the Facility. The nearest hospital to the northern portion of the Facility site boundary is the Mid-Columbia Medical

Center, located in The Dalles, Oregon, approximately 78 miles. Ambulance service in the area is provided by Wasco County, which operates four ambulances stationed in Maupin, Wasco, and The Dalles. Providers will offer basic, intermediate, and advanced life support emergency medical care and transportation. Impacts on health care could occur if Facility construction activities or increases in temporary residents (during construction) and permanent residents (during operations) were to result in an increase in the use of routine and emergency health care services exceeding the capacity of local providers. Impacts on local health care services will be minimized by careful management of site health and safety risks. The small number of new temporary and permanent residents is not expected to place significant new demands on the health care facilities that serve the area.

Schools

The Facility site boundary is located within South Wasco County School District #1, which serves the entire southern region of Wasco County. The schools closest to the Facility are South Wasco County High School and Maupin Grade School, both located in Maupin, Oregon, less than 10 miles from the proposed Facility's northern site boundary. There are also several public schools located in Madras, Oregon, approximately 38 miles from the proposed Facility's southern site boundary. Because construction work for the Facility will be short-term and temporary, and because peak construction will occur during the summer months, no new students are anticipated in association with Facility construction. Only minimal demand is expected from the small increase in local population resulting from new permanent employees during Facility operations. Actual impacts on schools will depend on the housing choices of new residents with children, which is unknown. Given the dispersed area in which new residents are likely to settle, the small number of new school children expected, and the number of schools available, it is unlikely that any one school will receive more new students than it can accommodate. As a result, no significant adverse impacts on the ability of communities to provide school services are anticipated because of Facility operation.

Exhibit L. Water Sources and Use – OAR 345-020-0011(1)(I)

(I) Exhibit L. Information about anticipated water use during construction and operation of the proposed facility, including:

(A) A description of each source of water and the applicant's estimate of the amount of water the facility will need from each source.

Response:

Construction

Water will be obtained from local landowners with existing, upgraded existing or new wells, or from the City of Shaniko. In the ASC, the Applicant will verify the anticipated amount of water required for construction and confirm that the local landowners or the City of Shaniko are capable of serving as a water source to meet the Facility requirements during construction. If water is obtained from a new well or wells, they will be permitted under a limited water use license. The construction contractor will be responsible for obtaining water for construction. An estimated 20 million gallons of water will be required for dust control, road compaction, concrete mixing, and other construction uses. However, the amount of water applied daily is highly dependent on weather and varies between construction periods and duration. In addition, the Applicant is still determining the turbine vendor, size, number, and actual generating capacity as well as road layout. The ASC will contain a detailed analysis of water use requirements during construction.

Operation

During Facility operation, a new exempt well may be located near the O&M building. The well will provide no more than 5,000 gallons per day for use at the O&M building. If a well is installed and used for construction water under a limited water use license, this well may also be used during Facility operation.

(B) If a new water right is required, the approximate location of the points of diversion and the estimated quantity of water to be taken at each point.

Response:

At this time, it is not anticipated that the Facility will require new water rights.

(C) For operation, the source of cooling water and the estimated consumptive use of cooling water, based on annual average conditions.

Response:

The Facility is a solar energy facility. No cooling water is required for operation. Therefore, these rules are not applicable.

Exhibit M. Carbon Dioxide Emissions – OAR 345-020-0011(1)(m)

(m) Exhibit M. If the proposed facility would emit carbon dioxide, an estimate of the gross rate of carbon dioxide emissions, a table listing all the factors that form the basis for calculating the estimate, and a statement of the means by which the applicant intends to comply with the applicable carbon dioxide emissions standard under OAR 345-024-560, 345-024-600, or 345-024-630.

Response:

The Facility will not emit carbon dioxide. Therefore, these rules are not applicable.

Exhibit N. Evaluation of Statutes, Rules, and Ordinances – OAR 345-020- 0011(1)(n)

(n) Exhibit N. Identification, by legal citation, of all state statutes and administrative rules and local government ordinances containing standards or criteria that the proposed facility must meet for the Council to issue a site certificate, other than statutes, rules and ordinances identified in Exhibit E, and identification of the agencies administering those statutes, administrative rules and ordinances. The applicant shall analyze and describe any problems the applicant foresees in satisfying the requirements of any such statute, rule or ordinance.

Response

Table N-1 identifies state statutes, administrative rules, and local government ordinances containing standards or criteria that the Applicant must meet for EFSC to issue a Site Certificate, beyond the statutes, rules, and ordinances identified in Exhibit E. The Applicant does not anticipate difficulty in meeting specific requirements.

Table N-1. Statutes, Rules, and Ordinances Containing Relevant Standards or Criteria

Department	Legal Citation	Agency Address
Oregon Department of Agriculture	Plant Conservation Biology Program—ORS 564; OAR Chapter 603, Division 73	Oregon Department of Agriculture 635 Capitol Street, N.E. Salem, OR 97301-2532 (503) 986-4550
ODEQ—Water Quality	ORS 468 and 468B; OAR Chapter 340, Divisions 14, 41, 45, 52, and 55	Oregon Department of Environmental Quality 475 NE Bellevue Dr., Suite 110 Bend, OR 97701 (541) 388-6146
ODEQ—Noise	ORS 467; OAR Chapter 340, Division 35	Oregon Department of Environmental Quality 811 SW Sixth Avenue Portland, OR 97204-1390 (503) 229-5696
ODEQ—Hazardous Waste Management	ORS 465 and 466; OAR Chapter 340, Divisions 100-113	Oregon Department of Environmental Quality 811 SW Sixth Avenue Portland, OR 97204-1390 (503) 229-5696
ODEQ—Solid Waste	ORS 459; OAR Chapter 340, Division 93	Oregon Department of Environmental Quality 811 SW Sixth Avenue Portland, OR 97204-1390 (503) 229-5696

**Table N-1. Statutes, Rules, and Ordinances Containing Relevant Standards or Criteria
(continued)**

Department	Legal Citation	Agency Address
ODFW—Habitat Conservation Division	ORS 496 and 506; OAR Chapter 635, Divisions 100 and 415	Oregon Department of Fish and Wildlife 3406 Cherry Avenue N.E. Salem, OR 97303-4924 (503) 947-6000
Oregon Department of Geology and Mineral Industries	OAR Chapter 632	Oregon Department of Geology and Mineral Industries 800 NE Oregon Street, Suite 965 Portland, OR 97232 (971) 673-1555
Oregon Parks and Recreation Department, SHPO —Archaeological	Native American Graves and Protected Objects—ORS 97.740-97.760 Archaeological Objects and Sites—ORS 358.90-358.955 Permit and Conditions for Excavation or Removal of Archaeological or Historical Materials on Private Lands (OAR 736-051-0090)	State Historic Preservation Office 725 Summer St. NE, Suite C Salem, OR 97301 (503) 986-0671
Oregon Office of State Fire Marshal—Emergency Planning and Community Right to Know Act	ORS 453; OAR Chapter 837, Divisions 85 and 95	Oregon Office of State Fire Marshal 4760 Portland Rd NE Salem, OR 97305-1760 (503) 378-3473
Wasco County Department of Land Use Planning — Land Use ¹	Wasco County Land Use and Development Ordinance	Wasco County Planning Department 2705 East 2nd Street The Dalles OR 97058 541-506-2560
1. As stated in Exhibit I: The Applicant intends to satisfy EFSC’s land use standard, OAR 345-022-0030, by seeking an EFSC determination under ORS 469.504(1)(b). The Applicant seeks a determination by EFSC of compliance with land use standards from Wasco County.		

Exhibit O. Schedule for Application for Site Certificate – OAR 345-020-0011(1)(o)

(o) Exhibit O. A schedule stating when the applicant expects to submit a preliminary application for a site certificate.

Response:

The Applicant intends to submit the NOI and Preliminary ASC according to the schedule shown in Table O-1.

Table O-1. Proposed Schedule for Application for Site Certificate Submittal

Activity	Anticipated Date
Applicant submits the NOI to EFSC	November 2018
EFSC reviews the NOI, distributes public notice, conducts public information meeting, facilitates comment period, and issues Project Order	November 2018 – January 2019
Applicant submits Preliminary ASC to EFSC	March 2019

Exhibit P. Evidence of Consultation with State Commission on Indian Services – OAR 345-020-0011(1)(p)

(p) Exhibit P. Evidence of consultation with the Legislative Commission on Indian Services to identify each appropriate tribe to consult with regarding the proposed facility's possible effects on Indian historic and cultural resources.

Response:

The Applicant submitted a letter to the Oregon Legislative Commission on Indian Services to identify appropriate tribes to contact regarding possible effects of the Facility on Indian historic and cultural resources. On October 23, 2018, the Legislative Commission provided a letter identifying the Confederated Tribes of Warm Springs as the appropriate Tribal government (Attachment 5).

References

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<http://energystorage.org/energy-storage/technologies/lithium-ion-li-ion-batteries>.
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- Energy Storage Association. 2017b. *Flow Batteries*. <http://energystorage.org/energy-storage/storage-technology-comparisons/flow-batteries>. Accessed October 2018.
- Hart, David, and Alfred Sarkissian. 2016. Deployment of Grid-Scale Batteries in the United States. School of Policy and Government, George Mason University. Prepared for Office of Energy Policy and Systems Analysis, U.S. Department of Energy. June.
- NWC (Northwest Wildlife Consultants, Inc.). 2011. Avian Field Studies and Avian Impact Assessment for Bakeoven Wind Facility, Wasco County, Oregon. Prepared for Bakeoven Wind, LLC. July 2011.
- ODA (Oregon Department of Agriculture). 2018. Oregon Listed and Candidate Plants. Accessed online at:
<https://www.oregon.gov/ODA/programs/PlantConservation/Pages/AboutPlants.aspx>.
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- ODEQ (Oregon Department of Environmental Quality). 2014. Solid Waste Disposal Site Permit No 53. Issued by ODEQ December 11, 2014.
- ODFW (Oregon Department of Fish and Wildlife). 2013. ODFW Winter Range for Eastern Oregon. GIS dataset.
<https://nrimp.dfw.state.or.us/DataClearinghouse/default.aspx?p=202&XMLname=885.xml>
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http://www.dfw.state.or.us/wildlife/diversity/species/docs/2016_Sensitive_Species_List.pdf
Accessed May 2018.
- ODFW. 2017. Threatened, endangered and candidate fish and wildlife species.
http://www.dfw.state.or.us/wildlife/diversity/species/threatened_endangered_candidate_list.asp. Accessed May 2018.
- ORBIC (Oregon Biodiversity Information Center). 2016. Rare, Threatened and Endangered Species of Oregon. Institute for Natural Resources, Portland State University, Portland, Oregon. 130 pp.
- ORBIC. 2018. Confidential results of database query, received May 17, 2018.
- StreamNet. 2017. StreamNet – Fish Distribution by Species. Fish Distribution_BySpeciesRun Layer. Updated March 15, 2017.
<http://psmfc.maps.arcgis.com/home/item.html?id=9b0bec3ddbfa4268aff8564dd4298f35>
Accessed July 17, 2018.

Tetra Tech. 2018. Special-Status Wildlife and Habitat Survey Report for the Bakeoven Energy Project. Wasco County, Oregon. Prepared for Bakeoven Wind, LLC. September 2018.

Wasco County. 2010. Wasco County Comprehensive Plan. Wasco County Planning and Development Office. Adopted August 25, 1983. Last updated June 1, 2010.

https://www.co.wasco.or.us/docs/Planning%20Reference/CompPlan_Ch1-20_MERGED_Searchable.pdf

**ATTACHMENT 1. ARTICLES OF INCORPORATION AND
AUTHORIZATION**

ARTICLES OF ORGANIZATION



Corporation Division
www.filinginoregon.com

E-FILED
Oct 11, 2018
OREGON SECRETARY OF STATE

REGISTRY NUMBER

148522790

TYPE

DOMESTIC LIMITED LIABILITY COMPANY

1. ENTITY NAME

BAKEOVEN SOLAR, LLC

2. MAILING ADDRESS

1125 NW COUCH ST
STE 700
PORTLAND OR 97209 USA

3. PRINCIPAL PLACE OF BUSINESS

1125 NW COUCH ST
STE 700
PORTLAND OR 97209 USA

4. NAME & ADDRESS OF REGISTERED AGENT

15872088 - CORPORATION SERVICE COMPANY

1127 BROADWAY ST NE APT 310
SALEM OR 97301 USA

5. ORGANIZERS

ERICA KESTER

1125 NW COUCH ST STE 700
PORTLAND OR 97209 USA

6. INDIVIDUALS WITH DIRECT KNOWLEDGE

TOAN NGUYEN

1125 NW COUCH ST STE 700
PORTLAND OR 97209 USA

7. INITIAL MEMBERS/MANAGERS

MEMBER

44852689 - AVANGRID RENEWABLES, LLC

1125 NW COUCH ST STE 700
PORTLAND OR 97209 USA



8. DURATION

PERPETUAL

9. MANAGEMENT

This Limited Liability Company will be member-managed by one or more members

I declare, under penalty of perjury, that this document does not fraudulently conceal, fraudulently obscure, fraudulently alter or otherwise misrepresent the identity of the person or any officers, managers, members or agents of the limited liability company on behalf of which the person signs. This filing has been examined by me and is, to the best of my knowledge and belief, true, correct, and complete. Making false statements in this document is against the law and may be penalized by fines, imprisonment, or both.

By typing my name in the electronic signature field, I am agreeing to conduct business electronically with the State of Oregon. I understand that transactions and/or signatures in records may not be denied legal effect solely because they are conducted, executed, or prepared in electronic form and that if a law requires a record or signature to be in writing, an electronic record or signature satisfies that requirement.

