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Core

Idea

Production of continuous basalt fiber (CBF) and basaltbased products in Armenia to sale in MEA, Europe and Asia regions.

Combination of stable high-quality basalt rocks in Armenia with experienced Management and modern cost-effective technologies by competitive price.



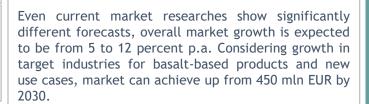


3. Construct new plant with up to 20k tn per year





1. Product features vary significantly depending on the input quality of raw materials. 2. Rising energy prices demand new cost-effective technologies to keep margin. 3. Geopolitical situation impairs position of leading market suppliers of basalt products.







Solution

The project aims to purchase equipment for new products, renovate furnaces to increase efficiency and as a result, within I Phase, re-launch end-to-end production process on order to deliver products to already existing and new customers. Growing prices for iron-based construction materials provide market opportunities for substitutes such as CBF. Starting from year 3 of Stage I investment foresees significant expansion of the production volumes and increase diversity.





Investment



1. High quality products delivered by competitive price. 2. Stable product quality and required product features ensured due to homogeneous geological composition of Armenian basalt rocks. 3. Team with deep expertise supports the development and the launch of new perspective products.

Stage I activities are foreseen for 8 months since securing the investments for existing furnaces rehabilitation. Some activities as pre-sale for customers and ordering of equipment are already started. And then for establishment of new production capacities it require additional 12-14 months. The overall productivity will be up to 6,000 tns per annum, based on 30 furnaces in total to be renovated or installed.



Timeline

Green economy

Customer

Within the Green Economy Framework, construction of a 5 MW solar photovoltaic station on the premises is foreseen during the modernization and construction periods of the project. The company has implemented a shift in its energy policy towards renewables to reduce electricity costs as well as the use of capture and recycling technologies during manufacturing processes. Investment in Green Economy Framework shall cost 3 mln Euro.





Company Historical Competitors **Business valuation Appendix** Customers Investments performance overview Projected revenues and operational profit margin for Stage I investments Y5 ratios Key performance indicators Y10 Gross Profit Margin Revenue, th EUR 45.000 EUR18,134 40,000 41% th 35,000 30,000 **EBITDA** 25.000 20,000 **EUR**42,908 15,000 **EBITDA Margin** 10,000 th 5,000 Revenue Υ1 Y2 Y3 Y5 Y6 Υ8 Y10--> **57**% ■ Basalt Roving ■ Basalt Geo-Grid ■ Basalt Rebar ■ Basalt Chopped Fiber **EUR**17,897 ■ Basalt Cored roving ■ Basalt fabric Basalt Grid rebar ■ Basalt Microbar ■ Basalt Cylinders ■ Basalt twisted th Op. Profit Margin **Gross Profit** Long run investment plan Structure of Stage I investments, mln EUR **EUR**14,675 Renovation and rehabilitation of th existing production workshops. 5 Investments 39% CAPEX structure, % furnaces and 1k ton of total **Net Profit** production capacity. In parallel, ■ CAPEX Stage I 1.2% establishment of 25 new 90 mln EUR 8.7% ■ Construction **EUR**20,804 furnaces and construction of new Net Profit Margin and IT workshops. Additional capacity 31.2% Marketing of 5k ton per year. Exploitation starts from year 3. 5.73 Cash Flow From ■ Working capital 58.9% **Operating** 26%

Sources: Hundred cisc valuation

Stage II

250mln EUR

Yerevan, Armenia



Construction of new plant with

total capacity up to 20k ton.

■ Equipment

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Investing in ArmBasalt is attractive due to combination of key success factors in basalt fiber industry such as unique qualification of owner and team, stable quality of raw materials, customer experiences and network, use of modern low energy technologies.

Description Factor · Homogeneous geological composition of Armenian basalt rocks defines stable quality and technical features of final products what is crucial for high tech customers Good price-quality ratio Local inexhaustible and best-quality raw materials by low price New cost-effective technologies decrease the use of energy and utilities Company's brand is well known by customers and partners in target markets 2 Brand recognition Production processes is certified by international quality standard Company actively participates in specialized world exhibitions CBF (Continuous Basalt Fiber) industry requires unique experience and knowledge that is hard to find in market Unique knowledge Company continually invests in training of its employees Management has vast experience in the field of products offered Global tendency to replace the classical composite steel reinforcement with CBF By industrial production of basalt fibers based on new technologies, their cost is equal Strong industry forecast and even less than cost of glass fiber - key CBF substitute CBF advantages (high durability, environment-friendly, no corrosion, heat resistance, etc.) Company has its distributors with singed exclusive agreements Access to market Customers have preliminary agreed to purchase products in volume above 1k tn p.a. for first years and then from year 3 for total production capacity.



Valuation

Materials

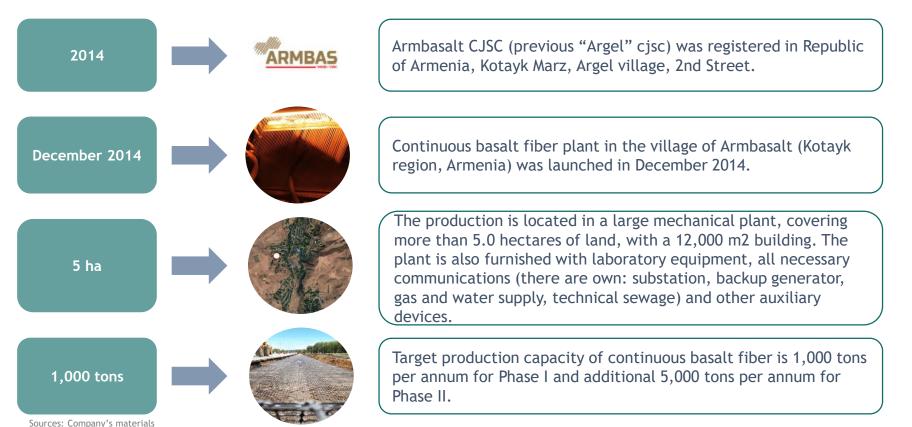


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ArmBasalt CJSC is a leader in basalt fiber production in the whole South Caucasus. The company leverages Arminian basalt rocks reserves of unique quality and available price effective energy sources, and offers products to various industries such as construction, automotive, energy etc.



Company can produce a wide range of products from basalt roving and basalt rebars to basalt chopped and twisted fiber and finally to the most promising product - continuous basalt fiber. Current production facilities will be upgraded to decrease production costs and improve competitive advantage on the international markets by implementation of more energy efficient technologies. It will strengthen the positions on European and Asian markets in short term and open new customer segments in the middle and long run.



Basalt Roving

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Basalt Rebar

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Basalt Twisted Fiber

Company manufactures basalt roving to produce basalt rebar and reinforcing mesh, which surpasses metallic rebar and fiberglass rebar due to its technical characteristics. Company's other products are chopped fiber and twisted fiber.

