



Council on Environmental Safety



«Council on Environmental Safety»

International Public Organization

Human is the most valuable!

Green Planet
*fresh air, clear water, clean earth -
healthy future*

There are many public organizations in Ukraine that worry about the environment, trying to improve it. However, to work effectively it is necessary establish cooperation between the Government, the Verkhovna Rada, international and public organizations, environmental institutions, entrepreneurs and citizens. That is why was created International Public Organization «Council of Environmental Safety» in 2012, which has a priority of introducing the concept of «Human development of Ukraine», as the main national idea. «Human Development of Ukraine» this is deliberate process of civil society's life, in which the constitutionally enshrined political and socio-economic mechanisms of disclosure of effective application of spiritual, creative, intellectual, professional,

human cultural properties to achieve in Ukraine of high world standards of living.

IPO «Council of Environmental Safety» in favor of providing «Human development of Ukraine», taking into account that the development of the state is possible only if human potential of the country is included:

- Improving family prosperity and physical health of all its citizens;
- Warranty of social support and social protection application exclusively environmentally friendly technologies;
- Environmental safety, taking into account human needs, etc.



Structure of the «Council on Environmental Safety»

The Council is comprised of scientists & experts in the field of environmental protection, politicians, & top civil servants & public figures.



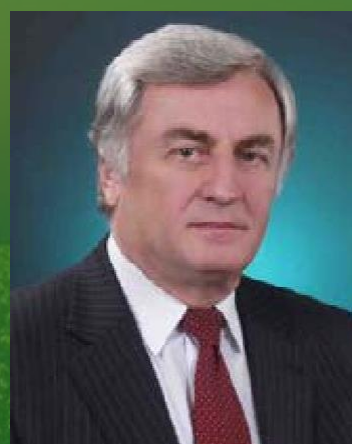
**Honorary President
Leonid Kadeniuk**

Ph.D., Hero of Ukraine,
first astronaut
from Ukraine.



**Head of the
Council -
Sergey Nikolaevich
Orekhov**

Doctor of Law,
Academic of the
Ukrainian Academy
of Sciences



**Deputy Head of the
Council -
Yuri Tunytsya**

President of the Forest
Academy of Sciences
of Ukraine, Rector of
the National Forestry
University of Ukraine,
Academic at the NAS
of Ukraine



**Secretary of
the Board -
Valery Ivanovich
Tsybukh**

Plenipotentiary
Ambassador of
Ukraine, Academic
of the Ukrainian
Academy of Sciences



Main Environmental Problems Facing Ukraine

- 1 Aftermath of the Chernobyl Disaster.
- 2 Environmental monitoring of the environment.
- 3 Promotion of cooperation «Human Development of Ukraine» between the Government of Ukraine, the Verkhovna Rada of Ukraine, environmental organizations, scientists and entrepreneurs, IPOs in solving problems, especially environmental.
- 4 Environmental education for civil society.
- 5 International Cooperation.
- 6 Conducting examinations of environment and activity of enterprises based on the priorities of «Human Development of Ukraine».
- 7 Food quality control.



Priorities and Goals of the Council

- 1 Integration of the masses around the concept of «Human Development of Ukraine» particularly with regard to the environmental issues, building civil union «Public Platform of Solidarity - Peace and Democracy».
- 2 Environmental monitoring of the environment.
- 3 Promotion of cooperation «Human Development of Ukraine» between the Government of Ukraine, the Verkhovna Rada of Ukraine, environmental organizations, scientists and entrepreneurs, NGOs in solving problems, especially environmental.
- 4 Environmental education for civil society.
- 5 International Cooperation.
- 6 Conducting examinations of environment and activity of enterprises based on the priorities of «Human Development of Ukraine».
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Ecological Solutions



- 1** Direct participation in the development of laws and regulations.
- 2** Development of environmental standards and projects for environmental safety.
- 3** The involvement of scientists and specialists of various institutions and universities, and the public, especially young people, to develop the concept of «Human development of Ukraine» and the issues related to environmental protection.
- 4** The mobilization of citizens, especially the youth, to participate in environmental activities.
- 5** Conduct training, workshops, conferences, etc.
- 6** Wide popularization of the «green economy», organic agriculture, ecological production, alternative energy, etc.
- 7** Conduct environmental assessments.
- 8** Implementation and development of ecological passports and environmental interactive maps.