ELECTRONIC SIGNATURE

NAME

ERICA KESTER

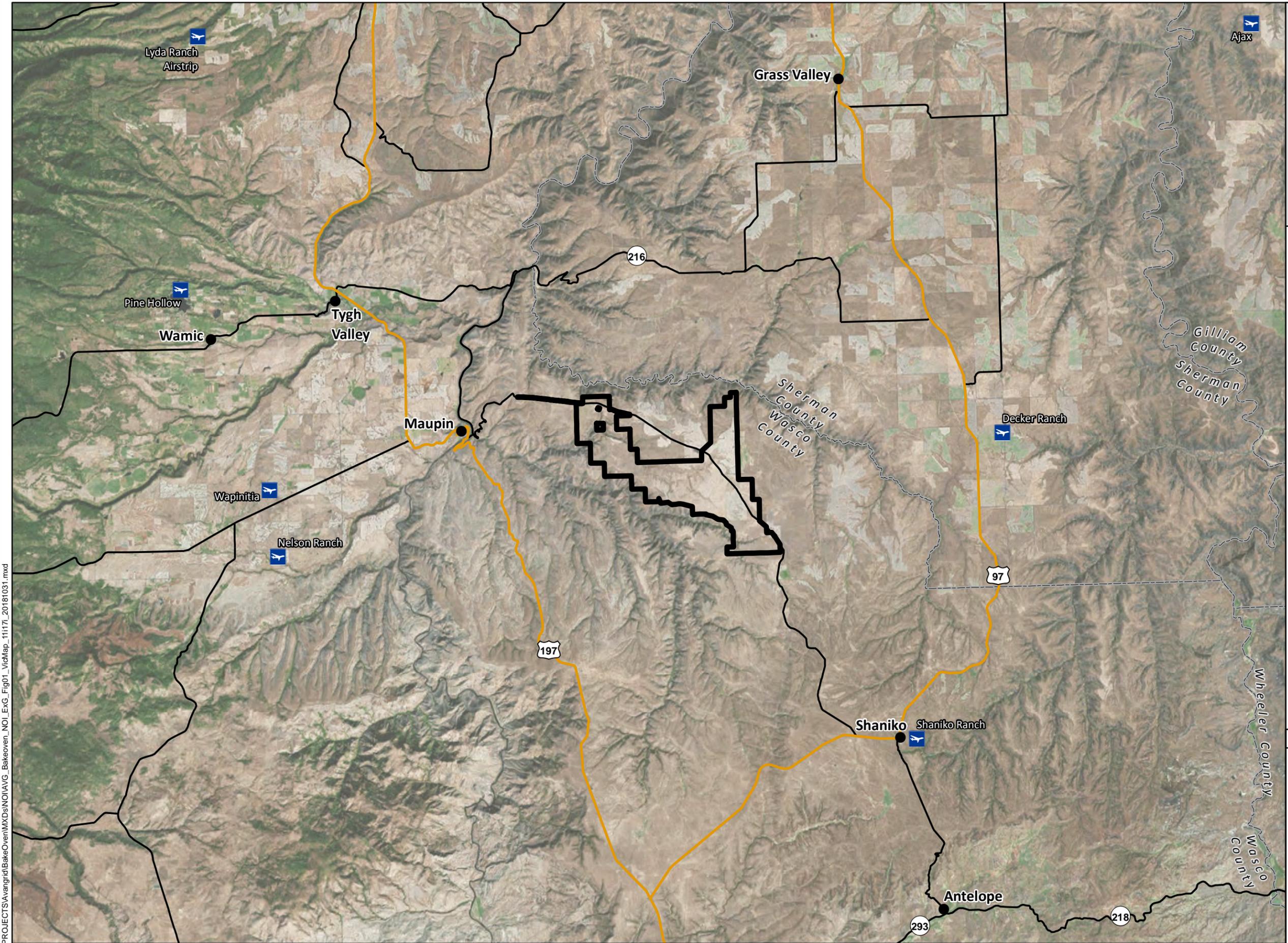
TITLE

SENIOR PARALEGAL

DATE SIGNED

10-11-2018

ATTACHMENT 2. FIGURES



Bakeoven Solar Project

Figure G-1
Vicinity Map

WASCO COUNTY, OREGON

-  Site Boundary
-  County Boundary
-  Secondary Highway
-  Secondary Road
-  Airport (Private)



Data Sources

Avangrid-Project Infrastructure;
USDA-Aerial Imagery; ESRI-Roads, Cities;
Ventyx-Airports

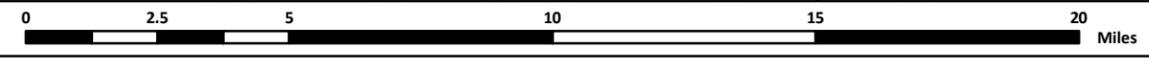
Reference Map



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1:220,000 WGS 1984 UTM Zone 10N



Bakeoven Solar Project

Figure G-2 Facility Layout

WASCO COUNTY, OREGON

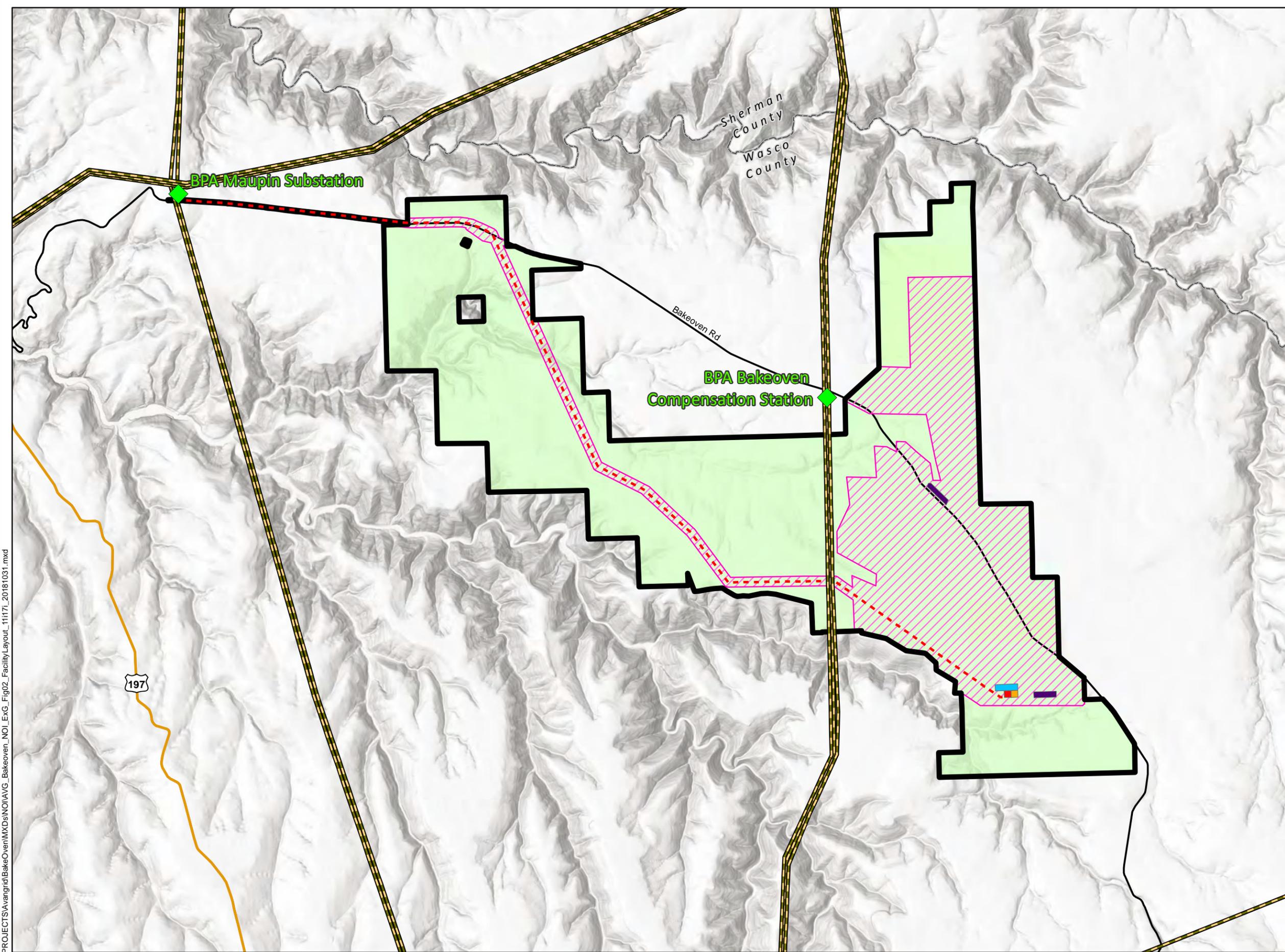
- Site Boundary
- Micrositing Corridor
- Proposed Gen-Tie Line, 230kV
- Proposed O&M Facility
- Proposed Substation
- Proposed Staging Area
- Proposed Battery Storage
- County Boundary
- Secondary Road
- Existing Substation
- Existing Transmission Line (>100kV)
- Private Land Under Lease



Data Sources

Avangrid-Project Infrastructure;
USDA-Aerial Imagery; ESRI-Roads;
Ventyx-Existing Transmission Line, Substations

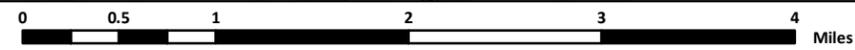
Reference Map



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1:60,000 WGS 1984 UTM Zone 10N



Bakeoven Solar Project

Figure G-3 Topography

WASCO COUNTY, OREGON

- Site Boundary
- Micrositing Corridor
- Proposed Gen-Tie Line, 230kV
- Proposed O&M Facility
- Proposed Substation
- Proposed Staging Area
- Proposed Battery Storage
- County Boundary
- Secondary Highway
- Secondary Road
- Elevation (feet)
 - High : 2670
 - Low : 1150



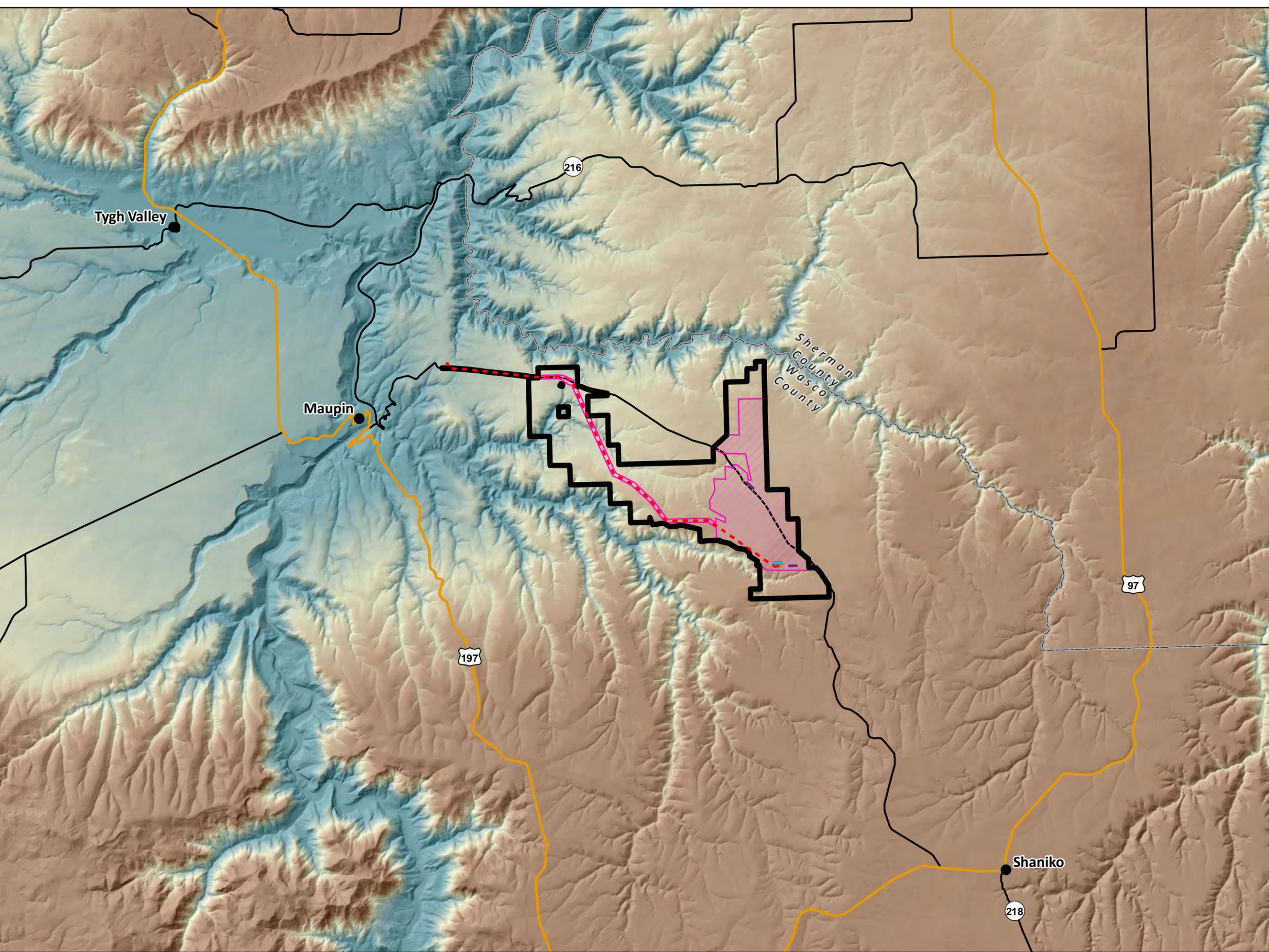
Data Sources

Avangrid-Project Infrastructure;
USGS-DEM; ESRI-Roads, Cities

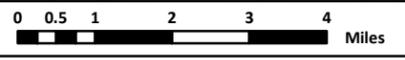
Reference Map



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1:150,000 WGS 1984 UTM Zone 10N



