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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>



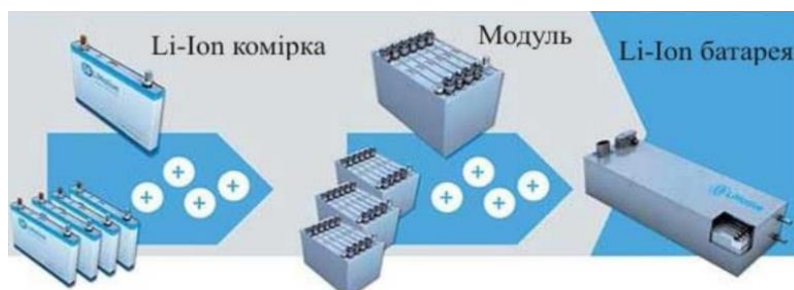
Duration

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

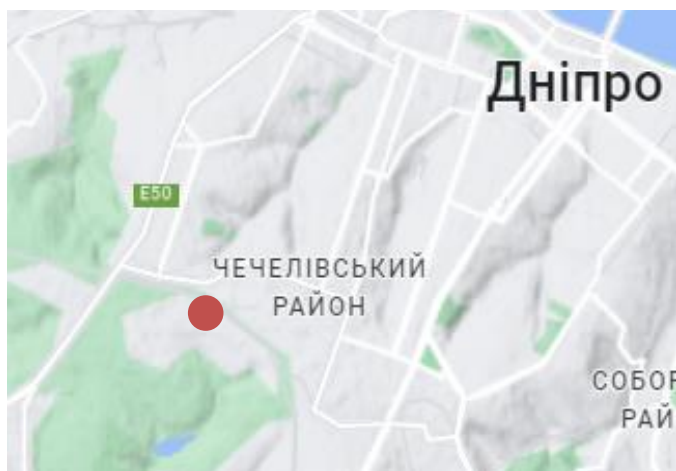
uninterruptible power supply systems.

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

«YUZHMAH»

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



Duration

3 years



Project goals:

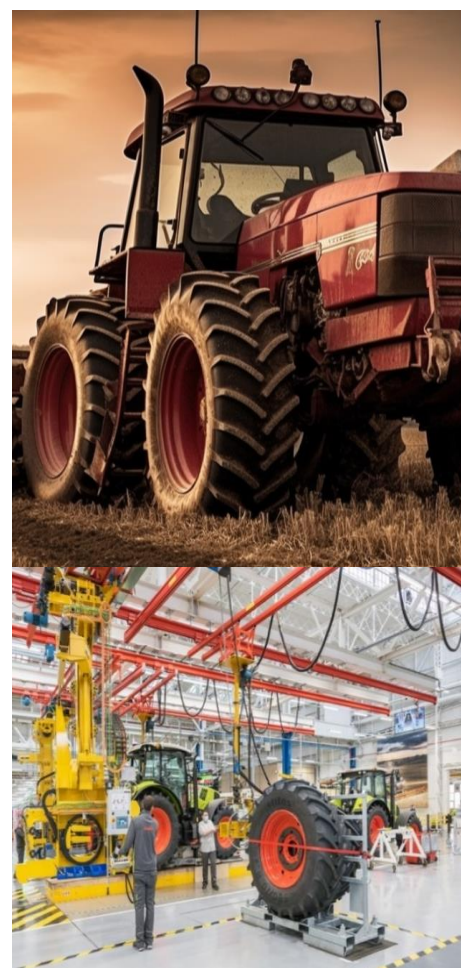
- utilization of existing production capacities and creation of additional capacities to produce up to 10 thousand tractors per year. Now the enterprise produces 1 thousand tractors per year.
- saturation of the market with competitive domestic agricultural machinery;
- transition to new resource-saving 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	Discounted Payback Period (DPP)	4.7 years
Profitability index (PI)	1.63	EBITDA (4th year)	\$ 3.1 mln
Internal Rate of Return (IRR)	14.3 %	Revenue (4th year)	\$ 9.8 mln



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.

The import of tractors to Ukraine in 2023 decreased by 74% compared to the previous year - to 503 units. A drop in the import of medium-power tractors - by 22%, to 1174 units, powerful tractors - by 6%, to 1174 units. 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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Production of biodegradable eco-dishware



Initiator

«ECO CORN» LLC

www.eco-corn.com



Duration

12 months



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



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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Production of metal packaging



Creation of a modern industrial complex for the production of metal packaging.

The production is aimed at a growing market, has modern equipment and a short payback period.

