

# CONSTRUCTION MATERIALS

Total – 5 projects from  
businesses of the region

**Creation of construction materials manufacture**  
(Misto Bud M LLC, Dnipropetrovsk region)

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**Creation of float glass production** («Orion-Glass-Float» LLC, the city of Vilnohirsk)

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**Creation of a waste heat recovery system**  
(PJSC «KRYVYI RIH CEMENT», the city of Kryvyi Rih)

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**Modernization of the clinker kiln with the transition to alternative fuel**  
(PJSC «KRYVYI RIH CEMENT», the city of Kryvyi Rih)

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**Modernization of equipment for the use of RDF fuel in clinker burning during cement production** (PJSC «KRYVYI RIH CEMENT», the city of Kryvyi Rih)

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*The symbol indicates a shortcut to the catalog content*



## Creation of construction materials manufacture



### Creation of production lines of energy saving materials

(thermo facade) and the concrete products for urban landscaping (paving slabs, edgings and decorative concrete products).

Considering market conditions, it is planned to expand production, namely: concrete of various grades, road curbs, lighting poles, reinforced concrete trays, concrete fences.

Equipment: thermal vacuum moulder, dry press for paving slabs, sawmill for cutting fiber cement boards, vibrating table for casting, concrete unit for the production of various grades concrete.

Approximate volume:

Concrete - 200 m<sup>3</sup> per hour.

Plate thermofacade - 500 m<sup>2</sup> per hour.

Paving slabs - 1400 m<sup>2</sup> per hour.



### Initiator

Misto Bud M LLC



### Duration

6 months



### Project goals

- Meeting the demand for the high-quality modern energy-saving materials and the concrete products for urban landscaping;
- creation of 20 new jobs.



### Project economic indicators

**Required investment capital:** \$2.2 mln

Own floating assets – \$100 thousd.

Net Present Value (NPV)	\$3 mln	Payback period (PP)	2 years 7 months
Profitability index (PI)	1,36	EBITDA	\$800 thousd.
Internal Rate of Return (IRR)	46%		



## Creation of construction materials manufacture



### Technical parameters of the project

#### Land plot characteristics:

- land plot area: 2,5 thousd. m<sup>2</sup>;
- intended purpose: 3.1.5 землі підприємств;
- leaseholder: "Misto Bud M" LLC.

#### Company's resources:

- workshop 300 m<sup>2</sup>;
- thermovacuum molder;
- dry press for paving slabs;
- sawmill for fiber cement board;
- vibrating tables;
- forklift truck;
- heavy vehicles.

#### Engineering infrastructure:

gas, water, sewerage, electricity available.

#### Logistics infrastructure:

- highway H-23 – 10 km;
- railway station- 3 km;
- river port – 15 km.



### Mechanisms for cooperation

- share participation;
- creation of joint venture.



### Additional information

The company is a manufacturer of energy-saving "thermal facade" tiles for insulating existing buildings and structures, as well as the manufacture of paving slabs. Today, when energy efficiency is a real trend of our time this business is something more than just a relevant and profitable.

Energy modernization and energy efficiency are important areas in construction that are supported by the government and local authorities.



**Project location:** the city of Marhanets, Dnipropetrovsk region



**Dnipropetrovsk Regional Investment Agency**

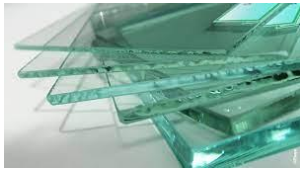
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## Creation of float glass production



The territory in the industrial zone of Vilnohirs'k is offered for creation of float-glass production.

The territory has favorable logistical infrastructure - access roads and railroad tracks are located at a distance of 100 m. There is also a raw material base for quick start of the project: quartz sand for glass industry produced by the branch "Vilnohirs'k Mining and Metallurgical Plant" of JSC "United Mining and Chemical Company".

Currently Ukraine does not produce float glass.

The project realization is envisaged through location of float-glass production by a profile company, with possible cooperation with a Ukrainian enterprise.