Bakeoven Solar Project

Figure G-4 National Wetlands Inventory

WASCO COUNTY, OREGON

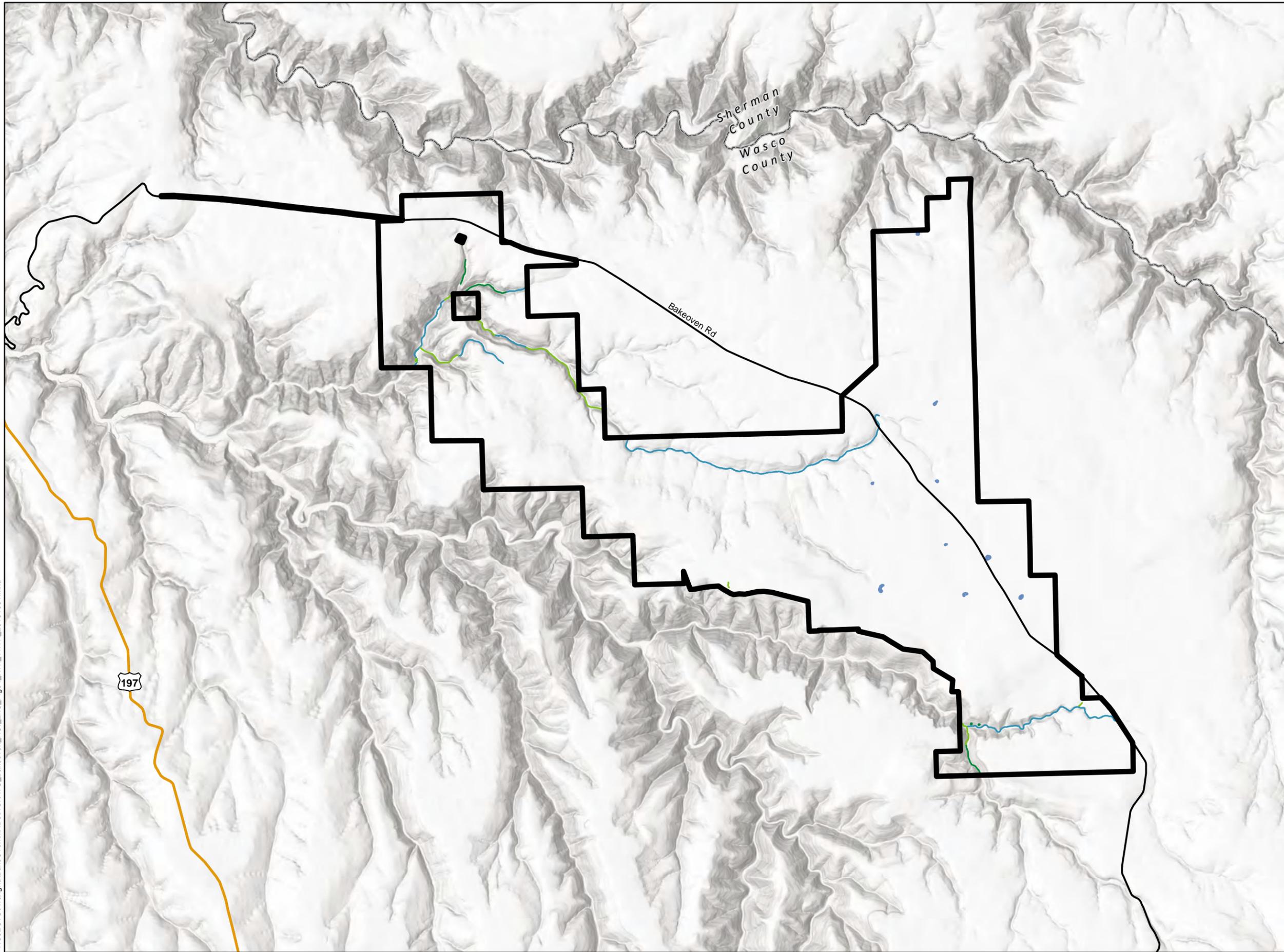
-  Site Boundary
-  County Boundary
-  Secondary Road
- Wetland Type**
-  Freshwater Emergent wetland
-  Freshwater- Forested and Shrub wetland
-  Freshwater pond
-  Riverine



Data Sources

Reference Map

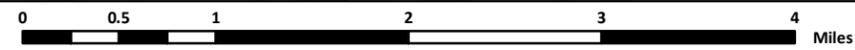
Avangrid-Project Infrastructure;
ESRI-Roads; USFWS-NWI



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1:60,000 WGS 1984 UTM Zone 10N



Bakeoven Solar Project

Figure G-5 National Hydrography Data

WASCO COUNTY, OREGON

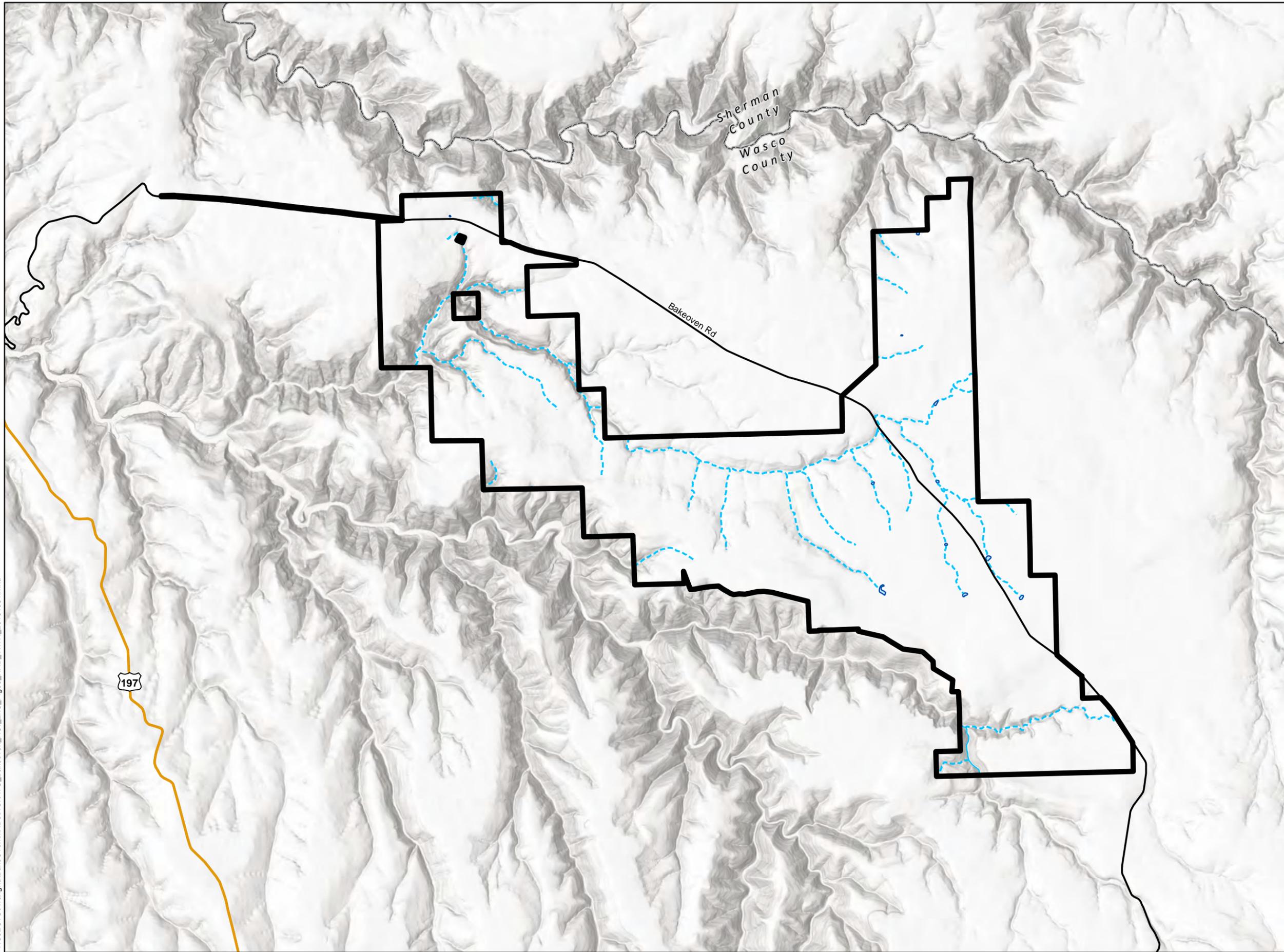
- Site Boundary
- County Boundary
- Secondary Road
- Streams**
 - Perennial
 - Intermittent
- Waterbody**
 - Lake/Pond



Data Sources

Reference Map

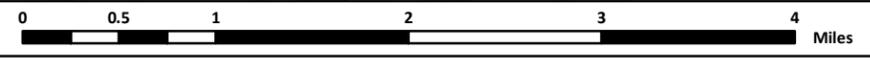
Avangrid-Project Infrastructure;
ESRI-Roads; USGS-NHD



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1:60,000 WGS 1984 UTM Zone 10N



Bakeoven Solar Project

Figure G-6
Study Area Boundaries

WASCO COUNTY, OREGON

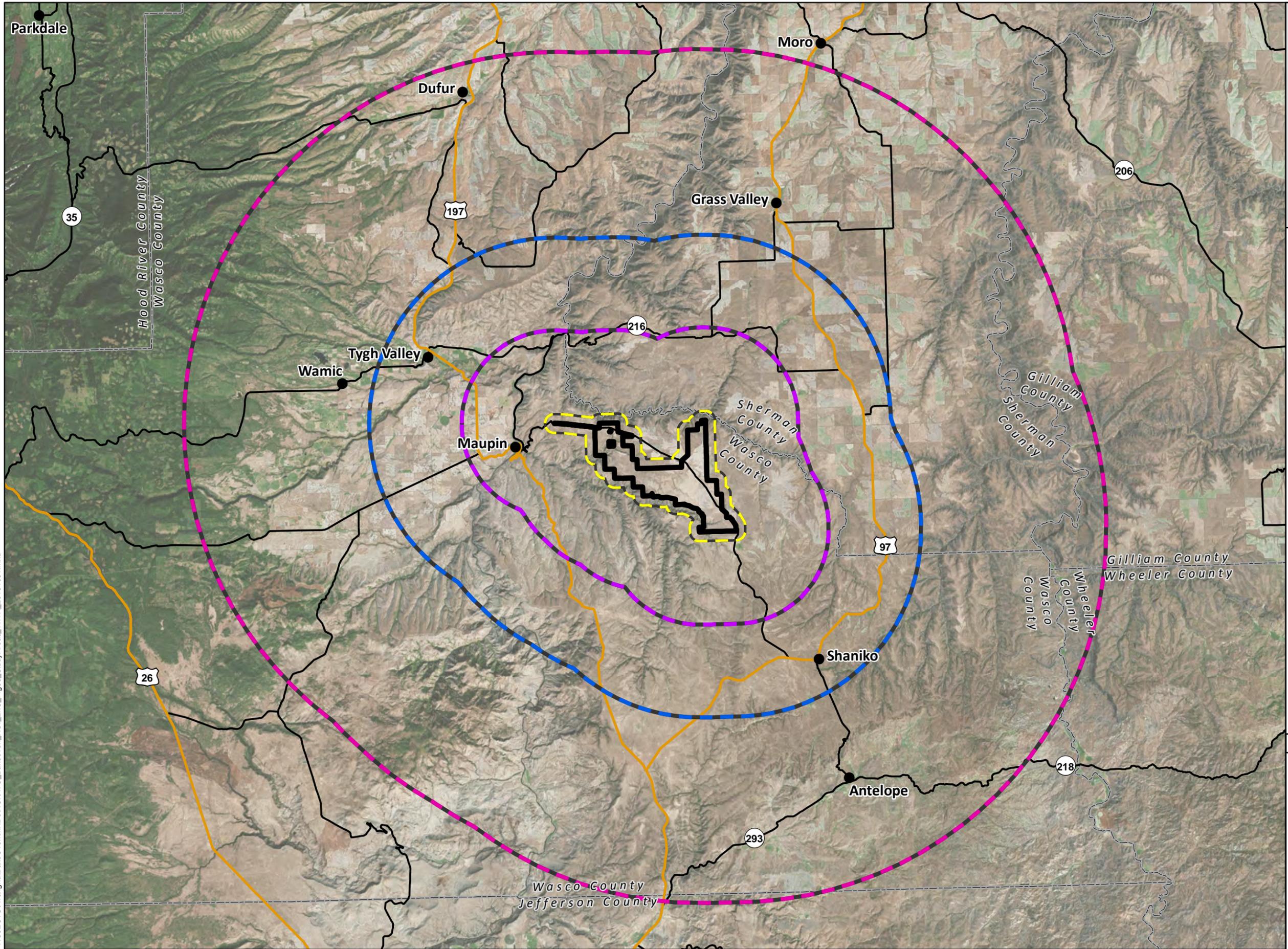
-  Site Boundary
- Study Area**
-  0.5 miles, Land Use and Fish and Wildlife Habitat
-  5 miles, Recreation and Threatened and Endangered Species
-  10 miles, Scenic Resources and Public Services
-  20 miles, Protected Areas
-  County Boundary
-  Secondary Highway
-  Secondary Road



