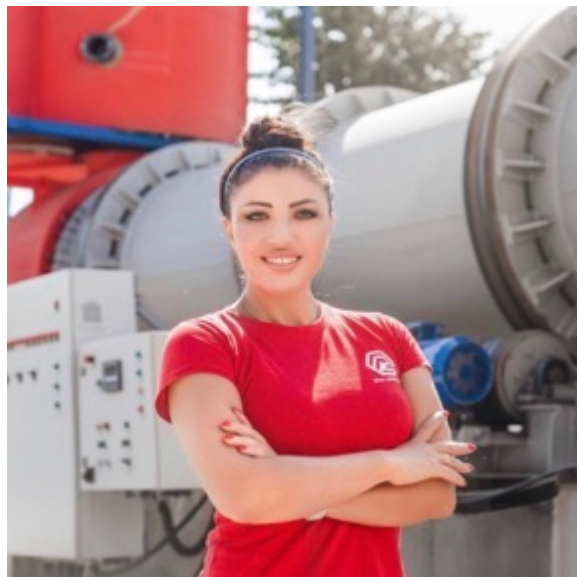


## PRESENTATION Eco-Spectrum LLC



Sincerely, General Director of  
Eco-Spectrum LLC

### Our Ecological Policy

Dear Ladies and Gentlemen, our Friends and Business Partners,  
We are all aware that the global problem of waste management is one of the leading ecological problems nowadays. Every year, there is an increase in the industrial production around the globe, and with it comes the increase of waste generated.

Many of the available technologies for waste management or waste disposal require long process for sorting and preparing waste, as well as a similar amount of time for the disposal itself, furthermore, some types of waste cannot be disposed in conventional manners. We all understand that in the future, the question of waste disposal will be addressed by way of sorting and recycling; lead by example of our European colleagues, however, by evaluating their experience, we can see that not all types of waste can be recycled; for various reasons. Today, the available technology allows effective incineration of waste and disposal of gases in a manner that doesn't exceed ecological norms. ( or in some cases, constitutes only a part of ecological norms).

Eco-Spectrum offers the above mentioned solution – our incinerators have been recognized as the reliable way for thermal neutralization of waste in all parts of Russia and beyond. At the moment we have more than 18 types of incinerators of the VOLKAN and HURIKAN series, suitable for cremation of all types of waste (except of mercury-containing waste from the nuclear industry), with the productivity rate ranging from 50 kg/hr to 5 Ton/hr. The availability of an in-house engineering team, provides the Client with flexibility to choose any add-on options for technological solutions to any problem, whether it is the pumping of liquids or working in North pole weather conditions.

Having CE certificate, ISO 9001-2015, state environmental expertise of Rospotrebnadzor at the federal level for 4700 types of waste, accreditation as per NAKS system, proves the quality, reliability and eco-friendliness of our products.