Enterprise to Cooperate with:

«Orion-Glass-Float» LLC

<https://www.orionglass.com.ua/>



Duration

1 year



### Project goals:

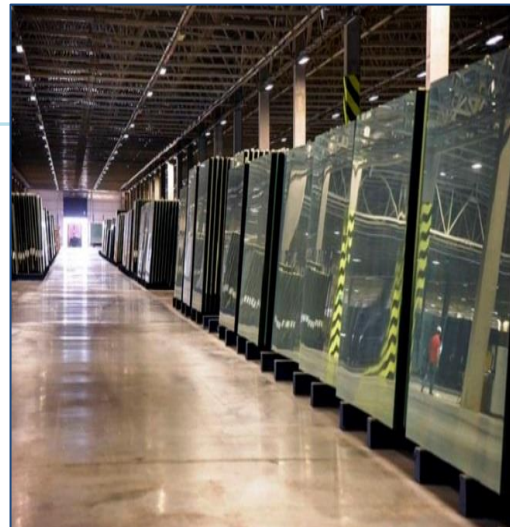
- to provide the Ukrainian market with domestic float glass;
- to invest in float-glass production, import of which is 97% (\$150 mln/year);
- to use cooperation with local industrial enterprises, which extract raw materials (quartz sands) for float-glass production, to reduce production costs;
- create new jobs;
- attract the capacities of local enterprises to the project realization.

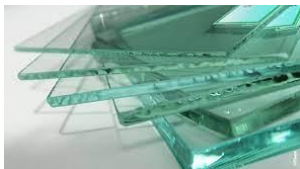


### Project economic indicators

Potential project cost: **\$200 mln**

Expected performance: **750 tons per day**





## Creation of float glass production



### Project technical parameters

#### Characteristics of plots:

area: 26 ha;  
intended use: industrial land;  
cadastral numbers: assigned.  
private ownership: Orion-Glass-Float LLC  
The land plot is included into the General Plan of Vilnohirsk city.

#### Engineering infrastructure:

water supply/wastewater disposal - is absent, there is a possibility of connection to the nearest point Ø 200 mm and supply volume of 100 m<sup>3</sup> at a distance of 0.2 km; sewage collector Ø 600 mm at a distance of 0.2 km;  
gas supply - there is no gas supply, the nearest gas distribution point with a supply volume of 2500 m<sup>3</sup> per hour at a distance of 1.6 km;  
electricity supply - 330/150/35/35/6 kV substation is located at a distance of 0.3 km.

#### Logistics infrastructure:

territorial highway - 1.5 km;  
railroad - 0.4 km;  
railway station - 3.7 km;  
Dnipro - 108 km;  
Kryvyi Rih - 103 km;  
Zaporizhzhia - 171 km.



### Mechanism of cooperation

- the creation of a joint venture.

#### «Orion-Glass-Float» LLC:

- an operating enterprise for industrial processing of glass, production of glassware and insulating glass units for use in construction, transportation engineering, furniture, commercial and industrial equipment, interior decoration and other areas.



### Additional information

#### Neighboring land plots:

Vilnohirsk Glass Ltd;  
sand processing unit;  
Vilnohirsk railroad station;  
Vilnohirsk motor transportation enterprise;  
electric substation "VDGMK".



### Project Location:

Vilnohirsk, Dnipropetrovsk region



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## Waste heat recovery system

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**PJSC “Kryvyi Rih Cement” plans to implement a project to create a waste heat recovery system at its production facilities.** The project envisages the purchase, installation and integration of modern equipment that will enable it to convert the heat generated during the clinker burning process into electricity for own production needs.



### Initiator

**PJSC “KRYVYI RIH CEMENT”**

<https://krcement.com/>



### Duration

**2years**



### Project goals

- Improve the energy efficiency in production by utilising the heat lost during clinker burning.
- Ensure own production of up to 43 GW of electricity per year by converting the heat generated during clinker burning.
- Reduce consumption of external energy resources and stabilize operations during energy risks.
- Reduce CO<sub>2</sub> emissions and support national goals for industry decarbonization.
- Optimize production expenses and increase the competitiveness of cement products.
- Create up to 15 new jobs.