Data Sources

Avangrid-Project Infrastructure;
USDA-Aerial Imagery; ESRI-Roads, Cities

Reference Map



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Bakeoven Solar Project

Figure G-7
Protected Areas

WASCO COUNTY, OREGON

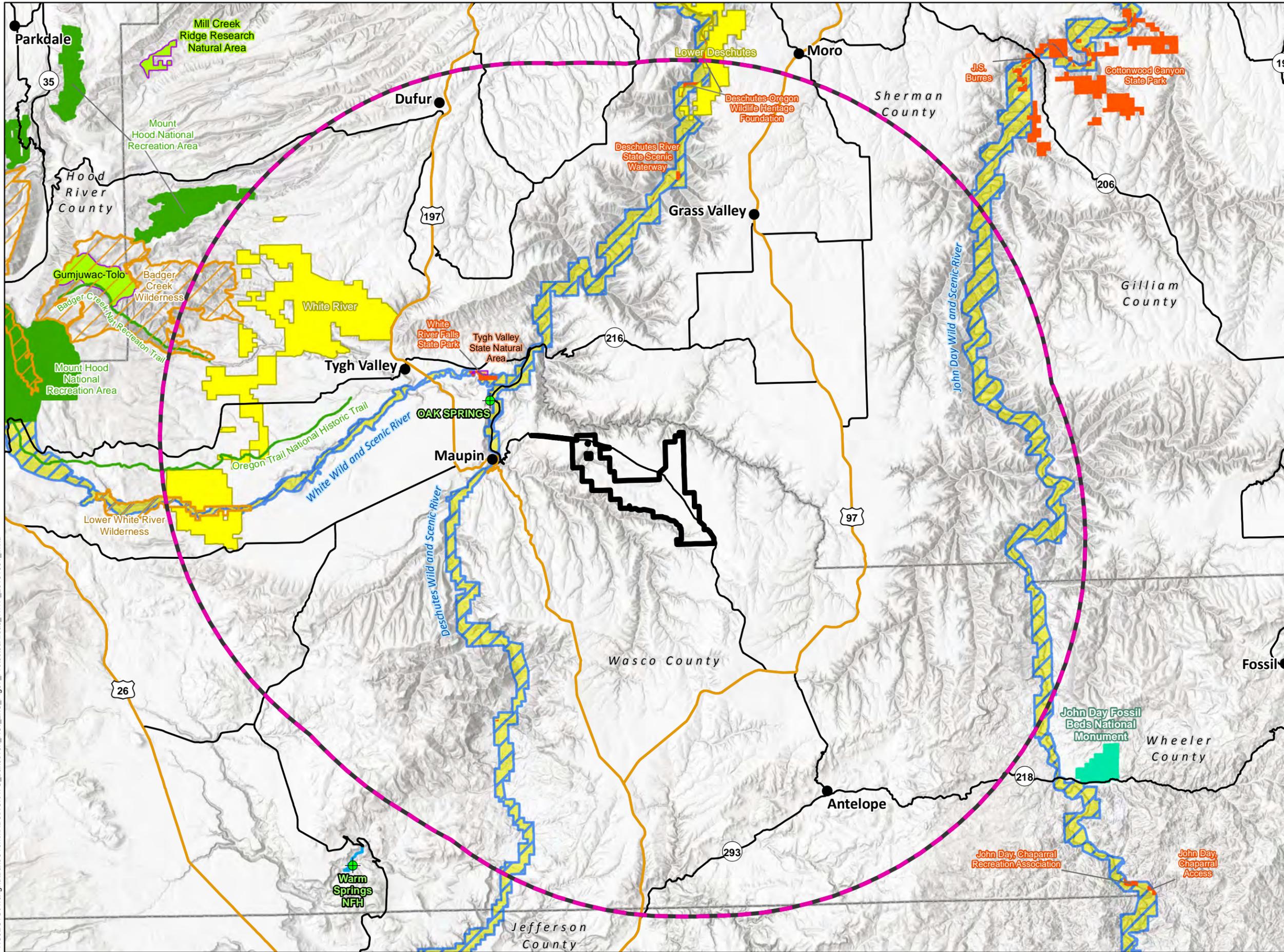
-  Site Boundary
- Study Area**
-  20 miles, Protected Areas
-  County Boundary
-  Secondary Highway
-  Secondary Road
-  Fish Hatchery (ODFW)
-  Wild and Scenic River
-  National Monument (NPS)
-  National Recreation and Scenic Areas (USFS)
-  Warm Springs National Fish Hatchery
-  Oregon Department of Fish and Wildlife Wildlife Refuge (ODFW)
-  Oregon Parks and Recreation Department Site (OPRD)
-  Wilderness Area
-  Forest Service Natural Area
-  State Natural Area



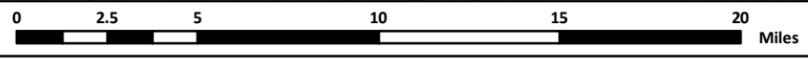
Data Sources

Avangrid-Project Infrastructure; USGS-Hillsshade; ESRI-Roads; Cities; NPS-National Monuments; USFS-Wilderness Areas, National Recreation & Scenic Areas, Scenic Waterways/Wild & Scenic Rivers; OPRD-State Parks & Waysides, State Natural Areas; ODFW-Fish Hatcheries, State Wildlife & Management Areas

Reference Map



1:320,000 WGS 1984 UTM Zone 10N



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Bakeoven Solar Project

Figure G-8 Energy Facilities within 10 Miles

WASCO COUNTY, OREGON

- Site Boundary
- Study Area
- 10 miles, Scenic Resources and Public Services
- County Boundary
- Transmission Line**
 - In Service
 - Proposed
- Wind (in development)**
 - Summit Ridge Wind Project, Approved
 - Imperial Wind Project, Proposed



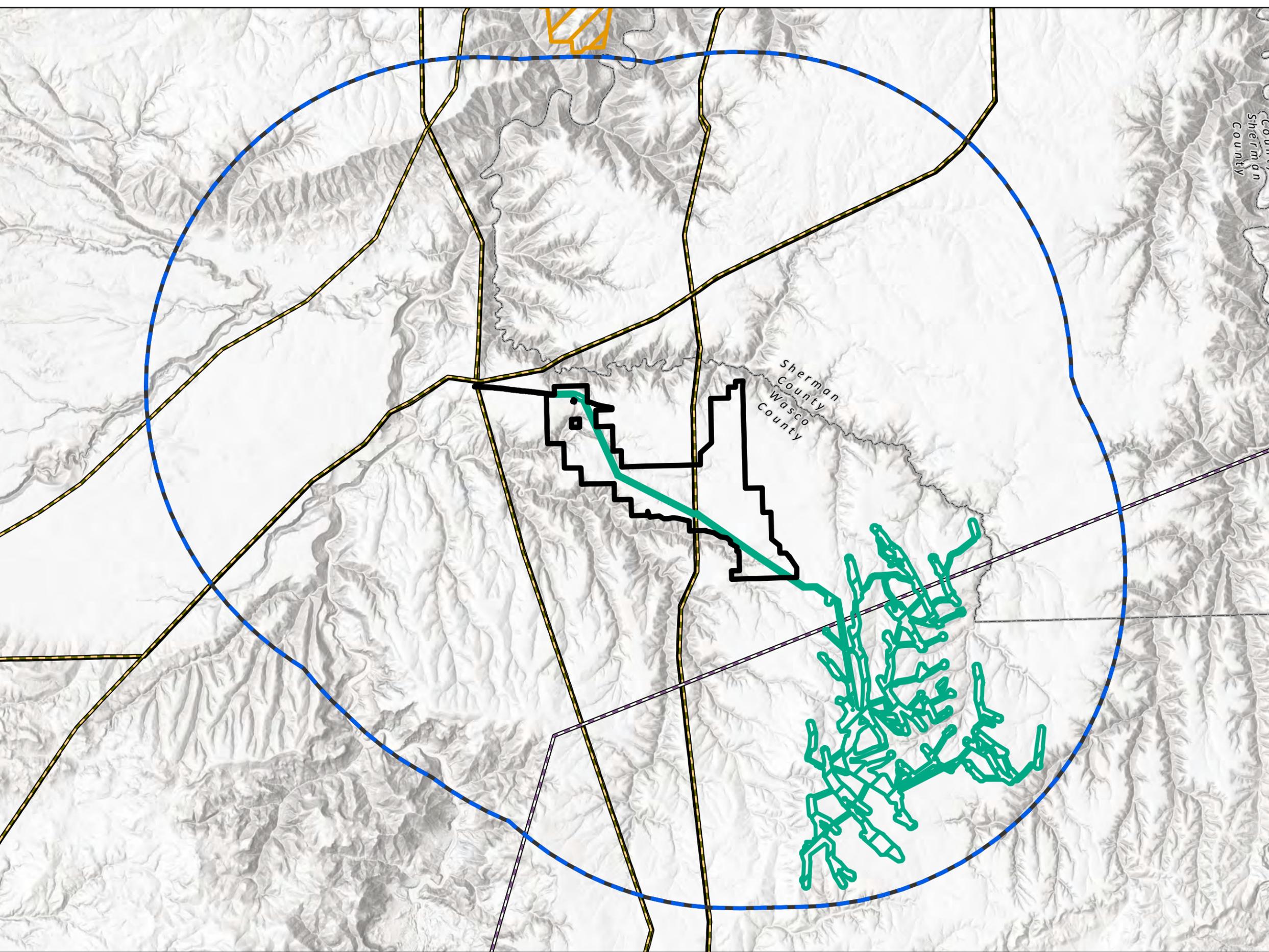
Data Sources

Avangrid-Project Infrastructure;
USGS-Hillshade; ESRI-Roads, Cities;
Ventyx-Substation, Transmission Line

Reference Map



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**ATTACHMENT 3. TAX LOT IDS OF WASCO AND SHERMAN
COUNTY LANDOWNERS**

Table F-1. Property Owners within 1 mile of the Proposed Facility Site Boundary (Data Obtained October 30, 2018)

Map Tax Lot	First Name	Last Name	Name 2	Company/Organization	C/O-Attn.	Address	City	State	Zip Code
Wasco County									
5S 16E 0 1201	LARRY C	ASHLEY	VICKI			90530 BAKEOVEN RD	MAUPIN	Oregon	97037
4S 15E 0 800	RUTH	LINDLEY				87670 BAKEOVEN RD	MAUPIN	Oregon	97037
4S 15E 0 900				WASCO COUNTY		511 WASHINGTON ST	THE DALLES	Oregon	97058
5S 15E 0 100				ASHLEY L STEVEN ET AL		3633 WASHINGTON ST	SAN FRANCISCO	California	94118-1832
5S 15E 0 1000	RUTH	LINDLEY				87670 BAKEOVEN RD	MAUPIN	Oregon	97037
4S 14E 0 2700				CONNOLLY LAND & LIVESTOCK INC		19570 PINEHURST RD	BEND	Oregon	97701-9089
4S 14E 0 4100				UNITED STATES OF AMERICA		UNDETERMINED PARTY_ADDRESS	AUBURN	Oregon	97058
4S 15E 0 1000				UNITED STATES OF AMERICA		3050 NE 3RD ST	PRINEVILLE	Oregon	97754
4S 15E 0 1100	JOHN F	LARSELL	JOANNIE			1283 NW 14TH ST	LINCOLN CITY	Oregon	97367
4S 15E 0 1200				CEMETERY		UNDETERMINED PARTY_ADDRESS	AUBURN	Oregon	97058
4S 15E 0 1300	LONNY	BROWN	PAMELA			PO BOX 879	FAIRVIEW	Oregon	97024
4S 15E 0 1400	LONNY	BROWN	PAMELA			PO BOX 879	FAIRVIEW	Oregon	97024
4S 15E 0 1500				ASHLEY L STEVEN ET AL		3633 WASHINGTON ST	SAN FRANCISCO	California	94118-1832
4S 15E 0 300				STATE OF OREGON		UNDETERMINED PARTY_ADDRESS	AUBURN	Oregon	97058
4S 15E 0 700				CONNOLLY LAND & LIVESTOCK INC		19570 PINEHURST RD	BEND	Oregon	97701-9089
5S 14E 0 100				UNITED STATES OF AMERICA		3050 NE 3RD ST	PRINEVILLE	Oregon	97754
5S 14E 0 200	RUTH	LINDLEY				87670 BAKEOVEN RD	MAUPIN	Oregon	97037
5S 14E 0 300	RUTH	LINDLEY				87670 BAKEOVEN RD	MAUPIN	Oregon	97037
5S 14E 0 400				CONNOLLY LAND & LIVESTOCK INC		19570 PINEHURST RD	BEND	Oregon	97701-9089
5S 15E 0 1400				UNITED STATES OF AMERICA		3050 NE 3RD ST	PRINEVILLE	Oregon	97754
5S 15E 0 1500				CONROY JOANNE L TRUST		541 SUMMIT RIDGE DR	THE DALLES	Oregon	97058
5S 15E 0 1600				UNITED STATES OF AMERICA		3050 NE 3RD ST	PRINEVILLE	Oregon	97754
5S 15E 0 1700				UNITED STATES OF AMERICA		3050 NE 3RD ST	PRINEVILLE	Oregon	97754
5S 15E 0 1800	LARRY C	ASHLEY	VICKI			90530 BAKEOVEN RD	MAUPIN	Oregon	97037
5S 15E 0 1900				ASHLEY L STEVEN ET AL		3633 WASHINGTON ST	SAN FRANCISCO	California	94118-1832
5S 15E 0 200				UNITED STATES OF AMERICA		3050 NE 3RD ST	PRINEVILLE	Oregon	97754
5S 15E 0 2000				CONROY JOANNE L TRUST		541 SUMMIT RIDGE DR	THE DALLES	Oregon	97058
5S 15E 0 2100				WARNOCK RANCHES INC		91440 BAKEOVEN RD	MAUPIN	Oregon	97037
5S 15E 0 2200				CONROY JOANNE L TRUST		541 SUMMIT RIDGE DR	THE DALLES	Oregon	97058
5S 15E 0 300	JOHN F	LARSELL	JOANNIE			1283 NW 14TH ST	LINCOLN CITY	Oregon	97367
5S 15E 0 400	LONNY	BROWN	PAMELA			PO BOX 879	FAIRVIEW	Oregon	97024
5S 15E 0 500	RUTH	LINDLEY				87670 BAKEOVEN RD	MAUPIN	Oregon	97037
5S 15E 0 600	RUTH	LINDLEY				87670 BAKEOVEN RD	MAUPIN	Oregon	97037
5S 15E 0 700				UNITED STATES OF AMERICA		3050 NE 3RD ST	PRINEVILLE	Oregon	97754

Table F-1. Property Owners within 1 mile of the Proposed Facility Site Boundary (Data Obtained October 30, 2018) (continued)

