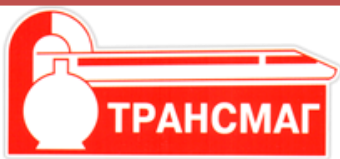


INDUSTRY

Total – 9 projects, of which:
7 – business of the region
2 – territorial communities

Production of integrated uninterrupted power and heat supply systems for industrial and residential facilities (The Institute of Transport Systems and Technologies of the National Academy of Sciences of Ukraine, the city of Dnipro)	1
Creation of modern tractor production and agricultural machine building («Yuzhmash», the city of Dnipro)	3
Creation of biodegradable eco tableware production («Eco Corn» LLC, the city of Dnipro)	5
Creation of armed concrete production complex (Mezhivska TC, Synelnykivskyi district)	7
Creation of metal packaging production complex («Metal print» LLC, the city of Dnipro)	9
Creation of the polymer material sheets production (SPE «Ukrkhimzakhyst» LLC, the city of Pavlohrad)	11
Creation of an enterprise for the design and manufacture of high-tech equipment (SPE «Ukrkhimzakhyst» LLC, the city of Pavlohrad)	13
Creation of laminate tubes production («Eliksir» LLC, the city of Dnipro)	15
Creation of AdBlue production («MIM» PE, the city of Dnipro)	17





Production of integrated uninterrupted power and heat supply systems for industrial and residential facilities

1



Construction of a plant for the production of integrated systems of uninterrupted power and heat supply, as well as their elements.

The innovative products of the Project are:

- 1) integrated systems of uninterrupted electricity and heat supply with using batteries of the new generation, heat pumps, as well as solar and wind energy installations;
- 2) lithium-ion accumulators and batteries for various fields of use.

The production of lithium-ion batteries as the main element of integrated power and heat supply systems is planned to begin with their assembly using cells from foreign manufacturers, which is due to relatively small volumes of capital investments and makes it possible to adjust production to new types of lithium-ion cells. In the process of development of battery production, it is planned to master the own production of some electronic battery control modules, thermal stabilization systems and body parts. In the future, development of serial production of lithium-ion battery cells will be started. Modern high-tech equipment will be used for this.



Initiator

The Institute of Transport Systems and Technologies of the National Academy of Sciences of Ukraine

<https://itst.org.ua>



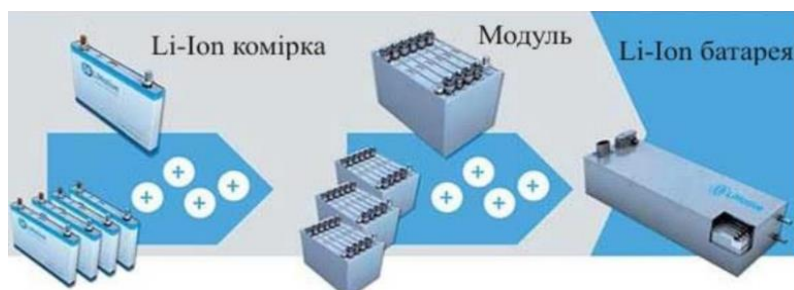
Duration

36 months



Project goals

- creation of the first complex in Ukraine for the production of integrated systems of uninterrupted electricity and heat supply using new generation batteries, heat pumps, as well as solar and wind power plants;
- take a worthy place in the international division of labor in the field of high technologies and provide additional impetus to domestic scientific developments;
- production of lighter and smaller batteries compared to other types of batteries;
- processing and disposal of used lithium-ion batteries with the receipt of various types of raw materials with a high concentration of lithium, cobalt, nickel, manganese and other materials that can be used again for the production of lithium-ion batteries.



Project economic indicators

Project total cost: \$65 mln

- production of lithium-ion batteries - **\$50 mln**
- production of integrated systems of uninterrupted power and heat supply for industrial and residential facilities - **\$15 mln**



Production of integrated uninterrupted power and heat supply systems for industrial and residential facilities

2



Project technical parameters

Land plot characteristics :

- **area:** 5,2 ha;
- **intended purpose:** industry land;
- **cadastral number:** is assigned;
- **management:** land lessee.

Engineering infrastructure:

Water supply, gas supply, power supply are available and don't need additional investments.

Transport infrastructure:

Automotive road E50 – 7 km;

railway station «Dnipro-holovnyi» - 8 km;

railway line – 1 km;

river port – 9 km.



Mechanism of cooperation

- Investing in the project;
- Joint venture creation.