Potential distribution channels are producers of canned meat, fish, fruit and vegetable; oil; vegetable and animal fats; honey; molasses. Also chemical and paint and varnish production (paints, varnishes, oils).

The second phase of the project involves the launch of:

- production line of can cover (d 100 mm, 63 mm, 48 mm);
- production line of seamless metal tin can;
- production line of canisters (1, 3, 4, 5, 6 liters);
- line of lamination and UV-print.



Initiator

Metal-Print, LLC

www.metalprint-ua.com



Duration

3 years



Project goals

- compliance with modern environmental safety standards;
- annual growth of twist off lid is 10-12%;
- saturation of the both Ukraine and world market;
- creation of 30 new jobs.



Economic indicators of the project

Project cost for the second phase: **\$25 mln**

Company resources: **\$10 mln**

The first phase of construction was invested \$ 12.9 mln

Net present value (NPV)	\$4.6 mln	EBITDA (5th year)	\$11.8 mln
Internal rate of return (IRR)	22 %	Revenue (5th year)	\$49.1 mln
Payback period (PP)	5 years		



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

Company uses modern equipment and advanced technologies, and the specialists at METAL-PRINT are experienced professionals in this field. The company's products meet the highest international standards (ISO 9001).

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 phase of the project – 4A, Symerenkivska, Str., the city of Dnipro;
II phase of the project – 5, Kursant Skorobohatsky Str., the city of Dnipro.



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Manufacture of the polymer materials sheets production



Initiator

SPE Ukrkhimzakhyst,
LLC

<http://anticor.dp.ua>



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



Duration

2 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 workplaces.



Project economic indicators

Required investment capital: \$ 4.3 mln



Net Present Value (NPV)	\$ 1.8 mln	Discounted Payback Period (DPP)	5 years
Internal Rate of Return (IRR)	26%	EBITDA (5th year)	\$ 1.5 mln
Revenue (5th year)	\$6.5 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

3 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	Discounted Payback Period (DPP)	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



Initiator

«Eliksir», LLC
www.eliksir.ua



Duration

3 year



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.



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.



Net Present Value (NPV)	\$2.7 mln	Discounted Payback Period (DPP)	5.1 years
Profitability index (PI)	1.26	EBITDA (5th year)	\$3 mln
Internal Rate of Return (IRR)	20 %	Revenue (5th year)	\$7.5 mln

Production of laminate tubes for food, cosmetic and pharmaceuticals products



Mechanisms for cooperation

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



Additional Information

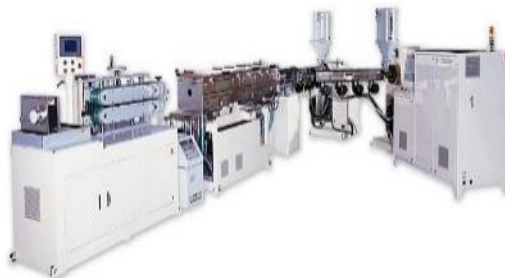
In addition to the cosmetic industry, tubes are used in various fields, for example: food industry - sauces, liquid seasonings, condensed milk; chemical industry – adhesives and encapsulant; pharmaceuticals industry - ointments, gels. On the Ukrainian market and abroad packaging in the form of a tube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





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

2 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

Total project cost: \$1.1 mln

- Company contribution to implement the project **\$ 0.1 mln**

Net Present Value (NPV)	\$ 2.7 mln	Discounted Payback Period (DPP)	3 year
Profitability index (PI)	3.49	EBITDA (3rd year)	\$ 1.3 mln
Internal Rate of Return (IRR)	73%	Revenue (3rd year)	\$ 3.2 mln



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:

the city of 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.



The company plans to implement a project to increase the production of equipment for processing and disposing of construction and demolition waste in the city of Kryvyi Rih.

The project provides for the development and production of innovative specialised mechanisms such as hydraulic rotary grapples, concrete breakers, metal cutting machines, ladles and other attachments for equipment used in the demolition and disposing of building materials.

The expansion of industrial capacity includes the modernisation of existing infrastructure and the installation of modern metalworking equipment with computer numerical control (CNC) systems, which will ensure increased accuracy, productivity and quality of manufactured products.