International Efforts and Cooperation

“One Earth for us all” The ecological state of one region can not only drastically affect neighboring environments, but also influence the world’s ecology. Thus, it has become essential to unite the efforts of nations & peoples in the struggle to save our planet’s biosphere. This can be achieved through the exchange of knowledge & methods of ecological restoration; a great boon that can help the Ukrainian state overcome its environmental problems.

The «Council on Environmental Safety» was the sole representative of the post Soviet Union region at the First Preparatory Meeting of the 21st OSCE Economic & Environmental Forum. The meeting concluded with the drafting of several proposals aimed to increase the role of the OSCE in stemming the environmental problems that arise within the energy sector.

The «Council on Environmental Safety» took direct part in the preparation of the draft law “On Ratification of the legal status of the Regional Environmental Centre for Central & Eastern Europe (REC)” (from 24.06.2015 №1-1/434).

The Council aims to promote:

- Cooperation with the Regional Energy Center (REC) & other international organizations
- The Transition to European standards & criteria for the evaluation of the state of the environment
 - Implementing European legislation on environmental safety
 - Publicized events & activities



REGIONAL ENVIRONMENTAL CENTER

December 11, 2015 in Budapest, Hungary, the Ukraine delegation from the IPO «Council of Environmental Safety» consisting of Head of Delegation - Leonid Kadeniuk - Hero of Ukraine, the first astronaut of Ukraine, the Deputy Head of the IPO; Valeriy Tsybukh - Secretary of the IPO, Ambassador Extraordinary and Plenipotentiary of Ukraine; Riabyi Eduard - Head of Secretariat IPO, presented the priorities Council for REC. REC representatives presented the Ukrainian delegation report on 25-year activity from 1990 to 2015 g. - and shared their experience in solving environmental problems and the principles of environmental education for younger generation because it is the most important point in the REC. During the communication and information exchange REC representatives were impressed by the results which reached by the Council.

«Such active position and solving important environmental problems at the legislative level, shows us your team is the team of associates who are committed to decisive action» - said Matthias Pyuhrinher - Chief Executive Office director. Both sides agreed to sign a Memorandum for collaboration. They outlined prospects for future cooperation.





Legislative and Regulatory Activities of the Council



The «Council on Environmental Safety» has been directly involved in drafting many laws & documents, including :

- Law “On the production & circulation of organic agricultural products & raw materials”
- Draft Law “On banning deforestation & the introduction of a moratorium on lumber”
- Draft Law “On Amendments to the Criminal Code of Ukraine (concerning strengthening penalty for environmental pollution)”
- Draft Law “On Amendments to the Criminal Code of Ukraine & the Code of Ukraine on Administrative Offences (strengthening penalty for burning of foliage & garbage)”
- The Council appealed to the President of Ukraine Petro Poroshenko in an open letter warning about the ecological catastrophe in eastern Ukraine following the military activities in the region. A concern that the president addressed in his speech at the UN Climate Summit held in November 2015
- Development of the “Concept of Forestry & Wildlife Management of Ukraine”



Applied and Scientific Activities of the Council

The Council addressed the environmental safety initiative of scientists by developing & implementing a number of effective technologies to improve the state of the environment, including:

- Utilization of solid waste recycling & landfills
- Recycling of waste water & sludge
- Development of turbines for locations with low wind speeds
- Environmentally friendly Eco-Housing
- Self-sustained wind-driven aerator for the prevention of algae pollution in closed non-flowing water spaces
- Disposal of radioactively contaminated solid & liquid waste
- Development of control systems for monitoring the environment in real time
- Treatment of drinking water, & water purification

Electricity-free Solid Waste Disposal

Scope of the project

Modern cities currently face a myriad of problems (concerning solid waste disposal & recycling): the high cost of recycling; dependence on recycling plants; & the need for large amounts of electricity.

SOLUTION:

The disposal of solid wastes in landfills without the use of electricity

Process

Solid waste is sorted depending on it's type & qualities

Glass, metals, & plastics are separated from the residue

Residue is enriched with peat or sawdust

The resulting mixture is dried, milled, & briquetted.

