



NRG ENERGY-SAVING SYSTEM

Energy saving

Improvement of electric current quality

Saving the natural resources

Improving the environment

NRG
system

NRG UNIVERSAL ENERGY-SAVING SYSTEM



Energy saving is such a popular word lately. Everyone is constantly talking about it, discussing and arranging various exhibitions and conferences, even developing and approving new laws, for example, Federal Law 261. Without doubt, reducing the consumption of electricity is a very important thing that will not only reduce the cost of electricity, but also save valuable natural resources, reduce the number of harmful emissions, and therefore improve the overall environmental situation on our planet.

But if you think about it, there aren't that many resources that can reduce electricity consumption - we can say that there are very few of them. Examples include new energy-saving bulbs, soft starters for powerful motors, reactive power compensators, and the installation of various smart systems to optimize lighting. But all the above mentioned methods have one significant drawback: they are not universal, and designed for a narrow segment of electricity consumers.

At the same time, there is universal equipment that allows reducing electricity consumption for almost any consumer using alternating current.



NRG system is the newest development in the field of energy saving and energy efficiency for all consumers of electric energy, such as private apartments, houses, shops, production areas, large industrial enterprises and any other areas where AC current is used.

The system is designed to reduce losses in the electricity network of any electricity consumer, and, consequently, to reduce the active power consumption and electricity payments.

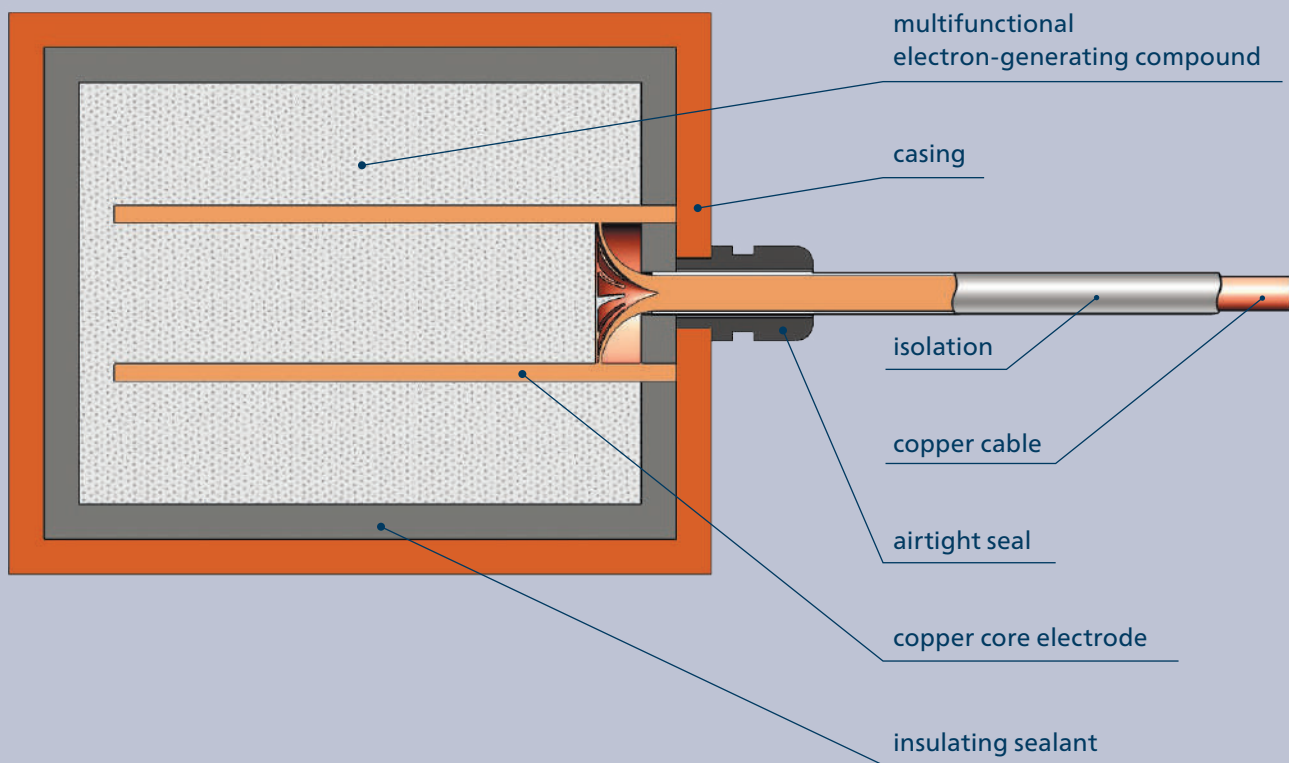
The system is based on four insulated units with a compound that generates electricity. They are connected to each phase and to the customer's network neutral conductor.

MAIN ADVANTAGES OF THE NRG SYSTEM

- Excellent profitability: the payback period is less than 20 months.
- Service life of the system: for over 20 years.
- Installation: the connection of the system to the electric power system takes less than an hour.
- Security: the parallel connection guarantees excellent safety.

