We are using the Merriam-Webster dictionary for our definitions: www.merriam-webster.com

Let's Rock and Coal

Acid rain (Let's Rock and Coal)

Rain with increased acidity caused by environmental factors (such as atmospheric pollutants)

Anthracite (Let's Rock and Coal)

A hard natural coal of high luster differing from bituminous coal in containing little volatile matter and in burning very cleanly — also known as *hard coal*

Biomass (We Need More Energy!, High Electric Bills, Let's Rock and Coal)

2. plant materials and animal waste used especially as a source of fuel

Bituminous coal (Let's Rock and Coal)

a coal that when heated yields considerable volatile bituminous matter — also known as *soft coal*

Carbon dioxide (Let's Rock and Coal)

a heavy colorless gas CO_2 that does not support combustion, dissolves in water to form carbonic acid, is formed especially in animal respiration and in the decay or combustion of animal and vegetable matter, is absorbed from the air by plants in photosynthesis, and is used in the carbonation of beverages

Coal (Let's Rock and Coal, How Much Wind Is Enough?, Energy And Its Uses, We Need More Energy!, High Electric Bills)

3a. a black or brownish-black solid combustible substance formed by the partial decomposition of vegetable matter without free access of air and under the influence of moisture and often increased pressure and temperature that is widely used as a natural fuel

Coal reserves (Let's Rock and Coal)

1a. to hold in reserve : keep back

Crystallization (Let's Rock and Coal)

1. to cause to form crystals or assume crystalline form

Deep mining (Let's Rock and Coal)

The exploitation of coal or mineral deposits by underground mining methods. (source: www.mindat.org)

Electricity (Let's Rock and Coal, Energy Demand, How Much Wind Is Enough?, We Need More Energy!)

1a. a fundamental form of energy observable in positive and negative forms that occurs naturally (as in lightning) or is produced (as in a generator) and that is expressed in terms of the movement and interaction of electrons

1b. electric current or power

Erosion (Let's Rock and Coal)

1a. the action or process of eroding

Fossil Fuel (Let's Rock and Coal, How Much Wind Is Enough?, Energy And Its Uses)

1. a fuel (such as coal, oil, or natural gas) formed in the earth from plant or animal remains

Fracking (Let's Rock and Coal)

the injection of fluid into shale beds at high pressure in order to free up petroleum resources (such as oil or natural gas)

Geothermal (Let's Rock and Coal)

of, relating to, or utilizing the heat of the earth's interior *also* : produced or permeated by such heat

Greenhouse Gas (Trash Mountain, Let's Rock and Coal))

1. any of various gaseous compounds (such as carbon dioxide or methane) that absorb infrared radiation, trap heat in the atmosphere, and contribute to the greenhouse effect

Hydroelectric (From Water To Electricity, Let's Rock and Coal, We Need More Energy!)

1. of or relating to production of electricity by waterpower

Igneous rock (Let's Rock and Coal)

rock formed by solidification of a molten magma

Lignite (Let's Rock and Coal)

a usually brownish black coal intermediate between peat and bituminous coal

Megawatt-hour (MWh) (Let's Rock and Coal)

unit of measure of electric energy

Metamorphic rock (Let's Rock and Coal)

a change in the constitution of rock *specifically* : a pronounced change effected by pressure, heat, and water that results in a more compact and more highly crystalline condition

Mine shafts (Let's Rock and Coal)

a deep narrow vertical hole, or sometimes a horizontal tunnel, that gives access to a mine. (source: Oxford dictionary)

Natural Gas (Let's Rock and Coal, How Much Wind Is Enough?, Energy And Its Uses, We Need More Energy!, High Electric Bills)

1. gas issuing from the earth's crust through natural openings or bored wells

Nonrenewable (We Need More Energy!, Let's Rock and Coal)

1. unable to be replaced or replenished once used

Peat (Let's Rock and Coal)

2. partially carbonized vegetable tissue formed by partial decomposition in water of various plants (such as mosses of the genus *Sphagnum*)

Petroleum (Let's Rock and Coal, How Much Wind Is Enough?, Energy And Its Uses, We Need More Energy!)

