

Vocabulary List for “ The Science of Energy ”



RIPPLE ENGLISH

1	power (v)	動かす 動力供給する	英英	supply (a device) with mechanical or electrical energy
			例文	<i>What powers your phone, air conditioners, and your brain is nothing else but energy.</i>
2	satisfactory	満足のいく	英英	fulfilling expectations or needs; acceptable, though not outstanding or perfect
			例文	<i>Even Nobel Prize winners have trouble providing a satisfactory answer to that question.</i>
3	seemingly	外見上は 見たところ	英英	so as to give the impression of having a certain quality; apparently
			例文	<i>They have great trouble providing a satisfactory answer to that seemingly simple question.</i>
4	comprehensive	包括的な 網羅的な	英英	complete; including all or nearly all elements or aspects of something
			例文	<i>We have no ultimate and comprehensive definition of energy.</i>
5	derive	派生する 由来する	英英	obtain something from (a specified source)
			例文	<i>The term “energy” derives from an ancient Greek word “energeia.”</i>
6	abstract	抽象的な	英英	existing in thought or as an idea but not having a physical or concrete existence
			例文	<i>Aristotle has given an abstract definition to this concept; force capable of doing work.</i>
7	ambiguous	あいまいな	英英	open to more than one interpretation; having a double meaning
			例文	<i>It may appear ambiguous and elusive, but he seemed to have grasped the essence of energy.</i>
8	elusive	とらえど ころのない	英英	difficult to remember or recall
			例文	<i>It may appear ambiguous and elusive, but he seemed to have grasped the essence of energy.</i>
9	substance	物質	英英	the real physical matter of which a person or thing consists and which has a tangible, solid presence
			例文	<i>Energy is not about a specific substance or phenomenon.</i>
10	alteration	変化 変更	英英	the action or process of altering or being altered
			例文	<i>Energy is a concept that includes anything that can cause physical or chemical alteration in objects.</i>
11	acceleration	加速 加速度	英英	increase in the rate or speed of something
			例文	<i>Workers constructing a Pyramid carried stones by using their muscles to apply acceleration to them.</i>
12	kinetic energy	運動エネ ルギー	英英	energy which a body possesses by virtue of being in motion
			例文	<i>The thermal energy boils water, and then it was transformed into the kinetic energy of a steam turbine.</i>
13	thermal energy	熱エネ ルギー	英英	heat energy
			例文	<i>The thermal energy boils water, and then it was transformed into the kinetic energy of a steam turbine.</i>
14	undergo	経験する 経る	英英	experience or be subjected to (something, typically something unpleasant, painful, or arduous)
			例文	<i>The water in a kettle is boiling and undergoing a physical transition from liquid to gas.</i>
15	liquid	液体	英英	a substance that flows freely but is of constant volume, having a consistency like that of water or oil
			例文	<i>The water in a kettle is boiling and undergoing a physical transition from liquid to gas.</i>
16	gas	気体	英英	a substance in a state in which it will expand freely to fill the whole of a container, having no fixed shape
			例文	<i>The water in a kettle is boiling and undergoing a physical transition from liquid to gas.</i>
17	gravitational	重力の 重力による	英英	relating to movement toward a center of gravity
			例文	<i>A bicycle on a hilltop possesses gravitational potential energy.</i>
18	molecule	分子	英英	a group of atoms bonded together, representing the smallest fundamental unit of a chemical compound
			例文	<i>Thermal energy is the kinetic energy of vibrating molecules or atoms in a substance.</i>
19	atom	原子	英英	the basic unit of a chemical element
			例文	<i>Thermal energy is the kinetic energy of vibrating molecules or atoms in a substance.</i>
20	convert	変換する	英英	cause to change in form, character, or function
			例文	<i>One energy form can be converted into another.</i>

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21	tracce	たどる 遡る	英英	take (a particular path or route)
			例文	<i>Let us trace the flow of energy that is currently lighting the light bulb in your room back to its source.</i>
22	embed	埋め込む	英英	fix (an object) firmly and deeply in a surrounding mass
			例文	<i>Originally, it was chemical energy embedded in fossil fuel.</i>
23	combustion	燃焼	英英	the process of burning something
			例文	<i>Chemical energy embedded in fossil fuel turned into thermal energy through combustion reactions.</i>
24	power line	送電線	英英	a cable carrying electrical power
			例文	<i>Electric energy travels along power lines to your home.</i>
25	filament	フィラメント、繊維	英英	a slender threadlike object or fiber
			例文	<i>Electric energy is converted into light energy by the filament, lighting your room.</i>
26	petroleum	石油	英英	a liquid mixture of hydrocarbons that can be extracted and refined to produce fuels
			例文	<i>However, not all energy in petroleum is turned into light energy.</i>
27	conservation	保存 不変	英英	the principle by which the total value of a physical quantity or parameter remains constant in a system
			例文	<i>According to the law of the conservation of energy, every form of energy can be turned into another form.</i>
28	proportion	割合 部分	英英	a part, share, or number considered in comparative relation to a whole
			例文	<i>At each conversion, some proportion of energy is transformed into unintended form and scatters away.</i>
29	scatter	撒き散らす	英英	throw in various random directions
			例文	<i>At each conversion, some proportion of energy is transformed into unintended form and scatters away.</i>
30	dissipate	消散する	英英	disappear or cause to disappear
			例文	<i>The thermal energy within the turbine dissipates by heating the surrounding air and the cooling water.</i>
31	fraction	部分 かけら	英英	a small or tiny part, amount, or proportion of something
			例文	<i>A fraction of it is turned into thermal energy due to the resistance of the filament in the light bulb.</i>
32	diminish	減る 減らす	英英	make or become less
			例文	<i>No energy is ever lost in any of these conversions, but the utility of energy has diminished in the process.</i>
33	numerous	多数の	英英	great in number; many
			例文	<i>There are numerous deities around the world that serve as both the highest god and the symbol of the sun.</i>
34	deity	神、女神	英英	a god or goddess (in a polytheistic religion)
			例文	<i>There are numerous deities around the world that serve as both the highest god and the symbol of the sun.</i>
35	radiation	放射能 放射線	英英	the emission of energy as electromagnetic waves or as moving subatomic particles
			例文	<i>Ancient people might have somehow realized that all energy on earth is derived from the sun's radiation.</i>
36	photosynthesis	光合成	英英	the process by which green plants use sunlight to synthesize foods from carbon dioxide and water
			例文	<i>By the process of photosynthesis, they captured solar energy and packed it into organic compounds.</i>
37	compound	化合物	英英	a thing that is composed of two or more separate elements
			例文	<i>By the process of photosynthesis, they captured solar energy and packed it into organic compounds.</i>
38	herbivore	草食動物	英英	an animal that feeds on plants
			例文	<i>Herbivores eat plants to gain solar energy indirectly, and carnivores eat herbivores to do likewise.</i>
39	carnivore	肉食動物	英英	an animal that feeds on flesh
			例文	<i>Herbivores eat plants to gain solar energy indirectly, and carnivores eat herbivores to do likewise.</i>
40	smelt	精錬する	英英	extract (metal) from its ore by a process involving heating and melting
			例文	<i>We stay warm and smelt metals by cutting down trees and using them as fuel.</i>