Initiator

PE «PLAZIS-EM»

<http://plasis-em.com/>



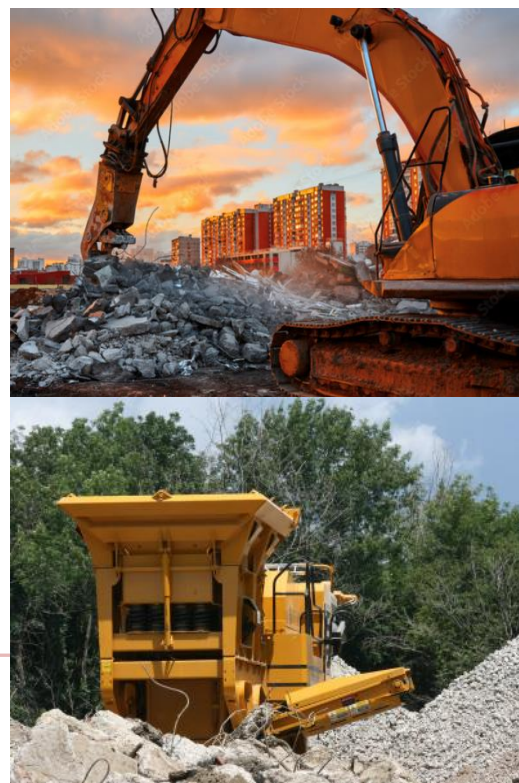
Duration

1 year



Project goals

- Expansion of industrial capacity for production of equipment for processing and disposal of construction waste.
- Providing high-tech solutions in the field of metalworking by installing modern equipment with CNC systems.
- Reducing dependence of Ukrainian construction and mining companies on imported equipment by developing domestic production.
- Promoting environmental safety in the construction sector through the widespread use of waste recycling technologies.
- Creation of 60 new jobs.



Project economic indicators

Total project cost: \$4 mln

Net Present Value (NPV)	\$41.2 mln	EBITDA (annually)	N/A
Internal Rate of Return (IRR)	37.9%	Income (annually)	N/A
Payback period (PP)	2 years		



Project technical indicators

- **Base of implementation:** the existing production facilities of the PE “PLAZIS-EM”, which specializes in the production of machinery and equipment for the mining and construction industries.
- **Product type:** hydraulic rotary grapples, concrete breakers, metal cutting machines, special-purpose ladles and other attachments.
- **Key tasks under the project:**
 - expansion of the engineering office to develop new equipment models;
 - modernization of production facilities and communications;
 - installation of modern computer-controlled metalworking equipment;
 - introduction of automated quality control systems.
- **Expected capacity after implementation:** increase of production volume to 150–200 units of equipment per year (depending on the product range).
- **Environmental efficiency:** the project aims to reduce construction waste, reuse materials and lower CO₂ emissions. The production of modern equipment will ensure the development of recycling technologies and support the principles of the circular economy.



Project location:

The city of Kryvyi Rih



Mechanisms of cooperation

- Involvement of credit resources, grant funds and direct investments.
- Financial partnership.
- Other opportunities of cooperation



Additional information

PE “PLAZIS-EM” is a Ukrainian industrial enterprise with over 25 years of experience in mechanical engineering. The company has its own engineering office, modern production facilities and well-established contacts with industrial partners in Ukraine and abroad.

The implementation of the project is timely and strategically important for Ukraine in the context of post-war recovery. The production of modern equipment for the processing and disposing of construction and demolition waste will make it possible to:

- effectively reuse materials from dismantled or damaged structures;
- reduce the burden on landfills and transport infrastructure;
- cut the cost of building new structures by using secondary raw materials.

The project directly corresponds to the goals of infrastructure recovery and implementation of circular economy principles.

Project status: ready for implementation.



The project provides for the construction of new enrichment (flotation) facilities and modernization of production lines for production of DR-grade pellets for direct iron reduction technology.

The production capacity of the project will be 4 million tons of pellets per year, ensuring a stable supply of high-quality iron ore products for steel production.

The project builds on own raw material base of Metinvest, modern production infrastructure and access to energy resources, ensuring a fast start-up and scalable production



Initiator

**LLC" METINVEST
HOLDING"**

<https://metinvestholding.com/ua>



Duration

5 years



Project goals

- Modernization of facilities for producing high-quality iron ore DR-pellets, which will increase export potential of Ukraine by supplying products to the EU market.
- DR-pellets are necessary for the direct reduction of iron, which is an alternative to the traditional blast furnace process. They are the precondition for reducing energy consumption and the carbon footprint in steel production.
- Increasing competitiveness in the green steel production segment and integration into European supply chains for iron ore and metallurgical products with a low carbon footprint.
- Creation of 170 new jobs.



