

Exhibit C

Project Location and Maps

**Wagon Trail Solar Project
December 2023**

Prepared for



Prepared by



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Acronyms and Abbreviations

Applicant	Wagon Trail Energy Center, LLC c/o NextEra Energy Resources, LLC
Facility	Wagon Trail Solar Project
kV	kilovolt
O&M	operations and maintenance
OAR	Oregon Administrative Rule

1.0 Introduction

Wagon Trail Energy Center, LLC c/o NextEra Energy Resources, LLC (Applicant) proposes to construct and operate the Wagon Trail Solar Project (Facility), a solar energy generation facility and related or supporting facilities in Morrow County, Oregon. This Exhibit C was prepared to meet the submittal requirements in Oregon Administrative Rule (OAR) 345-021-0010(1)(c).

The Facility will be a photovoltaic solar energy facility with an estimated nominal and average generating capacity¹ of 500 megawatts of alternating current. Other Facility components include a battery energy storage system, 230-kilvolt (kV) transmission lines, underground electrical collection lines, collector substations, site access roads, one operations and maintenance enclosure, and temporary construction areas. These facilities are all described in greater detail in Exhibit B.

2.0 General Location

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

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

The Facility is located south of Interstate 84, entirely in north-central Morrow County, near Lexington, Oregon as shown on the following maps:

- Figure C-1 is an overview map of the Facility, including county boundaries, nearby major roads, communities, and other recognizable features within approximately 20 miles of the Facility.
- Figure C-2 shows the Facility layout within the site boundary, including the locations of related or supporting facilities in relation to nearby cities and towns, county boundaries, existing public roads, and other geographic features. This proposed Facility layout represents the worst-case scenario in terms of potential impacts.
- Figure C-3 shows other energy generation facilities that are known to be permitted at the state or local level within 10 miles of the site boundary.

The Applicant is requesting approval to site a range of photovoltaic energy generation and associated supporting facility technology within a micrositing corridor that is equivalent to the site boundary.

¹ Based on Oregon Revised Statutes 469.300(4) definition of average generating capacity for all energy facilities besides wind and geothermal.

3.0 Location and Disturbance Areas

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

The site boundary includes approximately 7,450 acres of private land, encompassing all major Facility components and related or supporting facilities (see Exhibit B). The site boundary provides for flexibility for micro-siting the Facility and related and supporting facilities. The Applicant has negotiated long-term energy leases, as required, with the landowners. 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	Range	Sections
1N	25E	1, 11, 12, 13, 14, 22, 23, 24, 25, 26, 27, 28, 34, 35, 36
1N	26E	5, 6, 7, 8, 17, 18, 19, 30
2N	25E	25, 26, 27, 36

The 230-kV transmission line will extend approximately 0.6 mile from the southern collector substation to the existing Blue Ridge Substation, interconnecting the southern solar array areas, as shown on Figure C-2. Starting at the southern collector substation on the southern side of Strawberry East Road, the 230-kV transmission line corridor extends east across leased private land along Strawberry East Road to the Blue Ridge Substation on the northern side of the road. The northern substation (and in turn the northern solar array areas) will interconnect with the existing Umatilla Electric Cooperative/Columbia Basin Electric Cooperative 230-kV transmission line adjacent to the Facility, running north to south through the northern solar array areas.

Table C-2 provides a worst-case scenario for temporary and permanent acreage impacts from Facility components. Table C-2 presents the impact by disturbance type. However, some disturbance types overlap by the nature of their development. Therefore, the last row in the table provides the disturbance area for the Facility with any development overlap removed. For purposes of analysis, the Applicant considered a solar array that will occupy approximately 3,641 acres within 16 fenced areas within the site boundary, using the example solar technology described in Exhibit B. This entire area is considered permanently disturbed; all temporary disturbance areas are outside the fenced solar array. This layout represents the worst-case scenario for purposes of analyzing land use impacts (described in detail in Exhibit K).

Table C-2. Estimated Temporary and Permanent Disturbance

Disturbance Type	Temporary (Acres)	Permanent (Acres)
Solar Array Area ¹	-	3,640.7
Collector Lines (underground) ²	118.6	-
Battery Energy Storage System ³	-	35.0
Transmission Line (230 kV) ⁴	4.6	0.002
Permanent New Roads ⁵	150.3	43.4
Collector Substations ⁶	-	16.2
Construction Areas ⁷	40	-
Operations and Maintenance (O&M) Building ⁸	-	0.2
Perimeter Fence Line ⁹	34.0	Included in the solar array area, new O&M building, substation areas, and battery storage areas
Meteorological Stations ¹⁰	0.02	0.3
Total¹¹	167.5	3,684.9

Notes:

