

**Section 63.116. Exterior lighting.**

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(d) Hybrid (wind/solar) light fixtures will be placed so as to minimize flicker impacts and shall not exceed 25 feet in height. They shall be set back from other principal structures by at least one (1) times the height of the fixture.

**Sec. 65.322. Solar energy generation facility, community.**

A solar electric (photovoltaic) facility that provides electric power for off-site uses on the distribution grid, consistent with Minn. Statutes 216B.1641.

Standards and conditions:

- (a) An interconnection agreement must be completed with the electric utility in whose service territory the system is located.
- (b) Power and communication lines running between banks of solar panels and to nearby electric substations or interconnections with buildings shall be buried underground.
- (c) Community solar energy generation facilities shall be subject to height and setback standards that apply to buildings in the district, provided that in residential districts the height standards for accessory solar energy systems in section 65.921 shall apply.
- (d) A ground-mount (freestanding) community solar energy generation facility shall require a conditional use permit, the application for which shall include a site plan including landscaping and elevations.
- (e) For a facility within five hundred (500) feet of an airport or within the A or B safety zones of an airport, the applicant must complete and provide the results of the Solar Glare Hazard Analysis Tool for the Airport Traffic Control Tower cab and final approach paths, consistent with the Interim Policy, FAA Review of Solar Energy Projects on Federally Obligated Airports, or most recent version adopted by the FAA.
- (f) A decommissioning plan shall be required to ensure that facilities are properly removed after their useful life. The plan shall include provisions for removal of all structures and foundations, restoration of soil and vegetation, and ensuring financial resources will be available to fully decommission the facility. Decommissioning of solar panels must occur in the event they are not in use for one (1) year.

**Sec. 65.323. 65.322. Utility or public service building.**

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**Sec. 65.925. Wind energy conversion system.**

Any device such as a windmill or wind turbine that converts wind energy to electrical energy, and associated facilities including the support structure of the system.

Standards and conditions:

- (a) A building-mounted wind energy conversion system shall be subject to the maximum building height specified for the district or a maximum of fifteen (15) feet above the

height of the building to which it is attached, whichever is greater. In residential districts the system shall be set back a minimum of ten (10) feet from all exterior walls of the building to which it is attached.

- (b) In residential, traditional neighborhood and business districts, a conditional use permit is required for a freestanding wind energy conversion system with a capacity of more than two (2) kilowatts.
- (c) In residential, traditional neighborhood and business districts, a freestanding wind energy conversion system with a capacity of more than two (2) kilowatts shall be subject to the following standards and conditions:

  - (1) Freestanding systems shall not exceed one hundred twenty-five (125) feet in height.
  - (2) The system shall not be located in a required front or side yard and shall be set back one and one tenth (1.1) times the height of the system from residential buildings.
  - (3) In residential and traditional neighborhood districts, the system shall be on institutional use property at least one (1) acre in area. In business districts, the zoning lot on which the system is located shall be in an area of contiguous business or industrial zoning at least five (5) acres in area. A maximum of one (1) wind energy conversion system per acre of lot area shall be allowed.
- (d) In industrial districts, a freestanding wind energy conversion system shall not exceed one hundred fifty (150) feet in height, shall not be located in a required front or side yard, and shall be set back one and one tenth (1.1) times the height of the system from residential buildings.
- (e) Wind energy conversion systems shall conform to the uniform building code, electric code, Minnesota Rules Section 7030 governing noise, and Chapter 293, Noise Regulations. System noise shall not exceed 50 dB(A) at the nearest residential property line. For property within a locally designated heritage preservation site or district, the system shall be subject to review and approval of the heritage preservation commission.
- (f) Freestanding systems shall be mounted on a monopole type tower with a non-reflective, subdued finish that does not require guyed wires or any other means to support the tower.
- (g) Blade arcs created by a freestanding wind energy conversion system shall have a minimum of thirty (30) feet of clearance over any building or tree within a two hundred (200) foot radius.
- (h) Wind energy facilities shall be sited in a manner that minimizes shadowing or flicker impacts. The applicant has the burden of proving that this effect does not have significant adverse impact on adjacent uses.
- (i) Electrical equipment shall be housed within an existing building whenever possible. If a new equipment building is necessary, it shall be permitted and regulated as an accessory building.
- (j) A decommissioning plan shall be required to ensure that facilities are properly removed after their useful life. The plan shall include provisions for removal of all structures and foundations, and ensuring financial resources will be available to fully

decommission the facility. Decommissioning of wind energy conversion systems must occur in the event they are not in use for one (1) year.

(k) An applicant for a building permit for a wind energy conversion system shall provide written certification to the building official from a licensed structural engineer that:

(1) For building-mounted systems, the structure has the structural integrity to carry the weight and wind loads; and

(2) The system is designed not to cause electrical, radio frequency, television and other communication signal interference.

(l) If the applicant plans to connect the system to the electricity grid, written evidence that the electric utility service provider serving the property has been informed of the applicant's intent to install a wind energy conversion system shall also be submitted to the building official.

