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Chapter 1 : Renewable Energy System Incentive Program

Let us call this "massless and force-free energy" the precursor energy - i.e., the precursor energy (of space itself) for what has been called "kinetic energy" and "static energy" of an object (mass) or a material system.

Therefore, these companies then donate millions of dollars to governments bribing them to make sure that free energy devices stay out of the public market. Tactics and means of suppression include buying the patent of the free energy device from the inventor or his family, suing the inventor or patent holder and even murdering the inventor in some cases. Based on the principles of capitalism, free energy cannot be allowed. The traditional economic system contains three aspects: Within the aspects of capital are three subcomponents: Natural capital comprises raw material and energy. This differs considerably from the orthodox definition of capital in economics. Capital is theoretically a fully-controlled component of general economics. Currently, all components are fully monitored and managed. Introducing free energy into the economic equation would have the same economic effect as giving everyone access to the natural capital, which would destroy or severely undermine the entire basis of the capitalist economic system because control over currency and credit would be reduced. F Quote-In the United States, any such acts in suppression of the technology are in violation of the U. Civil Rights Act, under which any U. It is of special importance that these documented facts of past and present FREE energy suppression cases are disclosed in detail to the public. Suppression takes many forms: Denial of patents and intellectual property protection by systematic action by the US and other patent offices. Seizure or suppression of the technology by the illegal application of section of the US Patent law or other illegal applications of national security provisions that result in the technology being classified or deemed "of significance to the national security". Targeting the inventor or company with financial scams, illegal financial arrangements that lead to the demise of the company, and similar traps. Systematic interception of funds and essential financial support needed to develop and put into mass application such a fundamental new energy source. A pattern of harassment, bomb-threats, theft and other shadowy actions that frighten, intimidate and demoralize those inventing, holding or developing such technologies; significant bodily harm and murder have also apparently occurred. Inducements through significant financial buy-outs, offers of positions of power and prestige and other benefits to the owner of such technologies to secure their cooperation in suppressing such technologies. Scientific establishment prejudice and rejection of the technology in light of unconventional electromagnetic effects thought to be not possible by current scientific conventional wisdom. Corruption of scientific entities and leaders through clandestine liaisons with rogue classified or shadowy private projects that intend to suppressuch devices. Corruption of major media entities and key figures through clandestine liaisons with rogue classified or private shadowy projects that intend to suppress such devices. Additionally to what is presented here, Panacea has organization to publicly disclose certain open source suppressed energy prototypes. These disclosures will accompany essential evidence based facts of FREE energy suppression to further help educate the public. To this day educational institutions and the media have not shown enough interest into energy suppression, plus they are not aware of the complete detail. There is financial motifs for suppression attached to this technology, however it is not that easy for them to keep this from the public. This issue is related to child abuse. The complete details of the deaths of the inventors and the suppression of their FREE energy devices is so vast and overwhelming that could take up to 3 times the content of this site. Before presenting our media script, for introductory purposes Panacea will present the following excerpt by the The Orion Project. The Orion Project has none the less played a role in publicly educating and disclosing various related social and political issues on this subject. Greer MD the Co- founder of The Orion Project and the disclosure project already publicly disclosing suppressed energy facts to the world press club with evidence from over witnesses, his success has been limited in momentum to say the least. Panacea will present a portion of these disclosures later in our media script. The following is a strategic overview taken from the The Orion Project site. Witnesses and documented records are available to establish the following facts. Research shows

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that over the past 75 years a number of significant breakthroughs in energy generation and propulsion have occurred that have been systematically suppressed. Since the time of Tesla, T. Townsend Brown and others in the early and mid-twentieth century we have had the technological ability to replace fossil fuel, internal combustion and nuclear power generating systems with advanced non-polluting electromagnetic and electro-gravity systems. The open literature is replete with well-documented technologies that have surfaced, only to later be illegally seized or suppressed through systematic abuses of the national security state, large corporate and financial interests or other shadowy concerns. Technologically, the hurdles to achieve what is called over-unity energy generation by accessing the teeming energy in the space around us are not insurmountable. Numerous inventors have done so for decades. What has been insurmountable are the barriers created through the collusion of vast financial, industrial, oil and rogue governmental interests. In short, the strategic barriers to the widespread adoption of these new electromagnetic energy-generating systems far exceed the technological ones. The proof of this is that, after many decades of innovation and promising inventions, none have made it through the maze of regulatory, patenting, rogue national security, financial, scientific and media barriers that confront the inventor or small company. Categories of Suppression Our review of now-obscure technological breakthroughs show that these inventions have been suppressed or seized by the following broad categories of actions: Note that these applications are illegal actions taken by rogue, unsupervised individuals and entities who are working in collusion with interests to suppress these technologies. A pattern of harassment, bomb-threats, theft and other shadowy actions that frighten intimidate and demoralize those inventing, holding or developing such technologies; significant bodily harm and murder have also apparently occurred. Corruption of scientific entities and leaders through clandestine liaisons with rogue classified or shadowy private projects that intend to suppress such devices. A small inventor or company can in no way overcome such obstacles. Therefore, a strategic plan and capability commensurate with these barriers must be devised and executed in order for these new technologies to succeed. Implications of success as the widespread adoption of these new, non-polluting energy and propulsion systems so that the use of oil, gas, coal, nuclear power and other earth damaging sources of energy are effectively replaced. It should be noted that such an undertaking will impact 4. It is safe to say that the advent of such new energy systems will be the greatest technological, industrial, geopolitical and Cultural Revolution in known human history. No aspect of life on Earth will be unaffected by it - and this is precisely why such technologies have been suppressed. The cartels and interests that prefer to see the status quo continue - even at the cost of environmental erosion, destabilizing world poverty and the like - are very substantial. The idea that an inventor or company can simply roll out such technological breakthroughs as a traditional development and succeed is preposterous. They will be stopped at one step or another unless adequate funding, power and inter-locking strategic capabilities exist to ensure success. In short, the normal business and technological challenges to the successful release of a new technology are dwarfed by the special circumstances and barriers facing these new energy systems. These significant technological breakthroughs that have been suppressed range from modifications of the internal combustion engine to get significantly higher miles per gallon to new electromagnetic generating systems that extract energy from the so-called Quantum vacuum. Current intelligence gathered by The Disclosure Project and AERO indicates that a shadowy operation connected to covert government and intelligence programs but run primarily by US and foreign corporate interests have resulted in this suppression. Actions taken to effect secrecy and to neutralize the public availability of these technologies - which by now could have completely replaced the need for fossil fuels - include: It is clear that human society will continue to be harmed by the deliberate and illegal withholding of such technologies and that a thoroughly documented and sourced Disclosure of the matter is urgently needed. The widening gap between poor and rich nations, the worsening situation in the Middle East and elsewhere, the relentless decay in the environment, global warming, intractable world poverty and many other pressing problems facing humanity are directly related to the suppression of these energy breakthroughs. We call on all concerned citizens to assist us in identifying and securing the cooperation of the following: Scientists and Inventors of