1. Approximately 16 solar array areas are proposed; The area within the fence line including all solar components (i.e., modules, inverters, transformers, tracking systems, posts, collector lines, and other associated equipment), as well as the following supporting facilities: the potential direct current battery storage system, interior access roads, met stations, and a portion of the constructions areas. Permanent impacts for each component are listed separately; however, the total eliminates any overlap of features within the fence line.
2. Temporary impact assumes a 50-foot temporary disturbance corridor and includes pulling/tensioning areas. Assumes a total of 67.9 miles of underground line, both within and outside the solar array fence line; however, temporary disturbance is only the portion outside the solar array fence line. No overhead collector lines are proposed.
3. The alternating current battery energy storage systems will be fenced separately from the solar array. The northern alternating current coupled 10-acre battery storage area will be located adjacent to the proposed northern substation; the southern alternating current coupled 25-acre battery storage area will be located adjacent to the proposed southern substation.
4. Overhead transmission line disturbance amounts include the support poles. Assumes a 50-foot temporary disturbance corridor plus pulling/tension areas, and 2-foot-diameter permanent disturbance from the poles (multiplied by 2 posts). Assumes approximately 850-foot spans between poles. Approximately 0.6 miles long total. Located outside the solar array fence line.
5. New access roads are assumed to be 12 feet in width inside the solar array fence line and 20 feet and outside the solar array fence line. Assumes 47 miles of new permanent roads, the majority of which are inside the solar array fence line.
6. The two collector substations are fenced separately from and outside the solar array fence line and include a surrounding gravel area and other associated components. The southern substation is approximately 5 acres and the northern substation is approximately 11.2 acres.
7. Temporary disturbance is calculated from the four construction areas (10 acres each) both inside and outside the solar array fence line; construction area disturbance inside the fence line is part of the permanent solar array area.
8. Assumes a new O&M building will be constructed. Assumes one O&M building (6,000 – 9,000 square feet, 0.2 acres) and includes parking, any adjacent storage, and surrounding graveled area (including an underground septic system) and is outside the solar array fence line.
9. This is the solar array area perimeters as well as the substations, O&M building, and battery storage perimeters, and assumes a 6-foot temporary disturbance corridor on the outer side of the fence multiplied by the linear footage of fence for temporary workspace to install the fence. The narrow footprint of the fence is considered part of the permanently disturbed solar array area, substation area, O&M building area, and battery storage area. Assumes an approximate total of 46.9 miles of fence.
10. Assumes a 30- by 30-foot temporary impact and 8- by 8-foot permanent impact around each permanent met station, four stations total. All stations are located inside the solar array fence line.
11. Totals eliminate any overlap of features (e.g., overlapping temporary workspace, disturbance types within the fence line).

As noted above, the Applicant requests micrositing flexibility within the site boundary to site the Facility and related and supporting facilities using the most efficient and effective equipment and layout possible at the time of final design. The site boundary provides the limits of the area that may be temporarily or permanently disturbed during construction of the facility. Because this analysis uses the largest anticipated footprint for the Facility, the final equipment and layout selected will not exceed the impacts analyzed. Resource surveys have been conducted for the site boundary where components of the solar arrays will be sited. See Exhibits J, P, Q, and S for details regarding wetland, biological, and cultural surveys. The solar arrays and supporting facilities will be microsited during the final design to avoid or minimize adverse impacts to resources to the extent practicable. Native habitat cover within the site boundary will be retained to the extent practicable.

4.0 Relation to Other Energy Generation Facilities

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

Figure C-3 shows the location of the Facility in relation to other energy generation facilities that are known to the Applicant to be permitted at the state or local level within 10 miles of the Facility site boundary. These include four wind projects, the recently operational Wheatridge Renewable Energy Facilities I and II and the approved Wheatridge Renewable Energy Facility East (all three of which overlap with the Facility site boundary), and the operating Echo Windfarm. Additionally, the under construction Wheatridge Renewable Energy Facility III solar project also overlaps with the Facility site boundary. A total of three in-service transmission lines and three proposed transmission lines are within 10 miles, with one in-service and two proposed transmission lines traversing the Facility site boundary. Lastly, the Boardman Coal Plant, Carty Generating Station (natural gas plat/solar), and Finley Butte Renewable Energy Facility are within 10 miles, the first two located approximately 9 miles northwest of the Facility site boundary and the third located approximately 4 miles northeast.

