



## Department of Building Safety

101 4<sup>th</sup> St E, Hastings, MN 55033

Phone: 651-480-2342

Email: [Building@Hastingsmn.gov](mailto:Building@Hastingsmn.gov)

[www.hastingsmn.gov](http://www.hastingsmn.gov)

## Residential Solar PV System

*This handout is a compilation of some of the standard requirements based on the State Building Code and City Ordinance for projects of this type. This information packet does not contain all the specific codes for construction and should only be used as a guide. The permittee is responsible to meet all code requirements applicable to each project.*

**Note:** If home is a Heritage Preservation Site prior approval from city planner and/or HPC is required before issuance of permit.

### **Submittals:**

- ☐ Permit Application-Residential Solar PV Building
- ☐ Electrical Permit Application
- ☐ Plans Including:
  - Seal by MN Engineer
  - Panel layout
  - Required setbacks at ridge
  - Required access pathways
  - Locations of vents and pipes on roof
- ☐ Manufacturer details and insulation requirements for all components.
  - Including UL listing specifications for panels (UL 1703) and inverters (UL 1741).
  - Rack mounting details and calculations
  - Locations and labels for compliance with NEC 690

### **Required Inspections:**

- ☐ Electrical Final
- ☐ Building Final (after electrical has been approved, be sure system is free of debris and snow before scheduling)
  - City approved plan-set must be onsite at time of inspection.
  - Provide photos of systems not visible from the ground.

### **Typical Code Requirements**

- See MN DLI Residential Solar Handout for additional information:  
[https://www.dli.mn.gov/sites/default/files/pdf/fs\\_res\\_solar.pdf](https://www.dli.mn.gov/sites/default/files/pdf/fs_res_solar.pdf)
- The Solar photovoltaic panel system shall be designed for a wind speed of 115 mph.
- Systems shall support a snow load of 35 pounds per square foot.
- PV panels shall not cover exhaust hoods, interfere with plumbing vent terminations or impede maintenance of hoods or vents.
- Roof and wall penetrations shall be flashed and sealed.

### **Required Setback at Ridge**

- Systems covering 33% or less of the roof surface shall be installed at least 18-inches below the ridge.
- Systems covering more than 33% of the roof surface shall be installed at least 36-inches below the ridge.
- Alternate setbacks at ridge are available for buildings equipped with automatic fire sprinkler systems.

### **Required Access and Pathways**

- A minimum of two 36-inch-wide pathways shall be provided on separate roof planes, from the lowest roof edge to the ridge. At least one of these pathways shall be provided on the driveway side of the roof.
- On each roof plane with a solar array a pathway of not less than 36-inches wide shall be provided from eave to ridge on the same roof plane, straddling the same and adjacent plane or on adjacent plane.
- Pathways shall be over areas capable of supporting firefighters and shall be located in areas with minimal obstructions such as vent pipes, conduit, or chimneys.
- Panels shall not be placed below emergency escape and rescue openings unless a 36-inche wide pathway is provided.



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### Residential Solar PV Building Permit Application

SITE ADDRESS: \_\_\_\_\_

PID#: \_\_\_\_\_

Owner Name: \_\_\_\_\_

Phone: \_\_\_\_\_

Street Address: \_\_\_\_\_

Email: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Description of Project: \_\_\_\_\_ Valuation: \$ \_\_\_\_\_

**Note:** If home is a Heritage Preservation Site prior approval from city planner and/or HPC is required before issuance of permit for any work involving the exterior of the home.

#### Building Contractor

☐ Owner Performed  
(Owner Waiver Required)

Company/Name: \_\_\_\_\_ Phone: \_\_\_\_\_

License # \_\_\_\_\_ Exp Date: \_\_\_\_\_

Street Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Email: \_\_\_\_\_

*The undersigned acknowledges that he/she has read this application, and the above information is correct and accurate. Applicant also understands by signing this application that he/she could be held responsible as representative of this project for any violation of compliance with all applicable laws and ordinances of the City of Hastings.*

\_\_\_\_\_  
Signature of Applicant or Authorized Agent

\_\_\_\_\_  
Date

**NOTICE:** This is an **application only**. Permit will be issued after City approval and payment of fees. Permit shall be null and void if authorized work is not started within 180 days or work is suspended for 180 days or more.

**Solar PV Permit Fee: \$101.00**

## OFFICE USE ONLY

|                      |  |  |  |  |
|----------------------|--|--|--|--|
| Bld Type             | <input type="checkbox"/> SFD   | <input type="checkbox"/> TOWNHOUSE   |  |  |
| Work Type            | <input type="checkbox"/> Roof mounted  | <input type="checkbox"/> Ground Mounted  |  |  |
| Required Inspections | <input type="checkbox"/> Footing<br><input type="checkbox"/> Final   |  |  |  |
| Fee Notes            | <input type="checkbox"/> Plan Review<br><hr style="border: 0; border-top: 1px solid black; margin: 2px 0;"/> <hr style="border: 0; border-top: 1px solid black; margin: 2px 0;"/> <hr style="border: 0; border-top: 1px solid black; margin: 2px 0;"/> | <input type="checkbox"/> Other<br><hr style="border: 0; border-top: 1px solid black; margin: 2px 0;"/> <hr style="border: 0; border-top: 1px solid black; margin: 2px 0;"/> <hr style="border: 0; border-top: 1px solid black; margin: 2px 0;"/> |  |  |

Building Approval: \_\_\_\_\_ Date: \_\_\_\_\_

Planning Approval: \_\_\_\_\_ Date: \_\_\_\_\_

Engineering Approval: \_\_\_\_\_ Date: \_\_\_\_\_