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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 energy is defined as the form of potential energy stored within atoms and molecules. Usually, it's the energy stored within chemical bonds, but it's also the energy of the electron arrangement of ions and atoms. Chemical energy is observed when a chemical reaction occurs or matter changes forms. Energy is either absorbed or released when chemical energy changes form as the result of a chemical change.

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