5.0 Submittal Requirements and Approval Standards

5.1 Submittal Requirements

Table C-3. Submittal Requirements Matrix

Requirement	Location
OAR 345-021-0010(1)(c) Information about the location of the proposed facility, including:	
(A) A map or maps showing the proposed locations of the energy facility site, all related or supporting facility sites and all areas that might be temporarily disturbed during construction of the facility in relation to major roads, water bodies, cities and towns, important landmarks and topographic features, using a scale of 1 inch = 2000 feet or smaller when necessary to show detail.	Section 2.0; Figures C-1, C-2
(B) A description of the location of the proposed energy facility site, the proposed site of each related or supporting facility and areas of temporary disturbance, including the total land area (in acres) within the proposed site boundary, the total area of permanent disturbance, and the total area of temporary disturbance. If a proposed pipeline or transmission line is to follow an existing road, pipeline or transmission line, the applicant shall state to which side of the existing road, pipeline or transmission line the proposed facility will run, to the extent this is known.	Section 3.0
(C) For energy generation facilities, a map showing the approximate locations of any other energy generation facilities that are known to the applicant to be permitted at the state or local level within the study area as defined in OAR 345-001-0010 for impacts to public services.	Section 4.0; Figure C-3

5.2 Approval Standards

OAR 345 Division 22 does not provide an approval standard specific to Exhibit C.

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Figures

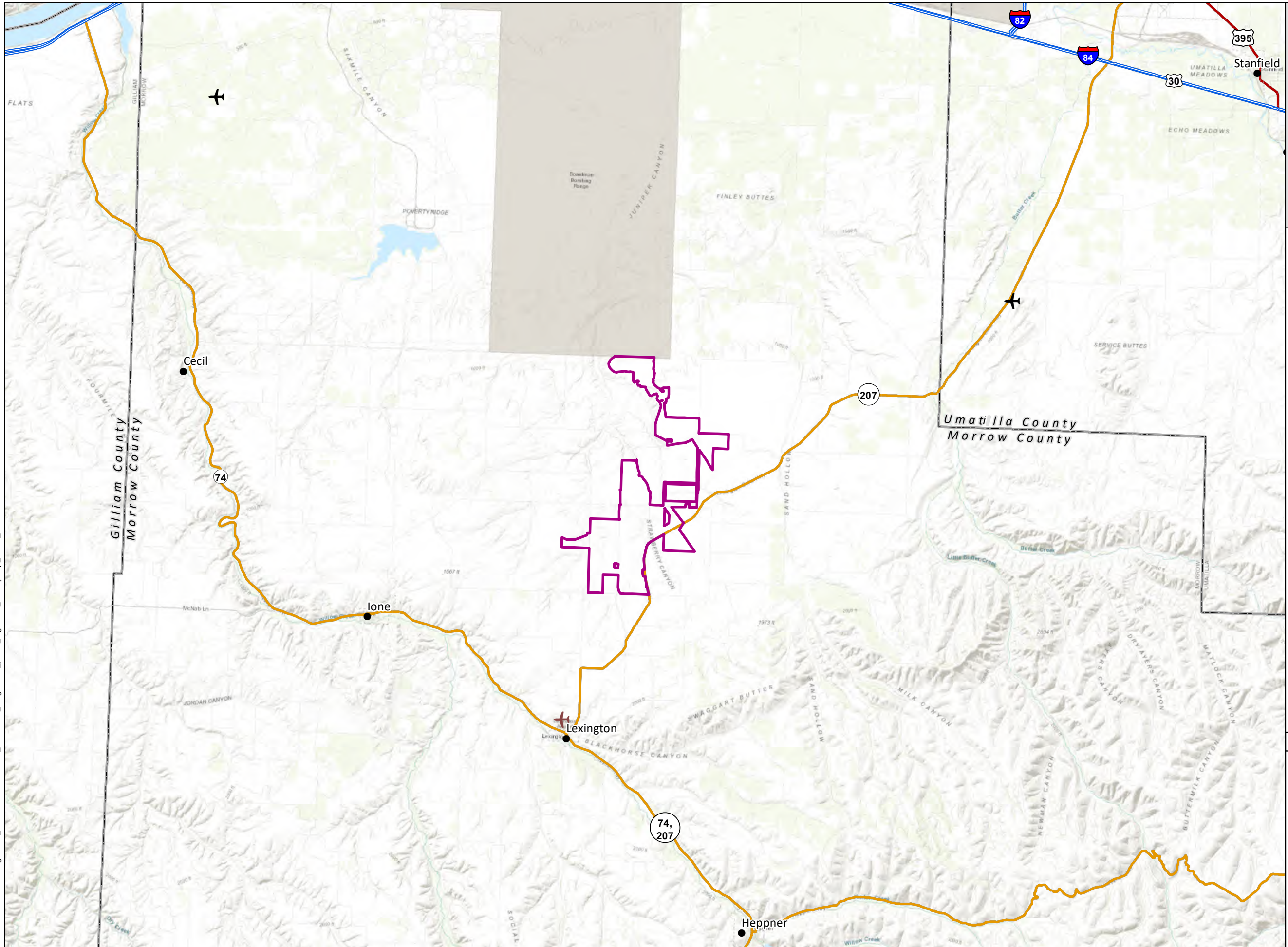
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Wagon Trail Solar Project