1. an oily flammable bituminous liquid that may vary from almost colorless to black, occurs in many places in the upper strata of the earth, is a complex mixture of hydrocarbons with small amounts of other substances, and is prepared for use as gasoline, naphtha, or other products by various refining processes

Pollution (Let's Rock and Coal)

the action of polluting especially by environmental contamination with man-made waste

Power plant (Let's Rock and Coal)

an electric utility generating station

Pressure (Let's Rock and Coal)

2. the application of force to something by something else in direct contact with it : compression

Reclaim (Let's Rock and Coal)

2a. to rescue from an undesirable state *also* : to restore to a previous natural state

Renewable (We Need More Energy!, Let's Rock and Coal, Energy Demand)

2. capable of being replaced by natural ecological cycles or sound management practices

Scrubbers (Let's Rock and Coal)

one that scrubs *especially* : an apparatus for removing impurities especially from gases

Sedimentary rock (Let's Rock and Coal)

clastic rock (as conglomerate, sandstone, or shale) formed of fragments of other rock transported from its source and deposited in water

Smelting (Let's Rock and Coal)

to melt or fuse (a substance, such as ore) often with an accompanying chemical change usually to separate the metal

Solar (High Electric Bills, Let's Rock and Coal)

3a. produced or operated by the action of the sun's light or heat

b. utilizing the sun's rays especially to produce heat or electricity

Surface mining (Let's Rock and Coal)

method of extracting minerals near the surface of the Earth. The three most common types of surface mining are open-pit mining, strip mining, and quarrying.
(source: www.mindat.org)

Sustainability (How Much Wind Is Enough?, High Electric Bills)

2a. of, relating to, or being a method of harvesting or using a resource so that the resource is not depleted or permanently damaged

Utility (Let's Rock and Coal)

3b. a service (such as light, power, or water) provided by a public utility

Wind (Let's Rock and Coal, How Much Wind Is Enough?, High Electric Bills)

1a. a natural movement of air of any velocity

How Much Wind Is Enough?

Biodiversity (How Much Wind Is Enough?, Energy And Its Uses)

1. biological diversity in an environment as indicated by numbers of different species of plants and animals

Coal (Let's Rock and Coal, How Much Wind Is Enough?, Energy And Its Uses, We Need More Energy!, High Electric Bills)

3a. a black or brownish-black solid combustible substance formed by the partial decomposition of vegetable matter without free access of air and under the influence of moisture and often increased pressure and temperature that is widely used as a natural fuel

Electric Grid (Energy Demand, How Much Wind Is Enough?, We Need More Energy!, Power Up For EV)

1a. network of synchronized power providers and consumers that are connected by transmission and distribution lines and operated by one or more control centers.

Electricity (Let's Rock and Coal, Energy Demand, How Much Wind Is Enough?, We Need More Energy!)

1a. a fundamental form of energy observable in positive and negative forms that occurs naturally (as in lightning) or is produced (as in a generator) and that is expressed in terms of the movement and interaction of electrons

1b. electric current or power

Energy (How Much Wind Is Enough?, Energy Demand, We Need More Energy!)

3. a fundamental entity of nature that is transferred between parts of a system in the production of physical change within the system and usually regarded as the capacity for doing work
4. usable power (such as heat or electricity)

Fossil Fuel (Let's Rock and Coal, How Much Wind Is Enough?, Energy And Its Uses)

2. a fuel (such as coal, oil, or natural gas) formed in the earth from plant or animal remains

Impact (How Much Wind Is Enough?)

1. the force of impression of one thing on another : a significant or major effect

Migration (How Much Wind Is Enough?)

1. the act, process, or an instance of migrating

Natural Gas (Let's Rock and Coal, How Much Wind Is Enough?, Energy And Its Uses, We Need More Energy!, High Electric Bills)

2. gas issuing from the earth's crust through natural openings or bored wells

Natural Resource (How Much Wind Is Enough?, Energy And Its Uses)

1. industrial materials and capacities (such as mineral deposits and waterpower) supplied by nature

Petroleum (Let's Rock and Coal, How Much Wind Is Enough?, Energy And Its Uses, We Need More Energy!)

1. an oily flammable bituminous liquid that may vary from almost colorless to black, occurs in many places in the upper strata of the earth, is a complex mixture of hydrocarbons with small amounts of other substances, and is prepared for use as gasoline, naphtha, or other products by various refining processes

Sustainability (How Much Wind Is Enough?, High Electric Bills)

2a. of, relating to, or being a method of harvesting or using a resource so that the resource is not depleted or permanently damaged

Technology (How Much Wind Is Enough?)

