

# Neutralizing Nuclear Waste Efficiently

V2, Sep 2015

*Standing waves are base of everything, thus also the base of life. Nothing exists all over the nature, which is not related to standing waves. There is no technology all over the universe, which is not related and based upon standing waves. Who's going to censor the standing waves technology, without to expose himself as armed idiot?*

## **Abstract**

There is worldwide need to neutralize nuclear waste efficiently. Mostly it is about the remains of nuclear chain reaction, used as fuel to produce heat, which is then mostly converted to some another kind of energy. The remains of nuclear chain reaction are well known as high dangerous waste, long time pollution, which could cause hard damages to the living beings, therefore preserving the huge quantity of nuclear waste, represents the high-risk process, at the huge expense. Thus, high efficiently neutralizing of the nuclear waste, represent the common need, on overall benefits.

Next document contain an idea about, how it would be possible to reuse the nuclear waste in very simple way, at low cost, representing in this way the description of the project of high reliability and very fast justified on investment. The energy of radioactive material is going to be channelized within the controlled resonant field, and then received within high efficient absorbers, where it is going to be converted in useful electrical power. In doing so, using the resonant power and suction principle, the energy of radioactive material is going to be discharged much faster then usually, and radioactive material is going to be decontaminated. Instead of to waste enormous funds for preserving the nuclear waste long time, which costs are accumulating along the time, it would be possible to automate in relatively simple way, the process of efficient energy conversion, which is along the time going to reduce and decontaminate the waste mass, and to allow for accumulating of wins. The benefits are double, in reducing the quantity of waste thus lowering the high costs of storing, as well as in reselling the electrical energy, therefore it is logical to expect very fast justifying on investment.

## Introduction

Because of very high danger, usage of nuclear chain reactors for heating water, is not recommended, for water steam production, therefore there are numerous more effective methods, of efficiently heating the water, with an aim to produce the steam under the pressure. In all modern power plants based on nuclear chain reaction, the aim is to produce the heat for pressure pot, which is then, going to provide the constant stream of water steam, to drive the steam turbine, which in turn will drive the electric power generator. Since the boiling point of the water within the pressure pot is significantly decreasing with increased pressure within the pot, the energy necessary to keep the process running is far less than the energy necessary to initialize the process of boiling the water.

For purpose of heating the water, we could use any available heat convertor, among the others, also electrical heat convertor. In doing so, we would need some electrical energy from another power generator, to initially heat the pressure pot. The far the process is initialized, the energy needed for keeping the process running is low, therefore could be implemented simple using the closed loop. In doing so, we are going to get the self-sustained electric power generator, without to spend any fuel, except for starting up. It would be furthermore, possible to optimize the system, just implementing cheaper and more efficient Tesla bladeless disk-stack turbine, instead of wide spread jet steam turbine.

In doing so, we would stop to produce additionally nuclear waste, which is very heavy to store. We would intend to reuse the existing waste in some another applications in order to decontaminate it and to convert the radiation into another kind of energy, such as electrical power. In doing so we would prevent for life dangerous impact to the environmental surrounding, along with spearing costs of storing the nuclear waste due to reducing the quantity along the time, as well as collecting the funds due to reselling the electrical energy.

Of these reasons, we are intending to make some suggestions about the simple methods for accelerating the time of half-life of nuclear waste, in order to efficiently decontaminate it, neutralizing the radiation in so far, to prevent it of making any significant demolishing impact to environmental surrounding and life in general. In doing so, we could eliminate very expensive storing of nuclear waste, in relatively short period of time, spearing huge amounts of money, goods and labor work forever. It means, the huge investment, which was necessary to be implemented annually for this sake, could be redirected and reused for another much better purposes.

Why to make business at expense of life and order, rather than for the sake of overall benefits? This is definitely not intelligent at all. Therefore, let's try to examine the next mental experiment.

## Briefly description

Without to be informed about the matter of fact if some of efficient devices for neutralizing a nuclear waste in general already exist, and is implemented, I'd intend to suggest and share an idea about that, how would it be possible to implement such kind of device in simple and efficient way, to get rid of nuclear waste, worldwide. On this purpose, we would need to merge few existing inventions, one is by Nikola Tesla, such as Implementing the Radiation Energy for producing Electricity, and another one is a kind of standing waves energy absorber, which converts the radiation in usable electrical energy, using the stack of galvanic insulated, alternative ordered, copper and aluminum metal sheets.

Furthermore, it is well known that within the strong standing wave EM field, of high frequency, the time necessary for radioactivity of the nuclear waste to be neutralized, is going to be shortened significantly. This property could be used to neutralize the nuclear waste, in relatively short period of time.