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high credentialed credibility who have been the target or victim of such suppression; Corporate Whistleblowers who have observed or been part of the acquisition or suppression of such technologies; Government, military and intelligence whistleblowers who have witnessed or been part of such actions. Even to the present day Dr Greer continues to address the public and present evidence relating to these issues to the press. However their interest in this evidence continues to be zero!. Any decisive action and the needed organization for a public lobby to address these issues has stagnated. These testimonials are intended to stand up in court regarding the cases of energy suppression. Matthew Carson taken from the Open Source Energy Network introduction to the video footage Despite this evidence the mainstream media and government have shown no interest. The following article is by Sterling D. Steven Greer, and were underwritten with sizeable funds for high-quality production. They were prepared to serve as testimony that will stand up in court. They document the fact, both that there are viable new energy technologies which could rid us of our dependence on polluting fossil fuels, and that there have been active efforts in suppressing these. Explosively, these videos reveal names and tactics of this Luddite resistance against scientific progress. Each video is between 45 minutes and an hour in length. These videos are sure to become hot items among those who track developments in this field. Many have been frustrated by the lack of progress for so many years, knowing that we could have had some of these technologies over a century ago were it not for the oil and business cartel that actively snuffed it out. Their blockade against both scientific progress and information began with their snubbing of Nikola Tesla, one of the most brilliant inventors of all time. For many decades, he was barely mentioned -- if at all -- in our schools and history books. You would think that the man who brought us AC. But because he wanted to make energy available for free -- wirelessly broadcast worldwide without metering or billing, accessed by a simple receiver device which did not need to be plugged into any socket or wired grid -- he was de-funded, and publicly scorned. A device he developed to power a car using energy from the vacuum was likewise quashed, and nearly forgotten. The work of Tesla is a common theme in these affidavit video interviews. Their combined witness provides a powerful impetus for us to put pressure on our elected officials and demand that they to support the development and penetration into the marketplace of clean energy devices and infrastructure -- with the same vigor with which they approached the Manhattan project or the Apollo Project. As a sampling from the seven videos, Lt. Tom Bearden says that the scientific community must stop snubbing these technologies, and that their doing so has very little to do with science, and very much to do with the politics of science. Bearden warns that if we do not do something of this magnitude, but only continue to give marginal attention to this matter through token legislation and half-hearted scientific dabbling, then the handwriting on the wall spells our doom. None of this need happen, if the alternatives are developed with all speed, says Bearden. Intended to be legally respected in Supreme Courts around the world, these video testimonies were also designed to be presented to the court of public opinion with the hope that once the general mass of people are awakened to the facts, the grassroots pressure and consumer demand for new energy technology will be unstoppable. Such a groundswell will influence the scientific community to cease politically-driven snubbing, not least because some among them are in favor of this overdue paradigm shift but in the past -- due to peer pressure and the threat of blacklisting -- they have not been free to speak out. Then the politicians will have to give clean energy the priority status it demands. The private sector can do a huge amount to reverse the present disastrous course. In launching their new website today, the Open Source Energy Network hopes to also launch another revolution -- the open sourcing of energy technologies Rather than penury, secrecy and cutthroat battles over patents, the model of co-operation offers to researchers and inventors the best way to beat the suppression of these long-overdue developments and gain sufficient support to achieve optimum results. With the combined efforts of many trained and creative minds, the extracting of clean, free, renewable, and inexhaustible energy -- whether it be from the sun, wind, tide, geothermal, from the vacuum of space, or from properties of magnetism and inter-planetary and inter-stellar electricity not yet fully understood -- will be realized in our generation. The Panacea media script page is aimed to serve as a basic assessment into the relative content. Following this is

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essential web archived reports which cover on going FREE energy suppression in detail. Panacea would like the help of any professional independent film documentary maker to help edit our media script material. They arent really from the government, and cannot arrest you, take your property, or audit your taxes.

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Chapter 2 : List of books about renewable energy - Wikipedia

Free energy suppression (or new energy suppression) is a conspiracy theory that technologically viable, pollution-free, no-cost energy sources are being suppressed by government, corporations, or advocacy groups.

Pogue was issued a Canadian patent - - for a High Mileage Carburetor. Pogue used the carburetor for about ten years on his car and produced about carburetors thru the Economy Carburetor Co. Actual copies of the following three test reports plus a drawing of the Pogue carburetor can be viewed at <http://www.poguecarburetor.com>. In early T. Under 10 mph the operation was much smoother than a standard carburetor. In April 30, Ford Motor Company, Winnipeg, Manitoba, Canada tested the Pogue carburetor and was at "a loss to understand" how the carburetor got "Purdy" conducted the test for Ford Motor Company. Stockhammer tested the Pogue carburetor on a Ford V-8 Coupe and got 28 miles per pint of gas. In CARS magazine stated that in the opening months of , Pogue panicked the Toronto stock exchange and threw fright into the major oil companies. Stock exchange offices and brokers were swamped with orders to dump all oil stock immediately. In Arthur C. Contact was made through his brother, William J. This price is too high. I remember gasoline was a little cheaper then. Pogue was still alive at age 81 and was living in a rest home in Winnipeg, Canada. He refused to talk to anyone or to receive visitors from outside his own family. Perhaps some university mechanical engineering students can be funded to replicate the Pogue carburetor as a laboratory exercise and then measure its performance. An email correspondent of Gary Vesperman wrote June 11, that, before he got involved with an electronic mileage booster two years ago, he checked the Internet and both Consumers Union and the Department of Energy lambasted all previous fuel optimizers. DOE listed about 75 of them they tested and which did not really work. Of course they say that. I think the Pogue carburetor was the one that worked until lead was added to gasoline, and it was this additive that clogged up the device and prevented the mileage gain. The addition of lead to gasoline resulted in widespread permanent environmental pollution of millions of pounds of poisonous, brain deadening lead. One lesson the professor gave was a study he had conducted of the extent of lead poisoning. I used his research results as the basis of a "letter to the editor" which was published in Business Week magazine in I am not sure if I have the dimensions correct, but it went like this: Residents of northern Wisconsin were found to have 0. Residents of the northern suburbs of Chicago had 1 microgram of lead per cc of blood. Residents of downtown Chicago had 4 micrograms of lead per cc of blood. The fatal level is about 6 micrograms of lead per cc of blood. So I postulated that in another decade or so, rising levels of lead in blood would result in greatly increased mortality rates among downtown Chicago people since they evidently were already two-thirds dead. Weeks later, by coincidence? Some people claim there is a so-called "law of unintended consequences". The platinum dust hazard from catalytic converters is another awful example of this "law". Maybe it is time for me to once again try to rouse the rabble? He was using the Kendig Variable Venturi carburetor that a small company name unknown had manufactured in Los Angeles for racing cars. His car had reduced pollution and doubled the gas mileage for that model. This may have been suppression conducted by the Air Resources Board. Moray demonstrated before the members of the Public Utilities Commission in Utah? The next day he was found shot in his lab and all of his notes and device were stolen. Thus O 3 electrostatics can be used not only for modeling "normal" electrodynamic but also for modeling "exotic" unified field theory. Being old, he stumbled and fell on the steps just as the assassin pulled the trigger. The bullet snapped right by his ear, where his head had just been. Thereafter, Sweet was always deeply paranoid about taking the unit outside his own apartment or continuing to develop it. Again, I personally worked with Sweet for some years. A well-dressed gentleman in an expensive suit, tie, hat, and hundred-dollar shoes approached Sweet on the sidewalk of the street where he lived and introduced himself as Cecil Brown. Brown showed Sweet a picture of Sweet inside his apartment. Brown further stated that sometimes unfortunate things happen to people who do not comply with the wishes of others. Brown then retrieved the picture and departed. The present author has had his own share of such shenanigans, close calls and