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41	compress	圧縮する	英英	flatten by pressure; squeeze or press
			例文	<i>Fossil fuels are the compressed preservation of past solar energy.</i>
42	harness	動力化する 活用する	英英	control and make use of (natural resources), especially to produce energy
			例文	<i>Water power harnesses the gravitational potential energy of water that is lifted from the ocean onto land by evaporation.</i>
43	evaporation	蒸発	英英	the process of turning from liquid into vapor
			例文	<i>Water power harnesses the gravitational potential energy of water that is lifted from the ocean onto land by evaporation.</i>
44	geothermal	地熱の	英英	relating to or produced by the internal heat of the earth
			例文	<i>With some exceptions such as geothermal power generation, all sources of energy end up in the sun.</i>
45	hydrogen	水素	英英	the chemical element of atomic number 1
			例文	<i>Within the sun, hydrogen fusion reactions are constantly taking place, transforming hydrogen into helium.</i>
46	fusion	融合	英英	the process or result of joining two or more things together to form a single entity
			例文	<i>Within the sun, hydrogen fusion reactions are constantly taking place, transforming hydrogen into helium.</i>
47	helium	ヘリウム	英英	the chemical element of atomic number 2
			例文	<i>Within the sun, hydrogen fusion reactions are constantly taking place, transforming hydrogen into helium.</i>
48	mass	質量 かたまり	英英	the quantity of matter which a body contains
			例文	<i>Throughout this nuclear fusion reaction, there is a reduction in the total mass.</i>
49	counterintuitive	直感に反した	英英	contrary to intuition or to common-sense expectation (but often nevertheless true)
			例文	<i>It must sound counterintuitive, but this is part of what Einstein unveiled in the Theory of relativity.</i>
50	unveil	明らかにする	英英	show or announce publicly for the first time
			例文	<i>It must sound counterintuitive, but this is part of what Einstein unveiled in the Theory of relativity.</i>
51	Relativity	相対性 (理論)	英英	the dependence of various physical phenomena on relative motion of the observer and the observed objects
			例文	<i>It must sound counterintuitive, but this is part of what Einstein unveiled in the Theory of relativity.</i>
52	static	静止した 静的な	英英	lacking in movement, action, or change
			例文	<i>Mass is actually a static form of energy that represents the 'inertia' of an object.</i>
53	inertia	慣性	英英	tendency to do nothing or to remain unchanged
			例文	<i>Mass is actually a static form of energy that represents the 'inertia' of an object.</i>
54	equivalent	等しい 等価な	英英	equal in value, amount, function, meaning, etc
			例文	<i>As Einstein discovered, mass is equivalent to energy and they are interchangeable.</i>
55	interchangeable	交換可能な	英英	(of two things) able to be interchanged
			例文	<i>As Einstein discovered, mass is equivalent to energy and they are interchangeable.</i>
56	proportional	比例した 釣り合った	英英	corresponding in size or amount to something else
			例文	<i>Every loss of mass results in the release of energy proportional to the square of the speed of light.</i>
57	collision	衝突	英英	an instance of one moving object or person striking violently against another
			例文	<i>The collision of neutrons with uranium-235 triggers a chain reaction of nuclear fission.</i>
58	neutron	中性子	英英	a subatomic particle of about the same mass as a proton but without an electric charge
			例文	<i>The collision of neutrons with uranium-235 triggers a chain reaction of nuclear fission.</i>
59	uranium	ウラン	英英	the chemical element of atomic number 92
			例文	<i>The collision of neutrons with uranium-235 triggers a chain reaction of nuclear fission.</i>
60	fission	分裂 核分裂	英英	the action of dividing or splitting something into two or more parts
			例文	<i>The collision of neutrons with uranium-235 triggers a chain reaction of nuclear fission.</i>
61	relentless	絶え間ない 容赦ない	英英	oppressively constant; incessant
			例文	<i>Physicists around the world are still in the midst of a relentless pursuit of the essence of energy.</i>