Figure C-1
Vicinity Map

MORROW COUNTY, OREGON

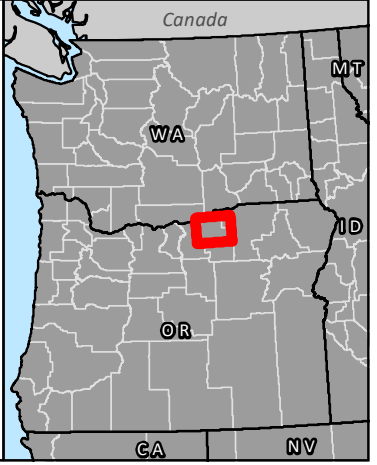
-  Site Boundary
-  City/Town
-  Interstate Highway
-  US Highway
-  State Highway
-  County Boundary
-  Airport, Private
-  Airport, Public



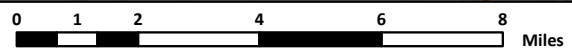
Data Sources

NextEra-Project Infrastructure;
USDA-Aerial Imagery; ESRI-
County Boundaries

Reference Map



1:200,000 WGS 1984 UTM Zone 11N


















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Wagon Trail Solar Project

Figure C-2 Facility Layout

MORROW COUNTY, OREGON

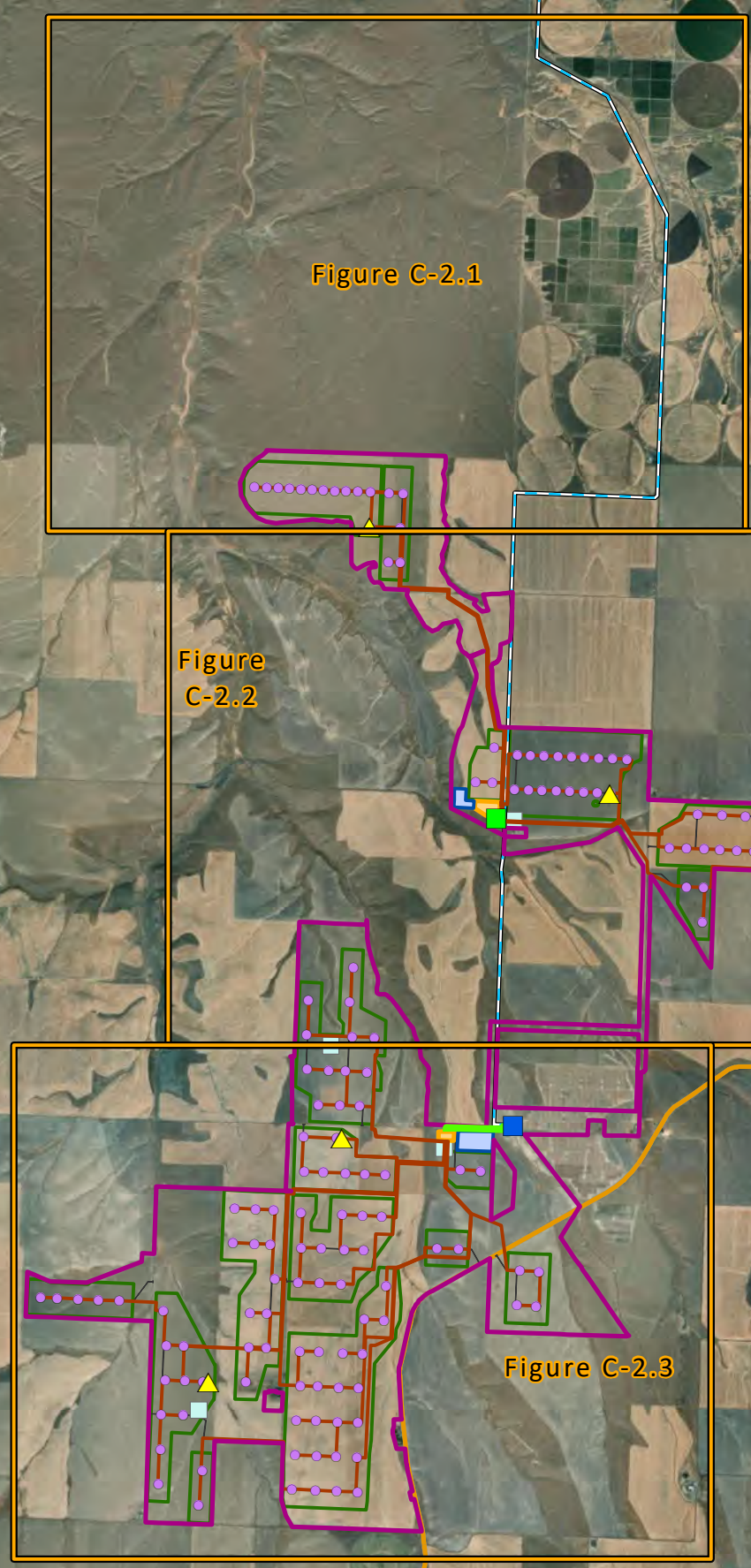
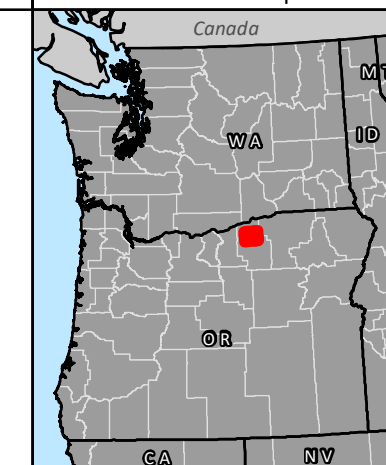
-  Map Grid
-  Site Boundary
-  MET Station
-  O&M Building
-  Blue Ridge Substation
-  Inverter Location
-  Overhead Gen Tie Line (Estimate)
-  Transmission Line (Existing)
-  Underground Collection Line
-  Fenceline
-  Temporary Laydown Area
-  AC BESS Area
-  Project Substation
-  Access Road
-  State Highway