Map Tax Lot	First Name	Last Name	Name 2	Company/Organization	C/O-Attn.	Address	City	State	Zip Code
5S 15E 0 800				CONNOLLY LAND & LIVESTOCK INC		19570 PINEHURST RD	BEND	Oregon	97701-9089
5S 15E 0 900	RUTH	LINDLEY				87670 BAKEOVEN RD	MAUPIN	Oregon	97037
5S 16E 0 1000				PHILLIPS DON W ET AL		PO BOX 689	BEAVERCREEK	Oregon	97004-0689
5S 16E 0 1100				PHILLIPS DON W ET AL		PO BOX 689	BEAVERCREEK	Oregon	97004-0689
5S 16E 0 1300				CHRISMAN LEVI FAMILY LLC		62261 DEER TRIAL RD	BEND	Oregon	97701
5S 16E 0 2000				A & K RANCHES		3633 WASHINGTON ST	SAN FRANCISCO	California	94118-1832
5S 16E 0 2200	LARRY C	ASHLEY	VICKI			90530 BAKEOVEN RD	MAUPIN	Oregon	97037
5S 16E 0 2300				A & K RANCHES		3633 WASHINGTON ST	SAN FRANCISCO	California	94118-1832
5S 16E 0 2400				A & K RANCHES		3633 WASHINGTON ST	SAN FRANCISCO	California	94118-1832
5S 16E 0 2800	DANIEL L	CARVER				92462 HINTON RD	MAUPIN	Oregon	97037
5S 16E 0 3200				BAKEOVEN I LLC		14860 SE 51ST ST	BELLEVUE	Washington	98006
5S 16E 0 3300	BLAINE D	CARVER				91443 HINTON RD	MAUPIN	Oregon	97037
5S 16E 0 3400				WARNOCK RANCHES INC		91440 BAKEOVEN RD	MAUPIN	Oregon	97037
5S 16E 0 1200				A & K RANCHES		3633 WASHINGTON ST	SAN FRANCISCO	California	94118-1832
5S 15E 0 1100	ASHLEY LARRY C & VICKI					90530 BAKEOVEN RD	MAUPIN	Oregon	97037
5S 16E 0 2502				CLARK KENNETH W ET AL		14860 SE 51ST ST	BELLEVUE	Washington	98006
5S 16E 0 2501				CLARK KENNETH W ET AL		14860 SE 51ST ST	BELLEVUE	Washington	98006
5S 16E 0 2500				BAKEOVEN I LLC		14860 SE 51ST ST	BELLEVUE	Washington	98006
4S 15E 0 100				ODOM BETTY J ET AL		55133 JUNIPER FLAT RD	MAUPIN	Oregon	97037
4S 16E 0 300				PHILLIPS DON W ET AL		PO BOX 689	BEAVERCREEK	Oregon	97004-0689
4S 14E 0 4000				UNITED STATES OF AMERICA		3050 NE 3RD ST	PRINEVILLE	Oregon	97754
4S 15E 0 400				UNITED STATES OF AMERICA		3050 NE 3RD ST	PRINEVILLE	Oregon	97754
4S 15E 0 500				CONNOLLY LAND & LIVESTOCK INC		19570 PINEHURST RD	BEND	Oregon	97701-9089
4S 15E 0 600				UNITED STATES OF AMERICA		3050 NE 3RD ST	PRINEVILLE	Oregon	97754
4S 15E 0 200				PROCK STEVEN A & KITTIE M FT		PO BOX 35	EAGLE CREEK	Oregon	97022
4S 16E 0 100				ODOM BETTY J ET AL		55133 JUNIPER FLAT RD	MAUPIN	Oregon	97037
4S 16E 0 200	DOUGLAS	BIBBY				92018 KOPKE LANE	GRASS VALLEY	Oregon	97029
5S 16E 0 900				PHILLIPS DON W ET AL		PO BOX 689	BEAVERCREEK	Oregon	97004-0689
Sherman County									
4S 15E 0 2900				STATE OF OREGON	DEPARTMENT OF STATE LANDS, ASSET MANAGEMENT SECTION	775 SUMMER STREET NE, SUITE 100	SALEM	Oregon	97301-1279
4S 16E 0 3900				FEDERAL GOVERNMENT		EXEMPT			
4S 16E 0 4000	DOUGLAS	BIBBY				92018 KOPKE LANE	GRASS VALLEY	Oregon	97029
4S 16E0 3400	DOUGLAS	BIBBY				92018 KOPKE LANE	GRASS VALLEY	Oregon	97029

Table F-1. Property Owners within 1 mile of the Proposed Facility Site Boundary (Data Obtained October 30, 2018) (continued)

Map Tax Lot	First Name	Last Name	Name 2	Company/Organization	C/O-Attn.	Address	City	State	Zip Code
4 S16E 0 5000				ODOM, BETTY JEAN ETAL		55133 JUNIPER FLAT ROAD	MAUPIN	Oregon	97037-9704
4S 15E 0 3500				FEDERAL GOVERNMENT		EXEMPT			
4S 15E 0 3200				ODOM, BETTY JEAN ETAL		55133 JUNIPER FLAT ROAD	MAUPIN	Oregon	97037-9704
4S 15E 0 2700				PROCK, STEVEN A & KITTIE M TRT		PO BOX 35	EAGLE CREEK	Oregon	97022
4S 15E 0 3000				ODOM, BETTY JEAN ETAL		55133 JUNIPER FLAT ROAD	MAUPIN	Oregon	97037-9704
4S 15E 0 2800				ODOM, BETTY JEAN ETAL		55133 JUNIPER FLAT ROAD	MAUPIN	Oregon	97037-9704
4S 15E 0 2600				FEDERAL GOVERNMENT		EXEMPT			
4S 15E 01500				PROCK, STEVEN A & KITTIE M TRT		PO BOX 35	EAGLE CREEK	Oregon	97022
4S 15E 0 2900				STATE OF OREGON	DEPARTMENT OF STATE LANDS, ASSET MANAGEMENT SECTION	775 SUMMER STREET NE, SUITE 100	SALEM	Oregon	97301-1279

Bakeoven Solar Project

Figure F-1 Index Taxlots

WASCO COUNTY, OREGON

-  Site Boundary
-  Grid Index
-  Taxlot Boundary
-  County Boundary



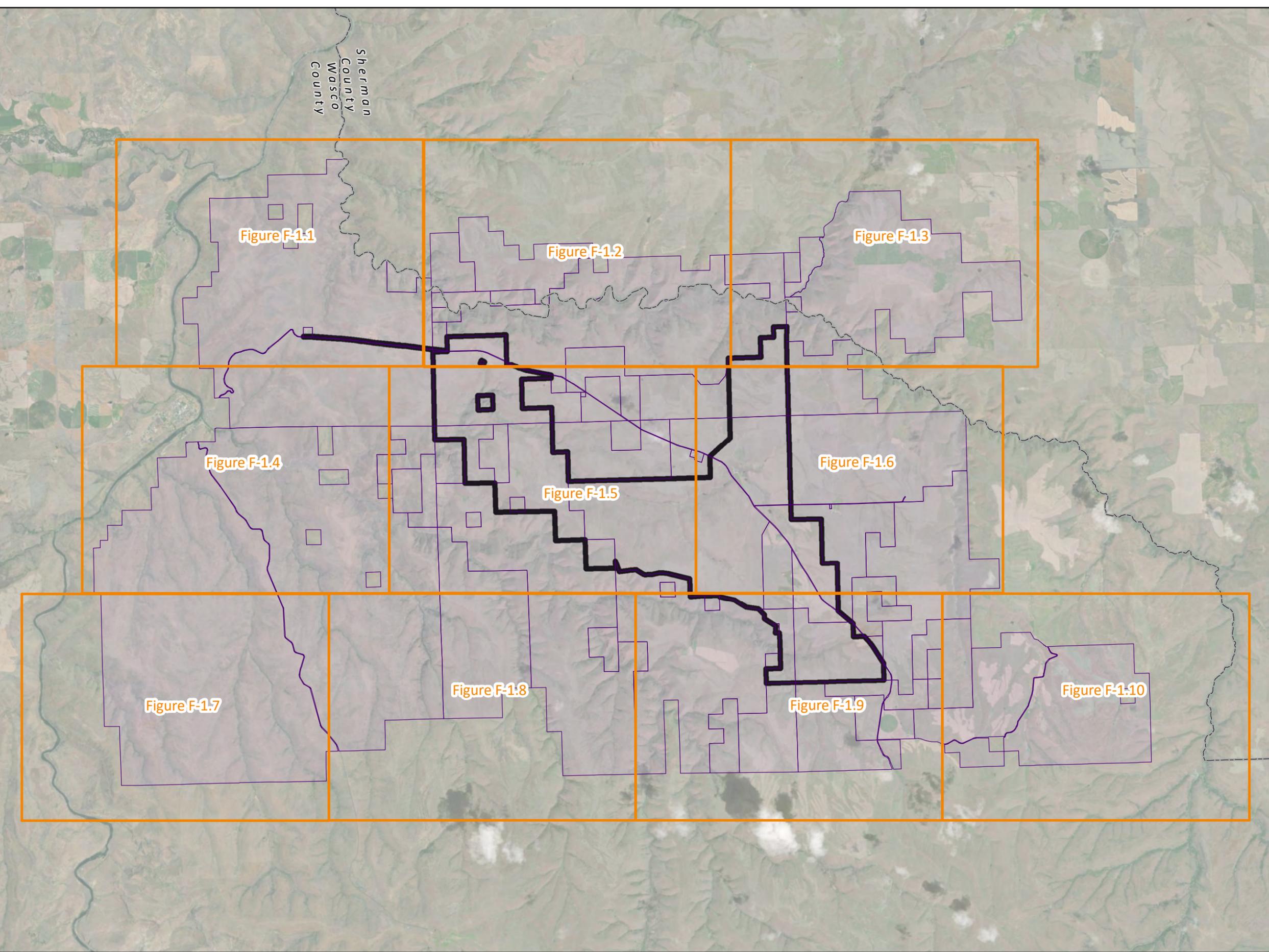
Data Sources

Reference Map

Avangrid-Project Infrastructure;
USDA-Aerial Imagery; ESRI-Roads,
Cities; Wasco County-Taxlots



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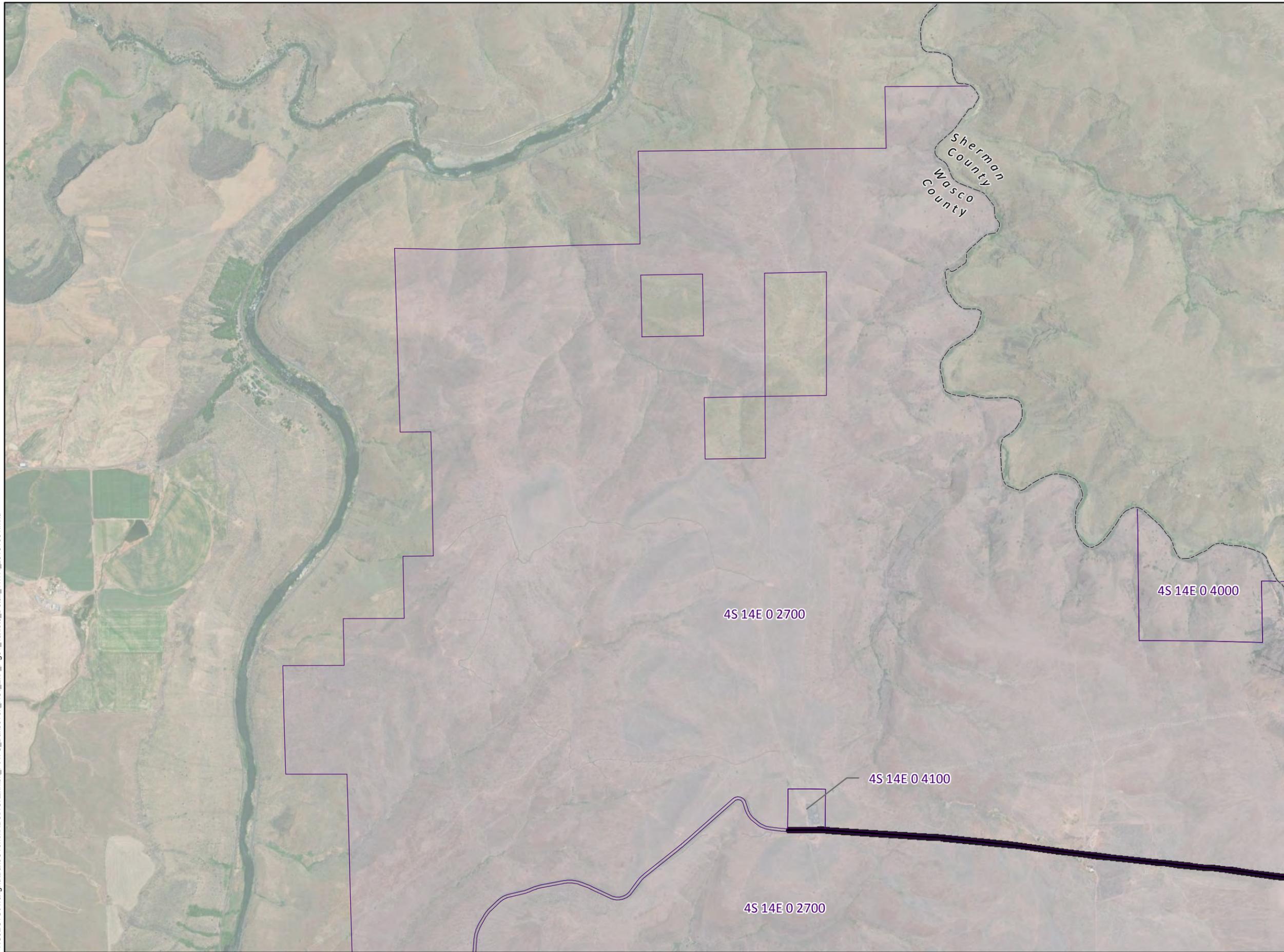


Bakeoven Solar Project

Figure F-1.1 Taxlots

WASCO COUNTY, OREGON

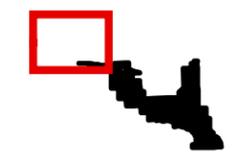
-  Site Boundary
-  Taxlot Boundary
-  County Boundary



Data Sources

Reference Map

Avangrid-Project Infrastructure;
USDA-Aerial Imagery; ESRI-Roads,
Cities; Wasco County-Taxlots