**Sec. 66.221. Principal uses.**

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Table 66.221. Principal Uses in Residential Districts

Use	RL	R1-R4	RT1	RT2	RM1	RM2	RM3	Definition (d) Standards (s)
<b>Public Services and Utilities</b>								
Antenna, cellular telephone	P/C	P/C	P/C	P/C	P/C	P/C	P/C	(d), (s)
Municipal building or use	P	P	P	P	P	P	P	(d), (s)
<u>Solar energy generation facility, community</u>	<u>P/C</u>	<u>P/C</u>	<u>P/C</u>	<u>P/C</u>	<u>P/C</u>	<u>P/C</u>	<u>P/C</u>	<u>(d), (s)</u>
Utility or public service building	C	C	C	C	C	C	C	(d), (s)
Yard waste site, municipal	C	C	C	C	C	C	C	(d), (s)

P – Permitted use            C – Conditional use requiring a conditional use permit

Notes to table 66.221, principal uses in residential districts:

(d) Definition for the use in Chapter 65, Land Use Definitions and Development Standards.

(s) Standards and conditions for the use in Chapter 65, Land Use Definitions and Development Standards.

**Sec. 66.321. Principal uses.**

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Table 66.321. Principal Uses in Traditional Neighborhood Districts

Use	T1	T2	T3	T4	Definition (d) Standards (s)
<b>Public Services and Utilities</b>					
Antenna, cellular telephone	P/C	P/C	P/C	P/C	(d), (s)

Use	T1	T2	T3	T4	Definition (d) Standards (s)
Municipal building or use	P	P	P	P	(s)
<u>Solar energy generation facility, community</u>	<u>P/C</u>	<u>P/C</u>	<u>P/C</u>	<u>P/C</u>	<u>(d), (s)</u>
Utility or public service building	C	C	C	C	(d), (s)

P – Permitted use      C – Conditional use requiring a conditional use permit

Notes to table 66.321, principal uses in traditional neighborhood districts:

(d) Definition for the use in Chapter 65, Land Use Definitions and Development Standards.

(s) Standards and conditions for the use in Chapter 65, Land Use Definitions and Development Standards.

**Sec. 66.421. Principal uses.**

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Table 66.421. Principal Uses in Business Districts

Use	OS	B1	BC	B2	B3	B4	B5	Definition (d) Standards (s)
<b>Public Services and Utilities</b>								
Antenna, cellular telephone	P/C	P/C	P/C	P/C	P/C	P/C	P/C	(d), (s)
Electric transformer or gas regulator		C	C	C	P	P	P	(s)
Municipal building or use	P	P	P	P	P	P	P	(s)
Public utility heating or cooling plant							P	
<u>Solar energy generation facility, community</u>	<u>P/C</u>	<u>P/C</u>	<u>P/C</u>	<u>P/C</u>	<u>P/C</u>	<u>P/C</u>	<u>P/C</u>	<u>(d), (s)</u>
Utility or public service building	C	P	P	P	P	P	P	(d), (s)

P – Permitted use      C – Conditional use requiring a conditional use permit

Notes to table 66.421, principal uses in business districts:

(d) Definition for the use in Chapter 65, Land Use Definitions and Development Standards.

(s) Standards and conditions for the use in Chapter 65, Land Use Definitions and Development Standards.

**Sec. 66.521. Principal uses.**

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Table 66.521. Principal Uses in Industrial Districts

Use	IT	I1	I2	I3	Definition (d) Standards (s)
<b>Public Services and Utilities</b>					
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Use	IT	I1	I2	I3	Definition (d) Standards (s)
<b>Public Services and Utilities</b>					
Sewage treatment plant			P	P	
<u>Solar energy generation facility, community</u>	<u>P/C</u>	<u>P/C</u>	<u>P/C</u>	<u>P/C</u>	(d), (s)
Utility or public service building or yard	P	P	P	P	(d)
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P – Permitted use            C – Conditional use requiring a conditional use permit

Notes to table 66.521, principal uses in industrial districts:

- (d) Definition for the use in Chapter 65, Land Use Definitions and Development Standards.
- (s) Standards and conditions for the use in Chapter 65, Land Use Definitions and Development Standards.

**Sec. 66.921. Ford district use table.**

Table 66.921, Ford district uses, lists all permitted and conditional uses in the F1-F6 Ford districts, and notes applicable development standards and conditions.

Table 66.921. Ford District Uses

Use	F1	F2	F3	F4	F5	F6	Definition (d) Standards (s)
<b>Public Services and Utilities</b>							
Antenna, cellular telephone	P/C	P/C	P/C	P/C	P/C	P/C	(d), (s)
Electric transformer or gas regulator substation			P	P	P	P	(s)
Municipal building or use		P	P	P	P	P	(s)
Public utility heating or cooling plant		P	P	P	P	P	
<u>Solar energy generation facility, community</u>		<u>P/C</u>	<u>P/C</u>	<u>P/C</u>	<u>P/C</u>	<u>P/C</u>	(d), (s)
Utility or public service building	P	P	P	P	P	P	(d), (s)

P – Permitted use            C – Conditional use requiring a conditional use permit

Notes to table 66.921, principal uses in Ford districts:

- (d) Definition for the use in Chapter 65, Land Use Definitions and Development Standards.
- (s) Standards and conditions for the use in Chapter 65, Land Use Definitions and Development Standards.