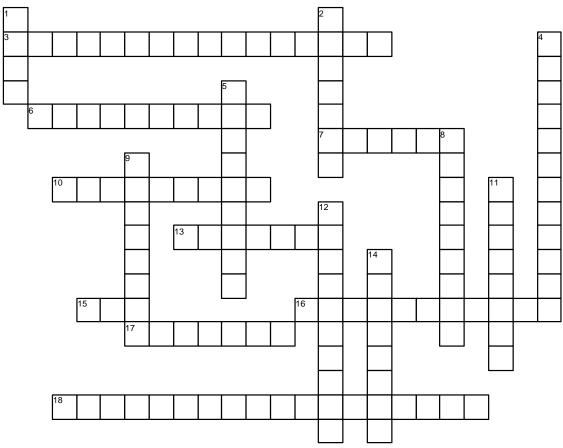
Alternative Fuels

Chapter 6



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ACROSS

- **3** A _____ sensor measures both the percentage of ethanol blend and the temperature of the fuel.
- 6 _____ natural gas is another alternative fuel that is often used in fleet vehicles.
- 7 Using a simple reaction between coal and steam, a gas mixture called ______ is formed.
- **10** Pure alcohol with no more than 0.5% water is called ______ ethanol.
- **13** _____ is the most widely used of all of the alternative fuels.
- **15** Diesel fuel created using the ____ process is often called GTL diesel.
- 16 ______ technology uses a catalyst, usually iron or cobalt, and incorporates steam re-forming to give off the by-products of carbon dioxide, hydrogen, and carbon monoxide.
- 17 _____ is usually made from grain and is the type of alcohol found in alcoholic drinks.
- 18 When sold as a fuel, propane is also known as _____ gas because the propane is often mixed with about 10% of other gases to give the propane a smell.

DOWN

- 1 The _-___ can operate on pure gasoline or blends up to 85% ethanol.
- 2 _____ can be converted to synthesis gas by a process called partial oxidation, and later converted to methanol.
- 4 Coal can be converted to a liquid fuel through a process called ______.
- 5 _____ ethanol can be produced from a wide variety of cellulose biomass feedstock.
- **8** _____ fuels can be made from a variety of products, using several different processes.
- **9** _____ is created from a process where coal is reacted with hy drogen at high temperatures and pressure with a cataly st.
- **11** Using E85 in a ______ vehicle can result in a power increase of about 5%.
- **12** Exxon Mobil has developed a process for converting methanol into gasoline i a process called _____-gasoline.
- **14** _____ is a chemical compound formula that includes one carbon atom, four hydrogen atoms and one oxy gen atom.