Additional information

Today, lithium-ion technology is the fastest growing and most promising area of battery production.

In 2022, the global lithium-ion battery market was estimated at \$46 billion.

According to various analytical centers, the average annual growth rate of the of the lithium-ion battery market in the coming years will be 15-19%, and its volume will reach \$170-270 billion in 2030.

The main segments of this market are autonomous electric transport and energy storage systems for both power grids and autonomous and

uninterruptible power supply systems.

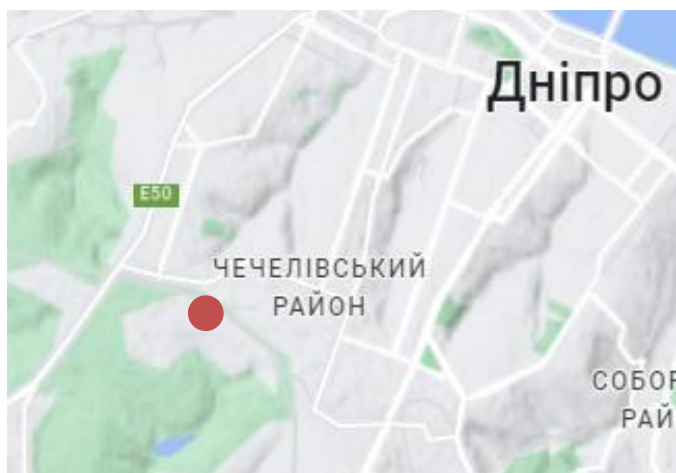
The production of such integrated systems will develop rapidly in the coming years, so an important task of industrial policy in Ukraine is to build national competencies in the production of all components of these systems, especially lithium-ion batteries, which are used in all areas of human activity.

For Ukraine, which is under the threat of damage to Ukrainian energy infrastructure as a result of hostilities, the use of such integrated solutions is not only critical, but also vital.



Project location:

Dnipropetrovsk region,
The city of Dnipro, Chechelivskiy district



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Creation of modern tractor production and agricultural machine building



Saturation of the Ukrainian market of agricultural machinery with modern domestic products through cooperation of SE "Makarov Southern Machine-Building Plant" (Yuzhmash) with world manufacturers of tractors and their components.

The Ukrainian market needs in tractors are covered by imports, which account for 95% (\$796.2 mln/year).

The structural subdivision Dnipro Tractor Plant of O.M. Makarov Machine Building Plant manufactures agricultural multipurpose wheeled tractors of 1.4 ts class, with power from 65 to 100 hp. Production of spare parts for YUMZ tractors is carried out.



Initiator

«YUZHMAŠ»

<https://yuzhmash.com/ua/>



Duration

2 years



Project goals:

- utilization of existing production capacities and creation of additional capacities to produce up to 10 thousand tractors per year. Now the enterprise produces 1 thousand tractors per year.
- saturation of the market with competitive domestic agricultural machinery;
- transition to new resource-saving technologies, improvement of technical level, quality and reliability of tractors;
- development and realization of the project of reconstruction and technical re-equipment of the existing production;
- creation of additional 2000 workplaces;
- increase in tax deductions.



Economic indicators of the project

Total project cost: \$10 mln

- Company contribution to implement the project **\$ 0,3 mln**

Net present value (NPV)	\$ 1,5 mln
Internal rate of return (IRR)	14,26 %
Payback period (PP)	4,7 years





Creation of modern tractor production and agricultural machine building



Project technical indicators

Company Resources:

- operating enterprise located in an industrial zone with its own railroad tracks and storage facilities;
- own tractor production, where both assembly of Chinese tractors and production of own tractors and additional equipment for them are carried out;
- buildings and constructions to accommodate production, with a total area of 93,000 m²;
- a project for tractor production has been developed (requires recalculation).

Engineering infrastructure:

- Water supply, gas supply, electricity supply are in place and do not require additional investment.

Logistic infrastructure:

- road and railroad accesses to the production territory are available.

Land plot:

- **area:** 9.3 ha;
- **intended use:** industrial land;
- **cadastral number:** assigned;
- **disposer:** lessee.



Project location:

Dnipro



Mechanisms for cooperation

- equity participation;
- lease of production facilities;
- joint venture.



Additional information

The enterprise has sufficient production capacity to manufacture tractors. It is important for this purpose to renew material and technical base and to form a portfolio of orders. Among the possible prospects of development of the tractor plant is the project of joint production of wheeled tractors on the basis of production capacities of the Enterprise.

