

Energiewende ?

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Introduction:

Classical energy-carriers like uranium, mineral oil or natural gas, evince more and more disadvantages, mainly because of environmental pollution, but also due to the exhaustibility of their reserve on our earth, causing tremendously increasing prices. New alternatives are absolutely necessary. New types of energy-supply are coming in close future, such as for instance solar-cells and windmills. Or can we expect very large changes in the energy market? A new type of energy comes into discussion, which was nearly unknown even few years ago. It is called the “Zero-point energy of the quantum vacuum”, the abbreviation is “ZPE”. Its most easy utilisable component is the ZPE-spectrum of electromagnetic waves, which appears very similar to visible light, which also consists of electromagnetic waves. Thus, the electromagnetic ZPE-waves are at the same harmless as light.

According to the rules of quantum-theory, oscillations same as waves can by principle never come to standstill. There is always some motion present, absolute rest is impossible. And the energy of these oscillations and waves can be tapped and utilised !

If mankind succeeds to construct engines, which successfully tap this energy, this omnipresent and absolutely clean source of energy will be the superstar of energy politics, completely friendly to the environment, without any risk to health, inexhaustible, available everywhere at every time, and extremely low in price. This new type of energy only has advantages, no disadvantage at all. And now the clou:

- The fact that this energy exists, is beyond any controversy.
- Its utilisability is already proven in America and Australia by working ZPE-converters, some of them already with official certificates from organisation such as Underwriters Laboratories Inc., TÜV Rheinland, Societé Générale de Surveillance, etc...

Thus it is clear that the utilisation of ZPE-energy is not a technical problem but a psychological and political problem, because people do not know about this source of energy – and this is the only difficulty for the breakthrough of ZPE-energy.

The knowledge about the existence of ZPE-energy already goes back to the fathers of quantum theory, such as Werner Heisenberg, Niels Bohr and Erwin Schrödinger. What they have proven for single oscillators, was assigned to electromagnetic waves by hat H. B. G. Casimir anno 1948; and this is the moment, when the name of ZPE-energy was brought into the attention of a growing part of mankind. For 49 years, Casimir has not been taken serious, but been made ridiculous, until finally in 1997 Steve Lamoreaux from the American Yale University verified the Casimir-effect experimentally. Therefore he mounted two electrical neutral metallic plates in a distance a few nanometers parallel to each other, and then he performed measurements of the force, with which the zero-point waves of the quantum-vacuum move the plates towards each other. The force as being measured by Lamoreaux, confirms the Casimir-formula within a precision of 5%, which is quite impressive. In meantime, namely since about 2005, the Casimir-forces of the quantum vacuum, came to

practical relevance in practical series line-production in computer-industry, due to the extreme miniaturization of some of the components inside the computer. Furthermore, we know that at this time, the question about the utilisability of the zero-point energy was already clarified – we will see this soon in the further text of this article.

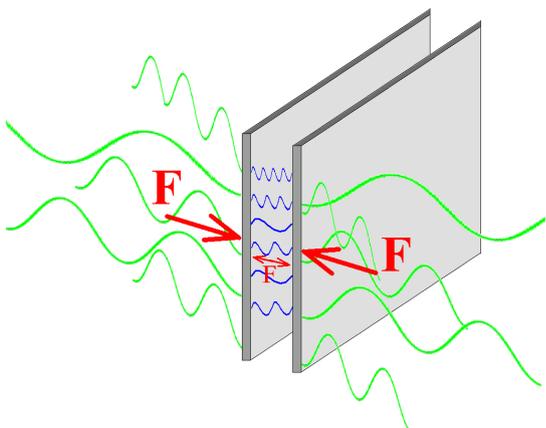


Illustration of the Casimir-effect:

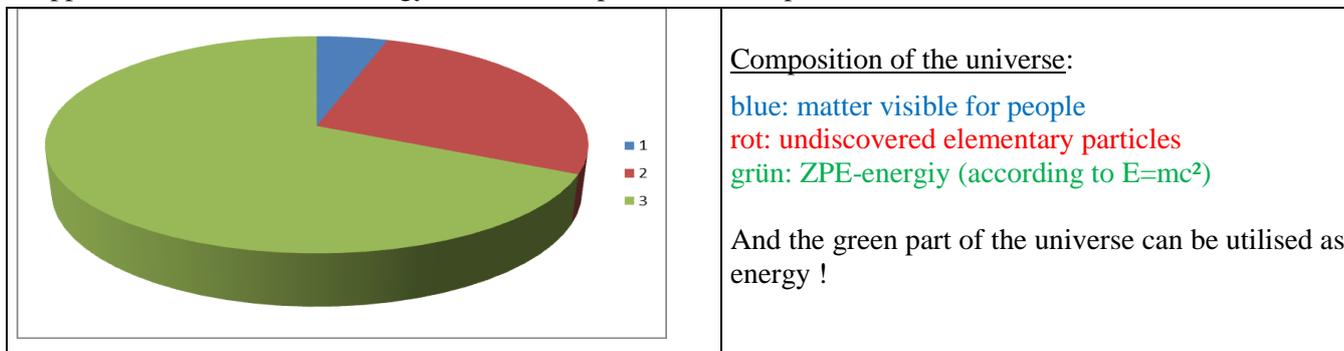
The zero-point waves (green) are everywhere in the space, they fulfil the complete universe. But the metallic plates as shown in the picture, exclude some of the ZPE-waves (blue). Due to the fact that each single wave exposes a pressure to the plates, the missing waves in the intermediate space between the plates, leads to a missing pressure even there, so that the ZPE-waves from outside have a higher pressure than the ZPE-waves from inside. The consequence is a force “F”, which moves the plates towards each other - an invisible force coming from the quantum vacuum, the namely Casimir-force.

Composition of the universe:

We now want to discuss the question, whether the ZPE-energy can be exhausted by mankind or not - especially with view to the enormous amount of energy, which mankind consumes nowadays. In reality, the answer to this question, is one of the very large advantages of ZPE-energy. The complete universe contains so much of this energy, that mankind can never exhaust it. The universe consists dominantly of ZPE-energy, so that mankind is far too small, to extract even a remarkable percentage of this energy from the universe.

To understand the situation, we follow some measurements from astrophysics, according to which the universe consists of (according to Einstein’s mass-energy-equivalence $E = m c^2$):

- approx. 5 % visible matter, such as planets, stars, and the text on the paper which you are reading just now.
- approx. 25-30 % elementary particles being undiscovered up to now (also a part of dark matter).
- approx. 65-70 % the ZPE-energy wich is our topic here (also a part of dark matter).



How much energy we ever will extract from the universe, mankind is far too small and the universe is far too large, that our energy-consumption could ever be a remarkable percentage of the huge amount of energy being available in the universe. This energy is really inexhaustible, and it is flowing since the beginning of the world around everything and everywhere, without causing the slightest harm to anything.

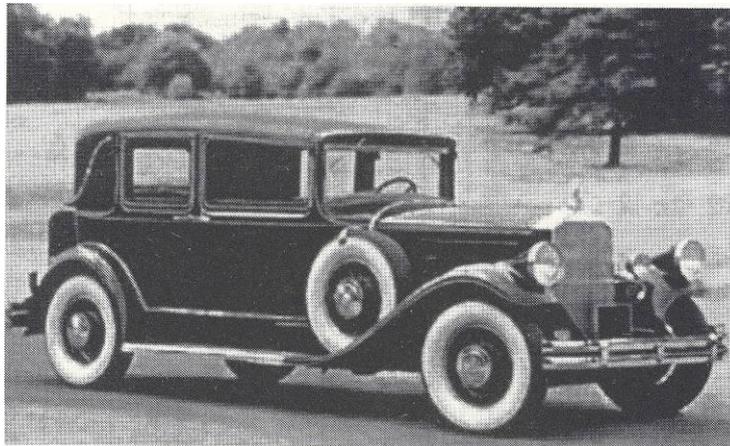
By the way, it should be mentioned, that ZPE-energy is not only confirmed in the wave-conception of microscopic physics, but also in the particle conception, namely by Richard Feynman, the father of quantum-electrodynamics, for which he received his Nobel Price. Vacuum-energy is present in many aspects of physics, so we should care about the question of its practical utilisability.