Potential Users: regional communal enterprises & private enterprises

Domains of Application: public utility & the lumber industry

Uniqueness of the Project

- Recycling can take place at the landfill
- Saves time, & the costs of energy & transportation
- The resulting pellets & briquettes act as a fuel source that can prove to be essential to schools, hospitals, & populated regions in general



Economical Effectiveness of the Project

Disposal & recycling of solid wastes at landfill sites at half the costs of traditional recycling plants

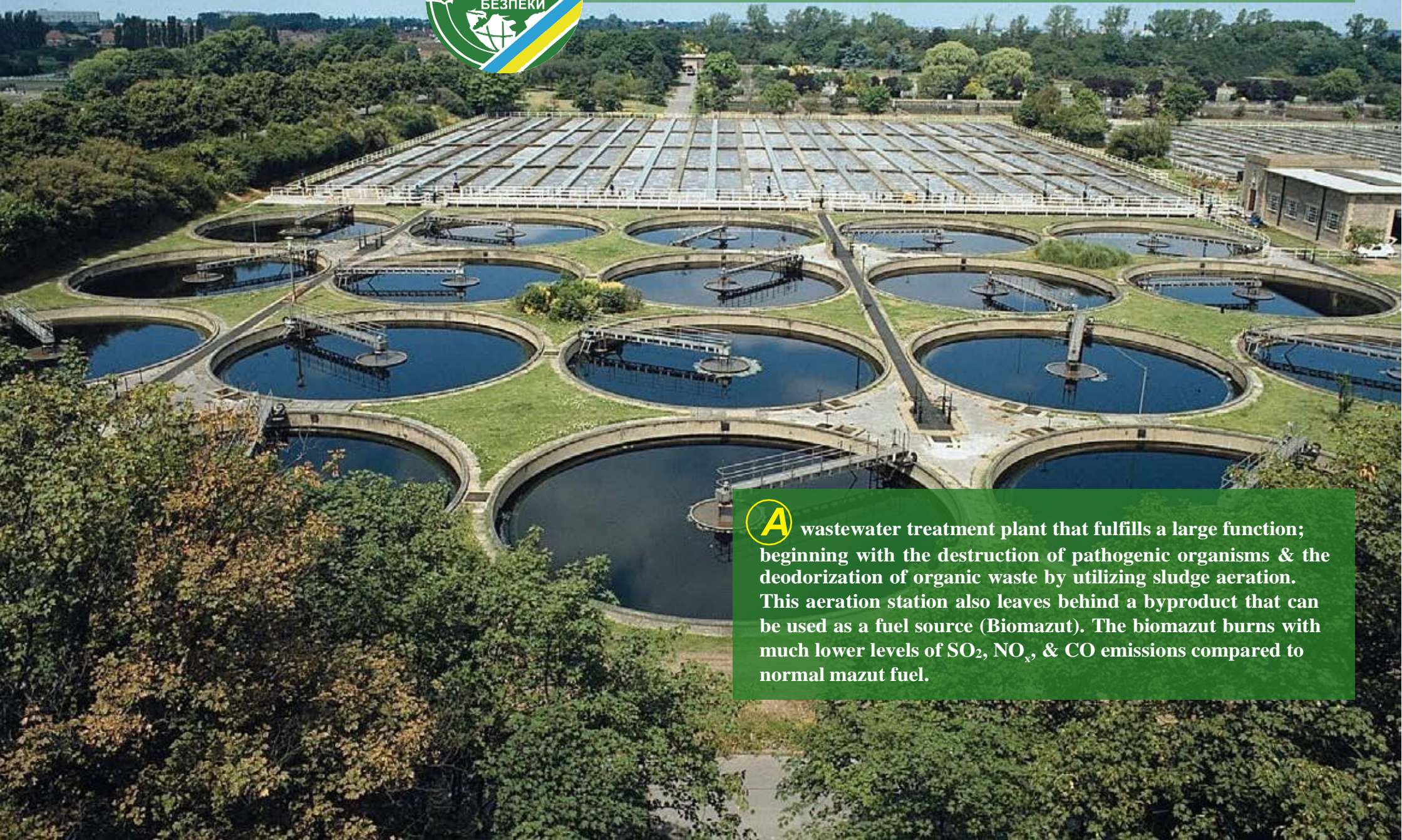
The advantages are even more pronounced in regions that lack recycling plants

Saves on the costs & expenditures of transportation





Urban Wastewater Treatment Plants



A wastewater treatment plant that fulfills a large function; beginning with the destruction of pathogenic organisms & the deodorization of organic waste by utilizing sludge aeration. This aeration station also leaves behind a byproduct that can be used as a fuel source (Biomazut). The biomazut burns with much lower levels of SO_2 , NO_x , & CO emissions compared to normal mazut fuel.