In 2021, 9416 new tractors were sold in Ukraine, and in 2022 - only 3585. This is due to the fact that in previous years tractors of Minsk Tractor Plant traditionally dominated. With the introduction of trade sanctions against Belarus, the import of products from this country into the customs territory of Ukraine was stopped. Accordingly, a huge vacuum was formed in the Ukrainian market, which was immediately filled by Chinese tractors of the corresponding class. Thus, Ukraine needs domestic production of tractors.



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**Initiator**
 «ECO CORN» LLC
www.eco-corn.com

Production of biodegradable eco-dishware



The project provides for the opening of its own production of biodegradable tableware made of corn starch in Ukraine.

**Duration****12 months**

Project goals

- Increase in turnover up to \$100,000 per month;
- Expansion of the customer base through the production of new products to order at our own facilities;
- Reducing the cost of production, as well as its cost to the end consumer;
- Increased tax revenues to the local budget;



Project economic indicators

- More than \$150,000 invested in the existing company today;
- The company's turnover per month - 30,000 - 35,000 U.S. dollars;
- Product profitability - about 25%;
- Number of employees - 10 people.
- Existing customers of the company - Epicenter, Varus, Subaru, Ferrexpo and others.



It is planned to select, purchase, install and set up a line for the production of disposable biodegradable tableware from corn starch-based polymer. Also the selection and testing of raw materials, rent of production premises, utilities and payment of employees (5 people) in the first month of operation of the enterprise.

Production of biodegradable eco-dishware



Mechanisms for cooperation

- *Investment needs of the company - 400-450 thousand dollars.*

Mechanism of cooperation:

- *Refundable investment with a return period of 4-6 years after production reaches the break-even point for 3 consecutive months*
- *Grant financing of the project*



Biodegradable tableware applications



Grocery production



Cafes and restaurants



Hotel and beach business



Green Office



Catering



Retail



Additional Information

According to Verified Market Research, the global market for biodegradable tableware was valued at nearly \$3 billion in 2018.

The market is expected to grow by more than 1.5 times by 2025, as measures by developed countries to eliminate the use and consumption of disposable tableware contribute to this growth.



Project location: Dnipro, Dnipropetrovsk region



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7



Initiator

Complex of armed concrete products production

Mezhivska TC
www.mezhova.otg.dp.gov.ua/ua



Community proposes land plot and premises in the village of Mezhyzhivka for the establishment of an enterprise for the production and wholesale of concrete products (paving tiles, curbs, fences, etc.).



Project goals

- meeting the needs of the population of adjacent communities for armed concrete products;
- the production of armed concrete products and the creation of the construction sector of the community;
- increase of tax revenues to the community budget;
- reconstruction and renewal of infrastructure on the territory of TC (sidewalks, curbs, tiles, etc.);
- provision of quality services and products to customers;
- development of the concrete products market in the region;
- cooperation with construction companies in the region.



Economic indicators of the project

Required investment capital: \$ 80,000;
Payback period: 7.5 years.



Complex of armed concrete products production



Technical parameters of the project

Characteristics of the land plot:

area: 1.1 hectares;

Intended purpose: for the construction and maintenance of buildings of public service institutions;

cadastral number: assigned;

leaseholder: Mezhyvska settlement TC.

Engineering infrastructure:

Water supply - centralized (water intake column);

Water disposal - centralized;

Gas supply - gas distribution point - 2 km;

Power supply - substation 35/10, rated capacity of 1800 + 2500 KVA - 1 km.

Logistics Infrastructure:

European highway - 15,7 km;

International road - 15,7 km;

airport - 151 km;

Dnipro - 162 km;

Zaporizhzhia - 158 km.

Neighboring areas: railway station, warehouses, elevator, combine of bakeries.



Mechanisms for cooperation

- lease by auction



Additional Information

The appearance of a modern community is one of the factors of quality of life. It depends not only on the buildings and structures with which it is built up, but also on the type of landscape that surrounds them. For most cities, towns and villages in Ukraine, the quality of living space remains an acute problem, because the pedestrian zones and public spaces need repair. Production of reinforced concrete products, namely paving tiles and elements of public space decoration is a promising business. At the same time, on the territory of Mezhyvska TC, the use of new reinforced concrete materials remains at a low level and requires renovation.



Project location: Dnipropetrovsk region, Mezhyvska TC



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10

Production of metal packaging



Technical parameters of the project

Land plot characteristics

- **area:** 2.5 ha;
- **intended use:** industry land;
- cadastral number: issued;
- **administrator:** lease holder.

