

## On the edge of era of fuelless energetic

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**Generators that use the energy of atmospheric electricity.** Atmospheric electricity is a consequence of the electrical interaction of the Earth with the Sun and space. Meteorological processes are associated with the electrical state of the atmosphere. Climate changes on Earth are associated with changes in the characteristics of galactic charge density waves with an oscillation period of 22 years. The sun and earth have a space charge. The charge of the Sun changes sign every 11 years. The magnetic fields of the Earth, the Sun and planets are a consequence of the space charge - the heating of the earth's interior is carried out by eddy currents of the space charge in the geomagnetic field [2].

The developed technology is based on the use of atmospheric electricity [1, 48]. It is known that in the cosmic rays that come to us from space with the solar wind 92% are protons, i.e. positively charged particles, and they charge our ionosphere positively, and the Earth, in turn, has a negative volume charge. The potential difference between the Earth and the ionosphere is 360,000 V, with day and night varying from 400,000 to 340,000 V. There are seasonal and daytime variations, but it is important that the Earth's ionosphere is a giant capacitor with an average voltage of 360,000 V. You can say that the Earth is an electric machine that has a volumetric electric charge. N. Tesla estimated the electric charge of the Earth as 300,000-600,000 K, the capacity of 220,000  $\mu\text{F}$  and the electric field of 120-160 V / m. He also developed the first resonant generators using electrical energy from the atmosphere. Using this generators N. Tesla transmitted electricity using the earth as a wire. N. Tesla argued that he can transfer any amount of energy to any part of the world with an efficiency of more than 96%.

However, at the time when he was completing his work in this area, the theory of parametric resonance did not yet exist. Such a theory was developed only in the 30s. of the last century by Russian scientists, academicians Mandelstam and Papaleksi. N. Tesla was unaware that his famous power towers were using parametric resonance. One of its energy towers was 60 meters high, and a metal sphere or toroid was located at the top of the tower. In electrical engineering, this design is called a elevated capacitance. It was this capacitor that formed a series resonant circuit with a high-voltage winding of the Tesla transformer. When the generator transmits high-frequency oscillations to the high-voltage winding through the low-voltage winding, the potential of the sphere changes periodically. In such mode of interaction, Tesla then already received up to 20 million volt. It is known that the relative dielectric constant of air is greater than unity due to the presence of water vapor, the molecules of which are composed of hydrogen and oxygen atoms. Water molecules are electric dipoles and are polarized in the electric field of the sphere.

Due to the presence of water vapor in the air, when the sphere is positively charged, the formed electric field attracts the dipoles of water molecules with the negative side to the surface of the sphere, and when the field changes sign, the dipoles of the molecules the waters are attracted to the sphere by the positive side, i.e. the elevated capacitor is being recharged. Recharging of such a capacitor occurs due to a controlled synchronized reorientation of polarized dipoles of water molecules in air.

As a result of such processes, the capacity of a elevated capacitor also changes, and the parametric resonance lies in the fact that in the circuit capacitance or inductance changes with doubled frequency. These circumstances lead to the fact that in the oscillatory circuit there is an increase in electrical vibrations. Parametric resonance is widely used in radio engineering and physics. The

same principle is used in the new power plant for generating electricity from the surrounding atmosphere [49-50].

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