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suppressions, more than a dozen times, but does not wish to publicize the incidents. He would fund the entire project. Our agreement was verbally reached on a Thursday afternoon, late. That night a jet arrived posthaste from Los Angeles, with a Yakuza on board. The next morning Kawai and his party were in fear and trembling, and the Yakuza was in total control. Kawai no longer controlled his own company, his invention or his own fate. Needless to say, the Yakuza coldly cancelled the agreement, point blank. This happened in front of my associates and me, so there are multiple witnesses. The Yakuza and party quickly packed up the two Kawai engines in our possession and departed. No Kawai engine will ever be permitted on the world market. Many such incidents - including murder - have occurred over the last decades, right here in the United States. Water-to-Gasoline Additive In May, John Andrews, a Portugese chemist, demonstrated a water-to-gas additive before Navy officials which allowed ordinary water to be added to gasoline without decreasing the combustability of the gas and would drive the cost of gasoline down to 2 cents per gallon. When Navy officials finally went to his lab to negotiate for the formula, they found Andrews missing and his lab ransacked. The media witnessed a test of a 4,pound Ford Galaxie which was driven miles on less than two gallons of gasoline. Ogle predicted that an economy four-cylinder engine would achieve to miles per gallon. A Shell Oil Co. Ogle responded "I would not be interested". Argosy even ceased publication shortly after the article published. Between pages see [http: The Library of Congress](http://The Library of Congress), in September , did not have a copy of this book. It was missing from their files, of course. Byron Wine bought a copy from Maryland Book Exchange around after a professor informed him that it was used as an engineering text at the University of West Virginia. They stopped when Belland received telephone threats to be fitted with a pair of cement boots. For story see [http: In June 17, Edwin V.](http://In June 17, Edwin V.) The engine starts off of two car batteries and once it gets going, it recharges the batteries and powers the car. Unfortunately, Evgray Enterprises had become embroiled in a controversy with the Securities Exchange Commission, which is unrelated to the engine itself but had halted the development of the engine. Gray of Van Nuys, CA, for his patent of a free energy automobile engine. The device operates by capturing "fluctuation voltage" the static noise heard on radios and amplifiers. The rooftop device would be heated by the sun and use millions of microcircuits to tap the freed electrons from heated molecules. Yater took his device to the Government, which declared that his device had "real potential". After promising him a working model within 6 months, the US Government came back to him with the reply that the device would be impractical. The US government then classified his patent and this prevented him from developing his device. The US Patent Office has unfairly classified energy patents. Their helpless inventors will be jailed for 20 years if they work on, develop, make, sell, write about, or even simply talk about their inventions. Johnson spent six years fighting the patent office to accept the reality of his magnet motor. In April 24, Mr. Johnson finally got a US patent - - for a free energy motor that starts itself and would deliver 5 kilowatts from permanent magnets. Box , Blacksburg, Virginia In spring of Science and Mechanics magazine published an interview with Mr. Johnson regarding the Johnson free energy motor. It is simple to construct and yields high output. Bruce DePalma, inventor of the "N Machine" so-called "free energy" presents an update on its development including U. Navy development, a letter by U. He dealt with "New Age" topics and was taken off the air. Here he discusses the program and his adventures since, including a near arrest on treason charges for preparing to market a free energy machine. Box 11, Carthage, Missouri ; patent process on hold, though he has over two hundred others. Diggs developed at an inventors workshop I. Liquid electricity violated a number of the well known physical laws that the inventor pointed out. While Reagan stalled on acid rain, and Hodel pushed offshore drilling, the US Patent Office continued to block commercial development of this latest of many government-smothered free energy devices. Newman sued the patent office for refusing to grant his machine a patent, in violation of their own regulations and the advice of the expert they chose to examine the device.

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Chapter 3 : History Of 'New Energy' Invention Suppression Cases

By 'free energy,' we refer to energy systems that tap into inexhaustible, ubiquitous, and clean sources of energy generation, such as solar, wind, tide, and geothermal, but also non-conventional avenues such as zero point energy, radiant energy, cold fusion, and magnet motors.