Free from Pesticides and Agrochemicals

By 2012, Ukraine had been using over 1500 types of pesticides & agrochemicals - ten times the number in Europe. The «Council on

Environmental Safety» instituted a program for the disposal, & prohibition of the use of dangerous & unfit chemicals as pesticides.

The Onipko Rotor

The council commissioned the development of a new means to tap into a fresh source of renewable energy throughout Ukraine. The result was a unique wind turbine, The Onipko Rotor; a turbine designed to provide electricity in areas with low wind speeds. Its defining characteristics are:

- Functionality in areas with low wind speeds as well as areas with high wind speeds
 - Low noise level
- Functionality in sudden & turbulent wind variation
- Versatility of installation; the rotor can be placed on rooftops & houses below treetop level, or even on the ground.
 - No mechanical vibration
- The ability to intercept wind from various directions
 - Attractive design
 - Safe for animals & birds

● Average annual wind speed less than 5.6 m/sec ● Average annual wind speed between 5.6 m/sec and 7 m/sec



Global Average Annual Wind Speed Map



Onipko
ROTOR

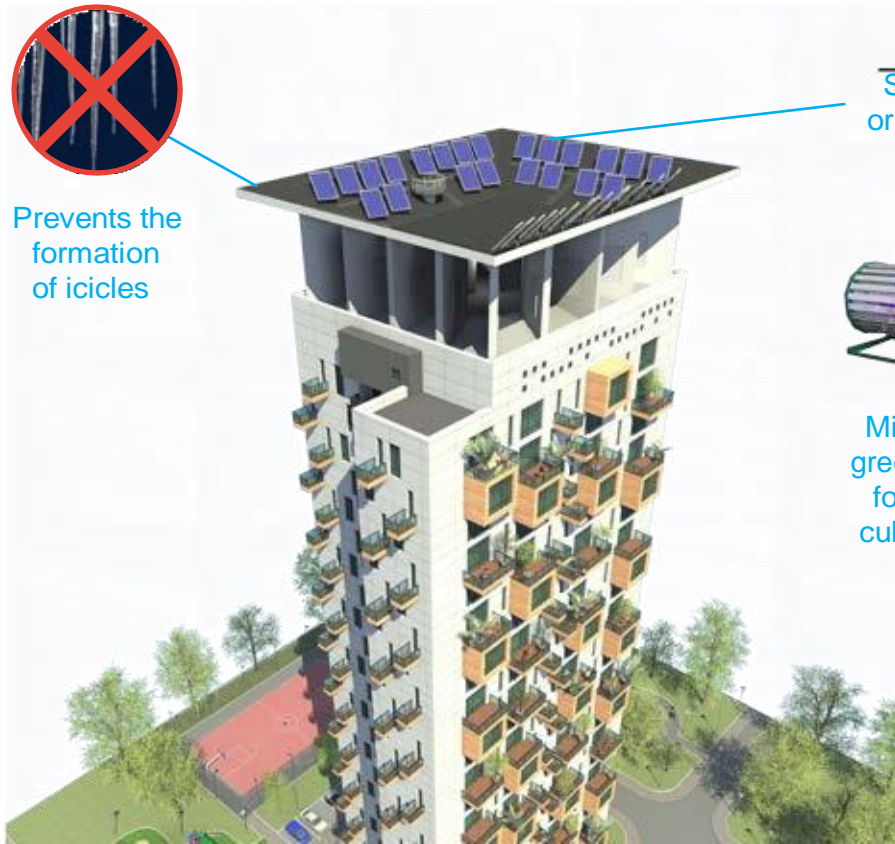


Eco-Housing

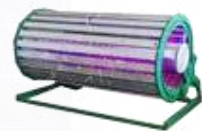
The council initiated the development of the Eco-house; an environmentally-friendly energy-independent concept for modern buildings. The roof is constructed to provide electricity from wind & solar energy. This installation also allows for the collection of rain, snow water, & moisture from the atmosphere to be recycled for domestic use. In addition, the special design of the roof prevents the formation of icicles due to it's slanted angle.