Basalt Chopped Fiber

Price/Ton, VAT exclusive	EUR2,500	EUR4,000	EUR5,500	EUR5,500
Operation temperature	°C from -260 to +700	°C from -200 to +900	°C from -260 to +600	°C from -260 to +700
Uses	Primary input for derivative products such as rebar, twisted fiber, etc.	Input for strengthening of concrete products	As a lighter, cheaper, corrosion- resistant alternative to steel rebars in construction	Primary input for textiles, needled felts and electric insulation boards
Main industries	Construction Mining	Construction of roads and bridges Car industry	Construction of roads, sidewalk curbs, ports, buildings, underground walls and channels	Production of various woven and nonwoven materials, as well as production of composite materials, based on epoxy, phenolic and other matrices

Product Mix

Sources: Company's materials



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Basalt Microbar

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Basalt Cylinders

Continued...

Company manufactures basalt roving to produce basalt rebar and reinforcing mesh, which surpasses metallic rebar and fiberglass rebar due to its technical characteristics. Company's other products are chopped fiber and twisted fiber. **Basalt Geo-Grid**

Basalt Fabric

Price/Ton, VAT exclusive	EUR5,000	EUR10,000	EUR8,000	EUR12,000
Operation temperature	°C from -260 to +700	°C from -200 to +900	°C from -260 to +600	°C from -260 to +700
Uses	used to reinforce soil and similar materials and can be used in areas such as road construction and marine off- shore infrastructures	can be used in tubes, bars ,pipes fittings, internal heat and sound insulation of floors, walls, frame walls, boiler shells, tanks	Basalt fiber has excellent heat resistance and is suitable for non-combustibility measures in densely built-up areas.	Basalt cylinders are regarded perfect for the hydraulic transportation of materials that are abrasive
Main industries		Production of various woven and nonwoven materials, as well as production of composite materials, based on epoxy, phenolic and other matrices		Construction of roads, bridges

Sources: Company's materials



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Full cycle production process from mining to winding provides control over product costs and allows sustainable quality management. At the same time, it requires deep understanding of underlying technologies that set industry entry barriers for potential competition.



- fraction basalt stone by jaw crusher
- Raw materials supply to the melting furnace

Mining



Melting and Bushing

- Melting of raw materials at a temperature of 1550+50°C
- •Feeding Melt to a platinum-rhodium spinner feeders
- •Forming strand of elementary CBF in the form of filaments by pulling and winding them to the pulling device



- Coating with a layer of sizing
- Collecting the threads into one complex thread(CT)

Sizing



- Winding integrated thread on removable bobbin (forming complex thread)
- Drying the coiled reels in a drying oven at a temperature of 800°C to 900°C and entering the rewinding department to obtain roving

Roving



Twisted Fiber



Chopped Fiber



Rebar



Reinforcing Mesh



Sources: Company's materials



Competitors

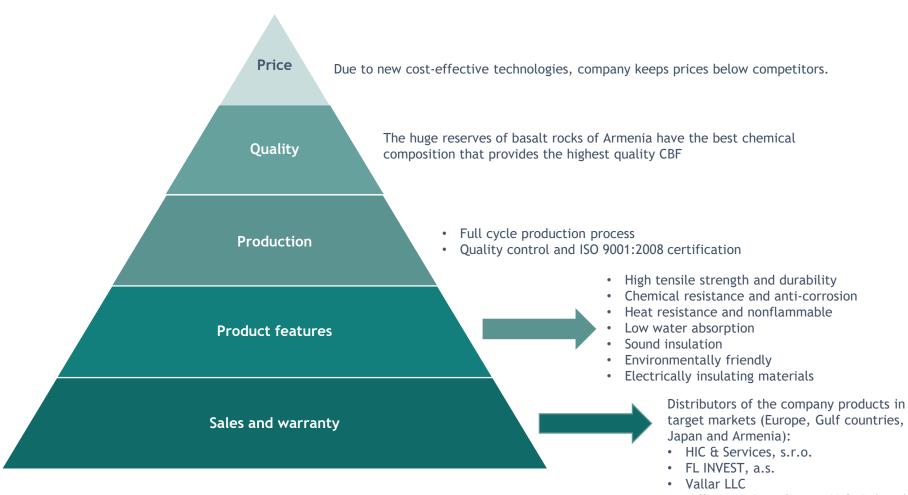
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Company's ability to deliver customer satisfaction is based on low prices, high product quality and sales channels based on company's distributors network.



Sources: Hundred cjsc analytics

Yerevan, Armenia

Milling machine factory LLC (Related Company)

Valuation Materials

Value Proposition



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Paying attention to both primary and supporting activities company can ensure ongoing end to end production process and control over costs in the long range and enhance product range by demand without need for significant technological change.

Support
Δctivitie

Primary

Activities

Human Resource Management Investments in employees training programs Development of effective communication mechanisms to quickly identify and resolve potential problems Technology Development Continues investments in production process to control quality and costs, ensure business continuity innovation and development of new products Procurement Localized procurement Standardized production inputs (raw materials, lubricants, etc.) protect from dependencies from supplier

Inbound Logistics

- Locally purchased raw materials from reliable sources (agreement with 3 mines)
- Selected affordable and highquality raw materials
- Stored before processing in an appropriate storage cell

Operations

- Modern equipment and advanced technologies
- High quality and uniqueness of products by company owned technology
- Presence of experienced staff and well-trained specialists
- -Quality control

Outbound Logistics

- Packaging
- Transportation to the warehouse
- Storage or shipment to the customers

Marketing and Sales

- Company Has its distributors in each target market
- Purchase commitments from major domestic (Spayka LLC) and international (GSI Creos Japan) end users
- The best price-quality ratio
- Internationally renowned and has special image in the market of CBF
- Active participation in world fairs and exhibitions

Sources: Hundred cjsc analytics



Yerevan, Armenia







Margin

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Company is planning to purchase modern equipment from leading European suppliers to enter new product markets













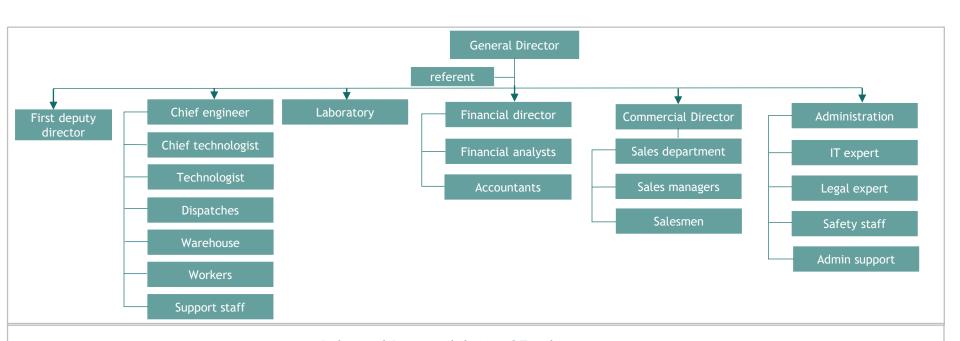
- Complete equipment set for manufacturing of basalt continuous fiber with a capacity of 1,080 tons per annum,
- 5 Furnaces 1,600°C, 2 bushings/furnace with 415 slots; 1000 slots after modernization
- 9 German and Japanese winding machines, 3 pultrusion lines

Sources: Company's materials



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Company's organizational structure covers key areas such as engineering and sales. The Company also has strong financial team for close collaborative work with investors and financial institutions



Roles and Responsibilities of Employees

With current level of production, the Plant employs over 120 specialists to produce basalt fiber roving on operating furnaces. The employees are highly educated professionals, including 5 PhD-s of technical science, one full member of Engineering Academy of Armenia, 34 with higher education diplomas and 10 with technical high school diplomas.