December 06, , At least such a possibility should be considered, and then if all the facts warrant questioning the autopsy finding of death from natural causes, the incident should be more deeply investigated. DeGeus was found slumped in his car in the long term parking area of the airport, totally unresponsive. He was rushed to the hospital, and was pronounced dead very quickly, according to www. Hence police are not investigating it any further, and they are not considering it as a possible homicide. It is actually powered by the ongoing and continuous tremendous exchange of energy by the active vacuum with the charges of any material. This exchange is exceptionally powerful, and normally our electromagnetic systems and devices only use just a tiny bit of it. In the absence of the current the electrons are moving in all directions. As many are moving from left to right as are moving from right to left; and the nothingness which is there is composed of two equal and opposite halves, about a million million amperes per square centimeter in one direction, and a million million amperes per square centimeter in the other direction. The telephone current constitutes an upsetting of the balance to the extent of one hundredth of a millionth of an ampere per square centimeter, or about one part in a hundred million million million. Then if this one part in a hundred million million million is at fault by one part in a thousand, we ring up the telephone company and complain that the quality of the speech is faulty. Swann, Physics Today, June. This continual giant energy interaction of every charge with the seething vacuum is already well-known in modern quantum field theory. A Little Corroborating Information Indeed, I found an obscure bit of information that seems directly related to proving the concept. We urge other investigators to further investigate this effect. In addition, when the positive and the negative electrodes of a tourmaline crystal were connected to each other, it was proven to show low electricity of 0. At any rate, altering the layering characteristics of the wafer material used by DeGeus provides a broken symmetry in its usual equal-and-opposite cross currents. This asymmetry results in the little DeGeus solid state wafer pouring out a net steady lateral DC current at a given steady voltage. So when we have a power supply using the normal proven asymmetry of opposite charges its dipolarity , it will be receiving input energy from the virtual state vacuum, cohering it to quantum size, and emitting it as real, observable EM energy. The novelty was that the inventor had discovered how to build these wafers extremely cheaply " couple bucks each for a small one, with an assembly of them for greater power just requiring multiples of the basic cost. He is believed to have been from a well-to-do European family with significant assets in South America. His family is reported to have claimed the body and officially tied up all his assets, effects, records, etc. The legal ongoings are likely to permanently suppress any and all technical lab notes, descriptions, etc. Unknown to the authorities investigating his death, DeGeus was on his way to Europe to receive very substantial funding to put his invention into mass production and marketing. In short, a car also without harmful emissions that damage and pollute the biosphere and contribute to global warming. Use of a larger DeGeus battery, together with an alternator, would also produce a self-powering unit capable of powering the average home with AC power. Many other applications are obvious, as is also the tremendous impact of such a developed technology upon our present consumption of hydrocarbon fuels, nuclear fuel rods, etc. While we cannot definitively answer that question, we can explain exactly how such an assassination could have been done, which would have given the victim a massive heart attack or stroke or both, resulting in his death. There are two basic sizes: One is about the size of a dime-store pocketbook, and has an effective range of something like 30 feet or so. The other is the size of a bazooka shoulder-held rocket launcher and its beam is effective at a range of about feet or so. It also is often used with infrared sighting, to fire through a wall at a person say, in a room on the second floor by aiming at his infrared change and signature detected outside the building. A person struck by this

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Venus-technique warped wavefront beam has a sudden interruption of all control of his heartbeat, and so his heart goes into instant, uncontrolled, and violent fibrillation. Exposure to the main beam for 10 seconds or more is almost certain to result in death of the individual, by a resulting massive heart failure, stroke, or both. My colleague Ken Moore and I were struck with just such a beam from a small Venus beam shooter, in the inside breast coatpocket of the assassin, in a restaurant here in Huntsville several years ago. We both felt the beam and the instant fibrillation. I personally saw the assassin, about 20 feet away from us and well-dressed in suit and tie, pull back his coat front and point that book-sized shooter at us. Fortunately we were seated right beside the emergency exit from the dining room, and I knew about Venus technique shooters and their drastic effects. So we just immediately jumped right through that exit, setting off all the alarms, but getting out of the beam in just a few seconds. So we lived to tell the tale. If this were indeed used in the DeGeus death case, it would have been very simple for the assassin to simply approach him while he was still sitting in his just-parked car, hit him with the beam and hold it on him for, say, 30 seconds to a minute, then close his coat and simply walk away. And no one would have been the wiser, till the victim was found by someone in his car, either dead or dying. The reader will have to make up his own mind as to what probably really happened, and whether it was truly an act of nature a normal heart attack or a deliberately induced heart failure an assassination using the standard Venus shooter. Other Similar Incidents There are of course other incidents similar to this. Simply Google on the web, for many articles on Stan Meyer, his invention, the threats to his life, and his strange death. An Australian researcher and friend of mine also had a colleague who was assassinated in an upstairs room by a shot from the street below, using the larger bazooka-sized Venus shooter. The other persons there actually observed the assassin load the bazooka-shaped shooter back into his vehicle and speed away. In Conclusion All we can state for certain is that 1 lots of inventors of successful watargas, self-powering systems, etc. So I have a corroborating witness. Nonetheless, the interested reader will have to take it from there and draw his or her own conclusions about the DeGeus incident. Was it just a curious natural heart attack, or was it a deliberate assassination? Hopefully time will tell. We MUST protect our scientists!!! Perhaps, they as well as we can "invent" a way to get rid of these scummy idiotic elites once and for all!!
Logged There is no right in war

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Chapter 4 : Free energy suppression conspiracy theory - Wikipedia

This is the third version of my compilation of specific energy suppression cases. This time I decided to get serious. I thoroughly reviewed my own files and a few web sites pertaining to energy suppression. Deleted were some cases.

What are the benefits of renewable energies and how do they improve our health, environment, and economy? These gases act like a blanket, trapping heat. In the United States, about 29 percent of global warming emissions come from our electricity sector. Carbon dioxide CO₂ is the most prevalent greenhouse gas, but other air pollutants such as methane also cause global warming. Different energy sources produce different amounts of these pollutants. To make comparisons easier, we use a carbon dioxide equivalent, or CO₂e the amount of carbon dioxide required to produce an equivalent amount of warming. In contrast, most renewable energy sources produce little to no global warming emissions. The comparison becomes clear when you look at the numbers. Burning natural gas for electricity releases between 0. Different sources of energy produce different amounts of heat-trapping gases. As shown in this chart, renewable energies tend to have much lower emissions than other sources, such as natural gas or coal. Increasing the supply of renewable energy would allow us to replace carbon-intensive energy sources and significantly reduce US global warming emissions. For example, a UCS analysis found that a 25 percent by national renewable electricity standard would lower power plant CO₂ emissions million metric tons annually by the equivalent of the annual output from 70 typical MW new coal plants [4]. Improved public health The air and water pollution emitted by coal and natural gas plants is linked with breathing problems, neurological damage, heart attacks, cancer, premature death, and a host of other serious problems. The pollution affects everyone: Wind, solar, and hydroelectric systems generate electricity with no associated air pollution emissions. In addition, wind and solar energy require essentially no water to operate and thus do not pollute water resources or strain supplies by competing with agriculture, drinking water, or other important water needs. Biomass and geothermal power plants, like coal- and natural gas-fired power plants, may require water for cooling. Hydroelectric power plants can disrupt river ecosystems both upstream and downstream from the dam. A relatively small fraction of US electricity currently comes from these sources, but that could change: In fact, a major government-sponsored study found that clean energy could contribute somewhere between three and 80 times its levels, depending on assumptions [8]. And the previously mentioned NREL study found that renewable energy could comfortably provide up to 80 percent of US electricity by Jobs and other economic benefits Two energy workers installing solar panels. Solar panels need humans to install them; wind farms need technicians for maintenance. This means that, on average, more jobs are created for each unit of electricity generated from renewable sources than from fossil fuels. Renewable energy already supports thousands of jobs in the United States. In , the wind energy industry directly employed over , full-time-equivalent employees in a variety of capacities, including manufacturing, project development, construction and turbine installation, operations and maintenance, transportation and logistics, and financial, legal, and consulting services [10]. Other renewable energy technologies employ even more workers. The hydroelectric power industry employed approximately 66, people in [13]; the geothermal industry employed 5, people [14]. Increased support for renewable energy could create even more jobs. The Union of Concerned Scientists study of a percent-by renewable energy standard found that such a policy would create more than three times as many jobs more than , as producing an equivalent amount of electricity from fossil fuels [15]. In contrast, the entire coal industry employed , people in [26]. For example, industries in the renewable energy supply chain will benefit, and unrelated local businesses will benefit from increased household and business incomes [16]. Local governments also benefit from clean energy, most often in the form of property and income taxes and other payments from renewable energy project owners. Farmers and rural landowners can generate new sources of supplemental income by producing feedstocks for biomass power facilities. Stable energy prices Renewable energy is providing affordable electricity across the country right now, and

