

# SOLAR COLLECTOR INSTALLATION

## **Regulations**

The Raymore Unified Development Code includes regulations for the siting and installation of solar energy systems. Solar energy systems may include solar photovoltaic (PV) panels and solar thermal systems such as solar water heaters. The UDC regulations strive to let property owners take full advantage of available solar resources and properly address safety and aesthetics.

The UDC provides regulations to address systems that are mounted on building roofs and systems that are mounted on the ground. Regulations for solar collectors mounted on pitched roofs vary depending on which roof face the collector is mounted; however, solar collectors may never extend above the ridge (top) of the roof. Solar collectors located on flat roofs may not extend more than four feet above the top of the roof or parapet. Regulations for solar collectors installed on the ground vary by the size of the property on which they are located.

## **Permit Requirements**

If you are considering installing a solar energy system, contact the Development Services Department to determine the regulations and how they apply to your property. Next, the application included in this packet should be completed and returned to the Development Services Department for review. If the City determines that the proposed solar collector requires approval of a Conditional Use Permit, a separate application must be filed. Conditional Use Permits require review and approval from the Raymore Planning and Zoning Commission and City Council; notification to surrounding properties and a public hearing are also required. After zoning compliance is demonstrated, a building permit application can be filed.

Interconnection of solar collectors to the utility grid must be approved by Kansas City Power and Light. The City will not issue a building permit until approval from the utility is granted.

**An application for installation of a solar energy system shall contain the following:**

	<p><b>Building Permit.</b> All solar installations must be in compliance with Building Codes and Electric Codes. All systems require a building permit. Contact the Building Inspections department at (816) 331-7916 for a building permit application.</p>
	<p><b>A plot plan showing:</b></p> <ol style="list-style-type: none"><li>1. Property lines and physical dimensions of the property</li><li>2. Location, dimensions, and types of existing major structures on the property</li><li>3. Location of the proposed solar collector</li><li>4. The right-of-way of any public road that is contiguous to the property</li><li>5. Dimensions of the distance between the solar collector and any property line if the system will be installed on the ground.</li></ol>
	<p><b>Solar collector specifications, including:</b></p> <ol style="list-style-type: none"><li>1. The model and manufacturer</li><li>2. Dimensions of the collector</li><li>3. Number of collectors to be installed</li><li>4. Rated power output</li><li>5. Required roof loads (if system is roof-mounted)</li></ol>
	<p><b>Details showing the proposed method of mounting</b> the collector and the type of mounting hardware to be used. Applications for roof-mounted panels on pitched roofs must specify how far the collector will project away from the roof as measured from the point on the roof where it is mounted. Applications for roof-mounted panels on flat roofs must show how far above the deck or parapet of the roof the collector will project and how the mounting hardware will be screened.</p>
	<p><b>An engineering analysis</b> showing compliance with the International Building Code and the International Residential Code, certified by a licensed professional engineer. (This information is frequently supplied by the manufacturer. Original seal and signature are not required.)</p>
	<p><b>A line drawing of the electrical components</b> in sufficient detail to allow for a determination that the manner of installation conforms to the National Electrical Code. (This information is frequently supplied by the manufacturer.)</p>
	<p><b>Any other data</b> necessary to show compliance with UDC Section 420.070.</p>

# City of Raymore

100 Municipal Circle  
Raymore, MO 64083

Phone: 816-331-1803  
Fax: 816-331-8067



## SOLAR COLLECTOR INSTALLATION APPLICATION

APPLICATION NAME: \_\_\_\_\_

<b>FOR OFFICE USE ONLY:</b>	Case Number: _____	Required Fee: _____
	P&Z Date: _____	CC1 Date: _____

### APPLICANT/OWNER INFORMATION

**Applicant Name:** \_\_\_\_\_

Company: \_\_\_\_\_

Street Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_ E-Mail: \_\_\_\_\_

**Property Owner Name** (if different than applicant): \_\_\_\_\_

Street Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_ E-Mail: \_\_\_\_\_

\*All correspondence on this application should be sent to (check one):  Applicant  Property Owner

### LOCATION INFORMATION

**Address or Legal Description** of the property where the solar panel(s) will be located: \_\_\_\_\_

\_\_\_\_\_

**Lot size:** \_\_\_\_\_ acres/square feet

### SOLAR COLLECTOR INFORMATION

**The system will be:**  Interconnected **OR**  Off-Grid

**The system will be installed on the:**  Roof of Main Structure:  Front Roof  Side Roof  Rear Roof

Ground

Other: \_\_\_\_\_

**Model and Manufacturer:** \_\_\_\_\_

**Square Footage of Panels:** \_\_\_\_\_ **Rated Power Output:** \_\_\_\_\_

**ADDITIONAL REQUIREMENTS**

In addition to a completed application form, the following must be submitted:

- Required Fee: \$ \_\_\_\_\_
- Submittal Requirements listed on Page 2 of the application packet

**APPLICANT'S DECLARATION**

The following declarations are hereby made:

- The undersigned is the owner or authorized agent of the owner or the officers of a corporation or partnership.
- The information presented and contained within this application is true and correct to the best of the undersigner(s) knowledge.

Printed Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_