

**City of Prairie Village
Residential Sustainability Grant Program
2024 Guidelines**

Purpose

The purpose of the Residential Sustainability Grant program is to encourage residents to reduce their carbon footprint by improving the energy efficiency of their homes.

Program Overview

- The City will provide a 25% match for energy efficiency improvements for one- and two-family dwellings with a minimum \$2,000 investment by the property owner or a 50% match with a minimum \$1,000 for an insulation-only project
- Reimbursement amounts from the City will be a minimum of \$500 and a maximum of \$2,500.
- Energy-saving improvements must meet the 2021 International Energy Conservation Code and/or the attached project specifications, whichever results in the greatest energy efficiency.
- The residential sustainability grant can be used in conjunction with the Exterior Grant (but one project cannot be funded by both programs).

Program Eligibility

- The project must be at a one- or two-family dwelling.
- Eligible improvements include, but are not limited, to the following: home energy audit by a certified auditor, solar power, wind power, energy-efficient HVAC or water heater, energy-efficient windows or doors, insulation, geothermal heating and cooling, and duct sealing.
- All improvement projects must meet the requirements of the 2021 IECC and/or the attached specifications, whichever results in the greatest energy efficiency.
- The Building Official is granted the authority to determine if a proposed project meets the overall eligibility and purpose of the grant program.
- All improvements must conform to the City of Prairie Village municipal code.
- Contractors utilized to perform the improvements must have an active contractor's license through the City and Johnson County.
- Property owner must be current on all property taxes in Prairie Village and property free of code violations.

Process

- The program will be managed by the Community Development Department.
- The property owner will submit an application to the City, and all applications will be reviewed in the order they are received until all grant funds are exhausted.
- The application must include all bids for the improvements, including all project specification sheets.
- The application and project specification sheets will be reviewed by the Building Official for compliance with the 2021 International Energy Conservation Code and the attached specifications.
- Application approval must occur prior to the start of work, and applicants will only be approved after a code enforcement officer has confirmed that no code violations are present at the property.
- The property owner is responsible for ensuring that all required permits have been obtained. All permits must be in place prior to any work taking place.
- Work must be completed within 120 days of application approval and no later than June 1, 2024. If funds allow, a second round of grants may be offered.

Reimbursement Process

- The property owner is responsible for ensuring that all required permits have been obtained. All permits must be in place prior to any work taking place.
- Work must be completed within 120 days of application approval and no later than June 1, 2024.

- Upon completion of the improvements the applicant must submit qualified project receipts, invoices and proof of payment (canceled check, credit card receipt, or cashier's check only – no cash) to the Community Development Department. Total project expenses must be at least \$2,000 or \$1,000 for insulation only projects. Items on the receipt must be clearly marked and explained.
- Codes staff will schedule post-project inspections. One inspection will be to verify project completion in accordance with required specifications. The other inspection will be to confirm no exterior code violations are present.

**City of Prairie Village
Residential Sustainability Grant
Required Project Specifications**

All eligible grant projects must be done in compliance with the 2021 International Energy Conservation Code (IECC) as well as the below specifications. A completed application form must be submitted along with the product specification sheet for all products being used in the project. Below is an overview of the required

specifications for various types of projects. Projects not listed on this sheet will be reviewed for compliance with the 2021 IECC and must be accomplishing the goal of improving the energy-efficiency of the home.

Windows/Doors/Fenestration

- Fixed windows/fenestration must have a maximum *U*-factor of 0.36
- Operable windows/fenestration must have a maximum *U*-factor of 0.30
- Entrance doors must have a maximum *U*-factor of 0.63
- Must have a maximum SHGC (solar heat gain coefficient) of 0.40

Skylights

- Must have a maximum *U*-factor of 0.50
- Must have a maximum SHGC of 0.40

Air Conditioners

- All air conditioners must have a minimum efficiency of 14 SEER. Window units do not qualify for the sustainability grant.
- All air conditioners must comply with ANSI/AHAM RAC-1

Furnace

- Warm-air furnaces (gas-fired) must have a minimum efficiency of 92% AFUE or 92%*E*^c
- Warm-air furnaces (gas-fired) must comply with DOE 10 CFR Part 430 or ANSI Z21.47

Basement Rim Joist Insulation

- Fiberglass insulation must have a minimum R-value of R30
- Spray foam insulation must have a minimum R-value of R15