1. a manner of accomplishing a task especially using technical processes, methods, or knowledge

Wind (Let's Rock and Coal, How Much Wind Is Enough?, High Electric Bills)

1a. a natural movement of air of any velocity

1b. an artificially produced movement of air

Windmill (How Much Wind Is Enough?, Energy And Its Uses)

1a. a mill or machine operated by the wind usually acting on oblique vanes or sails that radiate from a horizontal shaft

Wind Power (How Much Wind Is Enough?, Energy And Its Uses, We Need More Energy!)

1. mechanical power derived from winds

Wind turbine (How Much Wind Is Enough?)

2. a wind-driven turbine for generating electricity

Energy And Its Uses

Biodiversity (How Much Wind Is Enough?, Energy And Its Uses)

1. biological diversity in an environment as indicated by numbers of different species of plants and animals

Coal (Let's Rock and Coal, How Much Wind Is Enough?, Energy And Its Uses, We Need More Energy!, High Electric Bills)

3a. a black or brownish-black solid combustible substance formed by the partial decomposition of vegetable matter without free access of air and under the influence of moisture and often increased pressure and temperature that is widely used as a natural fuel

Energy Density (Energy And Its Uses)

1. Energy density is the amount of energy that can be stored in a given system, substance, or region of space. Energy density can be measured in energy per volume or per mass.

Fossil Fuel (Let's Rock and Coal, How Much Wind Is Enough?, Energy And Its Uses)

2. a fuel (such as coal, oil, or natural gas) formed in the earth from plant or animal remains

Natural Gas (Let's Rock and Coal, How Much Wind Is Enough?, Energy And Its Uses, We Need More Energy!, High Electric Bills)

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Petroleum (Let's Rock and Coal, How Much Wind Is Enough?, Energy And Its Uses, We Need More Energy!)

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Power Density (Surface Power Density) (Energy And Its Uses)

1. The amount of power, in Watts, produced per square meter of land. A higher power density would mean there is less land used to make a large amount of power.

Windmill (How Much Wind Is Enough?, Energy And Its Uses)

1a. a mill or machine operated by the wind usually acting on oblique vanes or sails that radiate from a horizontal shaft

High Electric Bills

Affordability (High Electric Bills)

able to be afforded : having a cost that is not too high

Availability (High Electric Bills)

1. present or ready for immediate use

Biomass (We Need More Energy!, High Electric Bills, Let's Rock and Coal)

2. plant materials and animal waste used especially as a source of fuel

Coal (Let's Rock and Coal, How Much Wind Is Enough?, Energy And Its Uses, We Need More Energy!, High Electric Bills)

3a. a black or brownish-black solid combustible substance formed by the partial decomposition of vegetable matter without free access of air and under the influence of moisture and often increased pressure and temperature that is widely used as a natural fuel

Natural Gas (Let's Rock and Coal, How Much Wind Is Enough?, Energy And Its Uses, We Need More Energy!, High Electric Bills)

2. gas issuing from the earth's crust through natural openings or bored wells

Reliability (High Electric Bills)

2. the extent to which an experiment, test, or measuring procedure yields the same results on repeated trials

Solar (High Electric Bills, Let's Rock and Coal)

3a. produced or operated by the action of the sun's light or heat
b. utilizing the sun's rays especially to produce heat or electricity

Sustainability (How Much Wind Is Enough?, High Electric Bills)

2a. of, relating to, or being a method of harvesting or using a resource so that the resource is not depleted or permanently damaged

Wind (Let's Rock and Coal, How Much Wind Is Enough?, High Electric Bills)

1a. a natural movement of air of any velocity

Power Up For EV

Baseload (Power Up For EV)

1. the amount of power made available by an energy producer (such as a power plant) to meet fundamental demands by consumers —often used before another noun

Compact Flourescent Bulb (Power Up For EV)

1. a tightly coiled fluorescent bulb designed to fit into a standard household light fixture

Electric Vehicle (Power Up For EV)

A vehicle that has a battery instead of a gasoline tank, and an electric motor instead of an internal combustion engine. (EPA definition)

Electric Grid (Energy Demand, How Much Wind Is Enough?, We Need More Energy!, Power Up For EV)

1. a network of synchronized power providers and consumers that are connected by transmission and distribution lines and operated by one or more control centers.