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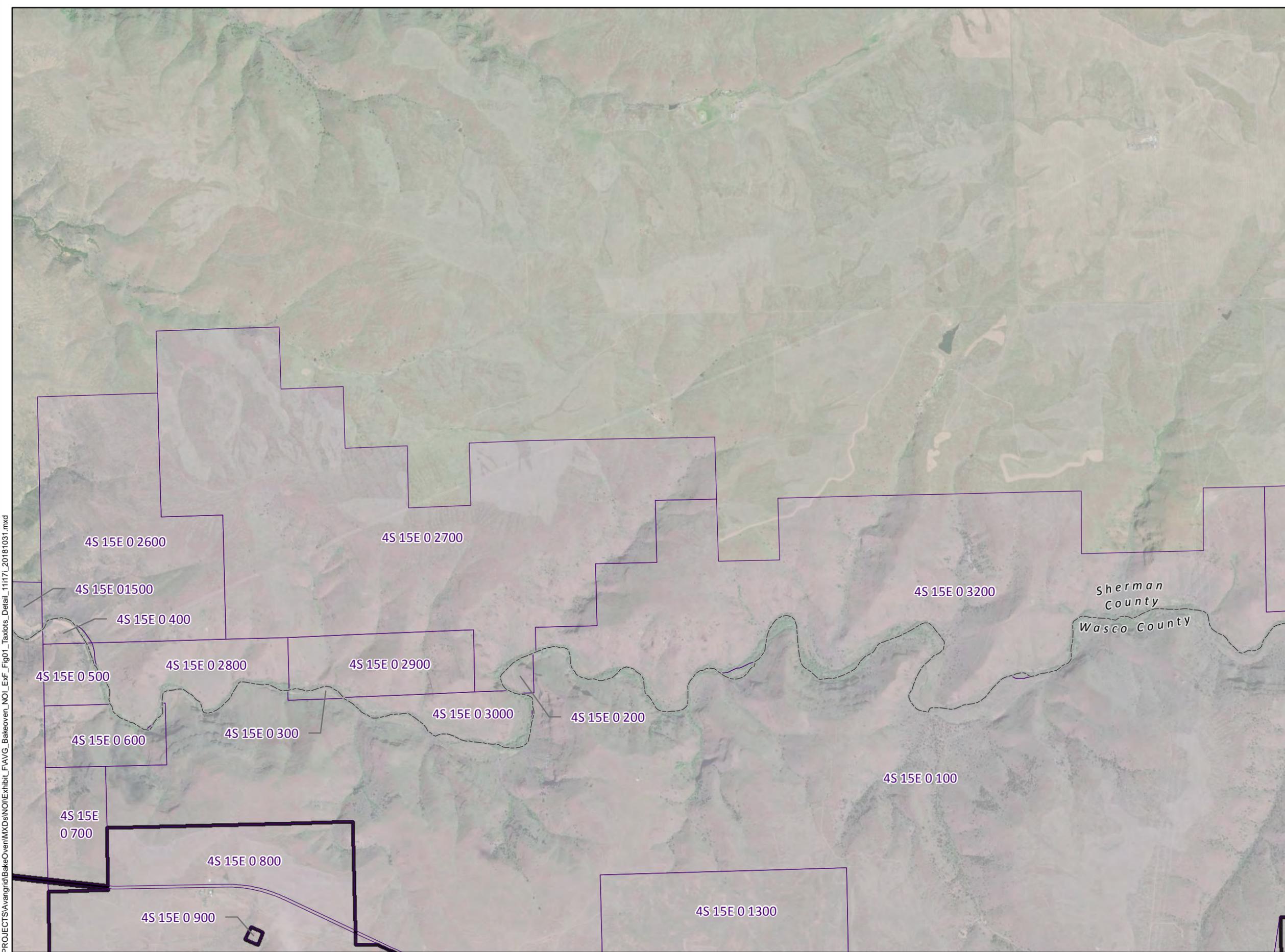
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Bakeoven Solar Project

Figure F-1.2 Taxlots

WASCO COUNTY, OREGON

-  Site Boundary
-  Taxlot Boundary
-  County Boundary



Data Sources

Reference Map

Avangrid-Project Infrastructure;
USDA-Aerial Imagery; ESRI-Roads;
Cities; Wasco County-Taxlots



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Bakeoven Solar Project

Figure F-1.3 Taxlots

WASCO COUNTY, OREGON

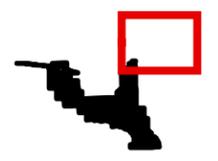
-  Site Boundary
-  Taxlot Boundary
-  County Boundary



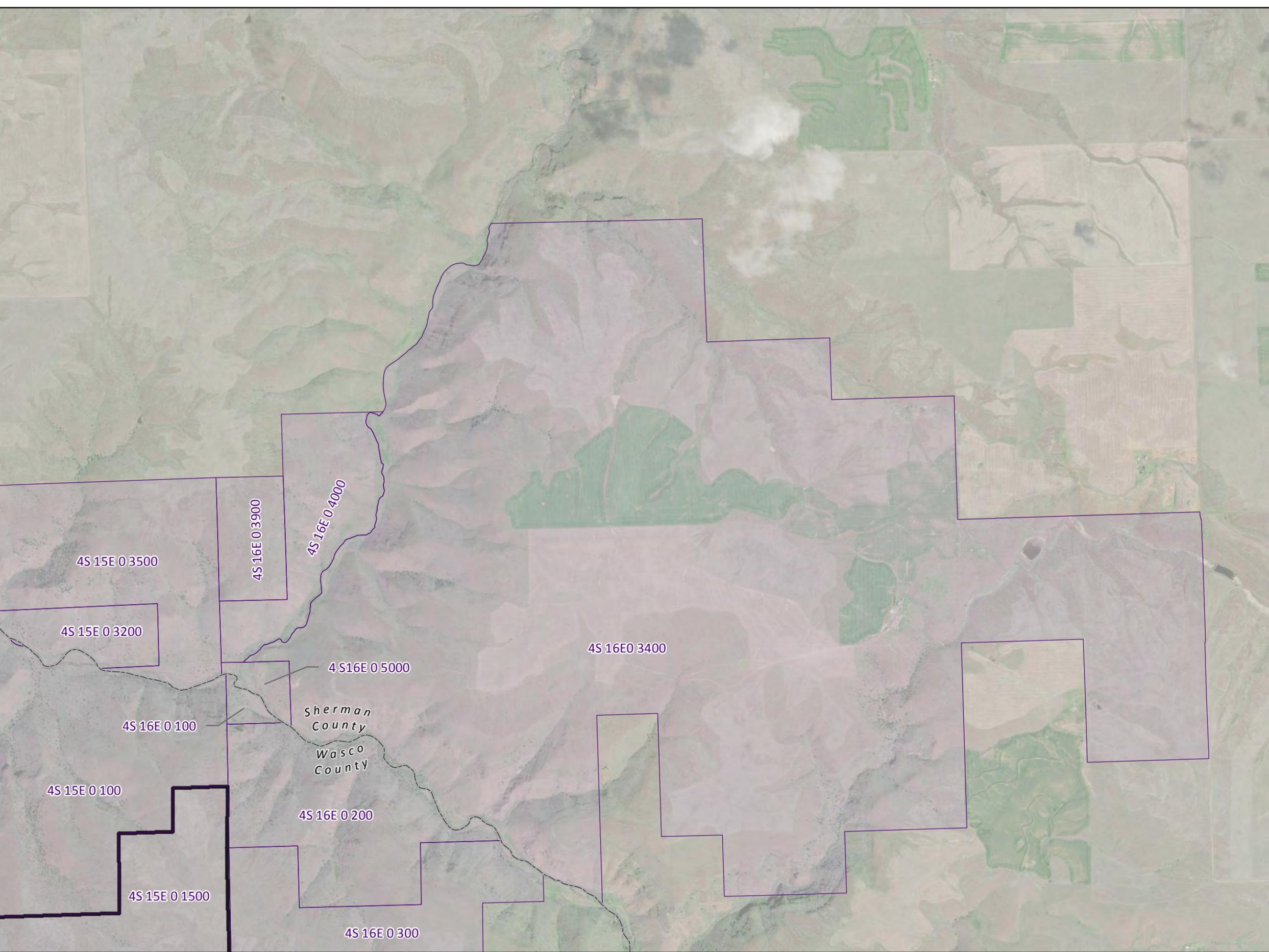
Data Sources

Reference Map

Avangrid-Project Infrastructure;
USDA-Aerial Imagery; ESRI-Roads;
Cities; Wasco County-Taxlots



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Bakeoven Solar Project

Figure F-1.4 Taxlots

WASCO COUNTY, OREGON

-  Site Boundary
-  Taxlot Boundary
-  County Boundary



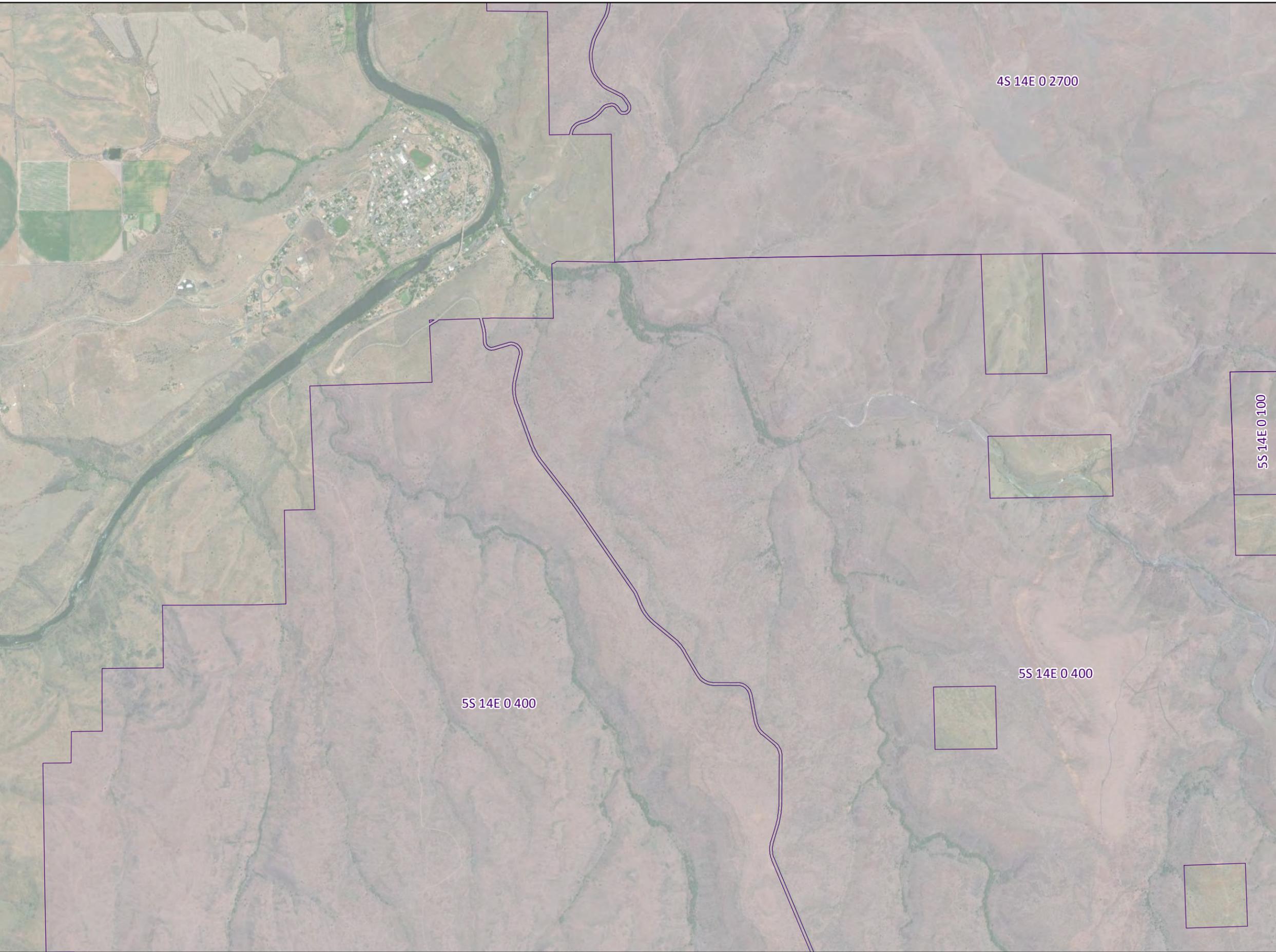
Data Sources

Reference Map

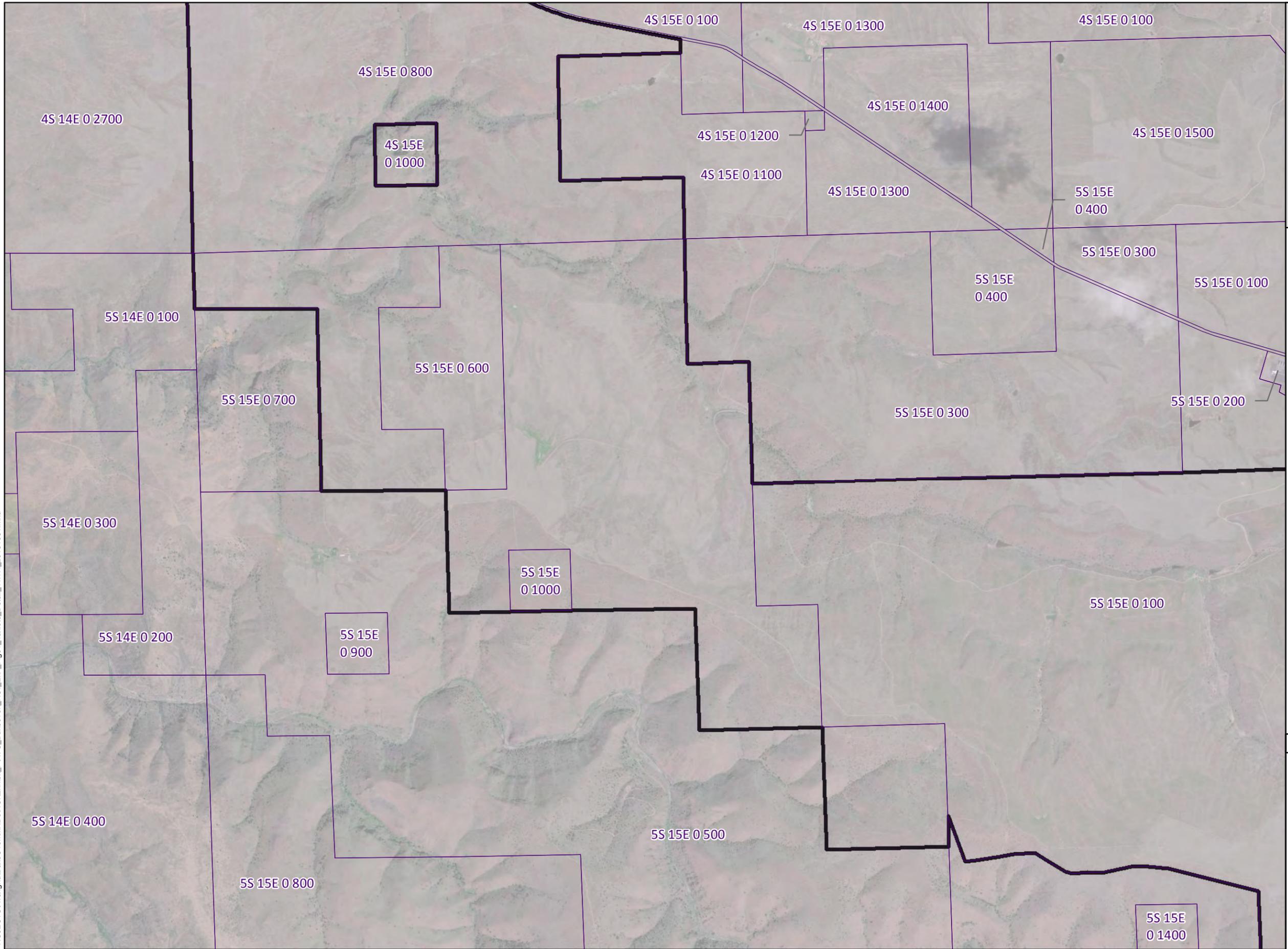
Avangrid-Project Infrastructure;
USDA-Aerial Imagery; ESRI-Roads,
Cities; Wasco County-Taxlots