With the setup of all 5 furnaces for basalt fiber roving production, as well as production of basalt rebar from roving, the plant will need more specialists. Phase II implementation staff is assessed to be overall 504 people, including all functions- production, sales and marketing, administration and top management. Sources: Company's materials

Yerevan, Armenia



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20 October 2023

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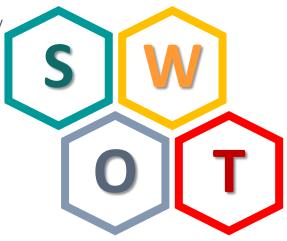
Company can achieve strong position in the growing market. Among key threats is substitutional competition from carbon and glass fiber. At the same time unique knowledge, infrastructure and client relationship support Company's competitive advantage.

STRENGTHS

- Own developed technology for continuous basalt fiber production
- Management has wide industry experience
- Letters of intent with 4 key distributors
- Reasonable price offering regarding high product quality
- Modern equipment ensures cost efficiency
- Efficiency and high quality of services and services provided
- Continuity and systematization of information flows certified by ISO standard
- High quality of raw materials
- Possibilities for expanding the number of products and services

WEAKNESSES

- Additional investments are required to relaunch production process (Stage I)
- Current state of furnaces may be guestionable



OPPORTUNITIES

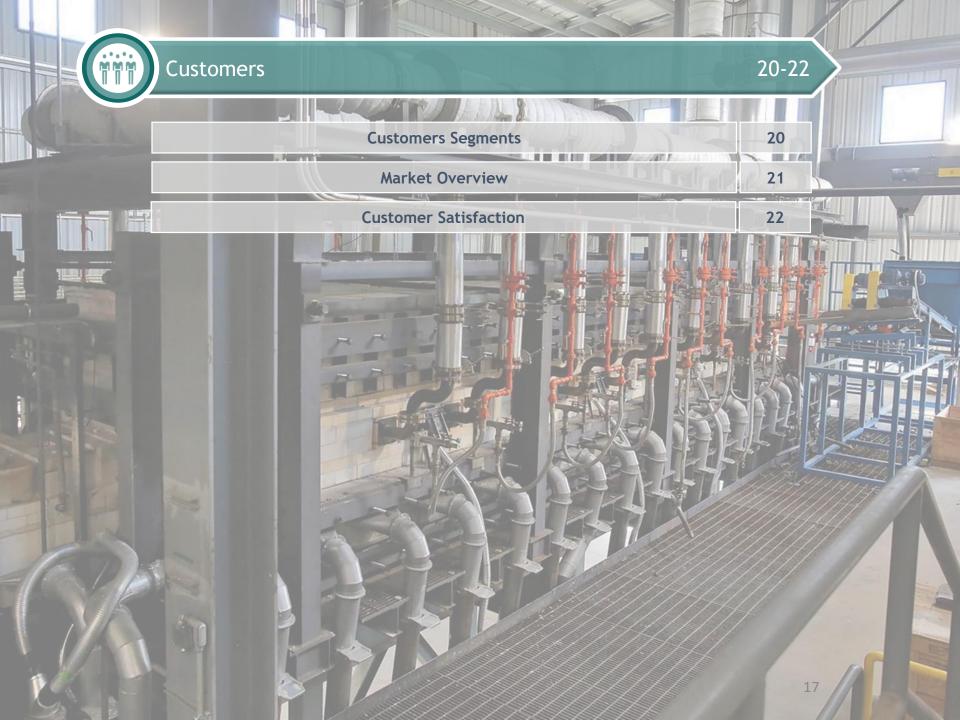
- Growing global demand for basalt fiber products
- Stability of development of Armenia, as well as the growth of economic activity of the countries of nearby regions
- Deterioration of key competitors' position due to geopolitical and economic situation

THREATS

- Strengthening competitor's position
- Strong substitute competition from carbon and glass fiber
- Appearance of new competitors on the market with sufficient funding capabilities and government support
- Rising energy prices put the pressure on end product prices

Sources: Hundred cjsc analytics





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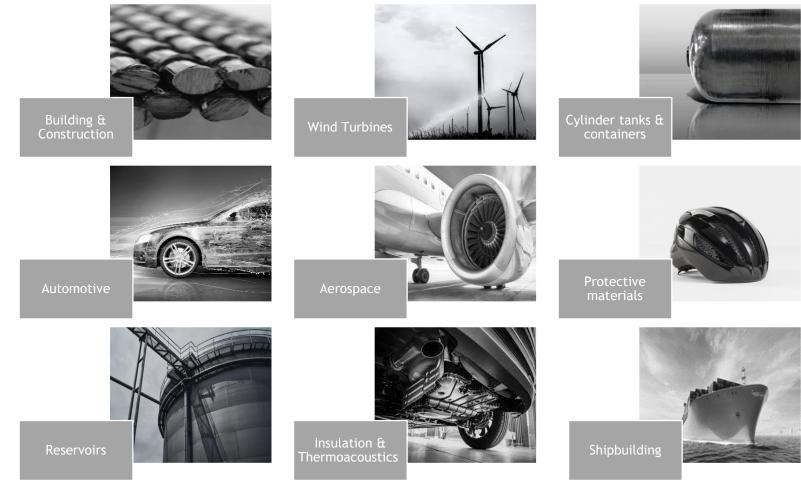
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Continuous basalt fiber is used in many industries as alternative to glass and carbon fiber due to combination of high mechanical properties, resistance to aggressive environment and high temperature.



Sources: Hundred cjsc analytics



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The global continuous basalt fiber market is expected to reach EUR 106 Million in 2022 and grow annually by 12.4% during the period of 2022-2032. Europe represents major market with about 30% of total share and will strengthen its position in the next years.



Basalt fiber market accounts for <1% share in the global building & construction material market. The demand is likely to remain concentrated in this segment owing to the product used as a replacement to carbon fiber-based reinforcements, and conventional steel.

Yerevan, Armenia

The European basalt fiber market holds nearly 29% of the overall market share and is projected to rise at a CAGR of 13.6% in the coming years. CAGR for Regions 2022-2032, % per annum North America East Asia Global South Asia & Oceania 12.1% MEA & Latin America 0.0% 5.0% 10.0% 15.0% Market Split by Regions, 2022 29% Europe North America South Asia & Oceania East Asia MFA Latin America 0% 10% 20% 30% 40

Sources: Fact.MR Market Research Report

Sources: Fact.MR Market Research Report



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Company's management vast experience and well-trained staff, as well as established supply chain and reasonable prices, provide high customers satisfaction.



