

## Chisago Facility (Chisago County) – 7.5 MW

cover within the preliminary development area is primarily agricultural vegetation (approximately 74%) with smaller portions of the preliminary development area characterized as cool temperate forest (approximately 17%), developed/ urban (approximately 6%), recently disturbed/ modified (approximately 2%), flooded and swamp forest (approximately 1%) and boreal forest (<1%)<sup>2</sup>.

**Wetlands and Waterbodies:** There are no rivers, streams or lakes within the boundaries of the proposed facility. There are 1.1 acres of mapped National Wetland Inventory-mapped wetlands within the preliminary development area. Field delineations are occurring in summer 2014 and the final design will avoid and minimize impacts to the extent practicable.



- Residence Location
- Proposed Inverter
- Proposed Arrays
- Proposed Road
- Proposed Grading Area
- Preliminary Development Area
- Facility Land Control





## **Chisago Facility (Chisago County) – 7.5 MW**

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### **Facility Overview**

**Facility Capacity:** 7.5 megawatts (MW) – alternating current

**Facility Area:** 62 acres (facility land control); 61 acres (preliminary development area). Final acreage to be determined at final design depending on site conditions, engineering studies, environmental surveys, and interconnection details.

**Facility Location:** Chisago County, Lent Township, Section 12, T 34N, R 21W; southwest of the intersection of Lincoln Road (County Road 14) and Kost Trail (County Road 11).

**Facility Design:** Primary components include photovoltaic (PV) modules mounted on a linear axis tracking system mounted on piers and a centralized inverter(s). Balance of plant components include electrical cables, conduit, electrical cabinets, step-up transformers and metering equipment. The solar facility will contain internal access roads and the perimeter will be fenced.

### **Human Environment**

**Land Use and Zoning:** The facility is located in a rural area with scattered residences where the land use is dominated by cultivated agriculture. The facility is not located within an orderly annexation area. The area is zoned Agricultural District. The nearest residence is located approximately 179 feet south of the preliminary development area.

Construction of the Project will require temporary conversion of agricultural land to a PV solar energy facility. The land on which the Project facilities are located may revert to cultivation or other agricultural production after the useful life of the Project and decommissioning. Aurora does not have the authority to exercise the power of eminent domain to acquire the land necessary for the Project. The owners of the land on which Project facilities are located will be compensated by Aurora through the negotiated purchase or lease of the land.

**Recreational Resources:** The Carlos Avery Wildlife Management Area and a snowmobile trail are located within one mile of facility; there are no other recreational trails, county, state or local parks located within one-half mile.

### **Natural Environment**

**Environmental Setting/Land Cover:** The facility is located within the Minnesota and Northeastern Iowa Morainal Section of the Eastern Broadleaf Province<sup>1</sup>. Land