Economic indicators of the project

Total project cost: \$535 mln

Net Present Value (NPV)	on request	EBITDA (annually)	on request
Internal Rate of Return (IRR)	on request	Income (annually)	on request
Payback period (PP)	on request		



Technical parameters of the project

- **Planned production capacity:**
4 million tons of pellets for direct iron recovery per year.
- **Product type:** DR-grade pellets with high iron content, intended for the production of low-carbon steel.
- **Raw material base:** own iron ore from operating mining site of Metinvest in Kryvyi Rih.
- **Infrastructure:** existing production facilities, electricity and gas supply, railway logistics.
- **Technological partners:** Primetals or Metso.
- **Environmental efficiency:** the application of best available technologies and practices to minimize environmental impact.
- **Readiness stage:** design phase – 2026, operational start – by 2030.

LLC" METINVEST HOLDING" :

the leading company of Metinvest Group, one of the largest vertically integrated mining and metallurgical holdings in the world. The group unites enterprises with a full production cycle, from iron ore mining to the production of finished metal products. It has facilities in Ukraine, Europe and the US and supplies products to more than 100 countries worldwide.



Project location:

The city of Kryvyi Rih



Mechanisms of cooperation

- Involvement of credit resources, grant funds and direct investments.
- Financial partnership.
- Other opportunities of cooperation.



Additional information

- Metinvest Group is one of the international leaders in implementing innovations in mining and metallurgical complex of Ukraine. The company consistently implements a strategy to reduce carbon emissions and improve energy efficiency in production, focusing on European Union standards.
- The project of producing pellets for direct iron recovery is a key step in the transition to green steel production, which is in line with the priorities of the European Green Deal and creates the conditions for the integration of Ukrainian metallurgy into European low-carbon product supply chains.
- The company has its own raw material base, developed infrastructure and partnerships with international technology companies, which guarantees stable supplies and long-term competitiveness in the new generation steel market.

Project status: preliminary feasibility study



The project provides for the construction of a modern complex for thickening iron ore enrichment waste at the existing Northern Iron Ore Enrichment Works of Metinvest Group in Kryvyi Rih.

New technological complex will reduce the volume of pulp transported to tailings storage facilities by 30%, significantly reducing electricity consumption by 125 MW per year.

Realization of the project is aimed to improve the efficiency of iron ore enrichment processes and rational use of water resources.


Initiator

LLC" METINVEST HOLDING"

<https://metinvestholding.com/ua>


Duration

3 years


Project goals

- Optimization of the technological process of enrichment waste management and improvement of the energy efficiency of the enterprise.
- Rational use of water resources by reducing the volume of water in the cycle
- Increasing the competitiveness of Metinvest Group.
- Creation of 62 new jobs.


Economic indicators of the project

Total project cost: \$146 mln, including:

Initiator contribution to the project implementation: \$114 mln

Net Present Value (NPV)	on request	EBITDA (annually)	on request
Internal Rate of Return (IRR)	on request	Income (annually)	on request
Payback period (PP)	on request		



Technical parameters of the project

- **Purpose:** thickening of iron ore enrichment waste in order to reduce the need for technical water and lower transportation costs.
- **Outcome:** 30% reduction in the volume of pulp transported to tailings storage facilities.
- **Energy efficiency:** reduction of electricity usage by 125 MW per year.
- **Main equipment:** modern thickeners, pumping stations and automated process control systems.
- **Infrastructure:** implementation at the existing Northern Iron Ore Enrichment Works of Metinvest Group in Kryvyi Rih.
- **Technology partners:** Metso Outotec, Habermann Aurum Pumpen GmbH.
- **Environmental efficiency:** reducing the energy intensity of processes and the technological load on the environment.
- **Readiness stage:** a land plot has been rented. Construction and installation works are in progress and equipment is in production.

LLC" METINVEST HOLDING" :

the leading company of Metinvest Group, one of the largest vertically integrated mining and metallurgical holdings in the world. The group unites enterprises with a full production cycle, from iron ore mining to the production of finished metal products. It has facilities in Ukraine, Europe and the US and supplies products to more than 100 countries worldwide.



Project location:

The city of Kryvyi Rih



Mechanisms of cooperation

- Involvement of credit resources, grant funds and direct investments.



Additional information

- Project is a part of energy efficiency program of Metinvest Group which is focused on implementation modern production waste management technologies.
- The construction of the thickening complex will ensure the rational use of natural resources and reduce the need for clean water.

Project status: in progress



The project provides for the modernization of the production of seamless pipes made of titanium, nickel and stainless alloys at the LLC "OSCAR Production Group".

The purpose is to improve the efficiency, precision and energy efficiency of the production of titanium, nickel, and stainless steel pipes for high-tech (aerospace, energy, petrochemical and medical fields).