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can help stabilize energy prices in the future. As a result, renewable energy prices can be very stable over time. Moreover, the costs of renewable energy technologies have declined steadily, and are projected to drop even more. The cost of generating electricity from wind dropped 66 percent between 2009 and 2014 [21]. Costs will likely decline even further as markets mature and companies increasingly take advantage of economies of scale. In contrast, fossil fuel prices can vary dramatically and are prone to substantial price swings. For example, there was a rapid increase in US coal prices due to rising global demand before 2008, then a rapid fall after when global demands declined [23]. Likewise, natural gas prices have fluctuated greatly since 2008 [25]. Coal news and markets report. Using more renewable energy can lower the prices of and demand for natural gas and coal by increasing competition and diversifying our energy supplies. And an increased reliance on renewable energy can help protect consumers when fossil fuel prices spike. Reliability and resilience Wind and solar are less prone to large-scale failure because they are distributed and modular. Distributed systems are spread out over a large geographical area, so a severe weather event in one location will not cut off power to an entire region. Modular systems are composed of numerous individual wind turbines or solar arrays. Even if some of the equipment in the system is damaged, the rest can typically continue to operate. For example, Hurricane Sandy damaged fossil fuel-dominated electric generation and distribution systems in New York and New Jersey and left millions of people without power. In contrast, renewable energy projects in the Northeast weathered Hurricane Sandy with minimal damage or disruption [25]. Water scarcity is another risk for non-renewable power plants. Coal, nuclear, and many natural gas plants depend on having sufficient water for cooling, which means that severe droughts and heat waves can put electricity generation at risk. Wind and solar photovoltaic systems do not require water to generate electricity and can operate reliably in conditions that may otherwise require closing a fossil fuel-powered plant. The risk of disruptive events will also increase in the future as droughts, heat waves, more intense storms, and increasingly severe wildfires become more frequent due to global warming—increasing the need for resilient, clean technologies.

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Chapter 5 : Free Energy Suppression

Implications of success as the widespread adoption of these new, non-polluting energy and propulsion systems so that the use of oil, gas, coal, nuclear power and other earth damaging sources of energy are effectively replaced.

It is a mere question of time when men will succeed in attaching their machinery to the very wheelwork of nature. These technologies are absolutely the most important thing that has happened in the history of the world. Energy is endlessly available without burning or exploding anything. Second, though devices would necessarily cost something to make and to buy, they would make energy access so inexpensive as to dramatically raise the quality of life for everyone. This area of innovation also uses the terms: Of course no machine runs forever, because it is made of matter and all matter wears down. The key is that it is the source of power that is virtually endless. From the state of thermodynamic equilibrium, the law deduced the principle of the increase of entropy. The second law declares the impossibility of machines that generate usable energy from the abundant internal energy of nature by processes called perpetual motion of the second kind. It is open to the rest of the universe, as are galaxies, solar systems and the atoms that provide the electricity in our very own bodies. None of these are plugged into a wall socket. They all run off the infinite torque of the universe that is turning every system in existence. So what if there were devices that could tap that? Others mimic cosmic vortices with copper coils that create toroidal fields. Rotating these fields at certain octave frequencies seems to tap into the ambient energy of the space around the coils. Harmonic resonance rather than combustion unlocks the power. As far as I can tell, the entire universe is an alive sea of energy, and accessing power becomes possible when we can successfully adapt our relationship to waves of pressure. Burning coal or even nuclear fission just serves to heat water and the pressure of the steam can crank an engine. A difference in charge on plates in a battery can create a wave of movement in some chemicals that can then power various implements. The pressure of wind, waves or geothermal heat turns a turbine. But physics has ignored half of the universe! Might it make more sense that that motion is balanced by contraction and winding up? If we look through the lens of the torus as the fundamental and universal pattern of energy flow, the in and out waves could just be the enfolding and unfolding aspects, the inhale and exhale that maintain the toroidal wholeness. And one further vital, mind-stretching concept. Imagine if a device could access the boundless power of that inward pressure wave. Then it would be available anywhere in the universe and suddenly fuel-less propulsion becomes a possibility. As it turns out, I interviewed several different people with very authentic sounding reports of having been on extra-terrestrial spacecraft. They each talked independently of just such a toroidal drive centering the ship, and they did not know each other. Numerous videos from around the world also seem to show toroidal energy fields surrounding the vehicles. The Ark is the primary physical artifact treasured by the 3 major religions of the West – Judaism, Christianity and Islam. Author, researcher Graham Hancock and many others have concluded that it was not a repository of Moses' mystical tablets, but something much more real and practical – an electric capacitor box! Formed of Acacia wood, in Phi proportions and coated inside and out with gold, including two large electrodes gold cherubim on the top, the design fits the technical specifications for such a device. See Ancient Cultures topic for more on the Ark of the Covenant. How might they have known about such an advanced energy technology thousands of years ago? The only explanation that makes much sense to me is that this planet was already being visited long ago by extra-terrestrial entities who are way more technologically advanced even then than we are today. Toroidal field of a magnet.

