

Who Discovered Electric Current

The Electric Company (2009 TV series) Each story revolves around the Electric Company, a group of tween and teen literacy heroes who battle a group of neighborhood vandals dubbed The Electric Company is an American educational children's television series produced by Sesame Workshop and developed by Karen Fowler. R&B-style music. The series also aired reruns on HBO Kids on HBO Family from January 1, 2016, until November 1, 2020, as part of HBO's deal with Sesame Workshop. It is a reboot of the 1971 series of the same name. On some services, the series is called The New Electric Company to distinguish it from the 1971–77 series. The series aired on PBS Kids from January 23, 2009, to April 4, 2011 with reruns continuing on PBS until August 31, 2014

Telluric current A telluric current (from Latin tellūs 'earth'), or Earth current, is an electric current that flows underground or through the sea, resulting from natural A telluric current (from Latin tellūs 'earth'), or Earth current, is an electric current that flows underground or through the sea, resulting from natural and human-induced causes. These currents exhibit diurnal patterns, flowing towards the Sun during the day and towards the geomagnetic poles at night. Earth's crust and mantle are host to telluric currents, with around 32 mechanisms generating them, primarily geomagnetically induced currents caused by changes in Earth's magnetic field due to solar wind interactions with the magnetosphere or solar radiation's effects on the ionosphere. These currents have extremely low frequency and traverse large areas near or at Earth's surface

== Evolution ==

Electric charge were discovered, a positive charge was defined by Benjamin Franklin as the charge acquired by a glass rod when it is rubbed with a silk cloth. An object with no net charge is referred to as electrically neutral. Electric charge can be positive or negative. Early knowledge of how charged substances interact is now called classical electrodynamics, and is still accurate for problems that do not require consideration of quantum effects. Electric charges Electric charge (symbol q , sometimes Q) is a physical property of matter that causes it to experience a force when placed in an electromagnetic field. Like charges repel each other and unlike charges attract each other

Charge is quantized: it comes in integer multiples of individual small units called the elementary charge, e , about 1.602×10^{-19} C, which is the smallest...

Heliospheric current sheet The thickness of the current sheet is about 10,000 km (6,200 mi) near the orbit of the Earth. A small electrical current with a current density of about 10–10 A/m² flows within this surface, forming a current sheet confined to this surface. Ness, who published their finding in 1965. The heliospheric current sheet was discovered by John M. 10–10 A/m² (10–4 A/km²). Hannes The heliospheric current sheet, or interplanetary current sheet, is a surface separating regions of the heliosphere where the interplanetary magnetic field points toward and away from the Sun.

Wilcox and Norman F. The shape of the current sheet results from the influence of the Sun's rotating magnetic field on the plasma in the interplanetary medium d6166ea84c

In an isolated system, the total charge stays the same - the amount of positive charge minus the amount of negative charge does not change over time. Electric charge carriers include subatomic particles. In ordinary matter, negative charge is carried by electrons, and positive charge is carried by the protons in the nuclei of atoms. If there are more electrons than protons in a piece of matter, it will have a negative charge, if there are fewer it will have a positive charge, and if there are equal numbers it will be neutral. d6166ea84c The presence of either a positive or negative electric charge produces an electric field. The motion of electric charge carriers is an electric current and produces a magnetic field. In most applications, Coulomb's law determines the force acting on an electrically charged particle. Electric potential is the work done to move an electric charge from one position to another within an electric field, typically measured in volts. d6166ea84c

Electric organ (fish) In biology, the electric organ is an organ that an electric fish uses to create an electric field. Electric organs are derived from modified muscle or In biology, the electric organ is an organ that an electric fish uses to create an electric field. Electric organs are derived from modified muscle or in some cases nerve tissue, called electrocytes, and have evolved at least six times among the elasmobranchs and teleosts. These fish use their electric discharges for navigation, communication, mating, defence, and in strongly electric fish also for the incapacitation of prey d6166ea84c

They are nocturnal, obligate air-breathing animals, with poor vision complemented by electrolocation; they mainly eat fish. Electric eels grow for as long as they live, adding more vertebrae to their spinal column. Males are larger than females. Some captive specimens have lived for over 20 years. d6166ea84c Despite their name, electric eels are not closely related to the true eels (Anguilliformes) but are members of the electroreceptive knifefish order Gymnotiformes. In 2019, electric eels were split into three species: for more than two centuries before that, the genus was believed to be monotypic, containing only *Electrophorus electricus*. d6166ea84c

Birkeland current g. The strength of the Birkeland currents changes with activity in the magnetosphere (e. A Birkeland current (also known as field-aligned current, FAC) is a set of electrical currents that flow along geomagnetic field lines connecting the Earth's A Birkeland current (also known as field-aligned current, FAC) is a set of electrical currents that flow along geomagnetic field lines connecting the Earth's magnetosphere to the Earth's high latitude ionosphere. during substorms). Small scale variations in the upward current sheets (downward flowing electrons) accelerate magnetospheric electrons which, when they reach the upper atmosphere, create the Auroras Borealis and Australis. In the Earth's magnetosphere, the currents are driven by the solar wind and interplanetary magnetic field (IMF) and by bulk motions of plasma through the magnetosphere (convection indirectly driven by the interplanetary environment) d6166ea84c