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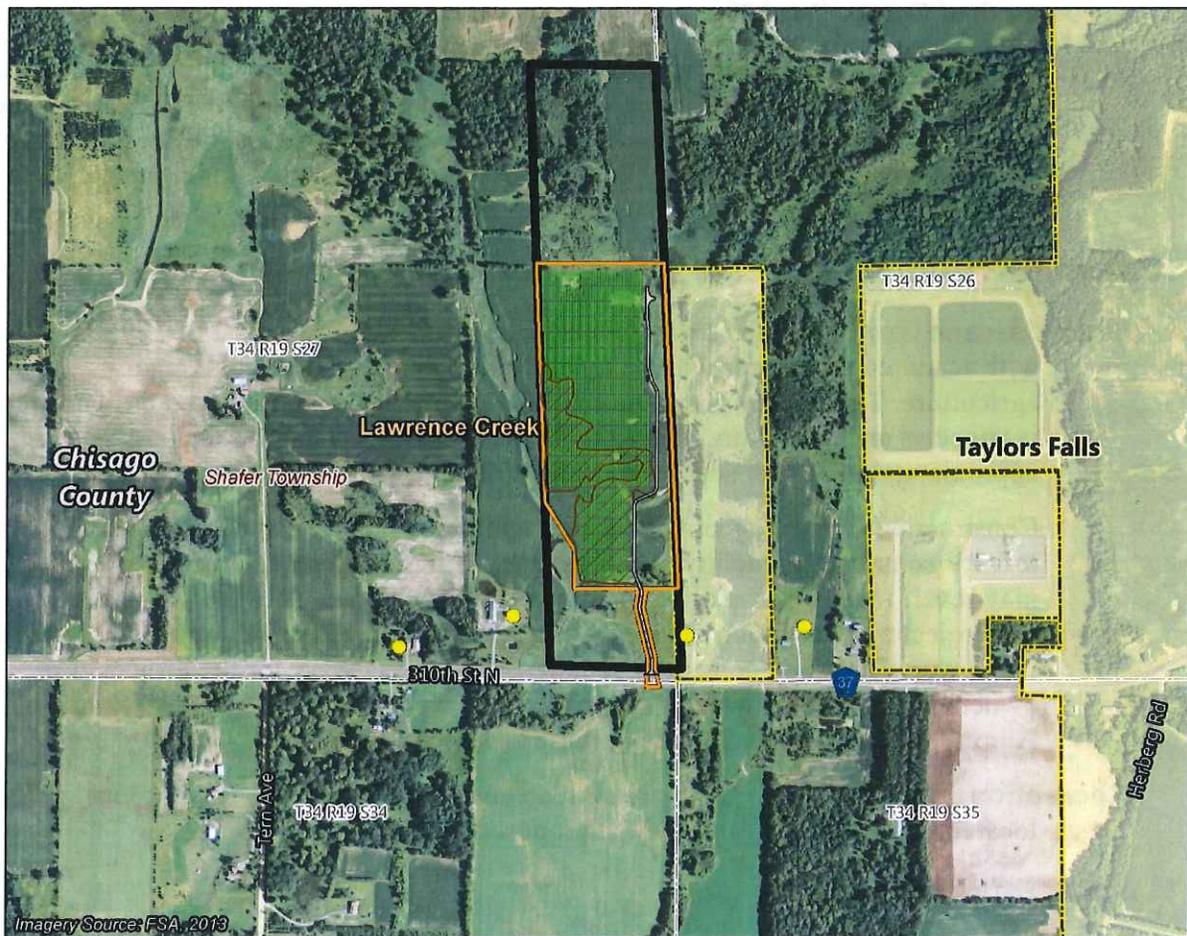
<sup>1</sup> Minnesota Department of Natural Resources (DNR) Ecological Classification System (ECS)

<sup>2</sup> U.S. Geological Survey National Gap Analysis Program Land Cover Data

## Lawrence Creek Facility (Chisago County) – 4.0 MW

temperate forest, developed/urban and flooded/swamp forest representing less than 1% each of the preliminary development area<sup>2</sup>.

**Wetlands and Waterbodies:** There are no rivers, streams or lakes within the boundaries of the proposed facility. There are 4.0 acres of mapped National Wetland Inventory-mapped wetlands within the preliminary development area. Field delineations are occurring in summer 2014 and the final design will avoid and minimize impacts to the extent practicable.



- Residence Location
- Proposed Inverter
- Proposed Arrays
- Proposed Road
- Proposed Grading Area
- Preliminary Development Area
- Facility Land Control
- Municipal Boundary





## Lawrence Creek Facility (Chisago County) – 4.0 MW

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### Facility Overview

**Facility Capacity:** 4.0 megawatts (MW) – alternating current

**Facility Area:** 74.3 acres (facility land control); 39.4 acres (preliminary development area). Final acreage to be determined at final design depending on site conditions, engineering studies, environmental surveys, and interconnection details.

**Facility Location:** Chisago County, Shafer Township, Section 27, T 34N, R 19W; north of County Road 37.

**Facility Design:** Primary components include photovoltaic (PV) modules mounted on a linear axis tracking system mounted on piers and a centralized inverter(s). Balance of plant components include electrical cables, conduit, electrical cabinets, step-up transformers and metering equipment. The solar facility will contain internal access roads and the perimeter will be fenced.

### Human Environment

**Land Use and Zoning:** The facility is located in a rural area just west of Taylors Falls with scattered residences where the land use is dominated by cultivated agriculture. The facility is not located within an orderly annexation area. The area is zoned as an Agricultural District. The nearest residence is located approximately 233 feet southeast of the preliminary development area.

Construction of the Project will require temporary conversion of agricultural land to a PV solar energy facility. The land on which the Project facilities are located may revert to cultivation or other agricultural production after the useful life of the Project and decommissioning. Aurora does not have the authority to exercise the power of eminent domain to acquire the land necessary for the Project. The owners of the land on which Project facilities are located will be compensated by Aurora through the negotiated purchase or lease of the land.