Practical utilisation:

Already since rather long-time, the practical utilisation of ZPE-energy is discussed and realised. The son of a contemporary witness told me, that already in 1930 the legendary Nikola Tesla (who was inventor of the electrical current generator, supplying our houses with electricity), drove a car with ZPE-energy. In his book "Die Urkraft aus dem Universum" (Autkor: Klaus Jebens, Jupiter-Verlag), several of his information is written for everybody. Nikola Tesla's car is being lost in meantime.



Nikola Tesla 1885, im Alter von 29 Jahren. Foto von Sarony, Teslas Lieblingsfotografen. (Smithsonian Institution, National Museum of American History)



Typische Pierce Arrow-Limousine von 1930

Nikola Tesla and his legendary ZPE-car
I express my thanks to Familie Jebens
for the allowance to use this picture.

Many inventors had been active since this time. Dozens of working ZPE-motors are being reported. Too many names of potential inventors can be found in literature and in Internet, so that it is almost impossible to get an overview over the ZPE-community. The number of potential inventors is growing permanently. Unfortunately most of them turn out to be charlatans. Some of them are simply unreliable, but some of them especially want to confuse the community and the colleagues in science. This gives rise to a real problem for the serious ZPE-scientists, such as those who presented operable ZPE-prototypes with official certificates. The doce-video "THRIVE" by Foster Gamble (2011) gives interesting explanations about the background of this problem (<http://www.youtube.com/watch?v=OibqdwHyZxk>).

The consequence is the conclusion: Although a large amount of unserious work disturbs the complete branch of ZPE-research, and although this disturbance promotes the sceptics (probably some of the disturbance is made by sceptics), and although these problems tremendously hampers the breakthrough of zero-point energy utilisation, we should not forget, that there are already ZPE-engines in work. Nevertheless, these engines can be bought up to now, mainly due the political and/or non-technical reasons.

Examples of ZPE-converters:

Examples of officially confirmed the ZPE-motors can for instance be found here: The functionabililty of the US-American „terawatt-converter“ (Energy from Intermolecular Fluctuations, <http://www.terawatt.com>) is confirmed by certificates of the well-established organisations of TÜV-Rheinland and independently by Underwriters Laboratories Inc., with a power of few hundred Watts.

A further example is the Australian "Lutec-converter" (LEA electric producing device, <http://www.lutec.com.au/>), which has a certificate from the world's larges certification-organisation SGS (Société Générale de Surveillance SA). The "Lutec-converter" has worldwide numerous patents which are bought by the Asian Company „Evergreen Enterprise International Ltd.“, and since this time, the Lutec-internetpage is not available permanently.

Rather widespread is the Austrian Aquapol-System for drying buildings, invented in 1985. It was reported in Austrian television (main channel „ORF“), in „modern times“, and in more than 60 international TV-Stations, even in documentations. For me, this system is a phenomenon, because although we do not understand the background theory, the system is working in more than 49000 practical applications, two of them shown in the following pictures, the Hungarian Parliament in Budapest and the Stift Klosterneuburg in Austria. I thank the Aquapol-company the allowance to show these pictures (www.aquapol.at).

The system does not need any electrical energy (no power-supply at all, no batteries). Its practical success justifies the invention.



Left: Part of the Hungarian Parliament Budapest was made dry by Aquapol within two years under technical supervision.