Initiator

LLC "OSCAR Production Group"

<https://www.oscar-tube.com.ua/en/>



Duration

3 years



Project goals

- Increasing production capacity to ensure stable production of seamless pipes made of titanium, nickel and stainless alloys.
- Improving the technological level of production by modernizing equipment and introducing new energy-efficient technologies for hot pressing and cold working.
- Ensuring compliance with international quality and safety standards for access to EU and US markets.
- Increase in the volume of exports of high value-added products.
- Reducing costs and increasing competitiveness.
- Creation of 70 new jobs



Project economic indicators

Total project cost: **\$20 mln** , including:

Initiator contribution to the project implementation: **\$4 mln**

Net Present Value (NPV)	\$16 mln	EBITDA (5 th year)	\$6.6 mln
Internal Rate of Return (IRR)	20.2 %	Income (5 th year)	\$24 mln
Payback period (PP)	6 years		



Project technical indicators

- **Main technological equipment:**
 - a new press line for hot pressing of billets;
 - a bright annealing furnace with an energy-efficient heat recovery system;
 - a cold working line with high pipe geometry accuracy;
 - automated quality control system and digital monitoring of production parameters;
 - test benches for checking the mechanical and thermal characteristics of finished pipes.
- **Product standards:** compliance with international industry standards for high-precision pipe production.
- **Recommended applications:** aerospace, energy, petrochemical, medical and mechanical engineering industries.
- **Environmental efficiency:** the implementation of energy-saving heat treatment technologies and heat recovery systems reduces energy consumption and CO₂ emissions in the production cycle.
- **Project status:** conception.

LLC “OSCAR Production Group”: one of the leading Ukrainian manufacturers of high-tech metal pipes for the industrial and energy sectors. The company combines modern European metal processing technologies, engineering accuracy and many years of experience in the field of materials science.



Project location:

The city of Dnipro



Mechanisms of cooperation

- Involvement of credit resources, grant funds and direct investments.
- Financial partnership.
- Other opportunities of cooperation.



Additional information

- The implementation of the project will provide for the creation of a modern production complex for the production of seamless pipes made of titanium, nickel alloys and stainless steel. The enterprise has the necessary infrastructure and technical base for the development of new capacities.
- LLC “OSCAR Production Group” specializes in the production of precision cold-formed pipes for critical applications that require high strength, exact tolerances and exceptional material integrity. The expertise of the company provides reliable solutions for industries with the highest technical and safety requirements for aerospace, energy, petrochemical, medical and mechanical engineering.
- The implementation of the project will increase the level of localization of high-tech production in Ukraine, grow export potential and strengthen the position of the company in international markets.



The project provides for the construction of a new facility for the production of flat green rolled steel based on an electric arc furnace on the territory of an existing metallurgical plant in the city of Dnipro.

The implementation of the project will increase steel production by 1 million tons per year and enable the production of low-carbon hot-rolled coils using directly reduced or hot-briquetted iron from green hydrogen and scrap metal.

The project aims to replace imports of flat rolled products on the domestic market, develop high-tech and energy-efficient production and reduce CO₂ emissions.



Initiator

LLC "INTERPIPE
UKRAINE"

<https://interpipe.biz/>



Duration

5 years



Project goals

- Increase steel production by 1 million tons per year.
- Production of low-carbon hot-rolled steel using green hydrogen and scrap metal.
- Reducing CO₂ emissions and introducing energy-efficient technologies.
- Replacing imported flat rolled products on the domestic market and expanding exports of green steel to the EU and Middle East markets.
- Integration of Ukrainian metallurgy into the European green supply chain, development of industrial cooperation and implementation of energy-efficient production principles
- Creation of 150 new jobs.



Economic indicators of the project

Total project cost: **\$1 000 mln**

Net Present Value (NPV)	on request	EBITDA (2 nd year)	\$300 mln
Internal Rate of Return (IRR)	on request	Income (2 nd year)	\$1 600 mln
Payback period (PP)	8 years		



Flat 'green' rolled steel production

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Project technical parameters

- **Production capacity:** up to 1 million tons of steel per year.
- **Key technological elements:**
 - electric arc furnace;
 - continuous steel production line;
 - hot rolling mill;
 - system for preparing directly reduced and hot-briquetted iron received by hydrogen;
 - energy hub with possibility of using renewable energy, in particular green hydrogen.
- **Raw material:** directly reduced or hot briquetted iron and scrap metal.
- **Products:** low-carbon hot-rolled coil.
- **Environmental efficiency:** 70–80% reduction in CO₂ emissions compared to blast furnace production; no coking process or blast furnace gas; use of green hydrogen and scrap metal; closed water supply and air purification cycles.
- **Readiness stage:** concept. All necessary local permits for steel production are available.