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Bakeoven Solar Project

Figure F-1.5 Taxlots

WASCO COUNTY, OREGON

-  Site Boundary
-  Taxlot Boundary
-  County Boundary



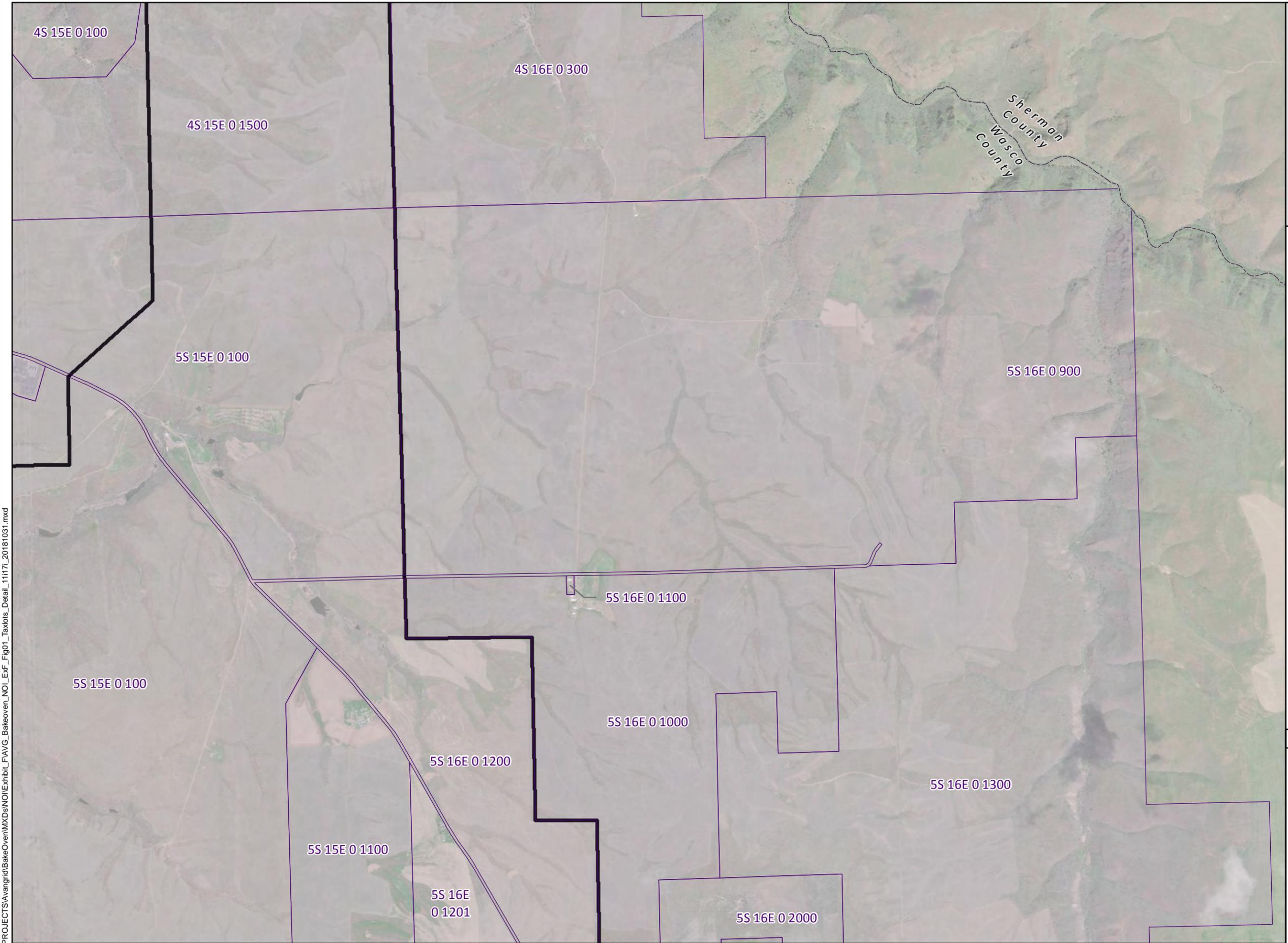
Data Sources

Reference Map

Avangrid-Project Infrastructure;
USDA-Aerial Imagery; ESRI-Roads;
Cities; Wasco County-Taxlots



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Bakeoven Solar Project

**Figure F-1.6
Taxlots**

WASCO COUNTY, OREGON

-  Site Boundary
-  Taxlot Boundary
-  County Boundary



Data Sources

Reference Map

Avangrid-Project Infrastructure;
USDA-Aerial Imagery; ESRI-Roads,
Cities; Wasco County-Taxlots



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Bakeoven Solar Project

Figure F-1.7 Taxlots

WASCO COUNTY, OREGON

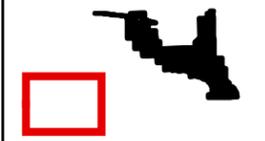
-  Site Boundary
-  Taxlot Boundary
-  County Boundary



Data Sources

Reference Map

Avangrid-Project Infrastructure;
USDA-Aerial Imagery; ESRI-Roads,
Cities; Wasco County-Taxlots



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Bakeoven Solar Project

Figure F-1.8 Taxlots

WASCO COUNTY, OREGON

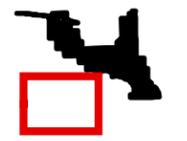
-  Site Boundary
-  Taxlot Boundary
-  County Boundary



Data Sources

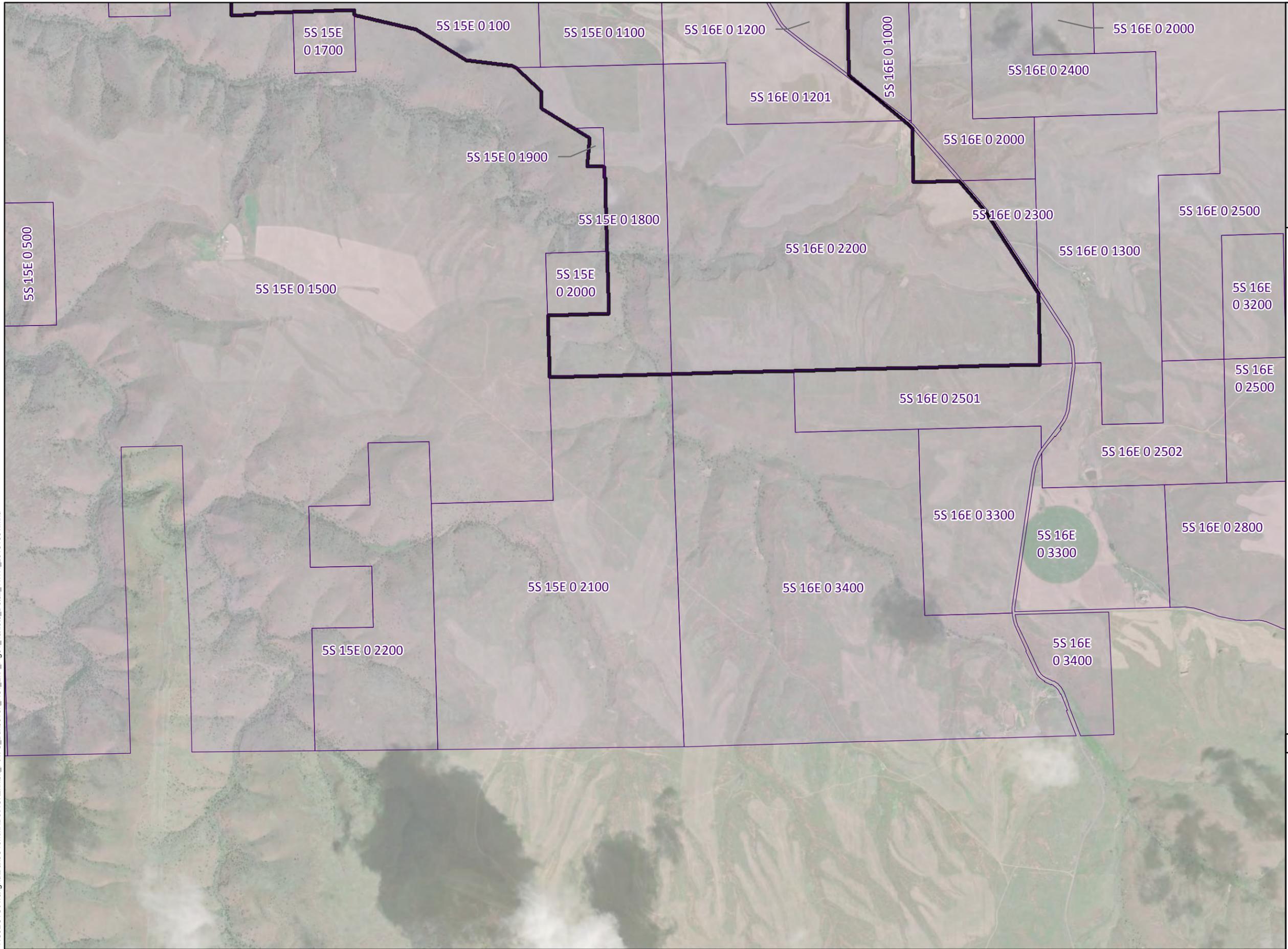
Reference Map

Avangrid-Project Infrastructure;
USDA-Aerial Imagery; ESRI-Roads;
Cities; Wasco County-Taxlots



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Bakeoven Solar Project

Figure F-1.9 Taxlots

WASCO COUNTY, OREGON

-  Site Boundary
-  Taxlot Boundary
-  County Boundary



Data Sources

Reference Map

Avangrid-Project Infrastructure;
USDA-Aerial Imagery; ESRI-Roads;
Cities; Wasco County-Taxlots



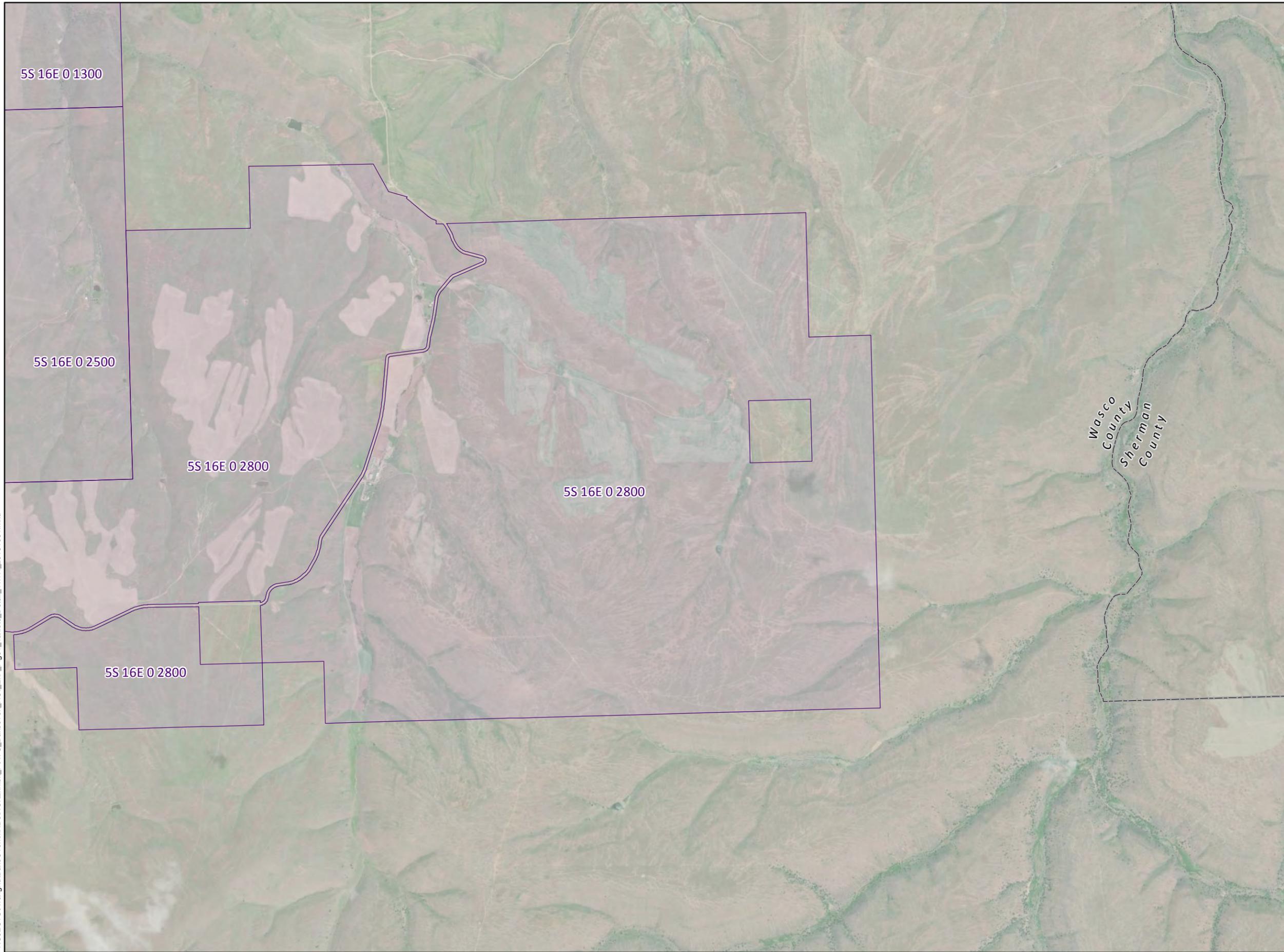
1:24,000 WGS 1984 UTM Zone 10N

Bakeoven Solar Project

Figure F-1.10 Taxlots

WASCO COUNTY, OREGON

-  Site Boundary
-  Taxlot Boundary
-  County Boundary



Wasco
County
Sherman
County



Data Sources

Reference Map

Avangrid-Project Infrastructure;
USDA-Aerial Imagery; ESRI-Roads,
Cities; Wasco County-Taxlots