Professional Team

- 7+ years' experience in basalt fiber manufacturing
- Management vast experience in the field of products offered
- High qualification level of the company's executives
- Experienced staff and well-trained specialists

Processes



- Extensive network of Armenian basalt mines and ability to select raw materials for optimal quality
- Quality control throughout the whole process of production cycle
- Additional agreement with CIS partners to provide uncovered part of the product volumes
- Has its distributors in each target market



Product Features

- High tensile strength and durability
- Chemical resistance and anti-corrosion
- Heat resistance and nonflammable
- Low water absorption
- Sound insulation
- Environmentally friendly
- Electrically insulating materials
- Reasonable prices offered compared to product quality

Yerevan, Armenia

High Standards

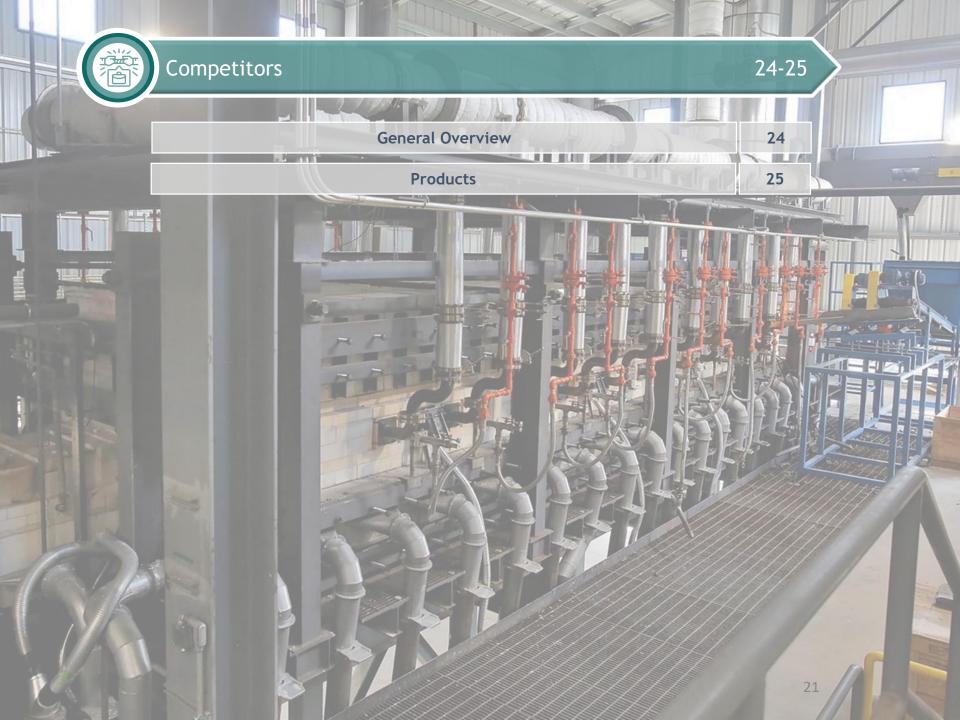
Infrastructure



- 5ha manufacturing site and 12,000 m2 building
- The production site and the warehouses of the company comply with the ISO 9001:2015 standard
- The company has its own developed technology for continuous basalt fiber production

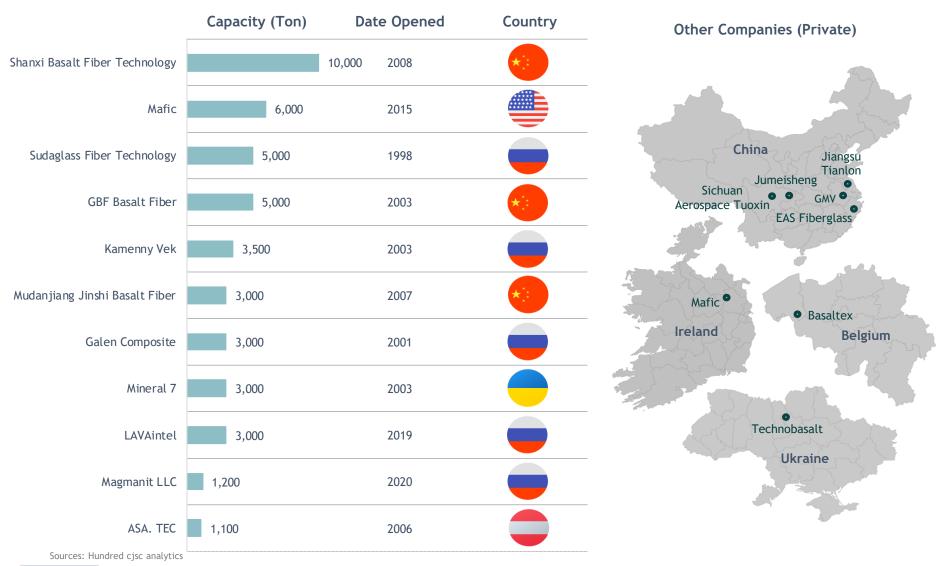
Sources: Hundred cjsc analytics





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Most of the global continuous basalt fiber market key players are in Russia and China and were founded in last 20 years.











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Company produces the main basalt fiber production set. To produce new type of fiber-based products with higher profit margins and higher prices, company needs new equipment and additional furnaces.