LLC "INTERPIPE UKRAINE":

The INTERPIPE Group brings together modern metallurgical and mechanical engineering enterprises in the cities of Dnipro, Nikopol and Samara, specializing in the production of steel pipes, railway wheels and flat rolled products. The company exports its products to more than 80 countries worldwide, ensuring stable supplies to the markets of the EU, the Middle East, North America and Asia.



Project location:

The city of Dnipro



Mechanisms of cooperation

- Involvement of credit resources, grant funds and direct investments.
- Financial partnership.
- Other opportunities of cooperation.



Additional information

- The project is based on the use of domestically produced iron ore raw materials, considering the strategic plans of Ukrainian mining companies regarding the production of directly reduced and hot-briquetted iron. A significant share of the charge will consist of scrap metal, which will help reduce production costs, decrease the carbon footprint and increase technological flexibility.
- The final product is flat-rolled steel, aimed at import replacement in domestic use and exports of green steel to the EU and Middle East markets.
- The key economic advantages are access to the raw material base of Dnipropetrovsk region and existing industrial infrastructure, which reduces the time and cost of project implementation.

Project status: conception



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Increase in production of railway wheels, wheelsets and axles for rolling stock



The project provides for modernization and increase of production capacity for railway wheels, wheelsets and axles at the existing production complex in the city of Dnipro.

The implementation includes the creation of new heat treatment areas and radial forging sections, machining of wheels, assembly of wheelsets and modernization of the infrastructure of the enterprise.

The aim of the project is to increase production volumes, improve product quality and level of localization, fulfil the demand of Ukrainian and foreign railway operators.

The project focuses on import substitution of rolling stock components, development of high-tech mechanical engineering and increase of exports to the EU, the Middle East and Asia.



Initiator

LLC "INTERPIPE
UKRAINE"

<https://interpipe.biz/>



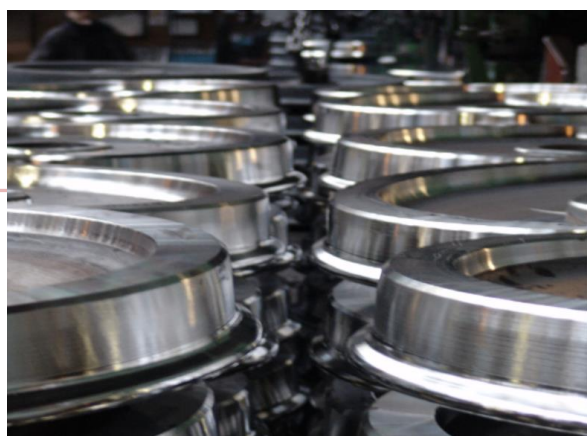
Duration

3 years



Project goals:

- Modernization and increase of production capacity for production of wheels, wheelsets and axles for rolling stock.
- Improving product quality to European standards and extending the product range.
- Replacement of imports of components for Ukrainian rail transport.
- Increasing the export potential of products to the EU, Middle East and Asian markets.
- Creation of 150 new jobs.



Economic indicators of the project

Total project cost: \$120 mln

Net Present Value (NPV)	\$35.7 mln	EBITDA (5 th year)	\$117 mln
Internal Rate of Return (IRR)	45%	Income (5 th year)	\$320 mln
Payback period (PP)	2.5 years		



Increase in production of railway wheels, wheelsets and axles for rolling stock

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Project technical parameters

- **Creation of new production section:**
 - wheel heat treatment section;
 - wheel machining section;
 - inspection and testing lines;
 - radial-forging section to improve steel properties;
 - wheelset assembly section;
 - furnaces for axle heating and heat treatment.
- The project also provides for the modernization of engineering and transport infrastructure of the enterprise.
- **Environmental efficiency:** using energy-saving heat treatment tech, reducing gas and electricity use, switching to closed cooling cycles.
 - **Readiness stage:** preparation of technical and economic feasibility study and consideration of technological solutions with the involvement of international partners.

LLC "INTERPIPE UKRAINE":

The INTERPIPE Group brings together modern metallurgical and mechanical engineering enterprises in the cities of Dnipro, Nikopol and Samara, specializing in the production of steel pipes, railway wheels and flat rolled products. The company exports its products to more than 80 countries worldwide, ensuring stable supplies to the markets of the EU, the Middle East, North America and Asia.



Project location:

The city of Dnipro



Mechanisms of cooperation

- Involvement of credit resources, grant funds and direct investments.
- Financial partnership.
- Other opportunities of cooperation.