**Recreational Resources:** There are no recreational trails, county, state or local parks located within one-half mile of the proposed facility.

### Natural Environment

**Environmental Setting/Land Cover:** The facility is located within the Western Superior Uplands Section of the Laurentian Mixed Forest Province<sup>1</sup>. Land cover within the preliminary development area is primarily agricultural vegetation (approximately 96%) with a smaller portion of the preliminary development area characterized as recently disturbed/modified (approximately 2%), with cool

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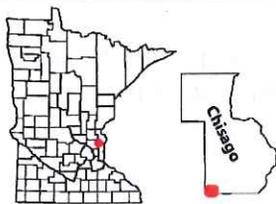
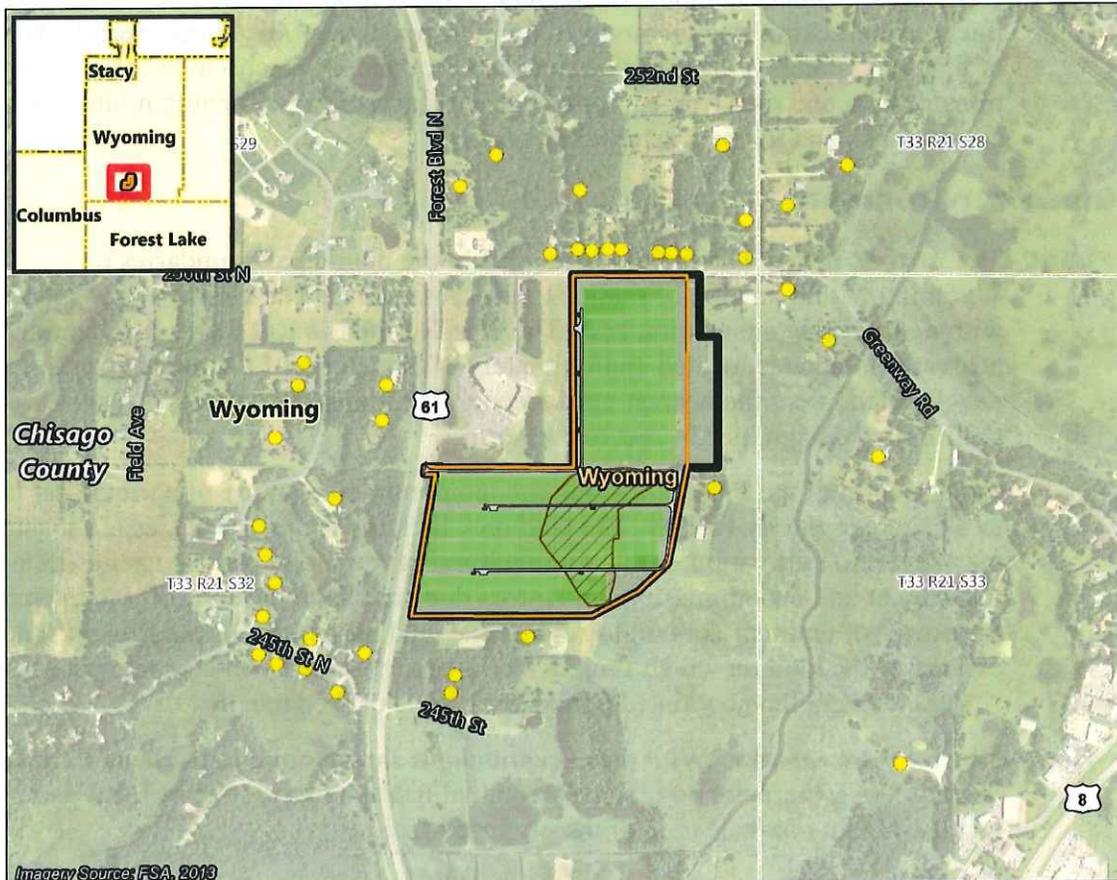
<sup>1</sup> Minnesota Department of Natural Resources (DNR) Ecological Classification System (ECS)

<sup>2</sup> U.S. Geological Survey National Gap Analysis Program Land Cover Data

## Wyoming Facility (Chisago County) – 7.0 MW

vegetation (agricultural 85%) with smaller portions of the preliminary development area characterized as developed/urban (approximately 14%), and recently disturbed/modified and cool temperate forest each representing less than 1%<sup>2</sup>.