Prevents the formation of icicles



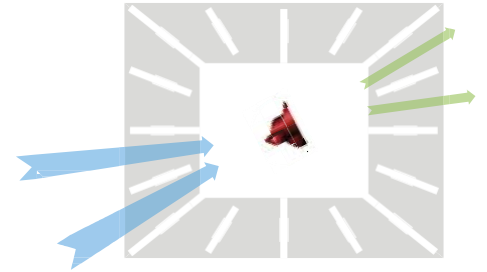
Solar panels with orientations system



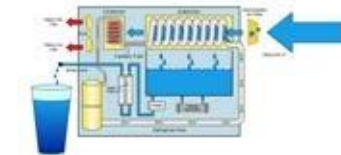
Miniature greenhouse for plant cultivation



Water reservoirs for collecting precipitation

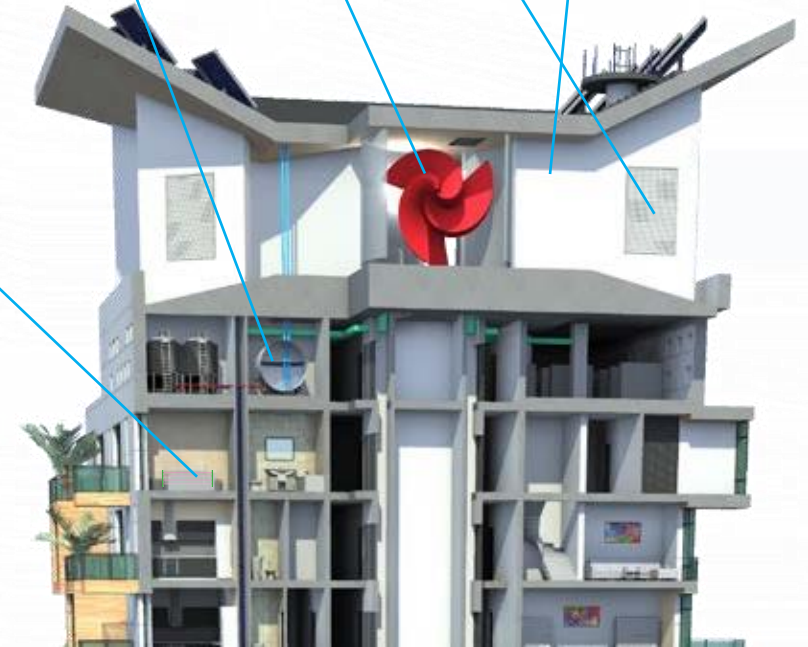


Wind amplifiers (confuser/diffuser configuration)



Water condensation from the atmosphere

Onipko Rotor



Wind-Driven Aerators

The council initiated the development of technologies to combat algal blooming in artificial & natural bodies of water (prevention of the formation of blue-green algae). The resulting water aerator is powered by an Onipko Rotor, & provides a byproduct of electric supply.



