



## Private Energy Generation Systems

November 2017

**PLEASE NOTE:** Informational Bulletins should not be used as substitutes for actual codes and regulations. Detailed information regarding codes and regulations can be obtained by calling the Code Administration Division at 307-721-5271.

Private energy generation systems using sources such as wind, solar and conventional stand-by generators are approved in the City of Laramie subject to the following.

### Apply for the required permits.

Permits are required for all new or altered private energy systems, whether stand-alone or grid-tied. Depending on the nature of the work, building and/or electrical permits may be required. Permits must be obtained before any work is started, and in some cases permits can only be issued to licensed contractors. Contact the code administration division for detailed information. To obtain a permit you must provide the following information.

- A completed building and/or electrical permit application form, depending on the nature of the work.
- A site plan showing the existing and proposed site improvements.
- A structural plan showing any required foundations, supports, towers, or other equipment, including attachments and mounting devices. Plans must generally be prepared by a Wyoming registered professional engineer and must show in detail how compliance with the gravity and wind loads of the building code will be met. Show that the structure will not be adversely affected where equipment is to be installed on roofs or buildings.
- Provide a one-line electrical drawing showing all proposed equipment with detailed specifications including load calculations, wiring sizes, automatic and manual disconnect means, overload protection, and grounding. Equipment must be identified by manufacturer name and model number. Each piece of equipment must be listed by a nationally

recognized testing agency such as UL or SA. Show how all work will comply with the National Electrical Code and the manufacturer's specifications. Copies of the manufacturer installation manuals should be provided.

- Verify that all electrical generation equipment is compatible with utility power and household loads. Some imported equipment may not be compatible with the domestic power grid.
- Provide a copy of a signed net metering agreement from the power utility if the system will be grid-tied.
- Show how the equipment will be able to operate within the allowable tolerance for noise. Applicants are encouraged to discuss their energy generation plan with neighbors before the application is submitted.

### Obtain all required permits and construct the required facilities.

Permits are issued upon approval of the plans and payment of all fees. Please contact the code administration division if you have any questions concerning permits or fees. Electrical permits may be issued to homeowners performing work on their own private dwellings, except the final utility connection which must be performed by a licensed electrical contractor. All other electrical work must be done by licensed electrical contractors.

All work must be inspected before it is energized. Call the code administration division for inspections at least two working days before covering or concealing any portion of the work.

### Call for a final inspection.

A final inspection is required when the work is complete, but before any equipment is energized. A final inspection will consist of review of all structural systems and equipment attachments, electrical code compliance and general compliance with the approved plans and other ordinances and regulations. A written approval will be issued to the power utility upon acceptance.