Additional information

- The project is based on the production of high-quality railway wheels, wheel sets and axles for various types of rolling stock, focused on the needs of national and international railway operators.
- Income will be generated through direct sales, individual orders and long-term contracts, which will ensure stable financial results and risk diversification. Sales growth will be achieved through increasing production capacity and entering new markets.
- The clients of the company include leading global oil and gas corporations, mechanical engineering companies, developers, and international holdings producing and repairing railway rolling stock.

Project status: conception



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The project involves the construction of a new energy-efficient hot-dip galvanizing line for steel wire at the production facilities LLC “DNIPROMETYZ TAS” in the city of Dnipro. The existing production base of the enterprise ensures technical readiness and allows the implementation of the investment project to begin as soon as possible.

The aim is to increase production efficiency, reduce energy costs and transition to the production of high-quality wire with a diameter of 0.7–5.0 mm for the cable industry, building, agriculture and fencing systems.

The project will reduce production costs, increase output to 24.000 tons per year and diversify products in the higher value-added segment.



Initiator

LLC “DNIPROMETYZ TAS”

<https://dniprometiz.com/>



Duration

3 years



Project goals

- Reduce energy consumption and costs per unit of production by introducing modern energy-efficient equipment and technologies for controlling coating thickness.
- Expansion of the product range in the segment of high-quality wire with increased added value.
- Entry into new export markets – the EU, North America, and the Middle East.
- Increasing the competitiveness of the enterprise and strengthening Ukraine's position in the field of metal products manufacturing with deep processing
- Creation of 30 new jobs.



Project economic indicators

Total project cost: \$4 mln, including:

Initiator contribution to the project implementation: \$2mln

Net Present Value (NPV)	\$1.5 mln	EBITDA (annually)	\$0.9 mln
Internal Rate of Return (IRR)	26%	Income (annually)	\$1.4 mln
Payback period (PP)	4.8 years		



Project technical indicators

- **Prepared production infrastructure:** plant, power networks, communications lines and engineering systems.
- **Projected capacity of the line:** 24.000 tons of finished products per year.
- **Product range:** wire with a diameter of 0.7 to 5.0 mm made of low-carbon, medium-carbon and high-carbon steel.
- **Coating type:** standard or extra zinc coating (hot-dip galvanizing).
- **Technological equipment:** new energy-saving furnace and zinc coating baths with automatic temperature and energy consumption control system.
- **Quality control system:** real-time measurement of coating thickness on each of the 45 wire strands.
- **Automation:** high, with the possibility of digital monitoring of production parameters.
- **Environmental efficiency:** reducing emissions and energy consumption by using modern energy-saving technologies.

Company info LLC “DNIPROMETYZ TAS”:

a leading Ukrainian manufacturer of steel wire and wire products (welding wire, sectional fences, fasteners). The company has modern equipment, a certified quality management system (ISO 9001:2015) and exports its products to more than 25 countries.



Project location:

The city of Dnipro



Mechanisms of cooperation

- Involvement of credit resources, grant funds and direct investments.
- Financial partnership.
- Other opportunities of cooperation



Additional information

- Due to the use of modern energy-efficient equipment, the enterprise will be able to improve the quality of coating, reduce metal and energy consumption, and ensure stable production even under increased load conditions.
- The new line will form the basis for the transition from the production of wire for fencing to high-margin products for the cable industry, with exact control of the zinc coating thickness on each of the 45 wires.
- This is another stage in the technological modernization of the enterprise following the installation in 2023 of seven Italian drawing lines, which have already expanded steel wire production capabilities.

Project status: ready for implementation.

Construction of a new facility for the production of electric public transport



The project provides for the construction of a new facility for the production of electric public transport. The enterprise plans to organize a full cycle of electric rolling stock production, including welding of bodies, assembly of electrical systems and testing of finished equipment.

The production capacity of the facility will be up to 100 transport units per year, including trams, electric buses and other rolling stock for urban and suburban electric transport systems.

The project is focused on the development of Ukrainian electric transport production, with localization of components.



Initiator

LLC "TATRA-YUG"

<https://tatra-yug.com.ua/>



Duration

2 years



Project goals

- Construction of a modern electric public transport production facility.
- Increase the level of production localization to 60–95%, depending on customer needs.
- Providing Ukrainian cities with modern, energy-efficient and environmental transport, reducing emissions in the transport sector and improving the quality of urban mobility.
- Development of exports of electric transport in Ukraine.
- Supporting green transition and climate goals in Ukraine.
- Creation of 270 new jobs.