### Project economic indicators

**Project cost: \$29 mln**, including:

**Company's resources for project implementation: \$8.7 mln**

Net Present Value (NPV)	\$14.4 mln	EBITDA	\$6.5 mln
Internal Rate of Return (IRR)	19%	Income	Internal economic impact
Payback period (PP)	9.9 years		



## Waste heat recovery system

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### Project technical parameters

- **Key components:** waste heat recovery boilers, heat exchangers, steam turbine, generator, automation and monitoring systems.
- **Project duration:** 2 years (phases: design, procurement, installation, commissioning).
- **Expected reduction in external electricity consumption:** up to 40%.
- **CO<sub>2</sub> emissions reduction:** approximately 475 tons per year.
- **Annual electricity generation:** up to 43 GWh.
- **Readiness stage:** concept and preliminary calculations completed.

#### About the company PJSC “Kryvyi Rih Cement”:

- PJSC “Kryvyi Rih Cement” is a leading industrial enterprise in Dnipropetrovsk region, supplying the Ukrainian market with high-quality cement for the construction of infrastructure, industrial and residential facilities. The company is one of the largest cement manufacturers in Ukraine.
- The implementation of the waste heat recovery system will enable the efficient use of production process resources, reduce energy consumption and enhance the environmental responsibility of the company.
- The development of such technological solutions strengthens PJSC “Kryvyi Rih Cement’s” position as an innovative company that implements modern standards of sustainable industrial development in Ukraine.



### Project location

The city of Kryvyi Rih



### Mechanism of cooperation

- Attracting credit resources, grant funding and direct investments.
- Financial partnership.
- Other forms of cooperation.



### Additional information

- In the context of the war and constant attacks on Ukraine's energy infrastructure, the stability of industrial production is of strategic importance. Ensuring the continuous operation of enterprises such as PJSC “Kryvyi Rih Cement” is an important component of the region's economic stability and support for the country's recovery.
- The proposed project creates an opportunity for local electricity generation from internal resources, which enhances energy autonomy and reduces dependence on the unstable energy market. In addition to its economic benefits this technology contributes to the modernization of industrial infrastructure, the development of competencies in industrial energy efficiency, and the integration of Ukrainian industry into the European energy space.

**Project status:** ready for the development of project documentation.



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## Modernization of the clinker kiln with the transition to alternative fuel

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**PJSC "Kryvyi Rih Cement" plans to modernize the clinker kiln to improve production efficiency and partially transition to alternative fuel (RDF).**

The project involves installing an RDF feeding system and modernization the calciner, clinker cooler, and heat exchange units.

The implementation of the project will ensure the stability of the technological process and increase the daily clinker line output to 4,000 tons. The modernization meets current energy efficiency standards and supports the environmental transformation of cement production.



### Initiator

**PJSC "KRYVYI RIH CEMENT"**

<https://krcement.com/>



### Duration

**2.5 years**



### Project goals

- Increase the efficiency and capacity of clinker production.
- Transition to alternative fuel RDF with heat substitution up to 45%.
- Increase kiln productivity to 4,000 tons of clinker per day (+15%) to meet the growing demand for cement.
- Reduce coal consumption by 45% and decrease CO<sub>2</sub> emissions by 10%, enhancing the environmental efficiency of production.
- Support the development of a circular economy by reusing waste as an energy resource.
- Create up to 12 new jobs.



### Project economic indicators

**Project cost: \$25 mln, including:**

**Company's resources for project implementation: \$7.5 mln**

Net Present Value (NPV)	\$39.8 mln	EBITDA	\$12.0 mln
Internal Rate of Return (IRR)	29%	Income	Internal economic impact
Payback period (PP)	6.4 years		





## Modernization of the clinker kiln with the transition to alternative fuel

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### Project technical parameters

- **Clinker production capacity:** up to 4.000 tons per day (+15%)
- **Share of heat substitution:** up to 45% through the use of RDF.
- **Reduction in coal consumption:** by 45%.
- **Reduction in CO<sub>2</sub> emissions:** by 10%.
- **Main equipment:** calciner, cross cooler, RDF feeding system, combustion process control and automation system.
- **Expected energy resource savings:** ≈ 30-35 thsd tons of coal per year.
- **Readiness stage:** project documentation developed.

### About the company PJSC "Kryvyi Rih Cement":

- PJSC "Kryvyi Rih Cement" is one of the leading companies in Ukraine's cement industry. The company is actively modernizing its production by implementing energy-efficient technologies, automation, and gradually transitioning from coal to alternative fuel (RDF). This approach allows it to reduce carbon emissions, decrease its dependence on imported fuels, and meet the current requirements of the European cement market.
- Due to the implementation of this project, PJSC "Kryvyi Rih Cement" not only enhances its production flexibility and competitiveness but also contributes to the development of Ukraine's circular economy by creating demand for recycled waste as an energy resource.