Incandescent Light Bulb (Power Up For EV)

1. a light bulb whose light is produced by the glow of a wire heated by an electric current

Intermittent (Power Up For EV)

1. coming and going at intervals: not continuous

Kilowatt-hour (Power Up For EV)

a unit of work or energy equal to that expended by one kilowatt in one hour or to 3.6 million joules

LED (Power Up For EV)

1. a semiconductor diode that emits light when a voltage is applied to it and that is used especially in electronic devices (as for an indicator light)

Lobbyist (Power Up For EV)

one who conducts activities aimed at influencing or swaying public officials and especially members of a legislative body on legislation : a person engaged in lobbying public officials

Plug-In Hybrid Electric Vehicle, PHEV (Power Up For EV)

PHEVs are a combination of gasoline and electric vehicles, so they have a battery, an electric motor, a gasoline tank, and an internal combustion engine. PHEVs use both gasoline and electricity as fuel sources.

Substation (Power Up For EV)

b. a subsidiary station in which electric current is transformed

Transformer (Power Up For EV)

2. a device employing the principle of mutual induction to convert variations of current in a primary circuit into variations of voltage and current in a secondary circuit

Energy Demand

Blackout (Energy Demand, Energy Efficient Homes)

1c. a period of darkness (as in a city) caused by a failure of electrical power

Capacity (Energy Demand)

6b. the quantity of electricity that can be delivered under specified conditions

Conservation- (Energy Demand)

1. prevention of wasteful use of a resource

Efficiency (Energy Demand)

1. effective operation as measured by a comparison of production with cost (as in energy, time, and money)

Electric Grid (Energy Demand, How Much Wind Is Enough?, We Need More Energy!, Power Up For EV)

1. a network of synchronized power providers and consumers that are connected by transmission and distribution lines and operated by one or more control centers.

Electricity (Let's Rock and Coal, Energy Demand, How Much Wind Is Enough?, We Need More Energy!)

1a. a fundamental form of energy observable in positive and negative forms that occurs naturally (as in lightning) or is produced (as in a generator) and that is expressed in terms of the movement and interaction of electrons

1b. electric current or power

Energy (How Much Wind Is Enough?, Energy Demand, We Need More Energy!)

3. a fundamental entity of nature that is transferred between parts of a system in the production of physical change within the system and usually regarded as the capacity for doing work
4. usable power (such as heat or electricity)

Joule (Energy Demand)

1. a unit of work or energy equal to the work done by a force of one newton acting through a distance of one meter

Peak load (Energy Demand)

1. the maximum load carried during a given period (as by a railroad, telegraph line, power plant, pumping station)

Power (Energy Demand)

6c. the time rate at which work is done or energy emitted or transferred

Renewable (We Need More Energy!, Let's Rock and Coal, Energy Demand)

2. capable of being replaced by natural ecological cycles or sound management practices

Transmission (Energy Demand)

1. an act, process, or instance of transmitting

Transmitting (Energy Demand)

2a. to cause (something, such as light or force) to pass or be conveyed through space or a medium

Watt (Energy Demand, We Need More Energy!)

the International System of Units' (SI) standard unit of power (energy per unit time)

Energy Efficient Homes

Blackout (Energy Demand, Energy Efficient Homes)

1c. a period of darkness (as in a city) caused by a failure of electrical power

Brownout (Energy Efficient Homes)
a period of reduced voltage of electricity caused especially by high demand and resulting in reduced illumination

Concentration (Energy Efficient Homes)
the amount of a component in a given area or volume

Heat Exhaustion (Energy Efficient Homes)
a condition marked by weakness, nausea, dizziness, and profuse sweating that results from physical exertion in a hot environment

Heat Island (Energy Efficient Homes)
an urban area in which significantly more heat is absorbed and retained than in surrounding areas

Heatstroke (Energy Efficient Homes)
a life-threatening condition marked especially by cessation of sweating, extremely high body temperature, and collapse that results from prolonged exposure to high temperature

Product (Energy Efficient Homes)
the amount, quantity, or total produced

R-value (Energy Efficient Homes)
a measure of resistance to the flow of heat through a given thickness of a material (such as insulation) with higher numbers indicating better insulating properties