Right: The “Vinothek” in the Stift Klosterneuburg / Niederösterreich was made dry with an Aquapol-System (mounted inside a wine-barrel at the ceiling).

Bekannt aus ORF „Modern Times“ und 60 anderen internationalen TV-Stationen

The famous Massachusetts Institute of Technology reports in one of the leading scientific journals about small “. . . Light-Emitting Diodes Operating above Unity Efficiency” (PRL 108, 097403 (2012)). They still discuss about a thermodynamic background, i.e. about the question whether they have a zero-point **energy**-converter or a zero-point **entropy**-converter. Nevertheless, I suppose that both types of clean energy supply for mankind would be acceptable in the same way.

All these developments are known to very few people up to now, and surprisingly even most of those colleagues who call themselves “specialists” in the scientific community of energy research, do not know about this development. Here, we face a lot of deficit in information and a lot of need for awareness-raising. And everybody can work for this awareness-raising, just by giving the information about the utilisability of the ZPE-energy to as many many friends. All those, who want to have this clean energy, and who want to utilise it for free, can support the breakthrough of this energy just by telling their friends about this energy source. Informing friends - this is for free same as the ZPE-energy itself. Thus, we herewith invite you to protect your environment by saving money – and telling your friends about the ZPE-energy.

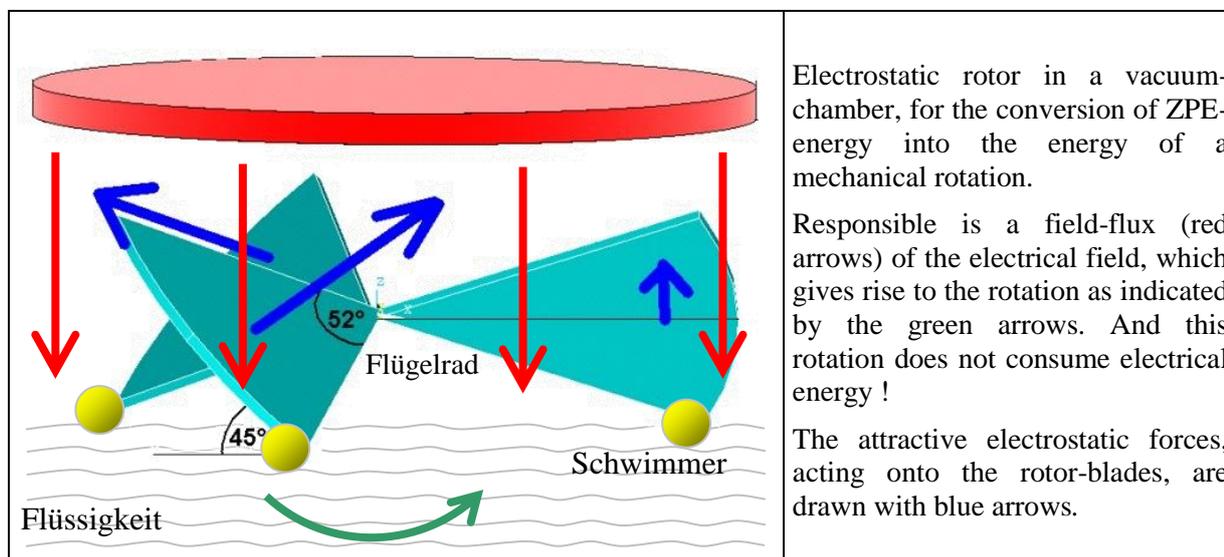
Scientific findings:

As a scientist of fundamental physics, the author learned from the very beginning of his education, to be sceptic and to believe only things that can be measured. Thus he had to analyse this ZPE-energy with his own hands in laboratory. After seeing his own ZPE-converter in operation, he could believe the utilisability of this energy.