Data Sources

Reference Map

NextEra-Project Infrastructure;
USDA-Aerial Imagery; ESRI-
County Boundaries



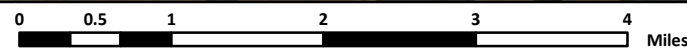
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1 inch equals 6,667 feet

WGS 1984 UTM Zone 11N



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Wagon Trail Solar Project

Figure C-2.1 Facility Layout

MORROW COUNTY, OREGON

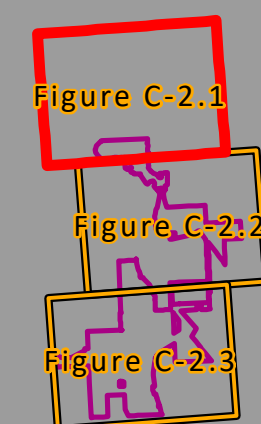
- Site Boundary
- MET Station
- O&M Building
- Inverter Location
- Overhead Gen Tie Line (Estimate)
- Transmission Line (Existing)
- Underground Collection Line
- Fenceline
- Temporary Laydown Area
- AC BESS Area
- Project Substation
- Access Road
- State Highway
- Local Road
- Road Right of Way
- Arterial Road
- Collector Road



Data Sources

Reference Map

NextEra-Project Infrastructure;
USDA-Aerial Imagery; ESRI-
County Boundaries



Wall Spring Rd

Bainbridge Rd

Lindsay Feedlot Ln

Grieb-Wood Rd

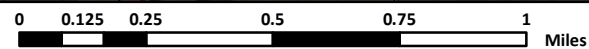
Alpine Ln



1:24,000

1 inch equals 2,000 feet

WGS 1984 UTM Zone 11N



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Wagon Trail Solar Project

Figure C-2.2 Facility Layout

MORROW COUNTY, OREGON

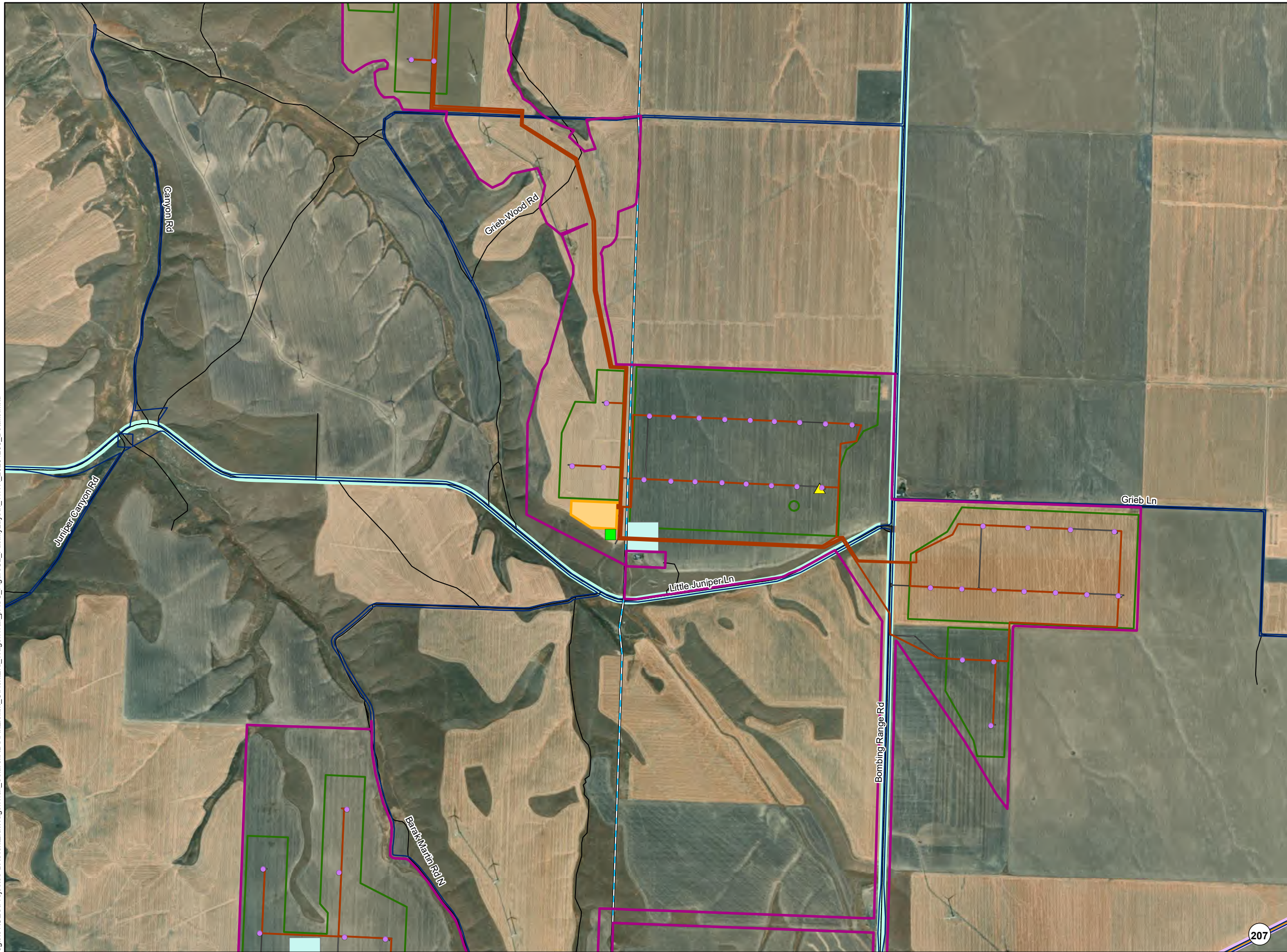
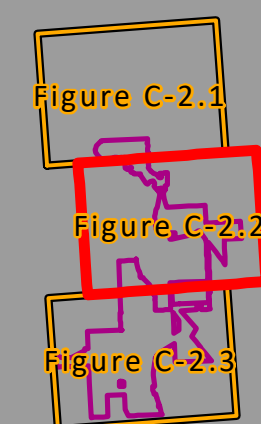
- Site Boundary
- ▲ MET Station
- O&M Building
- Inverter Location
- Overhead Gen Tie Line (Estimate)
- Transmission Line (Existing)
- Underground Collection Line
- Fenceline
- Temporary Laydown Area
- AC BESS Area
- Project Substation
- Access Road
- State Highway
- Local Road
- Road Right of Way
- Arterial Road
- Collector Road