Attic Insulation

- Attic insulation must have a minimum R-value of R60

Solar

- All solar power installations require a building permit and must be constructed in accordance with Chapter 19.50 of the City's zoning regulations, including the following:
- The design of any solar energy system shall generally be compatible with the character of the neighborhood or district, the architectural design of the buildings, and situated on a site in a manner that minimizes potential negative impacts on adjacent property or public streetscapes. Compatibility shall be evaluated as follows:
 - Systems mounted on pitched roof structures or vertical walls shall not project more than five inches off the surface of the roof or wall and be generally parallel to the roof pitch or vertical wall.
 - Systems mounted on flat roofs shall be setback from the roof edge a distance equal to the amount they project off the roof deck, or be concealed from street level or ground level of adjacent property by a parapet. Any panel or accessory equipment that projects more than two feet off the roof deck shall be screened in the same manner as other rooftop accessory building equipment.
 - Framing, mounting racks, piping, conduits and other associated equipment shall be designed, located or use colors to minimize the visibility from streetscapes or adjacent property, and blend with the overall design of the building.
 - Ground mounted solar panels shall be located behind the front building line, and be setback from adjacent property by at least ten feet. No ground-mounted equipment shall exceed eight feet high. All ground-mounted equipment shall be screened from adjacent property and the street by fences,

landscape or a combination of both. This provision shall not apply to solar energy facilities attached to utility poles, light fixtures or other similar accessory structures provided they be designed in a manner that integrates the energy collecting components into the design of the structure in a manner that does not significantly alter the appearance of the structure, when compared to other similarly functioning accessory structures.

- No solar panel shall be mounted in a location where it could create additional glare on adjacent sites or otherwise damage plants or structures on adjacent property from reflectiveness or heat sources. Panels in locations with the potential to contribute to this situation may satisfy this requirement with manufacturer's specifications that demonstrate minimal glare, reflectiveness and heat gain.
- Any solar energy system that does not meet the standards of this section may only be permitted with a site plan, approved by the planning commission according to the procedures and criteria of [chapter 19.32](#).

Water-Heating Equipment

- Water heaters (electric, ≤ 12 kW) must have a required performance of 0.93 – 0.00132V, EF (tabletop ≥ 20 gallons and ≤ 120 gallons), 0.960 – 0.0003V, EF (resistance ≥ 20 gallons and ≤ 55 gallons), or 1.061 – 0.00168V, EF (grid-enabled > 75 gallons and ≤ 120 gallons)
- Water heaters (electric, ≤ 12 kW) must comply with DOE 10 CFR Part 430
- Water heaters (electric, > 12 kW) must comply with ANSI Z21.10.3
- Water heaters (electric, ≤ 24 amps and ≤ 250 volts) must have a required performance of 2.057 – 0.00113V, EF (heat pump > 55 gallons and ≤ 120 gallons)
- Water heaters (electric, ≤ 24 amps and ≤ 250 volts) must comply with DOE 10 CFR Part 430
- Storage water heaters (gas, $\leq 75,000$ Btu/h) must have a required performance of 0.675 – 0.0015V, EF (≥ 20 gallons and < 55 gallons), or 0.8012 – 0.00078V, EF (> 55 gallons and ≤ 100 gallons)
- Storage water heaters (gas, $\leq 75,000$ Btu/h) must comply with DOE 10 CFR Part 430
- Storage water heaters (gas, $> 75,000$ Btu/h and $\leq 155,000$ Btu/h, $< 4,000$ Btu/h/gal) must have a required performance of 90%.
- Storage water heaters (gas, $> 75,000$ Btu/h and $\leq 155,000$ Btu/h, $< 4,000$ Btu/h/gal) must comply with ANSI Z21.10.3
- Instantaneous water heaters (gas, $> 50,000$ Btu/h and $< 200,000$ Btu/h) must have a required performance of 0.82 – 0.0019V, EF ($\geq 4,000$ (Btu/h)/gal and < 2 gal)
- Instantaneous water heaters (gas, $> 50,000$ Btu/h and $< 200,000$ Btu/h) must comply with DOE 10 CFR Part 430
- Instantaneous water heaters (gas, $\geq 200,000$ Btu/h) must have a required performance of 90%
- Instantaneous water heaters (gas, $\geq 200,000$ Btu/h) must comply with ANSI Z21.10.3