Merging several solutions together, we are going to develop high efficient device, of high simplicity, which is going to convert radioactive radiation of nuclear waste in electrical energy, decontaminating the radioactive material due to significantly reducing the period of half-life.

In doing so we could spare a lot of financial goods, which are recently necessary to be invested in long term process of storing the nuclear waste, which represents always, potential danger for environmental surrounding, thus the high security expensive methods have to be implemented. Furthermore, generated electrical power could be particularly reused in loop back to provide power supplying for decontaminator as energy converting device, while the rest of generated power could be connected to the power grid, and resolved. In this way, the project of the device is going to be justified on investment in very short period of time.

Furthermore, we are going to spare the nature of being polluted.

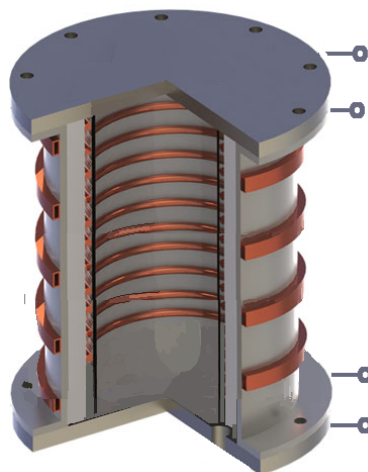


## Detailed description

The energy-converting device consists basically of cylindrical container, around which a numbers of magnetron devices are placed. Implementing the stack of convenient and inexpensive magnetron devices, used in convenient microwave ovens to convert electrical energy into microwaves, we are going to provide the strong electromagnetic field of high frequency, necessary to increase the radiation of nuclear waste, which is going to be placed within the cylindrical container of the device.

Around the cylindrical container, the inductive coil is going to be wrapped, representing the part of resonant circuit, which standing wave oscillations are necessary to catch and redirect the nuclear radiation, along the inductive coil axes. I'm not aware if the magnetic or electric field of standing waves is going better to force nuclear radiation to oscillate within the strongest field, therefore I just suggest to implement both fields, simultaneously in parallel to each other, as the nature of electromagnetic field already is. This is going to result in another side effects and conversion benefits, based on resonant force.

In order to convert the nuclear radiation into electrical energy, we would need to introduce absorbers, implementing the stack of electrodes, at both sides of cylinder shape container, which consists of alternatively ordered copper and aluminum sheets, galvanic insulated between each other using for instance Bakelite or another appropriate insulator such as PVC. All sheets have to be one millimeter thick, in order to better match the metric, thus the harmony with planet Earth. The both of absorbers stack of electrodes are placed below and above the solenoid. The metal sheets, closest to the cylindrical container volume, are going to represent the electrodes of electrical capacitor, of very small capacity, thus the resonant frequency of the resonant LC circuit is going to be relatively high.

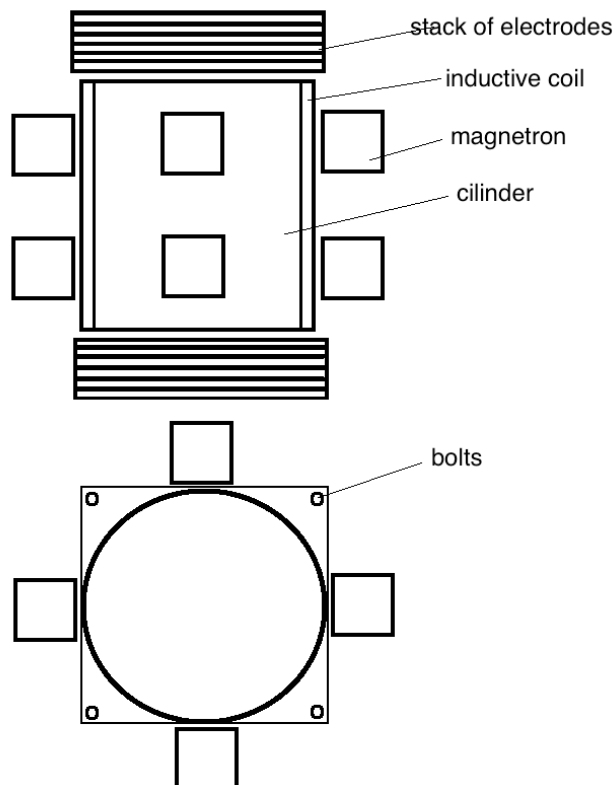


The nuclear radiation, which is going to be resonant captured within the inductors oscillating magnetic field, is going to radiate along the axes, through the stack of electrodes, producing the electrical energy at every single insulated conductive sheet. The more energy is going to be generated, the less radiation is

going to pass throughout the stack of electrodes. The overall radiation, which could be measured nearby the device, could be significantly reduced implementing this simple way.

