

The innovative proposition

to attract investors and buyers

1. Name of innovation

METHOD OF ENERGY EFFICIENCY ENHANCEMENT OF COMPRESSOR REFRIGERATION SYSTEMS BY MEANS OF THE IMPLEMENTATION OF NANOTECHNOLOGY

2. Intellectual Property

Select the appropriate position, put the mark «+». Write relevant information.

- Patented Innovation countries: Ukraine
- Filed for a patent countries: _____
- License agreement or Exclusive rights. Exclusive rights
- Other (specify) _____

3. Type of innovation

Select the icon by replacing from "-" to "+"

-	Product
+	Technology

+	Result of R&D
-	Other (discussed separately)

4. Areas of innovation

Select one or more applications innovation by replacing from "-" to "+" .

+	Automobiles, transport and logistics
+	Agriculture and food technology
-	Aerial and space technology
-	Biochemical technology
-	Building
-	Military Industrial and Safety
+	Energy and Energy Saving
-	IT-technology, ICT industry and services
-	Light industry
-	Marine industry and services
-	Environment
+	Nano- and Micro Technology
+	New materials
-	Medicine and Health
-	Creative industry
-	Tourism and cultural heritage
-	Other. (Please specify below the scope)

5. Novelty

What does innovation superior (in digits or qualitatively) already existing? (The answer should be clear and concise - three main arguments in support of the use of promising innovations in domestic and/or foreign markets)

The technology of the production of nano-oils, nano-coolants and nano-refrigerants with regulation of their thermophysical properties and heat transfer characteristics are proposed to enhance the energy efficiency of refrigerating industry. The implementation of the proposed technology will lead to reduce the energy consumption of the operating refrigeration systems and reduce the material consumption of heat exchangers in new refrigeration systems.

The reducing in energy consumption of refrigeration compressor systems within 5-10% can be obtained.

The intensification in heat transfer processes, consequently reducing the cost of heat exchangers (evaporators and secondary heat exchangers) within 5-10% can be obtained.

The proposed nanofluids will demanded by producers of colants and refrigerants and by producers of equipments in which used this fluids. The main purpose of implemintation of these fluids is enhance the competitiveness of products (refrigeration equipment, cooling systems for transformers, combustions engines, radio-electronics devices, including dual-purpose applications).

6. Stage of Innovation

What is innovation's stage of development? Select the icon by replacing from "-" to "+"

-	The concept, proof of concept
+	The prototype, which tested and available for demonstration
-	The technologies for small-scale production
-	The technology is ready for industrial application
-	Commercialized

7. The presentation innovations

Select one or more forms by replacing badge from «-» to «+»

+	The demonstration model
+	Multimedia presentation
+	Report

8. Information about the participants, which apply innovation

	<i>If innovation is filed away</i>
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