How does chemical energy work

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A related term is the heat of combustion, which is the energy mostly of the weak double bonds of molecular oxygen[4] [6] released due to a combustion reaction and often applied in the study of fuels. Food is similar to hydrocarbon and carbohydrate fuels, and when it is oxidized to carbon dioxide and water, the energy released is analogous to the heat of combustion (though assessed differently than for a hydrocarbon fuel--see food energy).

Chemical potential energy is a form of potential energy related to the structural arrangement of atoms or molecules. This arrangement may be the result of chemical bonds within a molecule or interactions between them. Chemical energy of a chemical substance can be transformed to other forms of energy by a chemical reaction. For example, when a fuel is burned, the chemical energy of molecular oxygen and the fuel is converted to heat.[4] Green plants transform solar energy to chemical energy (mostly of oxygen) through the process of photosynthesis, and electrical energy can be converted to chemical energy and vice versa through electrochemical reactions.

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Frequently Asked Questions - FAQsQ1 What is the meaning of chemical energy?Energy is contained in chemical compound bonds. During a chemical reaction, chemical energy can be emitted, often in the form of heat; such reactions are referred to as exothermic energy. Using electrolysis, the chemical energy in a battery may also provide electrical fuel.

Chemical energy is energy, including atoms and molecules, contained in the bonds of chemical compounds. When a chemical reaction takes place, this energy is released. Typically, the material is converted into an entirely new substance once chemical energy has been released from a substance.

If an entity is made to vibrate, sound energy is produced. Sound energy in both ways travels out like waves. Sound, such as air, water, wood, and even metal, requires a medium to move through! Examples: voices, whistles, musical instruments and horns.

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