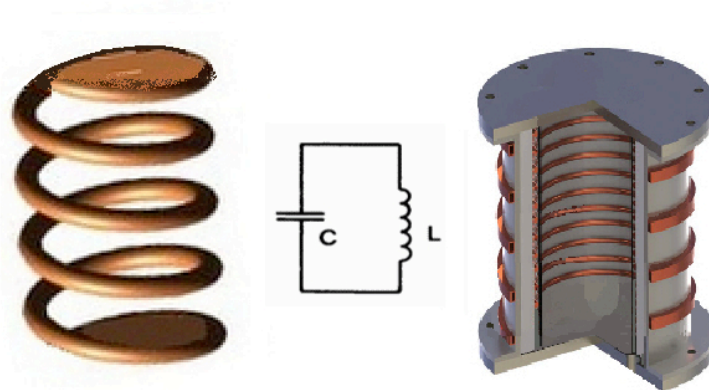
Magnetron devices should be driven in pulse mode of work, implementing the brakes between periods of active microwaves radiation, in order to prevent to strong impact of radioactive material exposed to the microwaves, which field must not be of high intensity. The optimal method of placing the magnetrons around the cylindrical container could be found experimentally.

Each magnetron device would need less then one half of kilowatt power to be appropriately supplied, thus for supplying the device, we would need less then 3 kW power in totally. Instead of standard supplying system of convenient microwave ovens, much better results could be achieved in implementing classical fly-back transformer, to produce pulsed DC high voltage signal, of 28 kHz, which corresponds to the resonance frequency of ferrite material, used for core of fly-back transformer. Similar kinds of devices are possible to find in old vacuum tube TV set devices. In order to increase the electrical power necessary to supply all magnetrons simultaneously, we could implement simple resonant energy converter systems, just similar to Kapagen device replication of Tariel Kapanadze, introduced by Jan Lewis Naudin, published in internet, optimized to better match efficiency, by forming the ring, and implementing sequential winding, to increase the efficiency of conversion at higher harmonics. Converter device could furthermore be optimized introducing ferrite core, as well as magnetic material cord, to wind the triphilar back-coil. In doing so, we could get resonant amplified energy, necessary for supplying magnetrons.



The output energy at the stack of electrodes, could be of direct current, thus we should implement some standard converters, to convert it to alternating current and to add it to the electrical power network.

The optimization of the system could consist of introducing double resonant circuit. The first passive LC circuit is used as container of radioactive material, which is pulled on the absorber built into the floor. The passive LC container of radioactive material could be simple made just spirally cutting the outer wall of metal container, in order to get inductor. The capacitor, parallel connected to the inductor, will be build by the both circular surfaces on the top and on the bottom of the container. The electromagnetic coil with magnetrons is then wrapped around the passive LC container axially symmetric, along with another absorber placed on the top above. The both inner sheets of absorber could play the role of capacitor, which could be of several pico-Farad if the lower sheet of capacitor is going to be grounded. The capacitor is connected serial to the outer coil to the high voltage pulsed power supply.



The both resonant circuits should be harmonically adjusted to each another therefore some outer regulated inductor could be used to match the resonance with inner LC circuit. The frequency of pulsed high voltage power supply should also harmonically match the resonant frequency of coupled resonant circuits. In doing so, the decontamination process could even be accelerated thus the electric power converted by absorbers could be higher.

Resulted electric power at the absorbers terminals is going to be of radio frequency band, therefore it could be used to supply special developed electrical heaters, to heat the water which could then be converted into water steam stream to drive the power generators.

Magnetrons, which are located along the coil axes radiating the microwave field perpendicular to the axial magnetic field within the decontaminator's coils, are going to support generating of electrical power, since it is the working principle of TPU. Therefore, the converter could generate sufficient power also without any radioactive material within the container. It is logically to expect in this case, the generated power to be lower then using radioactive material to be

decontaminated. This means, the power converter could be developed to match both cases, to convert energy with as well as without any radioactive material. At least, we're aware of the matter of fact that the water steam stream driven power plant could work as stand alone system, without any outer energy supply.

