

Limited Liability Company
PROJECT - TECHNOLOGY ENGINEERING CENTRE
“ EKROS ”

(Ecology - constructive environment reanimation)

- **P.T.E. Centre “ Ekros” is founded in 1991**
- **P.T.E. Centre “ Ekros” consists of 32 high-quality specialists who have an experience of scientific-research and engineering work with piroelysis processes and vacuum technique**
- **P.T.E. Centre “ Ekros” has three branches two joint-venture enterprises in its structure**
- **P.T.E. Centre “ Ekros” is situated in the Central Office on the following address :**
 - flat 30, Internationalists str. 20a,**
 - 322640, Dneprodzerzhinsk,**
 - Ukraine.**
 - tel. fax 8 (0569) 9-94-45**

General Director : Anatoly N. Kuznetsov
Technical Director: Raisa K. Onufrienko

№ 1

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Centre Activities :

- **P.T.E. Centre “ Ekros” is engaged in the technical documentation development of the new works founded by the centre**
- **P.T.E. Centre “ Ekros” reconstructs ecologically dangerous works**
- **P.T.E. Centre “ Ekros” works out design documentation for the new highly-effective apparatuses and is engaged in their production, assembling and start-adjusting work**
- **P.T.E. Centre “ Ekros” patents and realizes intellectual property in the kind of technological solutions**
- **P.T.E. Centre “ Ekros” realizes conjunctural and patent search, sells licenses for its inventions**

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Products of the Centre:

- **P.T.E. Centre “ Ekros” offers for selling : zirconium tetra fluoride (ZRF4), superpurified (99,999 % mas)**
- **P.T.E. Centre “ Ekros” offers for selling : consumer- universal apparatuses for water purification**
- **P.T.E. Centre “ Ekros” offers for selling : film - turbulent heat -exchangers**
- **P.T.E. Centre “ Ekros” offers for selling : film extractors**
- **P.T.E. Centre “ Ekros” offers for selling : wind - mill plants (Fluttering)**
- **P.T.E. Centre “ Ekros” offers for realizations : ecologically purified technodogies of the output of the metals not having analogues in purification, their alloys and yielded to sublimation substances**
- **P.T.E. Centre “ Ekros” offers for selling : industrial water purification plants**

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New Elaborations of the Centre:

- **P.T.E. Centre “ Ekros” elaborated absolutely new technology of refractory metals and its alloys on their basis by means of synthesis in the metalthermal processing where metal melting, containing 7 500 kg of special product (titanium ,zirconium, uranium, hafnium) is moulded for 48 seconds**
- **P.T.E. Centre “ Ekros” elaborated absolutely new method and equipment for this new technology realization, where homogeneous and isotropic in volume ingot
and / or product is obtained balanced even in the case when the product height exceeds its cross section 6 - 8 times**
- **P.T.E. Centre “ Ekros” moulds (with the help of the equipment) a homogeneous and isotropic in all the volume ingot in the conditions of a deep (10 mm. of mercury column) vacuum**

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New Elaborations of the Centre

- **P.T.E. Centre "Ekros" elaborated absolutely new (no analogues in the world) sublimator "Pritok" (with evaporator periphery reactor and tandem – axle condenser like a ring of smoke)**
- **P.T.E. Centre "Ekros" obtains, by means of the sublimator "Pritok", the coefficient of substance concentration 1000 – 10000 times higher than any foreign coefficient**
- **P.T.E. Centre "Ekros" can concentrate, by means of the sublimator "Pritok", any substance which is sublimated at the temperature not higher than 1300 °C**
- **P.T.E. Centre "Ekros" can concentrate, by means of the sublimator "Pritok", uranium hexafluoride (UF₆) up to 99.99999% mass, zirconium tetrafluoride (ZrF₄) up to 99.999% mass**

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New Elaborations of the Centre

- **P.T.E. Centre "Ekros" elaborated absolutely new (no analogues in the world) bioelectromagnetic filter for water purification (or weak electrolytic solutions) of heavy metal admixtures and microorganisms**
- **P.T.E. Centre "Ekros" elaborated, on the basis of bioelectromagnetic filters, a consumer universal apparatus for water purification with the output 3 liters/min and an industrial plant with the output 10-15 m³ /hour**
- **P.T.E. Centre "Ekros" obtains (with the help of their apparatuses and plants for water purification) not only pure, drinkable and medicine- table water, but water with strong bactericidical properties.**
- **P.T.E. Centre "Ekros" guarantees the bioelectromagnetic filter operation for not less than 20 years**

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New Elaborations of the Centre

- **P.T.E. Centre "Ekros" predicted theoretically and confirmed experimentally the opportunity of obtaining energy out of deuterium – tritium component of natural water**
- **P.T.E. Centre "Ekros" elaborated, made and carried out series of research experiments on effectiveness of the new process of energy obtaining out of natural water. For all this we got the results where the obtained energy exceeded the energy in more than 1.5 – 2 times**
- **P.T.E. Centre "Ekros" proved that the additional energy is obtained mainly in the shape of thermal photons; For all this the detectors didn't register any hard gamma and neutron radiation**
- **P.T.E. Centre "Ekros" elaborated a new plant which will generate not only thermal but electrical energy**

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Business aim. Offer of the Centre:

- **P.T.E. Centre "Ekros" is looking for the partners who would agree to take part in the joint establishing of the new works in Ukraine as well as abroad.**

For all this:

The Centre guarantees the elaboration of technical and design documentation, makes the equipment, accomplishes its assembling, start-up operations and organizes the production of the base product. The partner should undertake to sell end product and fulfil all kinds of work, connected with this production