**Wetlands and Waterbodies:** There are no rivers, streams or lakes within the boundaries of the proposed facility. There are 4.5 acres of mapped National Wetland Inventory-mapped wetlands within the preliminary development area. Field delineations are occurring in summer 2014 and the final design will avoid and minimize impacts to the extent practicable.



- Residence Location
- Proposed Inverter
- Proposed Arrays
- Proposed Road
- Proposed Grading Area
- Preliminary Development Area
- Facility Land Control
- Municipal Boundary





## Wyoming Facility (Chisago County) – 7.0 MW

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### Facility Overview

**Facility Capacity:** 7.0 megawatts (MW) – alternating current

**Facility Area:** 67 acres (facility land control); 62 acres (preliminary development area). Final acreage to be determined at final design depending on site conditions, engineering studies, environmental surveys, and interconnection details.

**Facility Location:** Wyoming, Chisago County, Section 32, T 33N, R 21W; southeast of the intersection of 250<sup>th</sup> Street North and Highway 61.

**Facility Design:** Primary components include photovoltaic (PV) modules mounted on a linear axis tracking system mounted on piers and a centralized inverter(s). Balance of plant components include electrical cables, conduit, electrical cabinets, step-up transformers and metering equipment. The solar facility will contain internal access roads and the perimeter will be fenced.

### Human Environment

**Land Use and Zoning:** The facility is located in the municipal boundaries of Wyoming within an area of scattered rural residences. The facility is not located within an orderly annexation area. The area is zoned as R-2 Rural Residential. The nearest residence is located approximately 87 feet north of the preliminary development area; the nearest residence to the proposed solar arrays, per preliminary design, is 234 feet to the north.

Construction of the Project will require temporary conversion of agricultural land to a PV solar energy facility. The land on which the Project facilities are located may revert to cultivation or other agricultural production after the useful life of the Project and decommissioning. Aurora does not have the authority to exercise the power of eminent domain to acquire the land necessary for the Project. The owners of the land on which Project facilities are located will be compensated by Aurora through the negotiated purchase or lease of the land.

**Recreational Resources:** With the exception of a snowmobile trail, Banta Park and Sunrise Trail, there are no other recreational trails, county, state or local parks located within one-half mile of the proposed facility.

### Natural Environment

**Environmental Setting/Land Cover:** The facility is located within the Minnesota and Northeastern Iowa Morainal Section of the Eastern Broadleaf Province<sup>1</sup>. Land cover within the preliminary development area is primarily agricultural