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Chapter 6 : Benefits of Renewable Energy Use | Union of Concerned Scientists

USAPS Unacknowledged Special Access Projects & the Suppression of Alternative Energy Solutions. By Detective Matthew P. Kulesza, P.I. Doctor Steven Greer is at the forefront of the efforts to disclose alternative energy solutions suppressed by the government's illegal USAPS - Unacknowledged Special Access Projects.

Tom Bearden was personally notified that he was targeted for death, being informed by three 3 very interesting visitors one night a few years back at his home in Huntsville, Alabama. He heeded their advice and accepted their help, prolonging his life and extending his research abilities. Were it not for some very strong protection I have from some folks who officially "do not exist" , we would have had that old "fatal accident", such as a fatal auto accident or a "sudden suicide on the way to the supermarket". Last I counted, we had survived more than a dozen suppressions or assassination attempts over the years. Fortunately these guys helping me are the guys who play very hardnosed football. Tesla Of course, primary to suppression is the suppression of Tesla. Tesla knew that the EM wave in space is actually longitudinal, and he also discovered negative energy which he called "radiant energy". He also knew the medium i. Here are some relevant quotations: This idea is not novel We find it in the delightful myth of Antheus, who derives power from the earth we find it among the subtle speculations of one of your splendid mathematicians Throughout space there is energy. Is this energy static or kinetic? If static our hopes are in vain if kinetic "and this we know it is, for certain " then it is a mere question of time when men will succeed in attaching their machinery to the very wheelwork of nature. Quoted from back cover of his biography, Margaret Cheney, Tesla: Man Out of Time]. I now feel sure that the realization of that idea is not far off. That is a bald-faced falsity. In short, this is specifically what guarantees the continued consumption of fuel etc. And what continues to incredibly enrich the giant energy cartels etc. And the last thing the Cartel suppressors wished was general knowledge put out there openly on the internet of the known falsities in EE still being taught in all our universities, etc. Or the ramifications of Lorentz having just arbitrarily symmetrized the Heaviside already-seriously-curtailed equations in he thereby arbitrarily discarded all asymmetrical Maxwellian systems, and retained only the symmetrical ones. That discarded a priori all the type Maxwellian systems that are permitted to receive and freely utilize excess EM energy from the active vacuum environment, since those systems are asymmetric a priori. Rigorous proof that violating the Lorentz symmetry condition allows excess free energy currents from the vacuum, is given by M. This one was also formally reviewed by the NSF, and it did begrudgingly pass their review. Their letter on this is available at <http://> For formal correction of the long-flawed old second "half-law" of thermodynamics, see T. Solution to the Major Asymmetry Problem of Thermodynamics," available at <http://> As Sen put it, "The connection between the field and its source has always been and still is the most difficult problem in classical and quantum electrodynamics. Kosyakov stated it bluntly: Why is it that an electric charge radiates but does not absorb light waves despite the fact that the Maxwell equations are invariant under time reversal? But there is already a proven process in optical physics " proven since and replicated every year in major universities worldwide " that does indeed curve spacetime sufficiently to force some of that usually nondivergent Heaviside curled energy flow to diverge anyway. Obviously that process is not in present EE at all, but it is good physics and already well-established " although the practitioners in the field do not understand where and how the excess energy input comes from. Lorentz arbitrarily discarded that giant Heaviside energy flow component circa Figure 25 on p. This is the procedure which arbitrarily selects only that small diverged component of the energy flow associated with a circuit "specifically, the small Poynting component being diverged into the circuit to power it "and then treats that tiny component as the "entire" energy flow. Thereby Lorentz arbitrarily discarded all the extra Heaviside circuital energy transport component which is usually not diverged into the circuit conductors at all, does not interact with anything locally, and is just wasted. Bohren, "How can a particle absorb more than the light incident on it? That of course is false because, if true, it would destroy the conservation of energy law

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itself, and the self-resonant charge would freely create all the excess energy it emits, from nothing at all. Note that the Poynting component is not the total energy flow through a point or unit cross section! Jackson says it this way: Such an added term can, however, have no physical consequences. Hence it is customary to make the specific choice $\hat{\epsilon}''$ [J. It is not true if the spacetime is rhythmically curved to and fro $\hat{\epsilon}''$ as by charges in self-oscillation at the frequency of the input energy. That entire NRAM area was originally spelled out by Letokhov in , except for deliberately withholding any mention of the Heaviside giant energy flow component. In that respect, Ken Moore and I obtained a U. In that case, the improved power plant steam boiler s $\hat{\epsilon}''$ once brought up to speed and smoothly powering the turbogenerators for the same electrical output but with only about one-quarter as much fuel consumption $\hat{\epsilon}''$ can have the "closed-looping" switched in. At that point, all further consumption of fuel by the power plant will cease, and it will be totally powered by "energy from the vacuum", much like a windmill-powered electrical generating plant is powered by the freely flowing wind from the local environment. Anyway, Ken and I then placed the PPA openly on my website, and freely passed it into the public domain and just gave it away to all humanity. Thus any of the big power consortiums that wishes to spend the money and do the adaptation development, can now proceed as they wish. The paper is T. It is available for free downloading at <http://> Good guys, yes, but totally out of it with respect to modern physics and any changes at all in the old s EM model presently being taught. Cannot even comprehend the source charge problem or its importance. Cannot comprehend that a "static" field is actually made of many parts photons in constant motion, hence is a "nonequilibrium" steady state NESS EM and thermodynamic system far from thermodynamic equilibrium. The response drawn from the much older and partially archaic "near equilibrium" thermodynamics taught at the sophomore level to engineers is that "Prigogine went too far! Yet one can check a listing of several known areas that are known and accepted to allow violation of the old second law. Areas known to violate the old second law are given on p. One area is strong gradients as used in the MEG and another is memory of materials as also used in the MEG in the nanocrystalline core materials and structure. We strongly comment that these known, recognized mechanisms allow macroscopic and significant violations of the Second Law that are directly usable in real systems and circuits. For a very clear and unequivocal technical paper totally describing how the MEG first engineers its local vacuum to have excess EM energy density, and then perturbs that excited vacuum so that it generates and emits E-field energy pulses back into the MEG itself, see "Engineering the Active Vacuum: Magnetic Field B," which is available at <http://> We deliberately did some new drawings which clearly show the exact and proven! Thus the MEG process is one way of doing the vacuum engineering necessary to activate the local vacuum, then get that excited vacuum to generate excess EM energy radiated back into the system in usable form. But it has become totally obvious that our own scientific community is absolutely not going to do anything at all about the energy problem, nor fund any young doctoral candidates and post docs to work in that area and correct that sadly flawed old electrical engineering model. They will still be preaching the same old electrical engineering electric power system model while the U. For further research, Dan Solomon has done an admirable job of showing that an EM field applied to a small region of space the vacuum can in fact extract usable EM energy from that vacuum area. As an example, this has often been done but not fundamentally understood by many experimenters when evoking the Lenz law effect. When $\hat{\epsilon}''$ for example $\hat{\epsilon}''$ a strong gradient in an EM potential which constitutes a strong energy-density gradient in thee vacuum energy of that region is applied to that small region of space, it suddenly adds differential EM field energy to the "electrons in the filled holes" in that space. One thus gets a surge of real extra electrons evoked from the active Dirac vacuum space itself from that gradient region. This part of the Lenz law effect is well-known. What has always been unaccounted in the Lenz law effect is that the remaining empty holes are negative mass-energy electrons, and hence $\hat{\epsilon}''$ as source charges $\hat{\epsilon}''$ they produce negative energy photons and thus negative energy EM fields. Having negative mass-energy, these holes also exhibit negative inertia and so they move in opposite directions from the out-lifted "real positive mass-energy electrons" with their positive mass-energy inertia. These negative mass-energy currents true hole currents and their negative energy EM fields also are repelled gravitationally