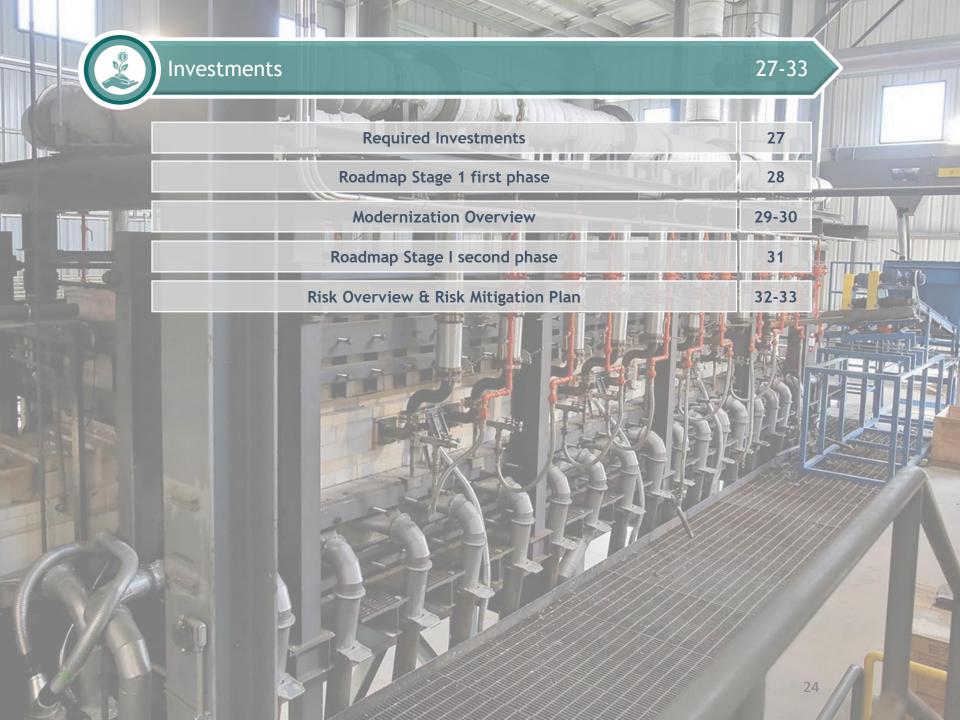




Product	Basalt Roving	Twisted Yarn	Basalt Chopped	Basalt Rebar	Geogrid/Mesh	Basalt Fiber Fabric	Needled Felt/Mats
ARMBAS	✓	✓	✓	✓	✓	-	-
Shanxi Basalt Fiber Technology	✓	✓	✓	-	✓	✓	✓
Mafic USA, LLC	✓	-	√	-		✓	-
Sudaglass Fiber Technology	✓	-	✓	✓	✓	✓	✓
GBF Basalt Fiber Co. Ltd.	✓	✓	✓	✓	✓	✓	✓
Kamenny Vek	✓	✓	✓	-	✓	✓	✓
Galen Composite	✓	-	-	✓	✓	-	-
ASA. TEC	✓	-		✓	-	-	-
Basaltex	✓	✓	✓	-	✓	✓	✓
Technobasalt	✓	-	✓	✓	 	✓	✓
EAS Fiberglass	✓	✓		-	-	✓	✓
Jiangsu Tianlong	✓	✓	✓	✓	✓	✓	✓
Jumeisheng	✓	✓	✓	✓	✓	✓	✓
LAVAintel	✓	-	✓	✓	✓	-	-

Sources: Hundred cjsc analytics





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Company plans three main investment stages, with which the total production capacity can be increased above 20,000 tons/year. This report and provided financials are dedicated to the Stage I both phases investments that should re-launch production and improve prices by implementation of new low energy consuming technologies, as well as increase the plant capacity up to 6,000 tons per annum.

Armbasalt CJSC foresees construction of a 5 MW solar photovoltaic plant on its premises during the modernization and construction periods of the project. The company has implemented a shift in its energy policy towards renewables to reduce electricity costs as well as the use of capture and recycling technologies for our manufacturing processes. Investment in the photovoltaic station will cost 3 mln. EUR.

	Overview of in					
	Scope of this Presentation					
	Stage I Stage II					
Amount	93 million EUR	250 million EUR	Amount			
Purpose	Restarting the production of basalt fiber roving with existing capacities and modernization of the equipment Renovation of 5 furnaces and establishment of 25 new furnaces and construction of new workshops	Construction of a new plant	Purpose			
End Capacity	1,080 tons/year then 6,000 tons/year	26,000 tons/year	End Capacity			
Timeline	Modernization & New Construction up to 22 months	24-30 months	Timeline			
Sources: Company	L's materials					

Sources: Company's materials





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Considering Armbasits shifting policy towards "Green Production", the company plans to implement the use of hydrogen as a heat carrier in furnaces to improve manufacturing processes. Considering the high specific heat of hydrogen combustion, which is 119.8 MJ/kg (in the case of natural gas, it is 46.8 MJ/kg) and the result of its combustion in the form of water will provide an opportunity to obtain environmentally friendly production.

As a heat carrier it is planned to use surplus electricity produced by the solar plant during the day, which will be used to obtain gas using electrochemical methods and considering expert predictions, the costs for obtaining hydrogen in the next 15 years can be reduced by 85% due to advances in technology.

Below is the production and technical characteristics of the electrolyze station for obtaining hydrogen:

Model: MC500 Class: 2.5 MW

Description: Fully automated hydrogen generator of MW class

Net productivity: 492 Nm3/h Net productivity: 1,062 kg/24 h from 10% - 100%

Dynamic range of production capacities: The average electricity demand for hydrogen

production: 4.5 kWh/Nm3

Average electricity demand for hydrogen

mass production:

Purity (with built-in dryer): The pressure at the outlet:

> Release time: Roam duration:

Ambient temperature during operation:

Electrolyte Proton Exchange Membrane (PEM)

50 kWh/kg

99.9995% 30 bar

8 minutes 15 seconds

20 to 400C

Hydrogen year after year is a primary heat-carrying gas which can be used as additional or substitute raw material for obtaining heat.

Sources: Company's materials



Purchase of gas recuperators and gas-air mixture aims to decrease gas consumption as one of key costs elements. Twisting machines provide access to the perspective twisted thread products and textile and construction industries.

Equipment



Purpose

The recuperator recovers heat indirectly from the flue gas and returns it to the combustion source, reducing auxiliary fuel consumption. Alternately, waste heat may be recovered indirectly by preheating process gas or other gaseous medium, improving overall system efficiency.

Effect

Reduce gas consumption by reducing the energy consumption for heating the air required for burning gas in the furnace.

Flue gas recuperators



Replacing old uncontrolled burners of the gas-air mixture with new modern ones to ensure that the flame is stabilized by establishing a suitable flow field to produce the initial temperature rise. The flame is used as the source of heat to preheat the fuel/air mixture to the ignition temperature.

Reduce the consumption of gas burned in the furnace of basalt melting. Savings are made by controlling the flame, which leads to the complete combustion of the gas.

Burners of the gas-air mixture



Twisting machines

Considering that the plant also produces a thread with a diameter of 8 to 10 microns and significant demand for different types of fabrics in Europe, North America, and Asia, the purchase of twisting machines is of high priority. The twisted thread is mainly used in weaving.

Expand the market segment by supplying textile companies with twisted thread.

Sources: Hundred cjsc analytics



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Weaving and knitting machines will be used for production of technical fabrics and protective suits. Wire tying machines produce geotextile grids - high perspective product in construction of roads and reservoirs.

Equipment



With the acquisition of weaving machines and the use of varn produced at the factory, it is possible to obtain both technical fabrics and fabrics used in the production of protective suits.

Purpose

Effect

Expand the market segment and higher profit margins.

Weaving machines



Obtain both technical fabrics and fabrics used in the production of protective suits.

Expand the market segment and higher profit margins.

Knitting machines



Ensure the possibility of producing building nets, geotextile grids to strengthen the soil, etc. This type of product actively replaces fiberglass products in the market as more environmentally friendly product.

Expand the market segment in civil engineering projects such as roads, retaining walls, reservoirs, etc and provides higher profit margins

Wire tying machines



Pultrusion is a continuous manufacturing process for composite profiles. It will allow to expand production and offer the market finished products in the form of profiles of different sections to replace the metal ones, which are more applicable in aggressive environments.

Expand the market segment and higher profit margins.

Pultrusion line

Sources: Hundred cjsc analytics



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Stage I second phase is aimed to significantly increase production capacities - up to 5 times, diversify production mix and increase cost efficiency due to deeper specialization and use of equipment.