# MODEL RANGE OF INCINERATORS

## Series **VOLKAN** <sup>TM</sup>

VOLKAN 150



VOLKAN 200



VOLKAN 500



VOLKAN 750



VOLKAN 1000



VOLKAN 1500



VOLKAN 1750



VOLKAN 2000



## Series **HURIKAN** <sup>TM</sup>

HURIKAN 70



HURIKAN 150



HURIKAN 200



HURIKAN 300



HURIKAN 500



HURIKAN 1000



## Series of rotary incinerators **HURIKAN R** <sup>TM</sup>

HURIKAN 200 R



HURIKAN 400 R



HURIKAN 1000 R



HURIKAN 5000 R



**VOLKAN**





ECO SPECTRUM  
ПРОИЗВОДСТВО ПЕЧАТОВ И РАДИОСТАНЦИЙ

# HURIKAN





**ECO SPECTRUM**  
ПРОИЗВОДСТВО АКСЕССУАРОВ И АППАРАТОВ

# HURIKAN R



## Secondary-material resources obtained during thermal treatment of waste

### HEAT

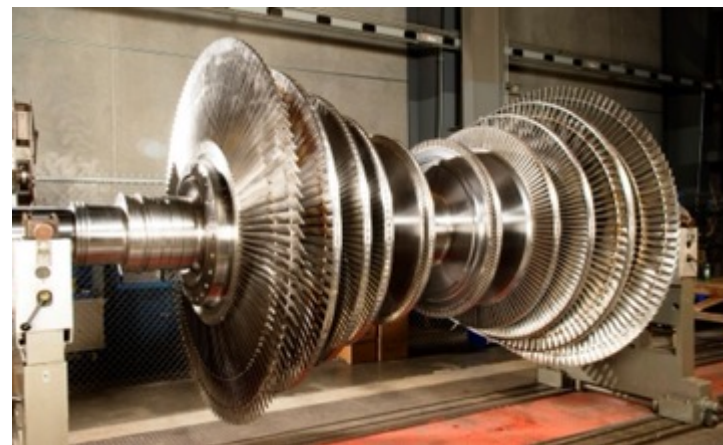
The use of a recuperator makes it possible to heat water with exhaust gases from the installation to a temperature sufficient for heating production facilities, or satisfying the company's need for hot water or gives heat for technological processes. Eco-Spectrum has already supplied installations with heat recuperators such as water-water, water-air, which generate heat up to 6 MW.

### ELECTRICITY

An alternative solution for heat generation can be the installation of a utilizer boiler, due to which the resulting steam is converted into electrical energy. At the moment, the company has developments to obtain electricity due to the temperature difference, thereby the company seeks to simplify the system of obtaining electricity, which can be used as a backup source of electricity.