Project economic indicators

Total project cost: **\$33 mln**, including:

Initiator contribution to the project implementation: **\$3 mln**

Net Present Value (NPV)	\$142 mln	EBITDA (5 th year)	\$26 mln
Internal Rate of Return (IRR)	42%	Income (5 th year)	\$109 mln
Payback period (PP)	4 years		



Construction of a new facility for the production of electric public transport



Project technical indicators

- **Production capacity:** 100 transport units per year
- **Construction of an industrial complex with an area of:** 30,000 m²
- **Main technological equipment:**
 - 10 portal cranes with a lifting capacity of 10–20 tons;
 - painting and shot blasting machines;
 - modern welding and metalworking facilities;
 - energy-saving systems and test benches.
- **Level of production localization:** 60–95%, depending on customer needs.
- **Environmental efficiency:** reducing CO₂ emissions and noise level in cities through the production of electric public transport and the use of energy-saving technologies.
- **Readiness stage:** project concept, preparation of a feasibility study (FS) and selection of a land plot for possible placement of the plant within the IP.

LLC “TATRA-YUG”:

LLC “TATRA-YUG” is Ukrainian mechanical engineering company with many years of experience in the production of trams and other electric public transport. The company participates in programmes of transport system modernization in main Ukrainian cities and implements international contracts



Project location:

The city of Dnipro



Mechanisms of cooperation

- Involvement of credit resources, grant funds and direct investments.
- Financial partnership.
- Other opportunities of cooperation.



Additional information

- The implementation of this project will support the development of electric transport in Ukraine, improve the energy efficiency of public transport and help to achieve the environmental and climate goals of the country in cooperation with the EU.
- The main partners are municipal transport companies in Ukraine CE “Odessmiskelektrotrans”, CE “Kyivpastrans” as well as foreign customers, particularly from Egypt, with whom the company has current contracts.
- The project will have a positive economic and social impact, creating up to 270 new jobs, developing related industries such as mechanical engineering, electronics and electrical engineering and increasing the share of Ukrainian production in the field of electric transport with a localization level of up to 95%.

Project status: conception



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Serial production of automatic welding machines



The project provides for the development and serial production of a new generation of automatic welding machines designed for automatic welding of metal structures and parts. The development will cover the entire cycle of work, from the design and manufacture of key components to testing and preparation for serial production.

Implementation of the project will be based on the existing production capacities of the enterprise, which will provide technical readiness, cost optimization and reduction of completion times.



Initiator

PJSC ME "TEKHMASH"
<https://techmash.dp.ua/en/>



Duration

3 years



Project goals

- Promote the development of innovative mechanical engineering and improve the technological level of Ukrainian industry.
- Develop and implement a modern automatic welding machine for industrial use.
- Improve the efficiency and accuracy of welding processes through their automation.
- Provide import substitution in the welding equipment segment.
- Create a competitive Ukrainian product capable of entering foreign markets and strengthening the export potential of the industry.
- Creating up to 18 new jobs.



Project economic indicators

Total project cost: **\$2.5 mln**

Net Present Value (NPV)	\$0.5 mln	EBITDA (5 th year)	\$0.5 mln
Internal Rate of Return (IRR)	21 %	Income (5 th year)	\$1.2 mln
Payback period (PP)	5 years		



Serial production of automatic welding machines

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Project technical indicators

- PJSC "TEKHMASH" has its own engineering team and production base, which ensures readiness for the development and production of innovative automatic welding machines.
- **Environmental efficiency:** the use of automatic welding machines in production will reduce energy consumption compared to traditional welding equipment. Optimizing welding modes reduces material loss and waste.
- **Readiness stage:** conceptual study is complete and technical parameters of the innovative development have been determined.

PJSC "TEKHMASH" is a production company with many years of experience in the field of technological equipment installation and mechanical engineering. Among other things, the company manufactures customized industrial equipment.

The company has an engineering and design department, qualified personnel and production base, which allows it to implement a full production cycle from design to serial production.

It actively works with Ukrainian and international industrial companies, providing high-quality innovative solutions for the metallurgical, mechanical engineering and energy sectors.



Project location:

The city of Dnipro



Mechanisms of cooperation

- Involvement of credit resources, grant funds and direct investments.
- Financial partnership.
- Other opportunities of cooperation.



Additional information

- The automatic welding machines developed by the company will be used in the production and repair of metal structures, mechanical engineering, energy, transport and construction equipment, also in metallurgical and industrial enterprises where high accuracy, productivity and repeatability of welding cycles are needed.
- This innovative technology will decrease the labor intensity and time needed for welding, as well as ensure product quality regardless of human factors.
- Using modern control systems and tech, the machines from PJSC "TEKHMASH" can handle different types of materials and metal thicknesses, making them a universal solution for industrial companies in Ukraine and potential foreign customers.

DIA

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