In doing so, we are going to get a lot of more spared financial goods, collecting even higher amounts of money, which could be used as financial injection for industry, for the society both locally as well as globally, preventing for any collapse. The primary aim to reduce and to remove the source of pollution, such as for instance it is the case for radioactive waste, in order to preserve global ecological balance, could be fulfilled along with doing huge business, much bigger than any business till recently, since the winning strategy based on universal harmony, which excludes the source of disharmony is supported by the Universe, therefore has huge chance to be successfully implemented on the large scale.

The losing strategy of getting rich at expense of the rest of world, must be replaced by winning strategy of getting rich in general, which is the real way to prosperity, rather than only a dream. The disturbing factors, which stop the prosperity, must be recognized and disarmed. The globe is ill since long term attacked by parasitic cuckoo species, which are sacrificing human victims as well as humanity enslaving the people abusing the thalassocracy, as influence on the human will abusing the standing wave weapon.

## **Impacts to the environmental surrounding and business aspects**

The decontaminating devices of radioactive waste, described at this place, could be implemented with an aim to spend the nuclear waste, fast and efficiently, converting the radioactive radiation into electrical energy. Implementing such of devices, could gradually reduce the quantity of radioactive waste, along with making the high profitable business, since instead of to spent huge amounts for preserving the nuclear waste safe of disaster, the huge amounts could be spared and even though turned in opposite direction collecting a huge funds due to reselling generated electrical energy. Introducing of such devices would reduce the negative impacts of the nuclear waste to the environmental surrounding significantly, along with allowing for long-term high profitable business. The mathematics is simple, since the investment for store the nuclear waste along the huge period of time is huge, producing of these reasons the huge financial waste, which accumulates along the time gradually. Performing simple reduction of waste, we would preserve the huge amounts, necessary to be invested regularly in storing the nuclear waste, thus it could be invested on much better purposes. Therefor the justifying of investment in introducing such devices, could be very fast and of longevity. Once the nuclear waste is annulated, financial waste is also going to be annulated therefor such an optimization represents the high profitable business of longevity.

When the nuclear waste is going to be completely spent, on increasing the harmony, luck and joy in life for all living beings worldwide, then the devices remained behind, could be recycled, slightly accommodated to match the functionality of fuel-less electrical power generators. In this case the bifilar coil placed central in the cylindrical container, could be installed to provide initialization for high efficiently energy converter devices, which could stay at the same places, supplying the power grid with generated electricity. Even though the device could be accommodated to match the need of recharging the Crust with electricity, since on this purpose the high efficiency is directly related with higher frequency, along with implementation of larger number of devices, of relatively lower power, in order to let the Earths' Crust in surrounding to receive emitted electrical energy, and to allow it to be spread around. In doing so, we could in simple and efficient way, energize the Crust and gradually reveal damages in ozone layer. Increasing the energy intensity in Crust, will cause increasing of the density of the Crust matter, thus decreasing the seismic activities, along with supporting the freshwater to turn back from deeper layers of the Crust, closer to the surface, which would be essential to reducing the devastating landscapes, converting them again into the landscapes full of life, with significant higher value in any possible aspect, then the devastated landscape.

Berlin, Sep 2015  
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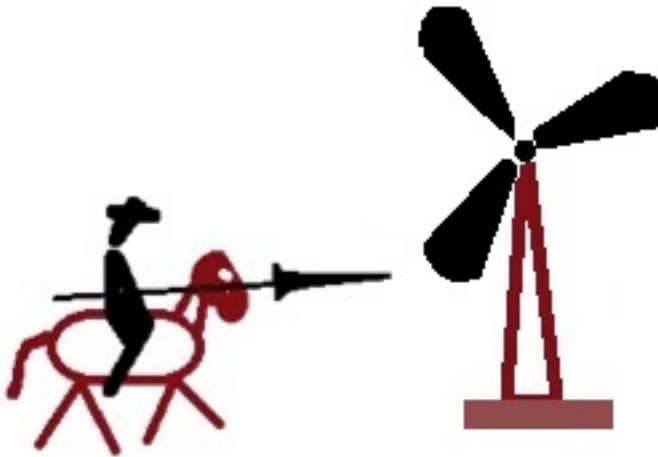




## Books

<http://artlandscape.weebly.com/store>

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Unfortunately, I couldn't receive money transferred to my bank account recently, because of build-in redirection, or communication disturbance, of controllers of information-energy-material flow, who are obviously falsifying feedback, producing in doing so huge common damages, of sick selfish being mighty reasons. Therefore, only checks and cash could reach me. Since I'm living from social money in Berlin, capitol of Germany, having approximately 120 EUR monthly for food, I'd appreciate if somebody could support me financially, the far the possible. Thanks for understanding.

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