### ASH

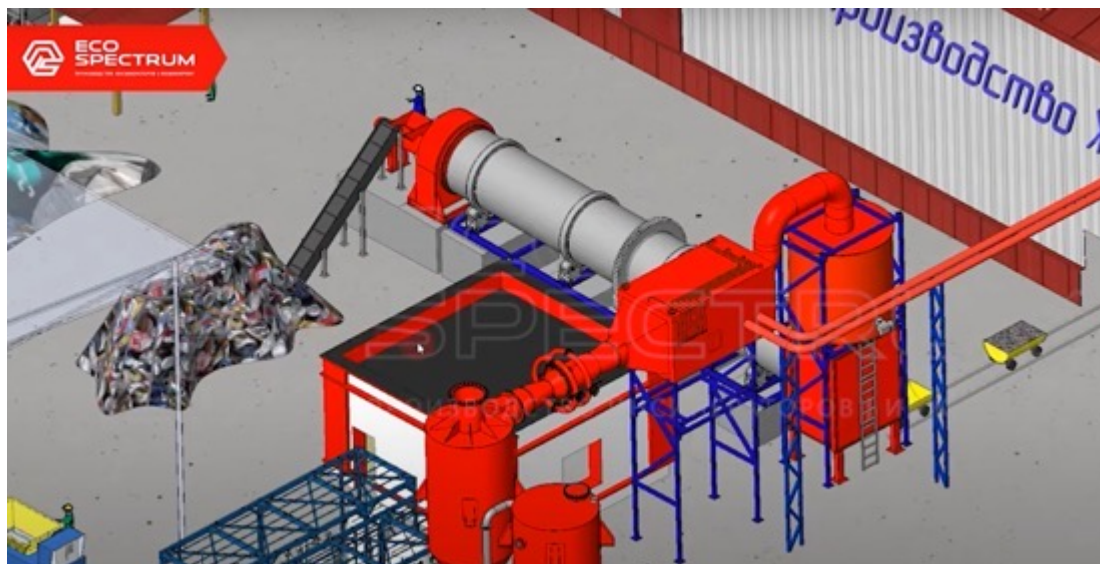
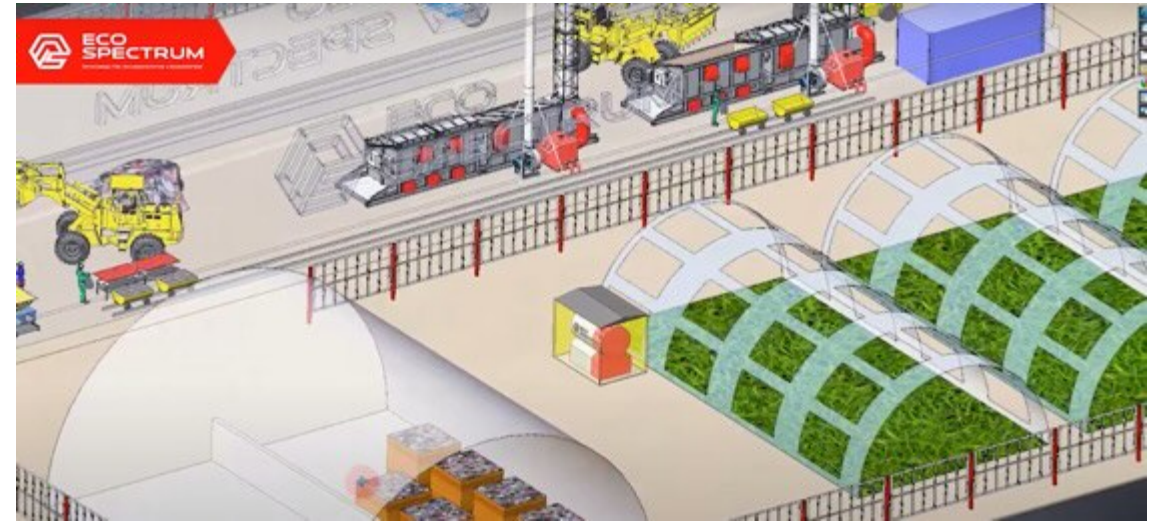
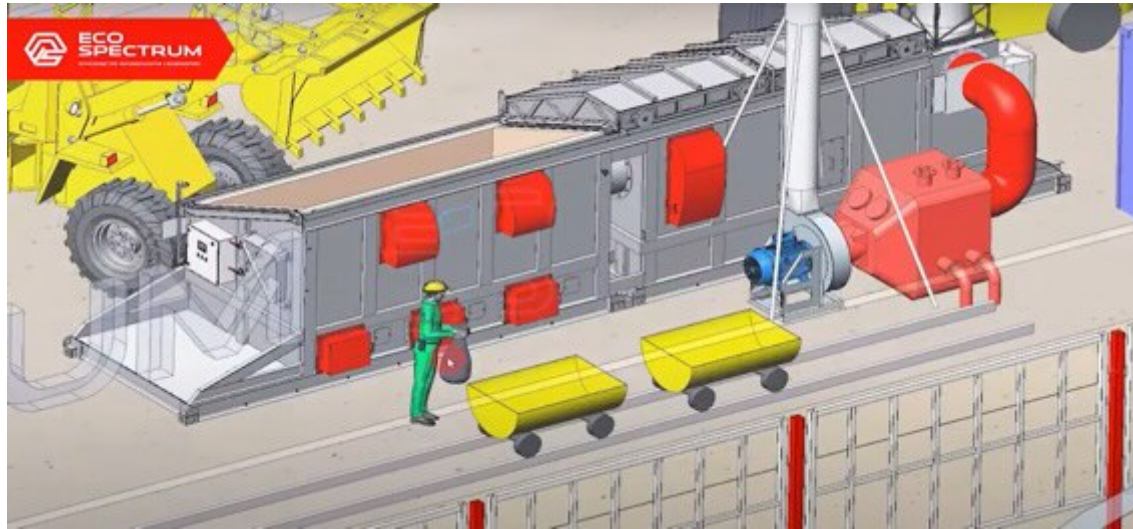
Ash can be used in production of foam and aerated blocks, ash bricks, paving stones, production of cements and dry building mixtures of concrete and piece reinforced concrete products, drainage devices, tiles, production of hydro- and soundproofing material, mineral fiber, various composite materials, mastics, sealants, and paint and varnish products. Ash can be easily used as an alternative to the arbitrariness of polymer-sand products



