

# 'How To' Plan a CNG Refueling Station

## Who do you need to contact?

First, contact your local CNG refueling infrastructure consultant.

It is recommended that you get a cost benefit analysis and are aware of what services are provided beyond the station installation.

- Visit [www.nfpa.org](http://www.nfpa.org) to purchase the latest edition of the NFPA 52 – applies to design & installation of CNG engine fuel systems on all vehicle types.



Picture provided by P.C. McKenzie Company

### **Contact the Authority Having Jurisdiction (AHJ) for the location of the refueling station.**

- Fire Marshall
- Zoning Board
- Electrical Inspector
- Building Inspector
- Other\_\_\_\_\_

### **Contact the local gas utility.**

- Is gas available or existing at the site and at what pressure(s)?
- Is the gas from a utility of pipeline quality or a well? If from a well, an analysis will need to be done.
- Confirm the quality of the gas.
- Determine if the existing gas line can support the demand at the station

### **Contact the local electric utility.**

- Is power available or existing at the site and at what voltage(s)?
- Determine if the existing power supply can support the demand at the station.

### **Visit the site with the contractor, AHJs and our representative**

- The CNG consultant will confirm the site's viability to be a CNG refueling station

# What questions do you need to be asking?

**CNG Refueling Stations will review the refueling needs of your fleet.**

- **What types of vehicles will be refueled? Light duty, route delivery, trash haulers, etc.?**
  - The type of vehicle determines your station design
- **How many vehicles will be refueling at this site?**
  - This helps with station loading or how much gas is to be delivered
- **How much gas does each vehicle require?**
  - Also helps determine the station load
- **What time frame can the vehicles refuel in?**
  - Size is based upon number of vehicles, how much fuel they need, and at what time frame.
- **Can the vehicles be time filled or fast filled?**
  - Further defines the amount of time to fuel the fleet
- **Does fuel need to be accounted for if it's for private use?**
  - Impacts the overall cost of the station and a dispenser and card lock system is necessary



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- **Will the station demand grow in the future, if so, how much?**
  - Number and size of conduit & gas piping can be sized accordingly
- **Have a detailed description of the location planned**
  - Temperature extremes, immediate surroundings, noise limitations, etc.
- **Do you know who will be maintaining & servicing your station?**
  - Ask what's included – technical data, repairs & maintenance, parts & components, emergency service, etc.

***The U.S. Department of Energy's Clean Cities Program can provide information about local Clean Cities Coalitions, alternative fuel news and events, success stories, tips, and funding.***

Contact Clean Cities at

- [www.cleancities.energy.gov/](http://www.cleancities.energy.gov/)

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COMPRESSED NATURAL GAS