Purpose of Stage I second phase investments

Stage I second phase, aiming significant expansion of production capacities for another 5,000 tons per annum, which means that 25 new furnaces will be established. Additional furnaces and production capacity will allow to diversify production mix and to produce new type of fiber-based products with higher profit margins and higher prices. This stage of investment includes also construction of new warehouses, purchase and installment of corresponding equipment for each furnace as separate production line. So, for the second phase of the Investment Project implementation, new workshop buildings needs to be constructed.

Key foreseen activities of Stage I second phase

Activity description	Measurement unit	Amount
Preparation of basement for equipment to be installed	Sq.m.	14,000
Construction of new workshop buildings	Sq.m.	14,000
Technologic infrastructure - steel constructions	unit	1
Road leading to new workshop and premises	Sq.m.	5,000
Hotel for company guests, clients and suppliers	rooms	15

Sources: Company's materials





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ArmBasalt carefully analyzes new technological trends and works with local technical schools to attract young professionals. It also works with various local suppliers to diversify supply chain risks.

1. Operational Risks

#	Risk	Managed By	Mitigation Strategy
1	Gas and electricity supply failures	CEO	Company has alternative sources of power and gas uninterrupted supply
2	Supply chain risks	CEO	Company works with different suppliers and has significant reserves of key raw materials
3	Lack of qualified staff	CEO	Working with local professional/ technical schools and universities

2. Legal Risks

#	Risk	Managed By	Mitigation Strategy
1	Changes in laws and regulations	Legal expert	Risk is tolerated and monitored
2	Forms of contracts and cooperation agreements	Legal expert	Legal expert is staffed in the Company

Sources: Hundred cjsc analytics



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Being heavily depended on utility costs and having customers from foreign countries, Company consistently manages its market risks. Company's industry has significant barriers to entry for being capital intensive.

3. Market Risks

#	Risk	Managed By	Mitigation Strategy
1	Increase in competition	CEO	Enhance company's image and reputation by marketing strategy, high-quality basalt product, investing in new technologies to support margin
2	Weak economic growth	CEO	Growth of client industries is supported by government investments
3	Exchange rate fluctuations	CEO	Constantly observe exchange rate market dynamics and including special elements in contracts
4	Increase of utilities prices	CEO	Optimization and modernization of production process to reduce consumption
5	Emergence and development of new technologies	CEO	Continual innovating and finding of new technological solutions, visiting conferences and exhibitions by management and key engineers

4. Environmental Risks

# Risk		Managed By	Mitigation Strategy	
1	Government regulations	CEO	Management regularly assess and evaluates possible consequences of implementing new regulations regarding environment protection	

Sources: Hundred cjsc analytics







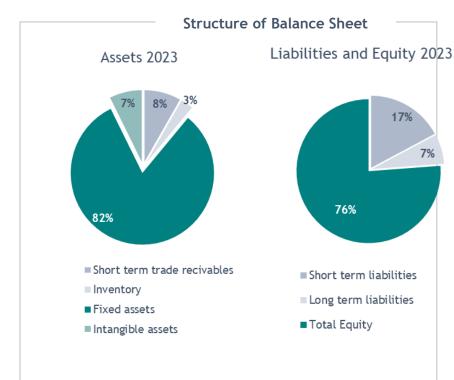
Key Company assets are concentrated in equipment and plant, what was partially financed by loans. The remaining represents capital injections from the owner.

Balance Sheet as of 31,12,2023

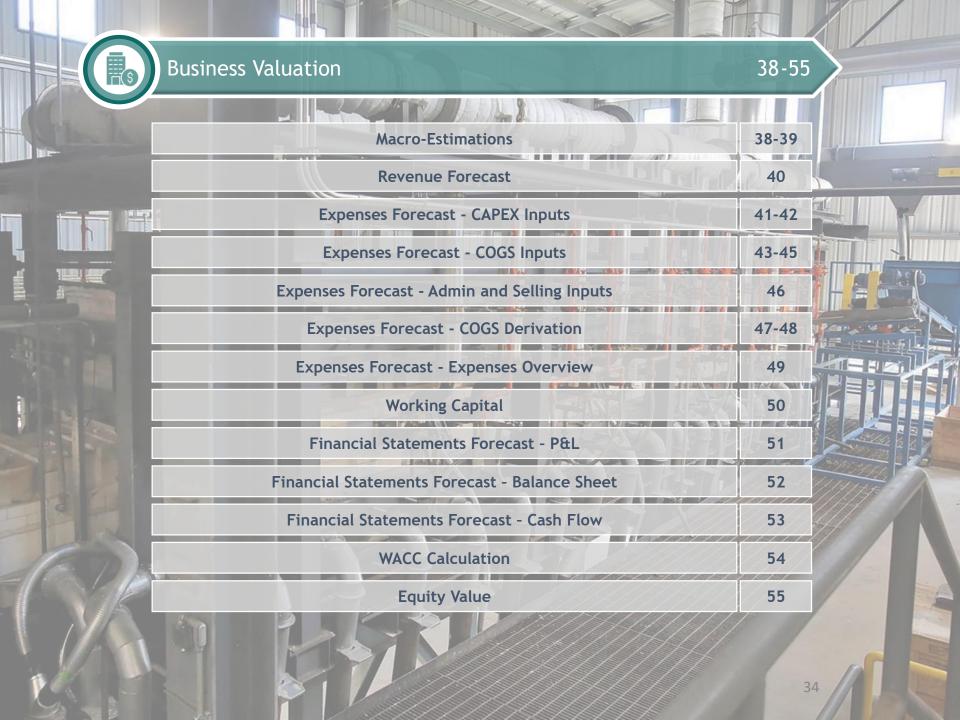
Balance Sheet, th.EUR	31/12/2023
Cash	437
Short term trade recivables	2,900
Inventory	971
Current Assets	4,308
Fixed assets	28,779
Intangible assets	2,565
Non-Current Assets	31,343
Total Assets	35,652
Short term liabilities	6,128
Long term liabilities	2,364
Total Liabilities	8,491
Total Equity	27,161
Total Equity and Liabilities	35,652

Sources: Company's materials

In 2023, Company had over 1,000 tons of sales, in 2024 already have 2,000 tons of orders, as for 2025 financial year, 6,000 tons of manufacturing ad delivery is already planned.



Company's total assets doubled due to fixed assets revaluation to 28,779 th EUR in 2023. The total liabilities increased by 46% in 2023. The equity comprised 77% of the total liabilities & equity in 2023 due to increase in revaluation reserve up to 30,817 th EUR.



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Republic of Armenia expects steady GDP growth with rate and targeted inflation of 4%.

Armenia's economy rebounded by 12.6 percent in 2022 and is forecasted to grow at 7.2% in 2023. Inflation target is significantly lower than in 2022 (4.0%).