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by normal positive mass energy entities and positive energy EM fields, since such "opposite energy" fields and "opposite energy" mass-energies mutually repel one another. So using such holes and negative energy fields produced widely in nature in sharp gradient processes in suns, planets, etc. Also, one can account for the strange "lifting" and mass-changing effects that experimenters such as Hutchison gets in his experiments. One can also account for the startling and controllable antigravity force that Sweet was able to produce in his VTA unit, by pushing it to greater COP. There is a concomitant surge in both directions of the opposing negative energy versus positive energy EM fields also. From those effects, practical antigravity and many materials effects can probably be generated eventually as younger experimenters find out about it and learn how to interpret and also use both kinds of currents and both kinds of energy. It is already known that this sudden surge opposes the dissipative change that is trying to occur. So, we should expect such a circuit to be able to violate the hoary old second law of thermodynamics. And so it is. Again, if one moves from the very old "near equilibrium" thermodynamics usually taught to sophomore engineering students, and goes to the much more modern and comprehensive far-from-equilibrium dissipative systems, one finds that such systems can and do readily violate the second law. This is already well known to our leading non-equilibrium thermodynamicists. Some of the areas known to violate the old second law are given on p. One area is strong gradients as used in the MEG, e. We strongly emphasize that these known, recognized far-from-equilibrium mechanisms can be deliberately used by the inventor to allow macroscopic and significant violations of the Second Law. By producing negative entropy, the excess energy is directly usable in real systems and circuits. It can produce real EM energy in them, and that is what Solomon has shown. Even Maxwell "who was also a thermodynamicist of some note" understood that the small elementary pieces of our macroscopic systems are continually violating the hoary old second law. Note also that EM systems producing and using such second law violations are asymmetric Maxwellian systems a priori. Such systems were arbitrarily discarded by Lorentz in by his symmetrizing the Heaviside equations just to get simpler equations! And Lorentz symmetrization "with its total and arbitrary discard of all asymmetrical Maxwellian systems" is still taught by all electrical engineering departments, professors, and textbooks. Electrical engineers are thus never taught to deliberately design, produce, and deploy those asymmetrical energy-from-the-vacuum systems! Indeed, their theoretical model simply assumes that such systems do not even exist in nature. Nature did not and does not discard those asymmetric Maxwellian systems: Instead, Lorentz discarded them arbitrarily, and all our university EE departments, professors, and textbooks continue to arbitrarily discard them to this day. Our universities and professors long ago arbitrarily and unwittingly discarded all permissible EM energy-from-the vacuum Maxwellian systems. And they still arbitrarily and unknowingly discard them.

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Chapter 7 : Top 5 Alternative Power Systems | HowStuffWorks

Publisher's Note: "Suppression of power system voltage and frequency fluctuations by decentralized controllable loads" [J. Renewable Sustainable Energy 8, ()].

Share47 Shares 1K There are many sources of energy that are renewable and considered to be environmentally friendly and harness natural processes. All of these power generation techniques can be described as renewable since they are not depleting any resource to create the energy. While there are many large-scale renewable energy projects and production, renewable technologies are also suited to small off-grid applications, sometimes in rural and remote areas, where energy is often crucial in human development. The power created through tidal generators is generally more environmentally friendly and causes less impact on established ecosystems. Similar to a wind turbine, many tidal stream generators rotate underwater and are driven by the swiftly moving dense water. Although not yet widely used, tidal power has potential for future electricity generation. Tides are more predictable than wind energy and solar power. The earliest occurrences date from the Middle Ages, or even from Roman times. Tidal power is the only form of energy which derives directly from the relative motions of the Earth-Moon system, and to a lesser extent from the Earth-Sun system. Wave energy can be difficult to harness due to the unpredictability of the ocean and wave direction. Wave farms have been created and are in use in Europe, using floating Pelamis Wave Energy converters. Most wave power systems include the use of a floating buoyed device and generate energy through a snaking motion, or by mechanical movement from the waves peaks and troughs. Though often co-mingled, wave power is distinct from the diurnal flux of tidal power and the steady gyre of ocean currents. Wave power generation is not currently a widely employed commercial technology although there have been attempts at using it since at least the 1970s. The project will utilize the PowerBuoy technology Ocean Power Technologies which consists of modular, ocean-going buoys. The rising and falling of the waves moves the buoy-like structure creating mechanical energy which is converted into electricity and transmitted to shore over a submerged transmission line. A 40 kW buoy has a diameter of 12 feet 4 m and is 52 feet 16 m long, with approximately 13 feet of the unit rising above the ocean surface. Using the three-point mooring system, they are designed to be installed one to five miles 8 km offshore in water to feet 60 m deep. One of the fastest growing energy sources, new technologies are developing at a rapid pace. Solar cells are becoming more efficient, transportable and even flexible, allowing for easy installation. PV has mainly been used to power small and medium-sized applications, from the calculator powered by a single solar cell to off-grid homes powered by a photovoltaic array. The oil crisis stimulated a rapid rise in the production of PV during the 1970s and early 1980s. Large-scale wind farms are typically connected to the local power transmission network with small turbines used to provide electricity to isolated areas. Residential units are entering production and are capable of powering large appliances to entire houses depending on the size. Wind farms installed on agricultural land or grazing areas, have one of the lowest environmental impacts of all energy sources. Although wind produces only about 1. Wind energy has historically been used directly to propel sailing ships or converted into mechanical energy for pumping water or grinding grain, but the principal application of wind power today is the generation of electricity. As of 2010, Europe leads the world in development of offshore wind power, due to strong wind resources and shallow water in the North Sea and the Baltic Sea, and limitations on suitable locations on land due to dense populations and existing developments. Denmark installed the first offshore wind farms, and for years was the world leader in offshore wind power until the United Kingdom gained the lead in October, 2009. Other large markets for wind power, including the United States and China focused first on developing their on-land wind resources where construction costs are lower such as in the Great Plains of the U.S. It is the most widely used form of renewable energy. Once a hydroelectric complex is constructed, the project produces no direct waste. Small scale hydro or micro-hydro power has been an increasingly popular alternative energy source, especially in remote areas where other power sources are not viable. Small scale