Engineering infrastructure:

Water, gas and electricity are available and do not require any additional investments.

Transport infrastructure:

There are available both auto and railway access to the production territory; the river port is at a distance of 5 km.



Mechanisms for cooperation

- credit line up to 7% year in foreign currency;
- share interest in percentage according to the amount of investment



Additional information

Today already launched:

varnishing line and full color printing line - manufactured by KBA-MetalPrint GmbH (Germany);
 CPT & ndash equipment system for pre-pressing - manufactured by AGFA (Belgium);
 X-Rite (IGT) modern laboratory of varnishes and paints;
 production line of twist off lid type - manufactured by Rainer Naroska (Germany) d 82 mm, 66 mm, 53 mm;
 production line of metal canisters (18-20 liters) (Germany);
 production line of cap for preserving glass jar.



Project location: I and II phase of the project – the city of Dnipro.



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Manufacture of the polymer materials sheets production



Creating a new enterprise for the sheets production of polymer plastic sheet of polyethylene, polypropylene and other polymer materials.



Initiator

SPE Ukrkhimzakhyst,
LLC

<http://anticor.dp.ua>



Duration

8 years



Project goals

- Creation of modern production;
- Saturation of the Ukrainian market with domestic products;
- Increasing tax revenues to the local budget;
- Creation of 35 new jobs.



Project economic indicators

Required investment capital: \$ 4.3 mln



Net Present Value (NPV)

\$ 1,8 mln

Payback Period (PP)

8 years

Internal Rate of Return (IRR)

26%

EBITDA

\$ 10,4 mln



Manufacture of the polymer materials sheets production



Mechanisms for cooperation

- credit, venture capital;
- joint venture;
- other joint activities.



Additional Information

Today these products are imported to Ukraine. At start of own full cycle production, the release per sheet will be 3,5 euro/kg, and in the complete cycle will be up to 20 euro/kg.

The delivery schedule of raw materials supply for the production of polypropylene and polyethylene sheets provides cooperation with domestic and foreign producers.

Technical parameters of project
Polymer plastic sheet of polyethylene, polypropylene and other polymer materials using automated line EXT */120/* type.



Project location: To be determined by the project initiator



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Creation of an enterprise for the design and manufacture of high-tech equipment



Creating an enterprise for the design and construction of tanks from polymeric materials (polypropylene, polyethylene, teflon, etc.), as well as technological equipment based on them.



Initiator

SPE Ukrkhimzakhyst,
LLC

<http://anticor.dp.ua>



Duration

5 years



Project goals

- Creation of modern production;
- Saturation of the Ukrainian market with domestic products;
- Increasing tax revenues to the local budget;
- Creation of 45 new jobs.



Project economic indicators

Required investment capital: \$ 1.1 mln



Net Present Value (NPV)

\$ 10 mln

Payback Period (PP)

5 years

Internal Rate of Return (IRR)

26%

EBITDA

\$ 1,3 mln



Creation of an enterprise for the design and manufacture of high-tech equipment



Mechanisms for cooperation

- credit, venture capital;
- joint venture;
- other joint activities.



Additional Information

Technical parameters of project

- production of storage equipment and technological systems operating in harsh conditions (contact with acids, alkalis, salt solutions, exposed to mechanical abrasion);
- creation of equipment that matches the conditions of high-risk equipment operation.

The enterprise implemented 8 relevant projects: (Yug-Neftegaz Ltd, Ukrbudgaz, Roshen, JSC «U.P.E.C.», Kyslorodmash, MAS Seeds Ukraine).



Project location: To be determined by the project initiator



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Production of laminate tubes for food, cosmetic and pharmaceuticals products



The business is engaged in the production and sale of cosmetics and dietary supplements in the form of syrups, edible gel, tablets and capsules.

The owners of business strive to develop the company and reduce production costs. This can be achieved by laminated tubes production, for its further usage in production and sale.



Initiator

«Elixir», LLC
www.elixir.ua



Duration

5 years



Project goals

- Reduce the business production cost by launching the line;
- Tube production;
- Tube sale;
- Creation of 70 new jobs.



Project economic indicators

Required investment capital: \$ 10.2 mln

Initiator contribution to the project implementation: \$ 100 thousand.



Internal Rate of Return (IRR)

20%

Payback Period (PP)

5 years



Production of laminate tubes for food, cosmetic and pharmaceuticals products



Mechanisms for cooperation

- credit, venture capital;
- joint venture;
- other joint activities.