Consequently an experiment had to be performed. The experimental work could be conducted as a guest-scientist at the Otto-von-Guericke University in Magdeburg, Germany. At first, the author needed a solid theoretical fundament. As soon as this was developed, a setup according to the following figure “electrostatic rotor” was build up. On top we can see a red metallic disc with the name “field source”, which is charged up electrically and thus produces an electrostatic field. Similar as a plastic ruler can be rubbed and thus be electrically charged, and then attracts little pieces of paper (most of the readers probably know this from

childhood), the red field source attracts the rotor-blades drawn in blue colour. If the bearing of the rotor is mounted in appropriate way, the rotor can be prevented from being lifted and flying against the field-source, and now we have the crucial point: The shape of the rotor is manufactured in such way, that it rotates permanently without removing any electrical charge from the field-source. So the rotation is being continued endlessly without consuming electrical power. As mentioned above, the author verified this in a cooperation with the University of Magdeburg, and furthermore he published this in literature and internet. An overview over his scientific publications is being “open-source” available at his Internet-page:

<http://www.ostfalia.de/cms/de/pws/turtur/FundE>, alternatively also www.energiederzukunft.org



By this conversion of zero-point energy (energy of the quantum-vacuum) into the energy of the mechanical rotation, the utilisability of ZPE-energy was proven the very first time on University level.

In meantime, the famous Massachusetts Institute of Technology (MIT) also published the functionality of small light-diodes with a COP > 100% with regard to classical arts energy:

A “physorg.com”-article is here: <http://www.physorg.com/news/2012-03-efficiency.html>

The Abstract of the APS is published here: <http://prl.aps.org/abstract/PRL/v108/i9/e097403>

Nevertheless we should not forget, that the practical benefit of my experiment, as well as of the MIT-experiment, is only the benefit of fundamental scientific research. The MIT experiment has the converted power in the range of picowatts with a COP in reality of a bit more than 200%; and my experiment has a converted power in the range of 150000 picowatts, with a COP in reality of a bit more than 5000%. Both results let us know, that there is still a lot of scientific work to be done, so that finally the output power can be enhanced far enough, that technical power supply for mankind will be possible.

If we keep in mind, that mankind nowadays uses a total power of about 1500 ExaJoule per year (source “Shell”-company and German Physical Society “DPG”), it is immediately clear, that my electrostatic rotor is only the scientific verification, but the real engines for power-supply still have to be developed. This development is described on the following lines.

Technical application:

The required enhancement of the output-power is thus tremendous, that the electrostatic principle as described above, cannot be applied for powerful engines, because the energy-density of the electrostatic field, as being available in the laboratory, is too small. Much larger than the energy-density of the realisable electrostatic field is the energy density of the practically realisable magnetic field. This can be seen and accepted very easy, if we compare the weak forces between the plastic ruler and the little pieces of paper, with the strong forces between magnet and a part of iron (such as for instance an iron screw). If we ever want to realise a practical energy-

supply from vacuum-energy, any **electrostatic** principle is the wrong candidate, but an appropriate candidate is a **magnetic** principle.

In order to develop such vacuum-energy systems, the author elaborated the fundamental theory of ZPE-conversion, and he demonstrated this theory by a computation method, which is able for computer-simulations of all type of magnetic ZPE-converters. Of course it is desirable, to manufacture practical devices according to this theory; and as a preparation therefore, the author performed the computer-simulation of an exemplary ZPE-converter, which he called the EMDR-converter (“electro-mechanic double resonance converter”). This example is also published on the Internet-page of the author as mentioned above. It uses a permanent magnet rotating inside a coil (see the following figure “magnetic principle”), where the magnet induces an electrical voltage into the coil due to the magnet’s rotation. The coil is part of an electrical LC-resonance circuit, which stores the energy in a capacitor and then gives it back to the coil, creating a magnetic field, which itself accelerates the rotation of the magnet. As soon as the rotation of the magnet goes faster and faster, the induced voltage in the coil is being enhanced, giving more electrical field, causing an enhancement of the speed of rotation of the magnet, and so on . . . without the necessity to insert any further classical energy into the system. This sounds rather simple, so that it appears as if it would be unbelievable.