### Project location

The city of Kryvyi Rih



### Mechanism of cooperation

- Attracting credit resources, grant funding and direct investments.
- Financial partnership.
- Other forms of cooperation.



### Additional information

- In the context of war and constant attacks on the energy and industrial infrastructure of Ukraine, maintaining stable production is critical for the country's economy. Ensuring the uninterrupted operation of cement plants is of strategic importance for the implementation of recovery programs and the development of the construction industry.
- The project creates an opportunity to reduce energy dependence, improve production efficiency, and use secondary resources instead of coal. Its implementation will contribute to the development of the domestic alternative fuel market, reduce environmental impact, and foster the creation of a circular economy model that aligns with the priorities of Ukraine's post-war reconstruction and integration into the European Green Deal.

**Project status:** ready for implementation.



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## Modernization of equipment for the use of RDF fuel in clinker burning during cement production

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PJSC "Kryvyi Rih Cement" plans to implement a project for the reequipping of production facilities to gradually replace part of the coal with RDF obtained from recycled municipal waste. It is expected that at least 20% of the total fuel will be replaced with RDF without reducing the quality of the clinker.

The project creates a full resource usage cycle, combining a waste management system, recycling, and application in the industrial process.



### Initiator

PJSC "KRYVYI RIH CEMENT"

<https://krccement.com/>



### Duration

1 year



### Project goals

- Transition from coal to alternative fuel (RDF) produced from recycled municipal waste.
- Reduce CO<sub>2</sub> emissions by 60% and decrease residual combustion waste by 80%.
- Reduce the company's energy dependence and stabilize the cost of cement production.
- Contribute to the development of the local waste management system by creating demand for RDF fuel.
- Increase environmental sustainability and compliance with European decarbonization standards.
- Create up to 15 new jobs.



### Project economic indicators

**Project cost: \$4.4 mln**, including:

**Company's resources for project implementation: \$1.4 mln**

Net Present Value (NPV)	\$4.3 mln	EBITDA	\$1.3 mln
Internal Rate of Return (IRR)	25%	Income (per year)	\$1.3 mln
Payback period (PP)	6.3 years		



## Modernization of equipment for the use of RDF fuel in clinker burning during cement production

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### Project technical parameters

- **Fuel substitution rate:** at least 20% of the total fuel share with RDF without reducing clinker quality.
- **CO<sub>2</sub> emissions reduction:** up to 60% compared to coal usage.
- **Reduction of residual waste volumes:** up to 80%.
- **Main equipment:** RDF receiving, storage, dosing, and feeding system; modified burners and combustion control system; laboratory complex for fuel quality monitoring.
- **Readiness stage:** project concept developed, company is seeking financing.

#### About the company PJSC "Kryvyi Rih Cement":

- PJSC "Kryvyi Rih Cement" is one of the leading companies in Ukraine's cement industry. The company is focused on reducing its carbon footprint and transitioning to sustainable energy sources, including through the implementation of RDF produced from recycled municipal waste. This solution contributes to reducing coal consumption, lowering CO<sub>2</sub> emissions, and developing the local waste management system, combining industrial production with the principles of a circular economy..
- The implementation of the project underscores PJSC "Kryvyi Rih Cement's" position as an innovative and environmentally responsible manufacturer.



### Mechanism of cooperation

- Attracting credit resources, grant funding and direct investments.
- Financial partnership.
- Other forms of cooperation.



### Additional information

- In conditions of war and constant attacks on critical infrastructure, ensuring the stable operation of industrial enterprises is of strategic importance for the country's economy. The use of local energy resources, in particular RDF, reduces dependence on imported coal and maintains continuity of production even in conditions of energy instability.
- The project creates an opportunity to combine industrial modernization with the development of the waste management system, forming a sustainable closed-loop cycle of "production – consumption – recycling." Its implementation will contribute to the development of the local alternative fuel market, reduce the burden on municipal solid waste landfills, and promote Ukraine's progress towards the European Green Deal goals.

**Project status:** concept.



### Project location:

The city of Kryvyi Rih



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