Data Sources

Reference Map

NextEra-Project Infrastructure;
USDA-Aerial Imagery; ESRI-
County Boundaries




















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Wagon Trail Solar Project

Figure C-2.3 Facility Layout

MORROW COUNTY, OREGON

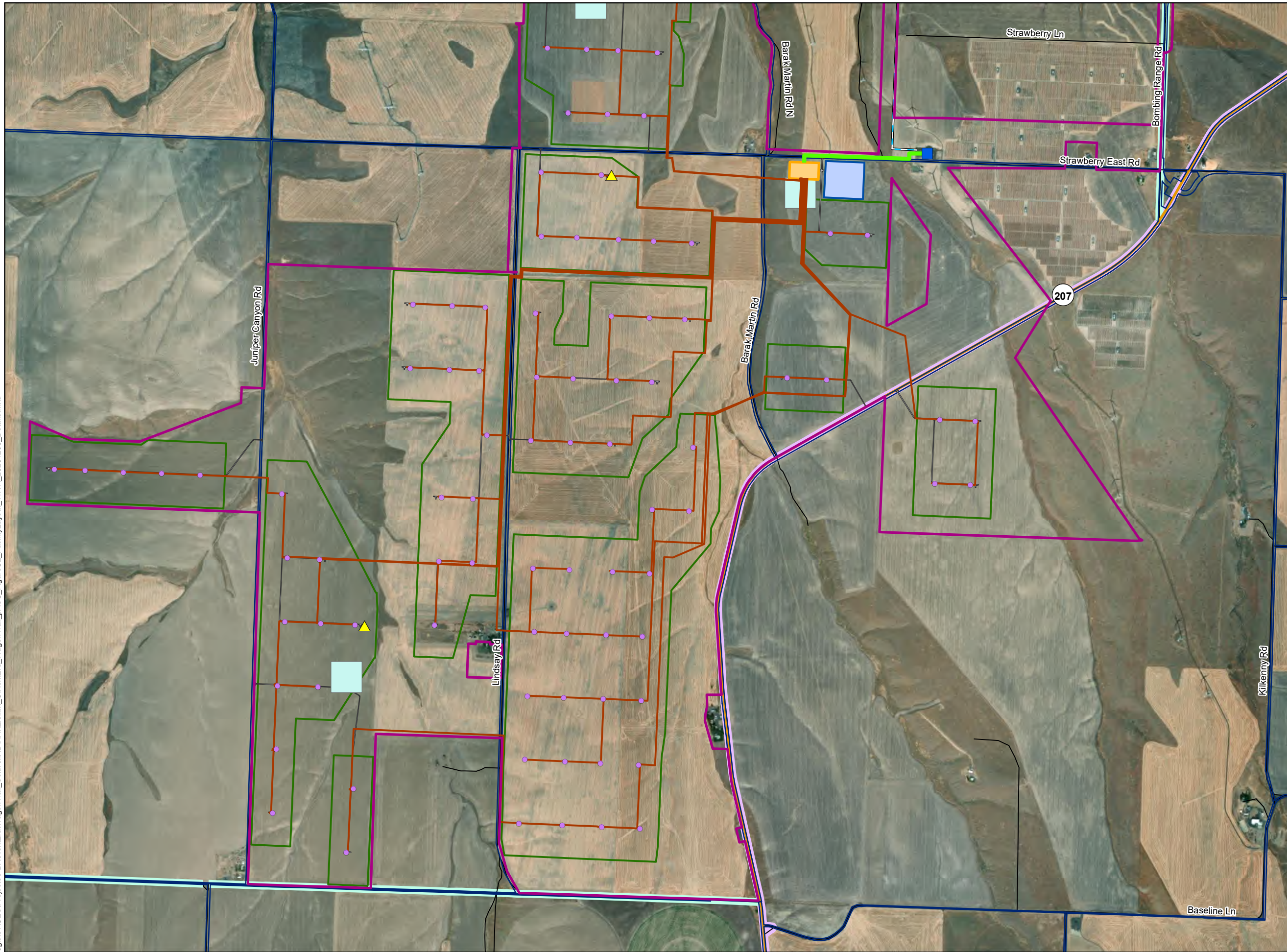
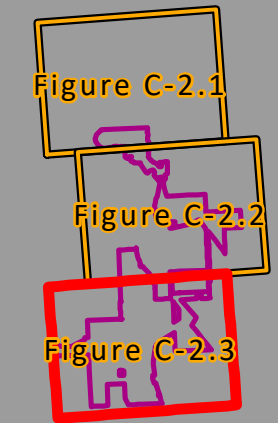
-  Site Boundary
-  MET Station
-  O&M Building
-  Blue Ridge Substation
- Inverter Location
-  Overhead Gen Tie Line (Estimate)
-  Transmission Line (Existing)
-  Underground Collection Line
-  Fenceline
-  Temporary Laydown Area
-  AC BESS Area
-  Project Substation
-  Access Road
-  State Highway
-  Local Road
-  Road Right of Way
-  Arterial Road
-  Collector Road