1:24,000 WGS 1984 UTM Zone 10N

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ATTACHMENT 4. SPECIES LISTS

**Attachment 4. Special-Status Species with Potential to Occur within 5 miles of the Site
Boundary**

Common Name	Scientific Name	Federal Status ¹	State Status ^{2,3}
Birds			
Bald eagle	<i>Haliaeetus leucocephalus</i>	BCC, BGEPA	S
Brewer's sparrow	<i>Spizella breweri breweri</i>	BCC	S
Burrowing owl	<i>Athene cunicularia hypugaea</i>	SOC	SC
Clark's grebe	<i>Aechmophorus clarkia</i>	BCC	-
Common nighthawk	<i>Chordeiles minor</i>	-	S
Ferruginous hawk	<i>Buteo regalis</i>	BCC, SOC	SC
Golden eagle	<i>Aquila chrysaetos</i>	BCC, BGEPA	-
Grasshopper sparrow	<i>Ammodramus savannarum</i>	-	S
Green-tailed towhee	<i>Pipilo chlorurus</i>	BCC	-
Lesser yellowlegs	<i>Tringa flavipes</i>	BCC	
Lewis's woodpecker	<i>Melanerpes lewis</i>	BCC, SOC	SC
Loggerhead shrike	<i>Lanius ludovicianus</i>	BCC	S
Long-billed curlew	<i>Numenius americanus</i>	BCC	SC
Mountain quail	<i>Oreortyx pictus</i>	SOC	-
Northern goshawk	<i>Accipiter gentilis</i>	SOC	-
Olive-sided flycatcher	<i>Contopus cooperi</i>	BCC, SOC	-
Sage thrasher	<i>Oreoscoptes montanus</i>	BCC	-
Sagebrush sparrow	<i>Artemisiospiza nevadensis</i>	BCC	S
Swainson's hawk	<i>buteo swainsoni</i>	-	S
Tricolored blackbird	<i>Agelaius tricolor</i>	BCC, SOC	-
White-headed woodpecker	<i>Picoides albolarvatus</i>	BCC, SOC	-
William's sapsucker	<i>Sphyrapicus thyroideus</i>	BCC	-
Willow flycatcher	<i>Empidonax traillii adastus</i>	BCC, SOC	S
Yellow-breasted chat	<i>Icteria virens</i>	SOC	-
Fish			
Bull trout	<i>Salvelinus confluentus</i>	T	S
Chinook salmon	<i>Oncorhynchus tshawytscha</i>	T	S
Pacific lamprey	<i>Entosphenus tridentatus</i>	SOC	S
Steelhead trout	<i>Oncorhynchus mykiss</i>	T	SC
Western brook lamprey	<i>Lampetra richardsoni</i>	-	S

**Attachment 4. Special-Special Species with Potential to Occur within 5 miles of the Site
Boundary (continued)**

Common Name	Scientific Name	Federal Status ¹	State Status ^{2,3}
Mammals			
Canada lynx	<i>Lynx canadensis</i>	T	-
California myotis	<i>Myotis californicus</i>	-	S
Gray wolf	<i>Canis lupus</i>	E	-
Hoary bat	<i>Lasiurus cinereus</i>	SOC	S
Long-eared myotis	<i>Myotis evotis</i>	SOC	-
Long-legged myotis	<i>Myotis volans</i>	SOC	S
Pallid bat	<i>Antrozous pallidus</i>	SOC	S
Pygmy rabbit	<i>Brachylagus idahoensis</i>	SOC	SC
Silver-haired bat	<i>Lasionycteris noctivagans</i>	SOC	S
Townsend's big-eared bat	<i>Corynorhinus townsendii</i>	SOC	SC
Western small-footed myotis	<i>Myotis ciliolabrum</i>	SOC	-
Wolverine	<i>Gulo gulo</i>	PT	T
Yuma myotis	<i>Myotis yumanensis</i>	SOC	-
Reptiles			
Northern sagebrush lizard	<i>Sceloporus graciosus graciosus</i>	SOC	S
Western painted turtle	<i>Chrysemys picta bellii</i>	-	SC
Invertebrates			
Columbia pebblesnail	<i>Fluminicola fuscus</i>	SOC	-
Vascular Plants			
Tygh Valley milk-vetch	<i>Astragalus tyghensis</i>	-	T
Henderson's ricegrass	<i>Achnatherum hendersonii</i>	SOC	C
Hepatic monkeyflower	<i>Erythranthe jungermannioides</i>	-	C
Sessile mousetail	<i>Myosurus sessilis</i>	SOC	C
Dwarf suncup	<i>Eremothera (Camissonia) pygmaea</i>	SOC	C
Nonvascular Plants			
Woven-sporad lichen	<i>Texosporium sancti-jacobi</i>	SOC	-
<ol style="list-style-type: none"> 1. U.S. Fish and Wildlife Status: E = Endangered, T = Threatened, PT = Proposed Threatened, SOC = Species of Concern, BCC = Bird of Conservation Concern, BGEPA = Bald and Golden Eagle Protection Act 2. Wildlife: Oregon Department of Fish and Wildlife Status in the Columbia Plateau: T = Threatened, SC = Critical Sensitive Species, S = Sensitive Species, 3. Plants: Oregon Department of Agriculture Status: T = Threatened, C= Candidate 			

**ATTACHMENT 5. CORRESPONDENCE WITH LEGISLATIVE
COMMISSION ON INDIAN SERVICES**

From: [Quigley Karen M](#)
To: [Konkol, Carrie](#)
Cc: [Quigley Karen M](#); [Hutchinson, Matthew](#); [Walsh, Brian](#)
Subject: Re: Proposed Bakeoven Solar Project, Native American Cultural Resources
Date: Tuesday, October 23, 2018 10:48:13 AM

Hello Carrie,

Please contact the Confederated Tribes of Warm Springs thpo@ctwsbnr.org and CTWS NR Manager, robert.brunoe@ctwsbnr.org

And:
Burns Paiute Tribe
Culture & Heritage Director Diane Teeman
dlteeman.burns.paiute@gmail.com

Thank you,
Karen

*Karen Quigley, Executive Director
Legislative Commission on Indian Services.*

"Konkol, Carrie" <Carrie.Konkol@tetrattech.com> wrote:

Ms. Quigley –

On behalf of Avangrid Renewables, please find attached a letter request for tribal contacts with interest in the proposed Bakeoven Solar Project area in Wasco County, Oregon.

Thank you,
Carrie Konkol

Carrie Konkol | Senior Project Manager
Carrie.Konkol@tetrattech.com

Tetra Tech | Portland
1750 SW Harbor Way, Suite 400 | Portland, OR 97201
Direct: 503.721.7225 | Fax: 503.227.1287 | Cell: 503.830.8587

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Think Green - Not every email needs to be printed.



Matt Hutchinson
Permitting Manager

October 22, 2018

Karen Quigley, Executive Director
Oregon State Legislative Commission on Indian Services
900 Court St. NE, Room 167
Salem, OR 97301

Ms. Quigley,

Re: Proposed Bakeoven Solar Project, Native American Cultural Resources

Avangrid Renewables (Avangrid) is proposing to construct and operate a new large scale photovoltaic solar energy generating facility in Wasco County. This project will be subject to the jurisdiction of Oregon's Energy Facility Siting County; and as required by OAR 345-020-0011(1)(p), Avangrid seeks input from the State Commission on Indian Services to identify each appropriate Native American tribe to consult with regarding potential effects on Native American cultural resources.

The proposed project, known at the Bakeoven Solar Project, will be sited on entirely on private property within townships 4S/14E, 4S/15E, 4S/16E, 5S/15E, and 5S/16E (see attached map). No portion of the project is proposed for state- or federally-owned or managed lands.

As part of the Application for Site Certificate, Avangrid will conduct cultural resource file searches at the State Historic Preservation Office (SHPO) and field surveys within the project area. However, the applicable Native American tribes may have knowledge of cultural resources not recorded with SHPO. Therefore, I respectfully request your assistance in developing a list of Oregon tribes that could have an interest in this project. We would also appreciate the inclusion of any out-of-state tribal governments that the Commission believes may also have interest in the Project. An e-mail notification or hard copy letter would be acceptable for our files.

Thank you and please feel free to contact me regarding this request.

Sincerely,

A handwritten signature in blue ink that reads "Matt Hutchinson".

Matt Hutchinson
Permitting Manager

Avangrid Renewables
1125 NW Couch St, Suite 700
Telephone 503.478.6317
www.avangridrenewables.us, matthew.hutchinson@renewables.com

Bakeoven Solar Project

Figure G-1
Vicinity Map

WASCO COUNTY, OREGON

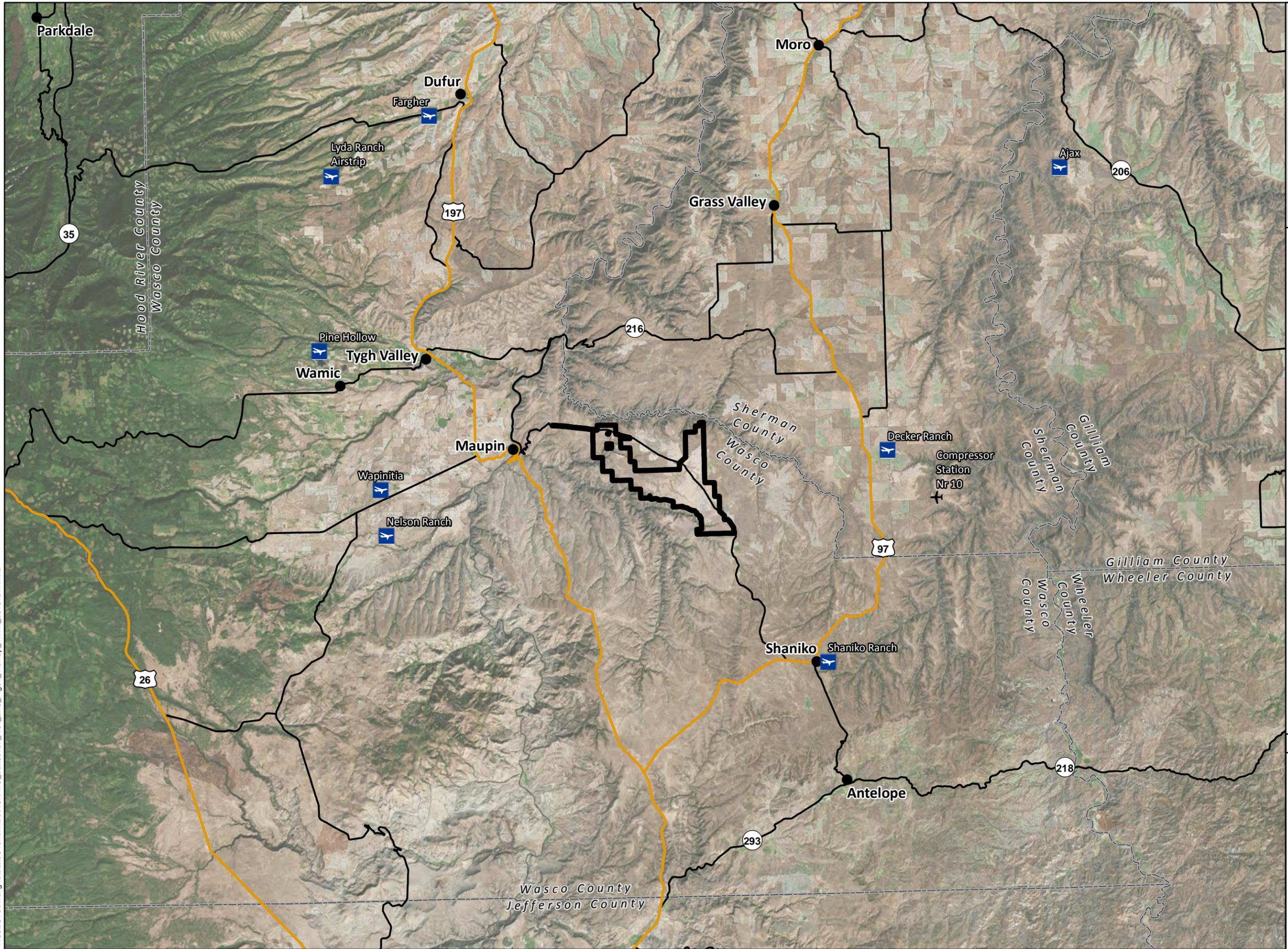
-  Site Boundary
-  County Boundary
-  Secondary Highway
-  Secondary Road
-  Airport
-  Stolport



Data Sources

Avangrid-Project Infrastructure;
USDA-Aerial Imagery; ESRI-Roads, Cities;
Ventyx-Airports

Reference Map



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