EFFECTS OF THE NRG SYSTEM

1. Reduction of electricity consumption by 5-17%.
2. The system reduces the effects of harmful electromagnetic waves.
3. The system increases the life of the equipment in the electrical network.
4. Reduced temperature, noise and vibration during the equipment operation.
5. Release of additional capacities due to energy saving.

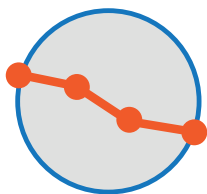


SYSTEM INTERNAL DESIGN

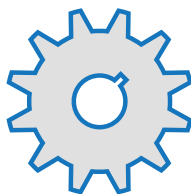
Each unit is filled with a special chemical compound. Variable electromagnetic field affects the internal composition of each block through the copper wire and is the initiator of physical and chemical processes that generate free electrons.

MODEL RANGE

TYPE	power, kW	Cable Dimensions		Размеры	
		length, m	section, mm ²	block size (Ø, height), mm	kit weight, kg
SINGLE-PHASE (set of two blocks)	5	1	8	70×90	1,0
	10	1	8	70×120	1,6
	20	1	8	70×140	1,6
THREE-PHASE (set of four blocks)	10	1	8	70×90	3,2
	20	1	16	70×140	5,6
	30	3	16	70×170	8,0
	50	3	16	130×110	10,0
	75	3	16	130×120	12,0
	100	3	25	130×130	15,0
	200	3	25	130×150	18,0
	300	3	35	180×180	24,0
	400	3	35	180×190	30,0
	500	3	35	180×210	37,0
	750	3	35	260×270	55,0
	1000	3	50	260×300	74,0
	1500	3	50	260×340	106,0
	2000	3	50	260×370	140,0



**Saves
from 5 to 17%**



**Easy installation
and use**



**20-30 years
of operation**



**Manufacturer's
warranty**



**Developed
in Russia**



**Fast return
on investment**

NRG SYSTEM OPERATION

Reduction of electricity consumption by 5–17%

The main principle of the system is the saturation of the consumer's electrical network with additional free conductivity electrons, which increases the conductivity and reduces the resistance of all conductors in the network. The customer's network refers to the entire electrical circuit located after the NRG system connection point.

Reduced reactive power

Due to the heterogeneity of real conductors, electrons in them have different mobility, but the higher the concentration of free electrons in the conductor, the greater the number of electrons have high mobility, which allows you to reduce to a minimum level of lag (delay) of electric alternating current from the voltage and thereby reduce the reactive power in a particular network, all other things being equal.

Reduction of harmful aliases

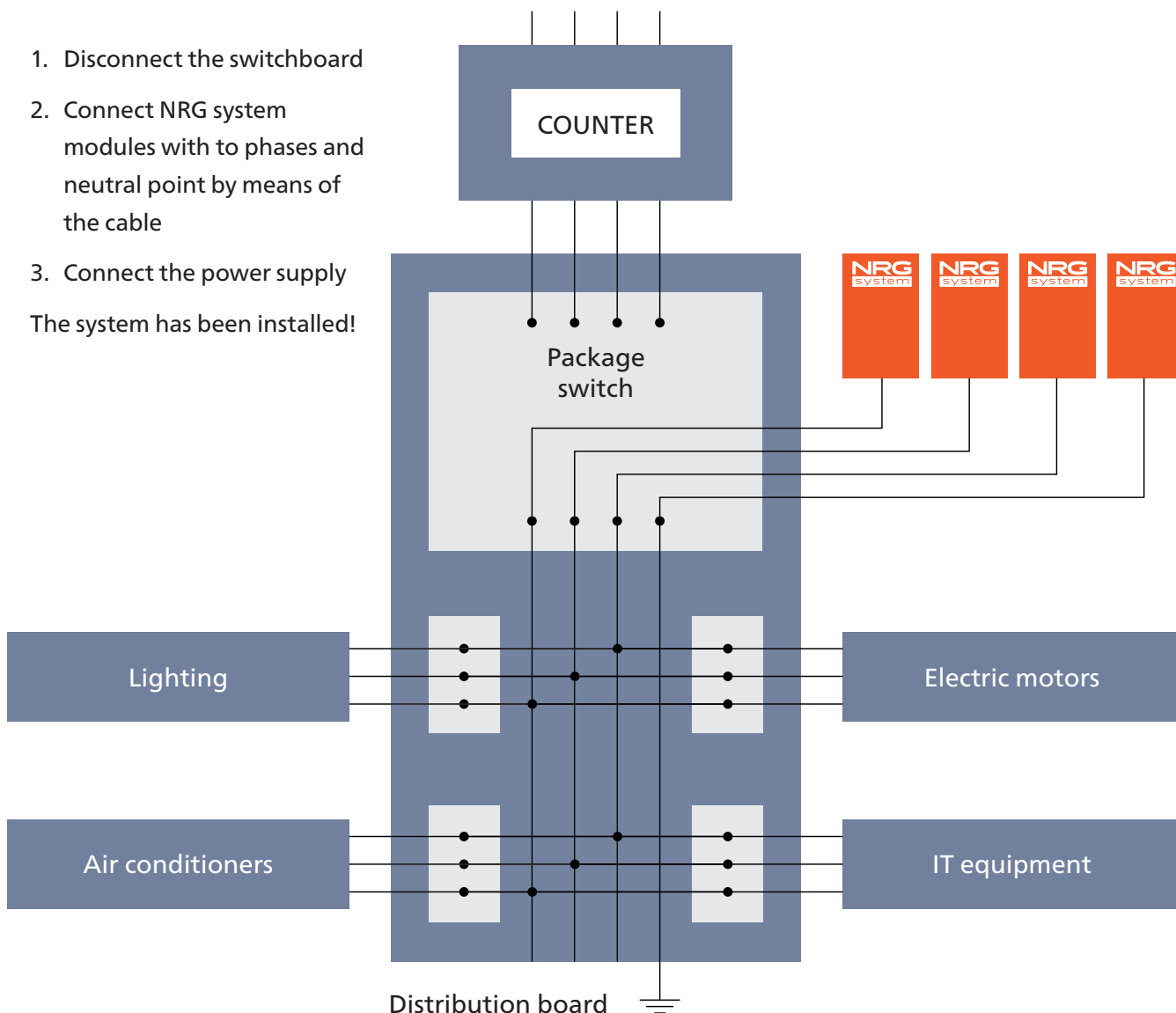
The peculiarity of this energy-saving system is that the electrons come from the unit to the consumer's electrical network by means of pulses with a frequency that coincides with the frequency of the main aliases in the network (50 Hz), which leads to resonance and superposition of the main aliases in relation to harmful aliases in the network. That way, harmful aliases are suppressed and their amplitude is sharply reduced.