Macro-Economic Indicators, %	2021	2022	Long Term
Gross domestic product, constant prices	5.66	12.60	4.50
Inflation, average consumer prices	7.20	8.30	4.01
Unemployment rate	18.50	12.56	16.50
Volume of exports of goods and services	4.60	5.36	5.90
Volume of imports of goods and services	6.60	6.80	5.47
. ,			

Yerevan, Armenia

Armenia GDP	2022
Population, million	2.8
GDP, current US billion	20.8
GDP per capita, current US	5,444.0

Sources: Hundred cjsc analytics



Company Historical Competitors **Appendix Business valuation** Customers Investments performance overview

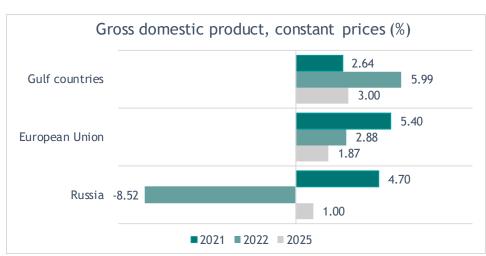
The post-Covid-19 pandemic recovery is being hit by a potentially huge global supply shock that will reduce growth and push up inflation. The war in Ukraine and economic sanctions on Russia have put global energy supplies at risk.

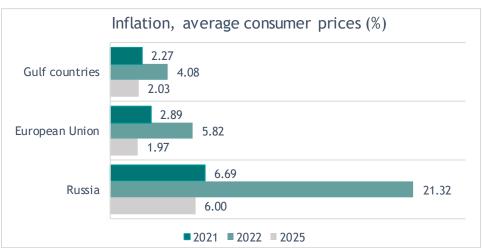
Macroeconomic indicators

	Gross domestic product, constant prices (%)						
Country/Region	2020	2021	2022	2023	2024	2025	
Russia	-2.70	4.70	-8.52	-2.29	1.50	1.00	
European Union	-5.88	5.40	2.88	2.51	2.13	1.87	
Bahrain	-4.94	2.23	3.29	2.98	3.00	3.02	
Iraq	-15.70	5.94	9.53	5.72	2.70	2.60	
Kuwait	-8.86	1.31	8.23	2.62	2.65	2.63	
Oman	-2.84	2.00	5.59	2.68	2.55	3.36	
Qatar	-3.56	1.52	3.43	2.49	1.74	2.81	
Saudi Arabia	-4.14	3.24	7.60	3.64	2.73	2.67	
UAE	-6.14	2.27	4.24	3.80	3.84	3.90	

UAE	-6.14	2.27	4.24	3.80	3.84	3.90			
	Inflation, average consumer prices (%)								
Country/Region	2020	2021	2022	2023	2024	2025			
Russia	3.38	6.69	21.32	14.27	9.00	6.00			
European Union	0.68	2.89	5.82	2.95	2.04	1.97			
Bahrain	-2.32	-0.61	3.50	2.85	2.26	2.00			
Iraq	0.57	6.04	6.89	4.66	3.14	2.20			
Kuwait	2.11	3.40	4.75	2.30	2.29	2.54			
Oman	-0.90	1.55	3.74	2.17	1.98	1.92			
Qatar	-2.72	2.25	3.49	3.18	2.06	1.53			
Saudi Arabia	3.45	3.06	2.51	1.96	1.96	2.00			
UAE	-2.07	0.19	3.66	2.83	2.00	2.00			

Yerevan, Armenia





Sources: International Monetary Fund

Sources: Hundred cjsc analytics

Valuation Materials

Macro-Estimations



Company overview

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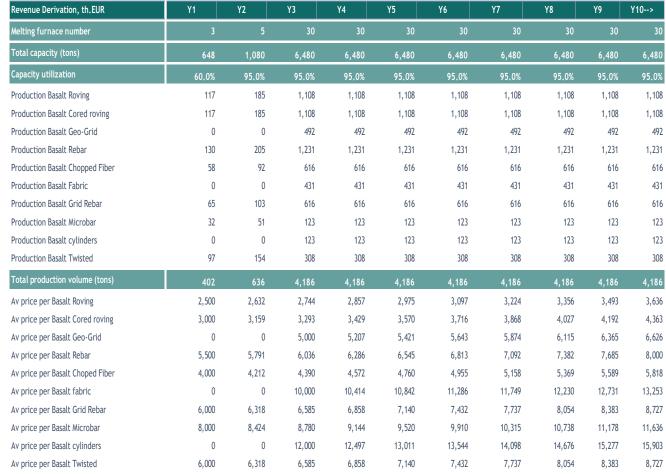
Investments

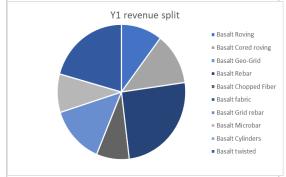
Historical performance

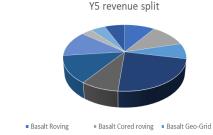
Business valuation

Appendix

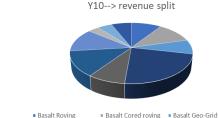
After re-launch the Company will produce four types of products, after installation of additional capacities, the product mix will be expanded for up to 10 types. The Company plans to export 60% of its production and deliver 40% on the Armenian market. The pricing policy is based on two approaches at a time: cost of production plus margin over average market prices offered in target markets.







- Basalt Rebar
- Basalt Chopped Fiber Basalt fabric
- Basalt Grid rebar
- = Basalt Microbar
- Basalt twisted
- Basalt Cylinders



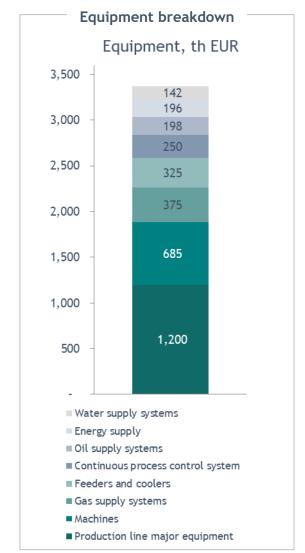
- Basalt Roving
- Basalt Rebar Basalt twisted
- Basalt Grid rebar

 - Basalt Microbar
- Basalt Cylinders

■ Basalt Chopped Fiber ■ Basalt fabric

Almost 60% of Stage I investments for CAPEX refers to purchases of new equipment to increase efficiency of production process, decrease consumption of energy and utilities and expand product mix.