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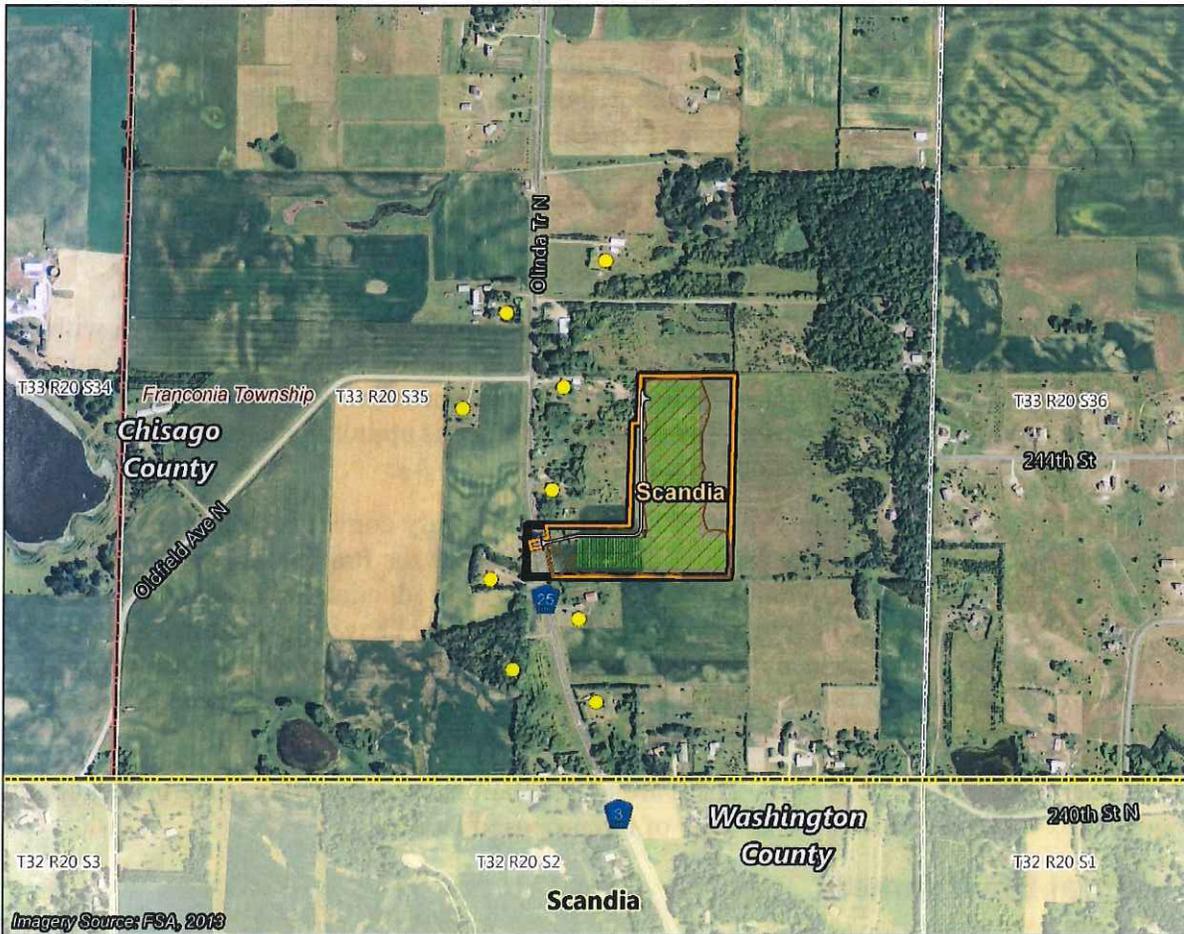
<sup>1</sup> Minnesota Department of Natural Resources (DNR) Ecological Classification System (ECS)

<sup>2</sup> U.S. Geological Survey National Gap Analysis Program Land Cover Data

## Scandia Facility (Chisago County) – 2.5 MW

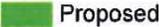
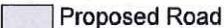
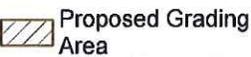
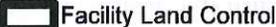
development area characterized as developed/urban (approximately 3%), recently disturbed/modified (approximately 3%), and cool temperate forest (<1%)<sup>2</sup>.

**Wetlands and Waterbodies:** There are no rivers, streams or lakes within the boundaries of the proposed facility. There are 0 acres of mapped National Wetland Inventory-mapped wetlands within the preliminary development area. Field delineations are occurring in summer 2014 and the final design will avoid and minimize impacts to the extent practicable.



Imagery Source: FSA, 2013



-  Residence Location
-  Proposed Inverter
-  Proposed
-  Proposed Road
-  Proposed Grading Area
-  Preliminary Development Area
-  Facility Land Control
-  Municipal Boundary





## Scandia Facility (Chisago County) – 2.5 MW

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### Facility Overview

**Facility Capacity:** 2.5 megawatts (MW) – alternating current

**Facility Area:** 24.4 acres (facility land control); 23.3 acres (preliminary development area). Final acreage to be determined at final design depending on site conditions, engineering studies, environmental surveys, and interconnection details.

**Facility Location:** Chisago County, Franconia Township, Section 35, T 33N, R 20W; southeast of the intersection of Oldfield Avenue North and County Road 25.

**Facility Design:** Primary components include photovoltaic (PV) modules mounted on a linear axis tracking system mounted on piers and a centralized inverter(s). Balance of plant components include electrical cables, conduit, electrical cabinets, step-up transformers and metering equipment. The solar facility will contain internal access roads and the perimeter will be fenced.

### Human Environment

**Land Use and Zoning:** The facility is located north of Scandia in a rural area with scattered residences where the land use is dominated by cultivated agriculture. The facility is not located within an orderly annexation area. The area is zoned as an Agricultural District. The nearest residence is approximately 232 feet north of the preliminary development area.

Construction of the Project will require temporary conversion of agricultural land to a PV solar energy facility. The land on which the Project facilities are located may revert to cultivation or other agricultural production after the useful life of the Project and decommissioning. Aurora does not have the authority to exercise the power of eminent domain to acquire the land necessary for the Project. The owners of the land on which Project facilities are located will be compensated by Aurora through the negotiated purchase or lease of the land.