Additional Information

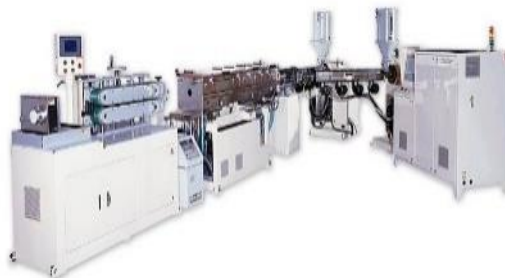
In addition to the cosmetic industry, tubes are used in various fields, for example: food industry - sauces, liquid seasonings, condensed milk; chemical industry – adhesives and encapsulant; pharmaceuticals industry - ointments, gels. On the Ukrainian market and abroad packaging in the form of a tube is very popular both in the cosmetic and in the food industries.

Almost all cosmetic manufacturers in packing products creams, gels and balms prefer tubes. The tube as packaging, is very convenient for consumers. Such manufacturers are potential buyers.



Project location:

To be determined by the project initiator



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Creation of AdBlue production



Production of AdBlue diesel engine additive in accordance with VDA (German Association of the Automotive Industry) technologies.

Private enterprise "MIM", founded in 2002, acts as a partner to support the German company "BASF-CHEMETALL" in Ukraine, which is an extraordinary member of the VDA and holds a license for the AdBlue brand. Currently, PE "MIM", is looking for a partner to organize the production of AdBlue. This innovative product is the embodiment of consistently high quality and is seen as a strategic step towards environmental protection and the introduction of advanced technologies in the transport industry.

The line's capacity will be: 9 thousand liters per hour (with an 8-hour working day - 1.3 million liters per month or 16 million liters per year).

After the launch of AdBlue production, PE "MIM" also plans to open a second production facility: plastic containers of 5 liters, 10 liters, 20 liters, 1000 liters IBC cube.



Initiator

PE «MIM»

<https://mimdp.com.ua/>



Duration

3 years



Project goals

- reduce the environmental impact of motor vehicles by effectively reducing NOx emissions and contributing to cleaner air;
 - growing demand for AdBlue due to strict environmental standards and vehicle emission requirements creates a promising market for the production;
 - the use of advanced technologies in production guarantees high quality and competitiveness of the products;
- AdBlue production can become a part of the green energy strategy by using energy-efficient and environmentally friendly technologies;
- the project is orientated towards the Ukrainian consumer and for export;
 - creation of additional 9-15 workplaces.



Project economic indicators

Project total cost: \$341.3 thousand, including:

1. fixed assets:

- For purchase of equipment from the EU: \$ 177,1 thousand.
- For purchase in Ukraine: \$ 99,5 thousand.

2. current assets: \$34.1 thousand.

Company resources for project implementation: \$120 thousand.

Estimated payback period of the project: 30-36 months.



Creation of AdBlue production



Project technical parameters

Facilities:

For the production, there will be rented premises in Dnipro with an area of 500 m².

Communal services and requirements:

Water - 40,000 m³/month.

Electricity - 8,000 kW/month.

Transport infrastructure:

Three different types of transport will be purchased to ensure timely transport.

About PE "MIM":

- Since 2002, MIM has been a leading specialist in the Ukrainian market in the field of implementing technologies for chemical treatment of metal surfaces before painting (degreasing, phosphating, zirconium passivation), pipe and wire drawing, hot-dip galvanising, flaw detection, rust and old paint removal, etc;
- Since 2011, MIM has been the only official distributor in Ukraine of Basf-Chemetall (formerly Chemetall), which is a leader in its field.
- MIM has partnerships with a number of other European companies in the field of metalworking and related equipment - TIB, HERWIG, B4S, UMICORE.



Project location:

Dnipro



Mechanism of cooperation

- equity participation;
- creation of a joint enterprise;
- grant funds.



Additional information

AdBlue is an additive for diesel vehicles that reduces nitrogen oxides in diesel engine exhaust by 90%. The use of AdBlue is required by European environmental standards Euro 4-5-6 and is mandatory for diesel vehicles that meet EU standards.

Last year, the Ukrainian market for this reagent more than doubled (+108%) to 48.9 million liters. The Ukrainian AdBlue market is estimated at UAH 960 million per year.

Currently, three companies in Ukraine officially produce AdBlue in accordance with VDA requirements.

Nowadays, AdBlue is extremely important for military equipment, as it is the key to the uninterrupted movement of equipment at the frontline, which ensures the quality of dozens of modern military vehicles.



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