# THE USE OF ASH IN THE MANUFACTURE OF PRODUCTS



# INCLUSION OF INCINERATORS AS A SOLUTION IN THE TECHNOLOGICAL CYCLE OF WASTE SORTING AND SUBSEQUENT PROCESSING





# WE VALUE OUR CUSTOMERS





Suitable for more than  
4700 types of waste



European Quality  
Certificate



Enterprise  
Certification



ISO  
Certificate

## PRODUCTION CAPACITY



TECHNICAL RESOURCE

**MORE THAN 200 UNITS  
MACHINERY AND EQUIPMENT**

- 15 un. special equipment
- 12 un. machine park
- 22 un. welding equipment
- 18 un. storage equipment
- 6 un. specialized technical cars
- 80 un. additional power tool
- 20 un. equipment for painter works
- 50 un. equipment for concrete monolithic work



COMPANY STAFF

**OVER 100  
EMPLOYEES**

- 12 design-engineers
- 4 environmental engineers
- 2 chemical engineers
- 6 engineers of APCS
- 4 EC&I engineers
- 27 administrative staff
- 50 production

# All products manufactured by ECO-Spectrum LLC comply with Russian and international legislation.



### CERTIFICATE REGISTER OF RELIABLE PARTNERS

The document confirms that the Eco-Spectrum company is included in the Register of Russian legal entities, the financial and economic situation of which testifies to their reliability as partners for entrepreneurial activities in the Russian Federation and abroad.



### CERTIFICATE OF CONFORMITY "VOLKAN AND HURKAN"

Certificate of conformity "VOLKAN and HURKAN" issued by the production and engineering company "Eco-Spectrum"



### FEDERAL SERVICE FOR SUPERVISION OF NATURAL RESOURCES, 1 PART

Russian Natural Inspectorate reports that the information on the approval of a positive opinion of the EEA expert commission has been included in the register and is posted on the official website of Russian Natural Inspectorate in the section "State environmental impact assessment".



### FEDERAL SERVICE FOR SUPERVISION OF NATURAL RESOURCES, 2 PART

"Information about the positive conclusions of the state environmental review of the draft technical documentation for new equipment and technology for 2011-2014" and additionally posted on the official website of Russian Natural Inspectorate.



### CERTIFICATE OF CONFORMITY NON-PROFIT PARTNERSHIP "FIRE SAFETY UNION"

This certificate confirms that the incinerators of the VOLKAN, HURKAN series, manufactured according to TУ 4853-001-37098548-2013, correspond to GOVERNMENTAL STANDARD RUSSIAN 53321-2009 "Heat-generating devices operating on various types of fuel. Fire safety requirements. Test methods.



### ORDER APPROVING EMISSION STANDARDS

Order on the approval of standards for emissions of harmful (polluting) substances (with the exception of radioactive) into the atmospheric air of stationary emission sources located at economic and other activities subject to federal state environmental supervision for the period from 04.22.2016, on 04.21.2017



### EXPORT MATURITY CERTIFICATE

Certificate issued by Eco-Spectrum LLC for passing the export preparation assessment



### VOLUNTARY CERTIFICATION "SAFETY AND QUALITY"

This certificate confirms that products of the VOLKAN, HURKAN series, manufactured according to TУ 4853-001-37098548-2013 correspond to GOVERNMENTAL STANDARD RUSSIAN 53321-2009 "Heat-generating devices operating on various types of fuel. Fire safety requirements. Test methods.



### SANITARY AND EPIDEMIOLOGICAL CONCLUSION

This sanitary-epidemiological conclusion confirms that the requirements established in the project documentation comply with the state sanitary-epidemiological rules and regulations.



### EUROPEAN CERTIFICATE OF CONFORMITY

In December 2017, Eco-Spectrum successfully passed all the necessary tests and received the "European Certificate of Quality Standards". The tests were carried out by Slovak engineers at our enterprise. Our products fully comply with European standards.