**Recreational Resources:** There are no recreational trails, county, state or local parks located within one-half mile of the proposed facility.

### Natural Environment

**Environmental Setting/Land Cover:** The facility is located within the Minnesota and Northeastern Iowa Morainal Section of the Eastern Broadleaf Province<sup>1</sup>. Land cover within the preliminary development area is almost entirely agricultural vegetation (approximately 93%) with a very small portion of the preliminary

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<sup>1</sup> Minnesota Department of Natural Resources (DNR) Ecological Classification System (ECS)

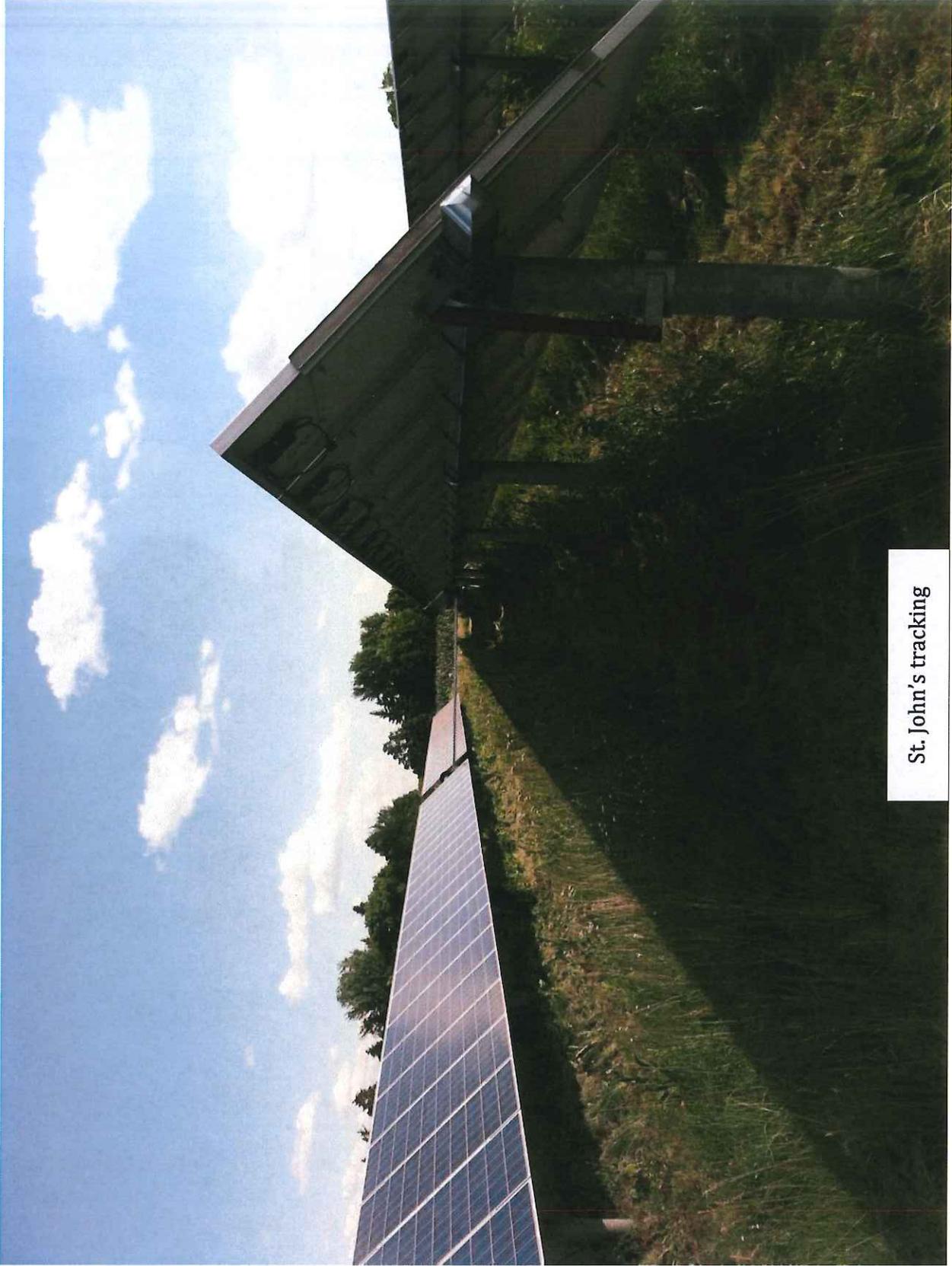
<sup>2</sup> U.S. Geological Survey National Gap Analysis Program Land Cover Data