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hydro power systems can be installed in small rivers or streams with little or no discernible environmental effect or disruption to fish migration. Most small scale hydro power systems make no use of a dam or major water diversion, but rather use water wheels to generate energy. While many hydroelectric projects supply public electricity networks, some are created to serve specific industrial enterprises. Dedicated hydroelectric projects are often built to provide the substantial amounts of electricity needed for aluminium electrolytic plants, for example. In the Scottish Highlands there are examples at Kinlochleven and Lochaber, constructed during the early years of the 20th century. In Suriname, the Brokopondo Reservoir was constructed to provide electricity for the Alcoa aluminium industry. The Methernitha Community in Switzerland currently has 5 or 6 working models of fuelless, self-running devices that tap this energy. This natural energy form can be gathered directly from the environment or extracted from ordinary electricity by the method called fractionation. One of the earliest wireless telephones to be based on radiant energy was invented by Nikola Tesla. The device used transmitters and receivers whose resonances were tuned to the same frequency, allowing communication between them. In , he recounted an experiment he had done in This can be performed on a small scale to provide heat for a residential unit a geothermal heat pump , or on a very large scale for energy production through a geothermal power plant. It has been used for space heating and bathing since ancient roman times, but is now better known for generating electricity. Geothermal power is cost effective, reliable, and environmentally friendly, but has previously been geographically limited to areas near tectonic plate boundaries. Recent technological advances have dramatically expanded the range and size of viable resources, especially for direct applications such as home heating. The largest group of geothermal power plants in the world is located at The Geysers, a geothermal field in California, United States. Geothermal power requires no fuel, and is therefore immune to fluctuations in fuel cost, but capital costs tend to be high. Drilling accounts for most of the costs of electrical plants, and exploration of deep resources entails very high financial risks. Geothermal power offers a degree of scalability: Geothermal electricity is generated in 24 countries around the world and a number of potential sites are being developed or evaluated. In this context, biomass refers to plant matter grown to generate electricity or produce for example trash such as dead trees and branches, yard clippings and wood chips biofuel, and it also includes plant or animal matter used for production of fibers, chemicals or heat. Biomass may also include biodegradable wastes that can be burnt as fuel. Industrial biomass can be grown from numerous types of plants, including miscanthus, switchgrass, hemp, corn, poplar, willow, sorghum, sugarcane, and a variety of tree species, ranging from eucalyptus to oil palm palm oil. The particular plant used is usually not important to the end products, but it does affect the processing of the raw material. Production of biomass is a growing industry as interest in sustainable fuel sources is growing. The existing commercial biomass power generating industry in the United States produces about 0. The facility reduces dependence on oil by more than one million barrels per year, and by recycling sugar cane and wood waste, preserves landfill space in urban communities in Florida. Although its combustion does produce greenhouse gases, it is a more environmentally clean alternative to those fuels, and it is much safer than other fuels in the event of a spill natural gas is lighter than air, and disperses quickly when released. Natural gas vehicles are increasingly used in Europe and South America due to rising gasoline prices. In response to high fuel prices and environmental concerns, CNG is starting to be used also in light-duty passenger vehicles and pickup trucks, medium-duty delivery trucks, transit and school buses, and trains. Italy currently has the largest number of CNG vehicles in Europe and is the 4th country in the world for number of CNG-powered vehicles in circulation. Canada is a large producer of natural gas, so it follows that CNG is used in Canada as an economical motor fuel. Canadian industry has developed CNG-fueled truck and bus engines, CNG-fueled transit buses, and light trucks and taxis. Both CNG and propane refueling stations are not difficult to find in major centers. During the s and s, CNG was commonly used in New Zealand in the wake of the oil crises, but fell into decline after petrol prices receded. The only method in use today is through nuclear fission, though other methods might one day include nuclear fusion and radioactive decay. All utility-scale reactors heat water to produce steam, which is then converted into mechanical work for the purpose of generating electricity or

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propulsion. There are nuclear power reactors in operation in the world, operating in 31 countries. According to the World Nuclear Association, globally during the s one new nuclear reactor started up every 17 days on average, and by the year this rate could increase to one every 5 days. According to a story broadcast on 60 Minutes, nuclear power gives France the cleanest air of any industrialized country, and the cheapest electricity in all of Europe. France reprocesses its nuclear waste to reduce its mass and make more energy. Proponents of nuclear energy contend that nuclear power is a sustainable energy source that reduces carbon emissions and increases energy security by decreasing dependence on foreign oil. Proponents also emphasize that the risks of storing waste are small and can be further reduced by using the latest technology in newer reactors, and the operational safety record in the Western World is excellent when compared to the other major kinds of power plants. Critics believe that nuclear power is a potentially dangerous energy source, with decreasing proportion of nuclear energy in power production, and dispute whether the risks can be reduced through new technology. Proponents advance the notion that nuclear power produces virtually no air pollution, in contrast to the chief viable alternative of fossil fuel. Proponents also point out that nuclear power is the only viable course to achieve energy independence for most Western countries. Critics point to the issue of storing radioactive waste, the history of and continuing potential for radioactive contamination by accident or sabotage, the history of and continuing possibility of nuclear proliferation and the disadvantages of centralized electricity production.

Chapter 8 : RES - Global Renewable Energy Company

A recent trend of the power system is the ever increasing number of distributed generators (DGs) utilizing renewable energy sources, which have output powers that fluctuate due to unpredictable weather and ambient conditions.

Chapter 9 : Fire suppression systems to Lithium ion energy | NFPA Xchange

A containerized battery energy storage systems (ESS) are proposed to be installed on an all-electric ferry that operates off the coast of Massachusetts. ESS containers are now being utilized to power the electric engines as a "green alternative" to traditional diesel engines.