Both telluric and magnetotelluric methods exploit these currents for subsurface exploration, aiding in activities like geothermal and mineral exploration, petroleum prospecting, fault zone mapping, groundwater assessment, and the study of tectonic plate boundaries. The phenomenon has also captured the imagination of authors, finding its way into fiction. In Umberto Eco's *Foucault's Pendulum*, the search for a mystic center of the Earth connects to telluric currents, while Thomas Pynchon's *Mason & Dixon* incorporates...
In the high latitude ionosphere (or auroral zones), the Birkeland currents close through the region of the auroral electrojet, which flows perpendicular to the local magnetic field in the ionosphere. The Birkeland currents occur in two pairs of field-aligned current sheets. One pair extends from noon through the dusk sector to the midnight sector. The other pair extends from noon through the dawn sector to the midnight sector. The sheet on...
== Characteristics ==
The study of electrical phenomena...

Electric motorcycles and scooters
Electric motorcycles and scooters are plug-in electric vehicles with two or three wheels. Power is supplied by a rechargeable battery that drives one or more electric motors. Electric scooters are distinguished from motorcycles by having a step-through frame, instead of being straddled. Electric bicycles are similar vehicles, distinguished by retaining the ability to be propelled by the rider pedaling in addition to battery propulsion. Power is supplied by a rechargeable battery that drives one or
Electric motorcycles and scooters are plug-in electric vehicles with two or three wheels

Electric eel
They are known for their ability to stun their prey by generating electricity, delivering shocks at up to 860 volts. The electric eels are a genus, *Electrophorus*, of neotropical freshwater fish from South America in the family Gymnotidae, of which they are the only members
The electric eels are a genus, *Electrophorus*, of neotropical freshwater fish from South America in the family Gymnotidae, of which they are the only members of the subfamily Electrophorinae. Their electrical capabilities were first studied in 1775, contributing to the invention of the electric battery in 1800

Electricity plays a central role in many modern technologies, serving in electric power where electric current is used to energise equipment, and in electronics dealing with electrical circuits involving active components such as vacuum tubes, transistors, diodes and integrated circuits, and associated passive interconnection technologies.
The new version has similar short animations, parodies, sketches, and music videos to those seen in the original show, but each episode also features a story line designed to teach four to five vocabulary words with a mix of hip-hop or contemporary R&B-style music.
== Research history ==

Electricity
Electricity is related to magnetism, both being part of the phenomenon of electromagnetism, as described by Maxwell's equations. In most applications Electricity is the set of physical phenomena associated with the presence and motion of matter possessing an electric charge. electric charge produces an electric field. Common phenomena are related to electricity, including lightning, static electricity, electric heating, electric discharges

and many others. The motion of electric charge carriers is an electric current and produces a magnetic field d6166ea84c

The electric organs of two strongly electric fish, the torpedo ray and the electric eel, were first studied in the 1770s by John Walsh, Hugh Williamson, and John Hunter. Charles Darwin used them as an instance of convergent evolution in his 1859 *On the Origin of Species*. Modern study began with Hans Lissmann's 1951 study of electroreception and electrogenesis in *Gymnarchus niloticus*.

d6166ea84c Electric motors can be powered by direct current (DC) sources, such as from batteries or rectifiers, or by alternating current (AC) sources, such as a power grid, inverters or electrical generators. Electric motors may also be classified by considerations such as power source type, construction, application and type of motion output. They can be brushed or brushless, single-phase, two-phase, or three-phase, axial or radial flux, and may be air-cooled or liquid-cooled. d6166ea84c == History == d6166ea84c Standardized electric motors provide power for industrial use. The largest are used for marine propulsion, pipeline compression and pumped-storage applications, with output exceeding 100 megawatts. Other applications include industrial fans, blowers and pumps, machine tools, household appliances... d6166ea84c Each story revolves around the Electric Company, a group of tween and teen literacy heroes who battle a group of neighborhood vandals dubbed the Pranksters. The heroes' headquarters is the Electric Diner, where their friend Shock, a beat-boxing short-order cook who also appears in the short-form segments, resides. d6166ea84c == Premise == d6166ea84c In a nod to the original series, each episode... d6166ea84c

Electric motor magnetic field and electric current in a wire winding to generate Lorentz force in the form of torque applied on the motor's shaft. Most electric motors operate through the interaction between the motor's magnetic field and electric current in a wire winding to generate Lorentz force in the form of torque applied on the motor's shaft. An electric generator is An electric motor is a machine that converts electrical energy into mechanical energy. An electric generator is mechanically identical to an electric motor but operates inversely, converting mechanical energy into electrical energy d6166ea84c

Electric scooters with the rider standing are known as e-scooters. d6166ea84c

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