Algae pollution seen from space



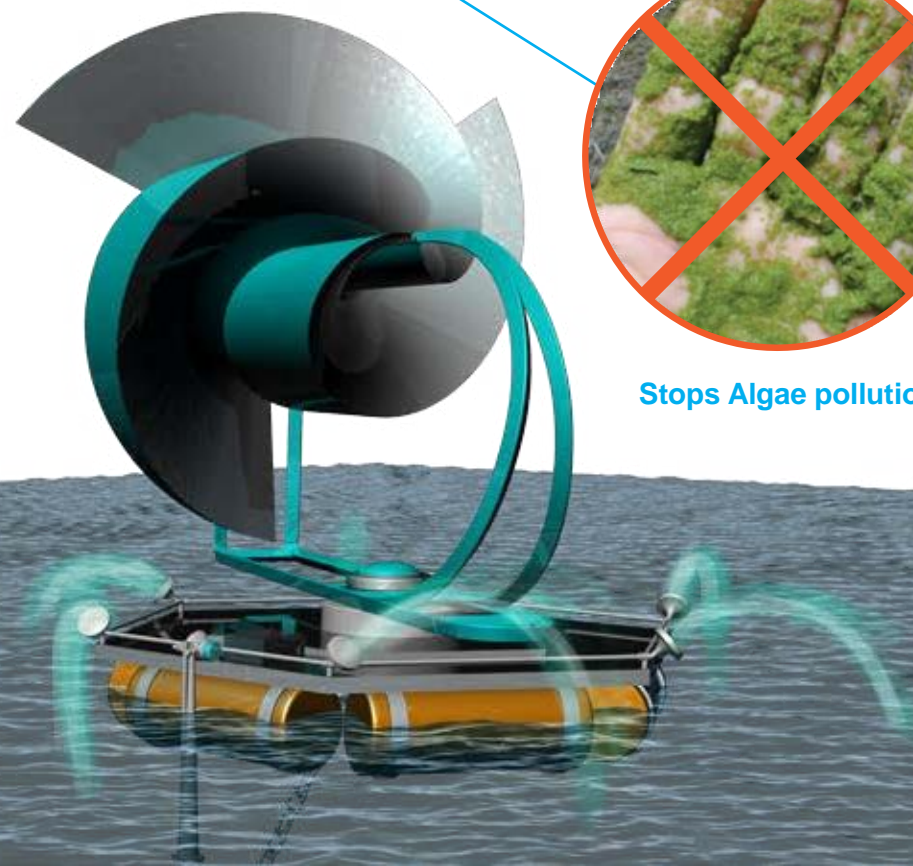
Algae under a microscope



Improves Fish Vitality



Stops Algae pollution



Environmental Monitoring

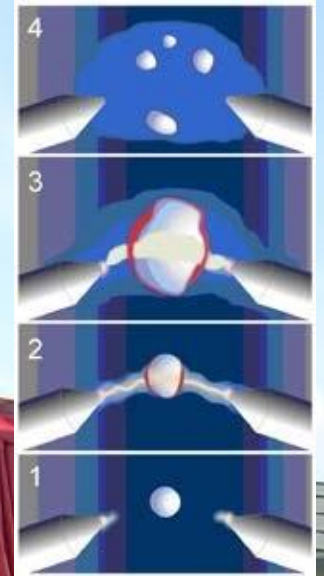
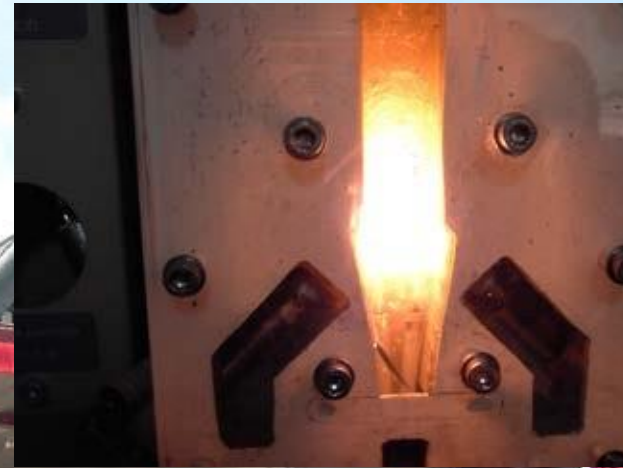
In order to facilitate an online real time environmental monitoring system, the «Council on Environmental Safety» recommended the development of uninterrupted supervision sensors.

The system works in real-time, continuously monitoring environmental readings such as air quality, radiation levels, etc. In case of any abnormal readings authorities are immediately notified.



Recycling Radioactive Solids and Liquids

A unique system used for the treatment of radioactive soil & water by means of steam plasma technology. The installation was successfully tested and deployed at the Fukushima disaster site; the system was set up on mobile platforms near the location of the Fukushima Daiichi nuclear power plant.



International Public Organization
«Council on Environmental
Safety» welcomes you for
cooperation!

Contacts

tel/fax: +38 (044) 279-52-91

Ukraine, Kiev

01000 Khreschatyk str. 7/11

www.ecorada.com.ua

zl220@ukr.net



«Council on Environmental Safety» IPO

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healthy future*