

Project Summary

Thermal Power Plant - An Investment Project.

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Brief summary of the project

Unique, environmentally friendly thermal power plant (TPP) for heating apartment buildings with a measured area of 1000 sq.m.

Production and storage facilities of large areas. Cottage settlements. Greenhouses and other industrial facilities.

The uniqueness of the installation

The installation uses a new type of energy discovered by Yu.A. Baurov and his co-authors.

Energy comes from the process of formation of masses of stable elementary particles (electrons, protons, neutrons) under the influence of the gravitational potential of the planet.

Yu.A. Baurov was awarded the Italian national award in the field of alternative energy sources, and is included in the list of 2000 outstanding scientists of the planet of the 20th and 21st centuries. He is the author of 7 books and over 70 articles on the subject.

What problem are we solving?

1. On the planet in many countries there is winter. The author lives in Russia, where at least half of the year the premises must be heated.

2. The most expensive known method of heating is by electricity.
3. The cheapest known method of heating today is based on mains gas. If the object is gasified, the issue of heating is easily solved.
4. The cost of heating with electricity (electric boilers) on average in the market is about 5-7 times more expensive than heating with gas.
5. With gasification not possible today, there are NO off-grid heating solutions available without prohibitive costs.
6. The proposed heating method allows you to create a TPP with a coefficient of conversion of electrical energy into heat equal to 2,3,4 ... 10 or more, so it can close all heating problems with large heating areas and is more efficient even in the presence of main gas, if the operation of the TPP is more than 3 years.

Baurov thermal power plant

1. The TEU uses a new type of energy - Byuonic energy, extracted from the process of formation of a part of the mass of elementary particles associated with the formation of their internal physical space , under the influence of the gravitational potential of the Earth ($E = \Delta mc^2$)
2. The installation consists of sections (in an industrial installation there can be from 1 to 5 sections or more).
3. The created section of the TPP (see photo) is a pipe with a diameter of 1.8 m and a height of 15.5 m, in which there is a closed circuit of pipes of various diameters, in which water is pumped using two pumps that consume a total electric power of about 51 kW. The output of thermal energy is about 65 kW.
4. When the installation consumes about 50 kW of electricity, the output is from 70 to 200 kW of heat (thermal power depends on the number of sections). When heating large areas (more than 20,000 sq.m.), the efficiency of the TPP is growing rapidly.
5. In TPP, the law of conservation of energy is not violated, since the latter works only in closed (adiabatic) systems. The TPP system is open to the physical fields of our planet and other space objects (the Sun, etc.).)
6. (Baurov Yu. A. // NEW NON-GAUGE INTERACTION AND ITS USE IN HEAT INSTALLATION , Bull. Rus. Acad. Sci. Phys. 2017. V. 81. P. 759).

Table 1: Comparison of capital costs for heating an area of 18,000 m².

Heating system	Installation cost (Rubles)P	Operating cost per year (Rubles) P
Modular gas boiler	21 945 000	7 281 320
Modular solid fuel boiler house	37 730 000	2 145 620
Boiler room on electricity	13 805 000	5 825 800
Baurov's installation	34 815 000	3 387 920

Table 2: Comparison of operating costs for heating an area of 18,000 m².

Heating system	Total costs, rub.			
	1 год	2 год	4 год	10 год
Modular gas boiler	29 226 320	36 507 640	51 070 280	94 758 200
Modular solid fuel boiler house	59 186 320	80 642 640	123 555 280	252 293 200
Boiler room on electricity	72 063 400	130 321 800	246 838 600	596 389 000
Baurov's installation	38 202 920	41 590 840	48 366 680	68 694 200

Previous developments

1. First pilot plant in San Miniato, Italy, 2015.
2. Test installation in the Moscow region, Mytishchi, 2018.
3. New Moscow (near Troyzk town), 2018.
4. Novorossiysk town, 2020.