### CERTIFICATE OF COMPLIANCE ISO 14001:2015

This certificate certifies that the quality management system applied to the development, design and production of machinery and equipment, as well as the device of industrial furnaces and chimneys. Valid until November 8, 2021. [CERTIFICATE OF COMPLIANCE ISO 14001:2015](#)



### GOVERNMENTAL STANDARD ECOLOGICAL EXPERTISE FOR 1300 WASTE TYPES

The company "Eco-Spectrum" has a state environmental impact assessment for 1300 types of waste. This expertise applies to all incinerators produced by our company. This examination is valid in all the subjects of the Russian Federation.



### ENVIRONMENTAL COMPLIANCE CERTIFICATE

All products manufactured by our production have an "environmental certificate of conformity". This certificate confirms that our products comply with all environmental safety standards and are safe for both people and the environment.



### DECLARATION OF THE EURASIAN ECONOMIC UNION

The Declaration of the Eurasian Economic Union is a mandatory document that confirms the compliance of products with the requirements of the Eurasian Economic Union. It is issued for products in respect of which the conformity confirmation form is possible within the framework of the declaration.



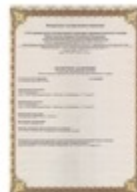
### CERTIFICATE OF TRADEMARK HURKAN

Trademark Certificate (Service Mark) №625030 HURKAN (HURKAN). Right holder: Limited Liability Company "Eco-Spectrum", 350080, Krasnodar Territory, Krasnodar. Registration expires on October 28, 2026.



### CERTIFICATE OF TRADEMARK VOLKAN

Trademark Certificate (Service Mark) №495341 VOLKAN (VOLCANO). Right holder: Limited Liability Company "Eco-Spectrum", 350080, Krasnodar Territory, Krasnodar. Registration expires on July 19, 2022.



### EXPERT OPINION

Expert opinion on the compliance of products with the Uniform sanitary-epidemiological and hygienic requirements for goods. The grounds for the recognition of products complying with the epidemiological requirements are the Protocol of the K.C. FGU "736 GC GSN Min.Oberona RF".



### CERTIFICATE OF CONFORMITY ISO 9001:2015

This certificate certifies that the quality management system applied to the development, design and production of machinery and equipment, as well as the device of industrial furnaces and chimneys. Valid until May 11, 2020

## GEOGRAPHY OF SALES



OVER THEN 130 CITIES  
already exploit more than  
500 units of equipment

1. Belgorod
2. Kostroma
3. Abakan
4. Achinsk
5. Adygeysk
6. Anadyr
7. Arkhangelsk
8. Astrakhan
9. Baghdad
10. Balashikha
11. Bamaul
12. Batzysk
13. Belogorsk
14. Birkuss
15. Birebidzhan
16. Bysk
17. Blagoveshchersk
18. Bogotol
19. Bryansk
20. Cherkesk
21. Domodedovo
22. Dushanbe
23. Elsta
24. Emelyanovo
25. Gorno-Altaysk
26. Grozny
27. Irkutsk
28. Islamabad
29. Ivanovo
30. Izhevsk
31. Kaliningrad
32. Kaluga
33. Kazan
34. Kemerovo
35. Kerch
36. Khabarovsk
37. Khanty-Mansyysk
38. Kirov
39. Kondopoga
40. Korsikov
41. Kosulka
42. Krasnodar
43. Krasnokamsk
44. Krasnoslobodsk
45. Krasnoyarsk
46. Kurgan
47. Kursk
48. Kyzyl
49. Labytnangi
50. Lima
51. Lipetsk
52. Magadan
53. Magas
54. Makhachkala
55. Matadi
56. Maykop
57. Millerovo
58. Mirmy
59. Moscow
60. Muzdok
61. Mumamsk
62. Nadya
63. Nakhik
64. Naryan-Mar
65. Nazarovo
66. New Urengoy
67. Nizhny Novgorod
68. Norilsk
69. Novgorod
70. Novodvinsk
71. Novorossiysk
72. Novosibirsk
73. Novouralsk
74. Nur-Sultan
75. Omsk
76. Orenburg
77. Oryol
78. Pechora

» See more