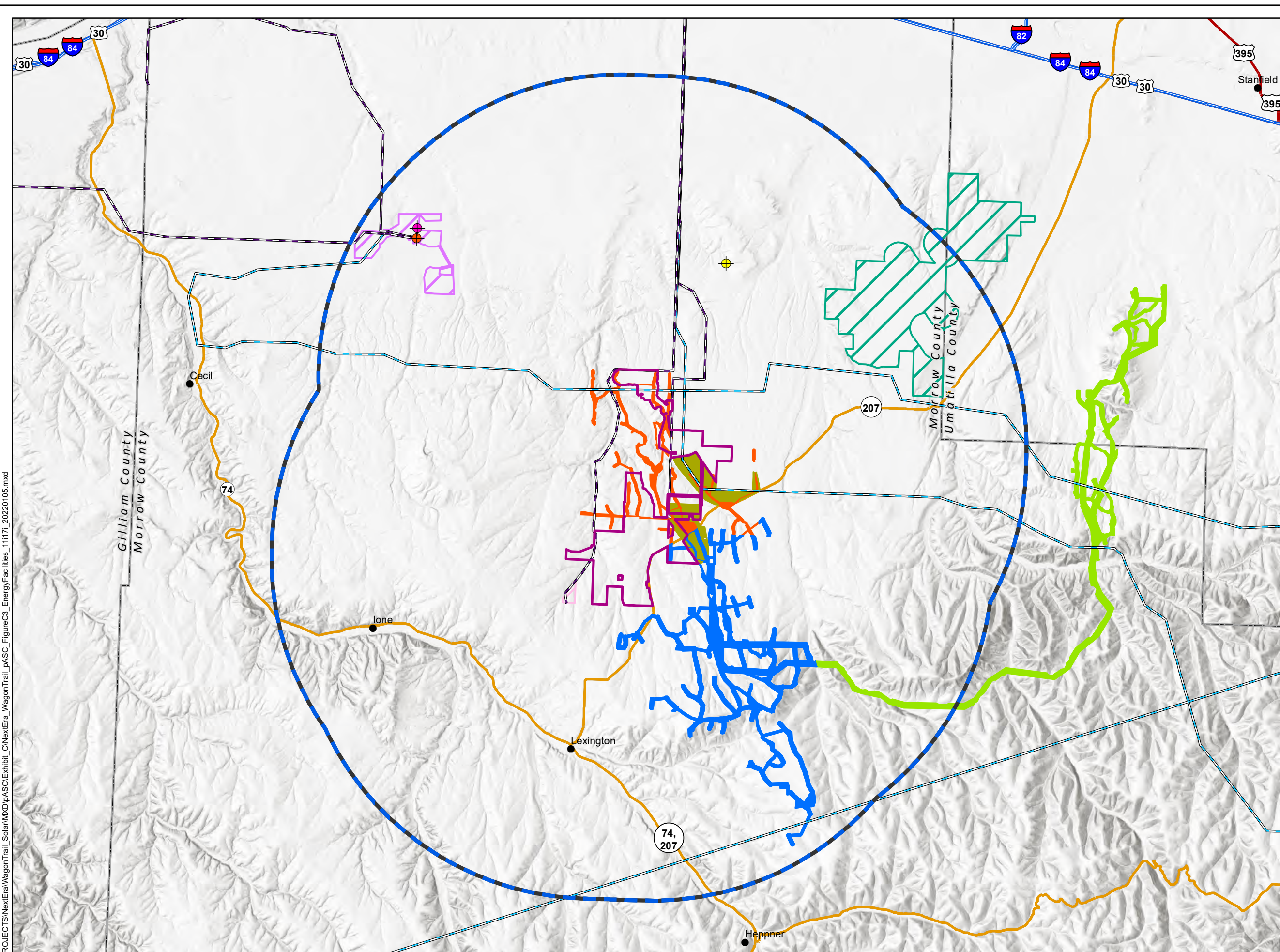
Data Sources

NextEra-Project Infrastructure;
USDA-Aerial Imagery; ESRI-
County Boundaries

Reference Map



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Wagon Trail Solar Project

**Figure C-3
Energy Facilities
within 10 Miles**

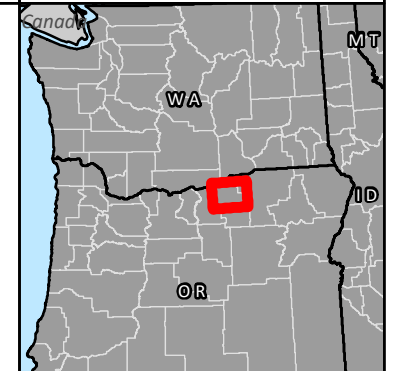
MORROW COUNTY, OREGON

- Site Boundary
- Analysis Area (10-mile Buffer)
- Energy Facility**
- Boardman Coal Plant (closed)
- Natural Gas, Carty Generating Station
- Finley Butte Renewable Energy Facility
- Carty Generating Station, Solar and Natural Gas, Operating
- Echo Windfarm, Operating
- Harp Solar Project, Proposed
- Wheatridge Renewable Energy Facility III Site Boundary (WREFIII), In Construction
- Wheatridge Renewable Energy Facility II (WREFII), Operating
- Wheatridge Renewable Energy Facility East Site Boundary (WREF East)
- Wheatridge Renewable Energy Facility I Site Boundary (WREFI), Operating
- Transmission Line, In Service
- Transmission Line, Proposed
- Interstate Highway
- US Highway
- State Highway
- City/Town
- County Boundary

Data Sources

NextEra-Project Infrastructure;
USDA-Aerial Imagery; ESRI-
County Boundaries

Reference Map



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