Reactant (Energy Efficient Homes)
a substance that enters into and is altered in the course of a chemical reaction

Trash Mountain

Compost (Trash Mountain)
a mixture that consists largely of decayed organic matter and is used for fertilizing and conditioning land

Greenhouse Effect (Trash Mountain)
1. warming of the surface and lower atmosphere of a planet (such as Earth or Venus) that is caused by conversion of solar radiation into heat in a process involving selective transmission of shortwave solar radiation by the atmosphere, its absorption by the planet's surface, and reradiation as infrared which is absorbed and partly reradiated back to the surface by atmospheric gasses

Greenhouse Gas (Trash Mountain, Let's Rock and Coal))

1. any of various gaseous compounds (such as carbon dioxide or methane) that absorb infrared radiation, trap heat in the atmosphere, and contribute to the greenhouse effect

Landfill (Trash Mountain)

1. a system of trash and garbage disposal in which the waste is buried between layers of earth to build up low-lying land

We Need More Energy

Coal (Let's Rock and Coal, How Much Wind Is Enough?, Energy And Its Uses, We Need More Energy!, High Electric Bills)

3a. a black or brownish-black solid combustible substance formed by the partial decomposition of vegetable matter without free access of air and under the influence of moisture and often increased pressure and temperature that is widely used as a natural fuel

Consumption (We Need More Energy!)

2. the use of something

Electric Grid (Energy Demand, How Much Wind Is Enough?, We Need More Energy!, Power Up For EV)

1. a network of synchronized power providers and consumers that are connected by transmission and distribution lines and operated by one or more control centers.

Emission (We Need More Energy!)

1c. putting into circulation

Energy (How Much Wind Is Enough?, Energy Demand, We Need More Energy!)

3. a fundamental entity of nature that is transferred between parts of a system in the production of physical change within the system and usually regarded as the capacity for doing work
4. usable power (such as heat or electricity)

Hydroelectric (From Water To Electricity, Let's Rock and Coal, We Need More Energy!)

1. of or relating to production of electricity by waterpower

Natural Gas (Let's Rock and Coal, How Much Wind Is Enough?, Energy And Its Uses, We Need More Energy!, High Electric Bills)

2. gas issuing from the earth's crust through natural openings or bored wells

Nonrenewable (We Need More Energy!, Let's Rock and Coal)

1. unable to be replaced or replenished once used

Nuclear Energy (We Need More Energy!)

1. energy that is created by splitting apart the nuclei of atoms

Nuclear Fission (We Need More Energy!)

1. a process in which the nucleus of a heavy atom is split apart

Nuclear Fusion (We Need More Energy!)

1. a process in which the nuclei of atoms are joined

Petroleum (Let's Rock and Coal, How Much Wind Is Enough?, Energy And Its Uses, We Need More Energy!)

1. an oily flammable bituminous liquid that may vary from almost colorless to black, occurs in many places in the upper strata of the earth, is a complex mixture of hydrocarbons with small amounts of other substances, and is prepared for use as gasoline, naphtha, or other products by various refining processes

Renewable (We Need More Energy!, Let's Rock and Coal, Energy Demand)

2. capable of being replaced by natural ecological cycles or sound management practices

Watt (Energy Demand, We Need More Energy!)

1. the International System of Units' (SI) standard unit of power (energy per unit time)

From Water to Electricity

Dam (From Water To Electricity)

1a. a barrier preventing the flow of water or of loose solid materials (such as soil or snow)

Evaporation (From Water To Electricity)

1. change from a liquid to a vapor

Hydroelectric (From Water To Electricity, Let's Rock and Coal, We Need More Energy!)

1. of or relating to production of electricity by waterpower

Precipitation (From Water To Electricity)

3a. something precipitated: such as a deposit on the earth of hail, mist, rain, sleet, or snow
also : the quantity of water deposited

Run off (From Water To Electricity)

2. the portion of precipitation on land that ultimately reaches streams often with dissolved or suspended material

Turbine (From Water To Electricity)

1. a rotary engine actuated by the reaction or impulse or both of a current of fluid (such as water, steam, or air) subject to pressure and usually made with a series of curved vanes on a central rotating spindle