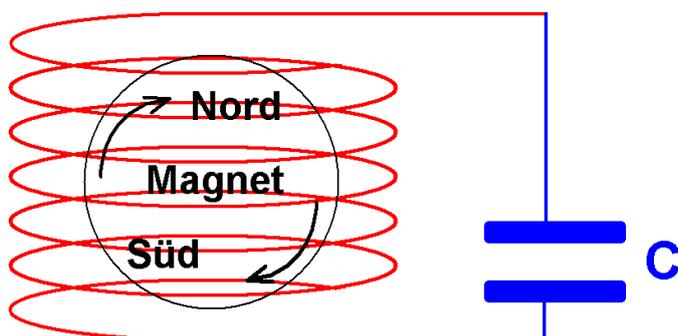
BUT: The background (as being published on my Internet-page) is the fact, that the magnetic field propagates with the speed of light, and the magnet rotates with such high speed, that the finite propagation speed of the field has the effect, that the enhancement of the magnet’s rotation is driven by zero point energy. Obviously, this is only possible, if all system-parameters are adjusted appropriately, and this adjustment procedure is not very simple – indeed it is complicated enough, to make serious scientific investigations necessary.

The size and the power of the engine can be chosen arbitrarily, as for instance we could build up an engine with the dimensions and the power-output of a normal standard electrical drilling engine – but without electrical power-input.

The fact, that an electrical and the mechanical resonance have to be adjusted to each other very exactly, is the reason that I decided to give a ZPE-converter the name of “electro-mechanic double resonance converter”:

<http://www.ostfalia.de/export/sites/default/de/pws/turtur/DownloadVerzeichnis/Serie-deutsch-5Artikel.pdf>

As the author of the fundamental theory of ZPE-conversion by magnetic principles, I would like very much to transcribe my theory into Praxis, but unfortunately I do not have any of the necessary resources. I have no laboratory, no scientific budget, no co-workers, no equipment, and first of all no more time, to continue my scientific work. Thus my investigations are laying on ice now, and I hope very much, that one wonderful day somebody will come and give me the necessary resources to come back to my scientific work.



Magnetic Principle:

Principle setup of the electro-mechanic double resonance converter.

In the graphics
red: a coil
blue: a capacitor
Both together form an LC-circuit

Resumée:

Future will teach us, whether mankind will solve our energy problems with slight changes such as windmills or solar-cells, which still require a lot of technology for energy storage, such as accumulators, together with all the problem of poisonous waste from the old accumulators – or whether a real energy-turnaround will allow mankind to tap the new source of ZPE-energy, which is available all around the clock, making any energy-storage completely unnecessary. ZPE-energy is extremely low in price, because the user only has to buy the ZPE-engine itself (which has the price in the range of an electrical motor of about the same dimensions) and there are no follow-up costs and no material substances as energy carrier.

Everybody who buy energy up to now, should know:

ZPE-energy is

- absolutely friendly to environment
- without any risks to health
- for free
- inexhaustible
- available for everybody, everywhere and at every time

My motto: FREE ENERGY FOR ALL PEOPLE

Everybody, who wants to utilise this favourable type of energy is invited cordially, to help for its breakthrough. All you have to do is to tell your friends about this energy. I am sure: As soon as this energy is known by everybody, it's investigation will be supported (perhaps even officially), and then somebody will also give me possibilities and resources to build a ZPE-motor for the technical energy supply of everybody.

Please distribute this information.

Free-market economy allows the development of new products only, if there is a request by many potential clients. And as soon as many many people know about ZPE-energy, there will be many potential clients. As soon as there are many potential clients, the development of ZPE-motors will be made possible.