System versatility

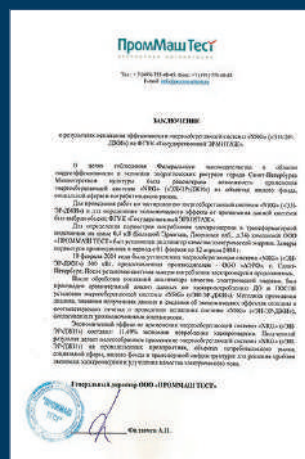
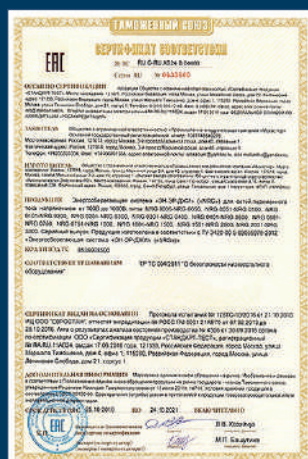
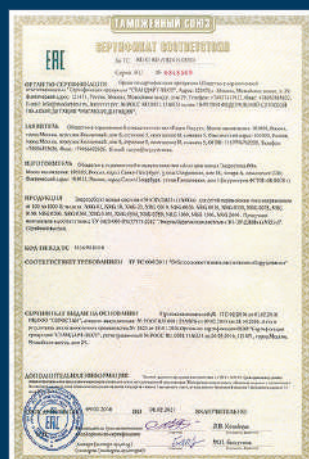
The system automatically adjusts itself to the frequency of the AC mains voltage and does not require any additional regulation and maintenance during operation.

SYSTEM CONNECTION TO THE GRID

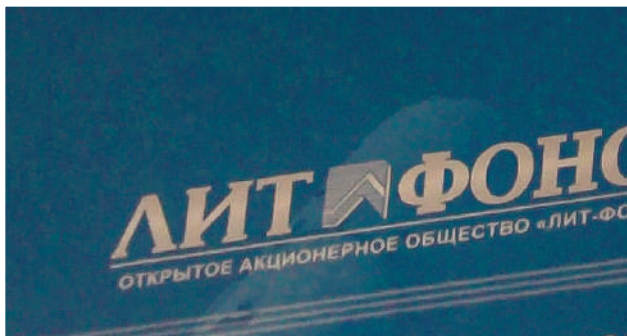
1. Disconnect the switchboard
 2. Connect NRG system modules with to phases and neutral point by means of the cable
 3. Connect the power supply
- The system has been installed!



CERTIFICATES



RESULTS OF THE NRG SYSTEM



LIT-FONON JSC

Russia, Moscow

Date of installation: June 2016.

Economic effect: **7,75–8,54%**

Installation capacity: **600 kW, 600 kW, 550 kW, 450 kW**



JSC Republican typography named after P.F. Anokhin

Russia, Petrozavodsk

Date of installation: April 2015

Economic effect: **7.14 %**

Installation capacity: **200 kW**



State Hermitage Museum

Russia, St. Petersburg

Date of installation: August 2014

Economic effect: **11 %**

Installation capacity: **500 kW**



НИЖНЕКАМСКНЕФТЕХИМ

Nizhnekamskneftekhim JSC

Russia, Nizhnekamsk

Date of installation: October 2013

Economic effect: **6.5 %**

Installation capacity: **200 kW**



Castorama hypermarket

Russia, St. Petersburg

Date of installation: July 2013

Economic effect: **12 %**

Installation capacity: **500 kW**





NRG — your
competitive
advantage!

Innovation —
the future today!

NRG
system

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