Tracking



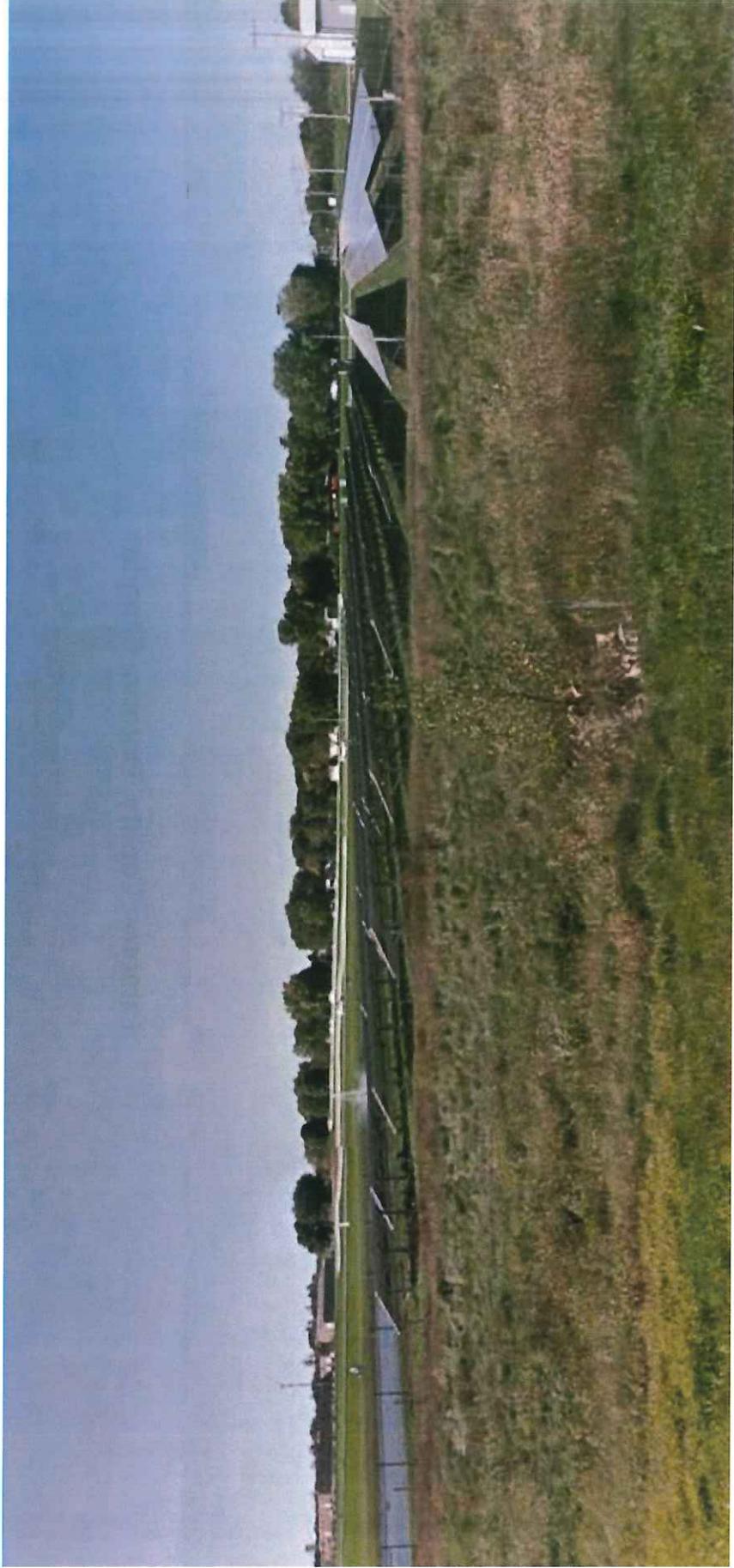
St. John's aerial



St. John's tracking



St. John's tracking



Oronoco, MN Solar Farm



Lambton County, Ontario, Canada