



Construction projects are often in need of deploying temporary heat. Energy sources available are typically:

- Electrical
- Propane (LPG)
- Natural Gas

There are pros and cons for each of these energy sources, but regardless of which source is utilized they must be installed and utilized in accordance with applicable codes and standards.

- All heating equipment must be listed for its intended use.
- Supervision must be maintained at all times a heater is operating.
- Protective barriers are required around heaters

**Permits must be obtained prior to any installations and inspections completed prior to energizing any equipment:**

- Mechanical permit for temporary heating equipment and associated gas piping
- Fire permit for propane (LPG) tanks
- Right-of-way permits for utilities that extend beyond the property line
- Electrical permit for any wiring associated with the temporary heating

### Electrical

Approval must be obtained from PSE ([PSE Project Steps](#))

An electrical permit and inspection is required and can be obtained online via [www.mybuildingpermit.com](http://www.mybuildingpermit.com)

### Propane (LPG)

Tanks must be located outside of the building, cannot be located on top of any portion of a building and are a sufficient distance from property lines, the building and between tanks in accordance with [International Fire Code](#) Section 6104.

**Note: In-fill sites and congested construction sites are not good candidates for the use of Propane (LPG)**



In order to utilize propane (LPG) on a construction site:

- Tanks must be placed on stable ground.
- Tanks must be located and sufficiently protected to prevent impact by construction vehicles. Temporary barriers are acceptable at construction sites.
- Piping associated with the tank must be rigid piping up to the building. Flexible piping may be used within the building. Piping must be protected from vehicle impact.
- Combustible material must not be stored within 10 feet of the tank.

### Natural Gas

In order to utilize natural gas on a construction site:

- The building must be completed to a point that the gas meter can be secured to the building
- A right-of-way permit has been secured. This permit will only be granted for coordinated utilities and can take up to 12 weeks to obtain.
  - [Right-of-way submittal requirements](#)
  - [Traffic control requirements](#)
- Discuss your gas demand requirements with Puget Sound Energy (PSE) so that they can extend the appropriately sized lateral and meter. Once a right-of-way permit has been obtained expect an additional 7 weeks for PSE to set the meter.
  - [PSE Project Steps](#)

## Best Practices

### 1. Use an external heater:

Placing the heating source externally and pumping the warm air into the building limits the opportunity for heaters to come into contact with combustible materials and potential introduction of carbon monoxide into the air that workers are breathing.

**Note:** Noise from heating equipment may not emanate from the site except between 7 a.m. to 6 p.m. weekdays and 9 a.m. to 6 p.m. on Saturdays.



### 2. Additional Site Security:

- Assign supervisory security responsibilities and encourage security awareness among all workers. Establish contact with management of neighboring properties and encourage them to report suspicious activities.
- Secure the site perimeter with proper fencing as a first line of defense and maintain a clear zone adjacent to fencing.
- Control site access by establishing – and monitoring – only one access point.
- Light up the job site to deter vandalism.  
**Note:** Cutoff shields may be required to prevent light spillover to adjacent properties.



- Ask employees and subcontractors to also take responsibility for a secure site and to immediately report any incidents of theft or vandalism.
- Consider using security guards and have them patrol the site. Provide them with a means of communication.
- Consider installing a video monitoring system to capture vehicle traffic entering and exiting the site.

## Additional Information

- Schedule a Pre-Construction meeting with your District Inspector to discuss - <https://inspection.mybuildingpermit.com/>
- [International Fire Code](#), chapter 33 – Fire Safety During Construction & Demolition
- [NFPA 241](#) (select “Free Access”) - Standard for Safeguarding Construction, Alteration, and Demolition Operations
- [Fire Safety for Buildings Under Construction](#) – Public Information Sheet
- Construction Site Noise – [Development Services web page](#)
- Bellevue City Code - [BCC 9.18.040.A.4](#)