Depreciation period (Y)	Depreciated / Expensed in	Details	CAPEX (th.EUR)
15	COGS	Production line major equipment	1,200
15	COGS	Feeders and coolers	325
15	COGS	Platinum rhodium sensors	23
15	COGS	Continuous process control system	250
15	COGS	Automatic feed of basalt rubble	45
15	COGS	Collection of flue gases from furnaces	170
15	COGS	Gas pipeline	125
15	COGS	Cooling circulation water system	85
15	COGS	High pressure air supply system	80
15	COGS	Furnaces	95
15	COGS	Transformers	10
15	COGS	Clean water supply and sewage system	57
15	COGS	Oil feeding system	198
15	COGS	Drying chambers	70
15	COGS	Roving machines (for the forsaken roving)	177
15	COGS	Testing equipment and chemical laboratory	151
15	COGS	Equipment installation	51
15	COGS	Composite reinforcement and mesh	40
15	COGS	Electrical equipment	196
15	COGS	Assembly room feeders	23
		Subtotal Equipment	3,370



38



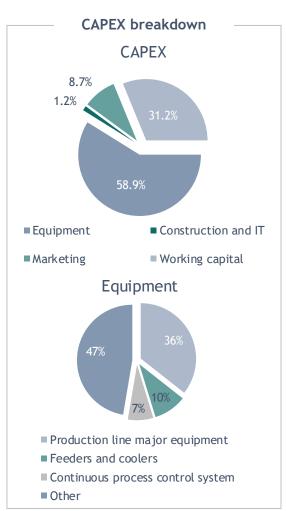
Company Historical Competitors **Business valuation Appendix** Customers Investments performance overview

Total investments for renovation and modernization phase in Stage I amount to 5.7mln EUR. About 2.3mln EUR is foreseen for working capital financing, 500 th. EUR to support market positioning and applying EU certifications. Major share will be used to renovate production facilities.

Process	Depreciation period (Y)	Depreciated / Expensed in	Details	CAPEX (th.EUR)
Construction /	40	COGS	Hotel, road, alteration of the roof over the furnaces	500
Renovation			Subtotal	500
IT	15	OPEX	Security and surveillance system	20
"			Subtotal	20
Marketing	10	OPEX	European certification, addvertisement, exhibitions	500
Maiketilig			Subtotal	500
Working			Gas, electric power, water, salary, lubricant, etc.	1,336
Capital			Subtotal	1,336
			Subtotal Non-equipment	2,356

ources: Hundred cjsc Valuation

Event major amount of Stage I investments are planned for purchase of new equipment, a part will be used to finance Company's working capital. European certification is needed to work with local customers and distributors. Due to technical and innovative character of industry it is planned to continue visiting international exhibitions and conferences, where new trends and potential customers can be contracted by the management.





Historical Company Competitors **Appendix** Customers Investments Business valuation overview performance

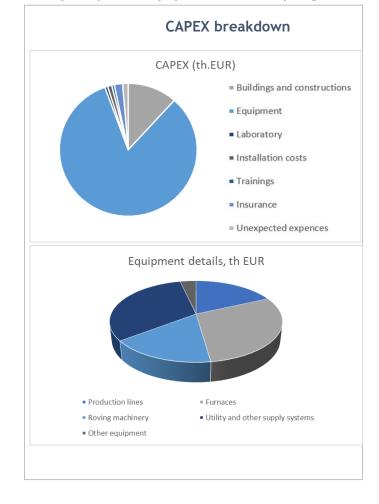
Total investments for renovation and modernization in Stage I second phase amount to 77,320 mln EUR. Over 1.2 mln EUR is foreseen for design and bill of quantities development financing, 6.9 mln EUR for new plant and workshops construction, about 1 mln EUR for installation and employees' trainings. Major share will be used to purchase purely new equipment and se up high-tech

machinery for furnaces and production lines.

Details	CAPEX (th.EUR)
Buildings and constructions	8,140
Equipment	65,110
Laboratory	_ 400
Installation costs	600
Trainings	370
Insurance	1,200
Unexpected expences	1500
Total	77,320

Over 82% of amount of second phase investments are planned for purchase of new equipment, only small part will be used to finance Company's working capital. European certification is needed to work with local customers and distributors. Due to technical and innovative character of industry it is planned to continue visiting international exhibitions and conferences, where new trends and potential customers can be contracted by the management.

For second phase of Stage I investment, total project finance needs of 87 mln EUR will be covered by external loan. Loan in EUR with 2 years of grace period and 8 years of payback period is envisaged. Financial costs for funds lending is 10% to be paid upfront. Sources: Hundred cisc valuation







Company overview

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Competitors

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Historical performance

Business valuation

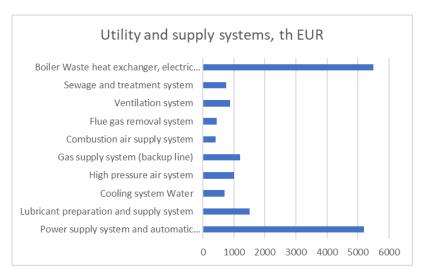
Appendix

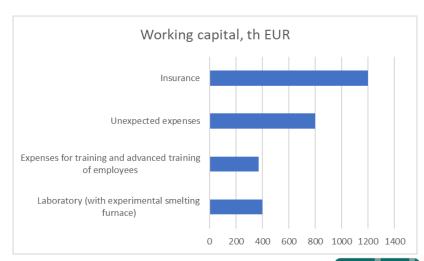
Almost 60% of Stage I first phase (rehabilitation) investments for CAPEX refers to purchases of new equipment to increase efficiency of production process, decrease consumption of energy and utilities and expand product mix.

Expenses Forecast - CAPEX Inputs (2)

Details	CAPEX (th.EUR)
Production area, warehouse area, canteens, showers and other premise	s 6900
Design	1240
Supervised installation	600
Platinum products/rodium (development, purchase)	10500
Furnaces, 25 pcs., including automatic control system	15000
Power supply system and automatic input of backup power, emergency	a 5200
Lubricant preparation and supply system	1500
Cooling system Water	700
High pressure air system	1000
Gas supply system (backup line)	1200
Combustion air supply system	400
Flue gas removal system	435
Ventilation system	875
Sewage and treatment system	750
Boiler Waste heat exchanger, electric energy production	5500
Drying and packaging of threads and rovings	800
Winding machines	5500
Roving machines	2250
Reinforcement and mesh production lines	
Unwinding - twisting - fiber winding	
Weaving machine for technical fabric	
Knitting machine for masonry mesh	10500
Pultrusion line	
Geogrid Production Lines	
Production lines for needle-stitched mats	
Laboratory (with experimental smelting furnace)	400
Photovoltaic station	3000
Expenses for training and advanced training of employees	370
Unexpected expenses	1500
Insurance	1200
total	77,320

Supply systems breakdown





Valuation Materials

One of the major projected COGS expenses include cost of materials used, such as raw basalt and lubricants, utilities used for furnace heating (gas, electricity), technical water used in production, etc. which compose about 47% of cost of goods sold on average. The first product of CBF production process is basalt roving which is to complex converted more

Customers

Company

overview

Roving

products.



Rebar



Sources: Hundred cjsc valuation

		periormanee			
EUR	ltem	Unit	Price per unit	Cons. per ton	Price per ton
	Raw material (Basalt)	Ton	28.1	1.1	32.0
	Lubricant	Kg	3.5	34.7	121.6
	Auxiliary materials	Ton	0.3	37.4	11.4
Material	Materials for maintenance	Ton	0.1	37.4	3.8
	Rent of feeders and refregerators	Ton	244.4	1.2	281.1
	Other (sanitation, contingency, etc)				110.5
	Subtotal				560.4
	Electricity	kWh	0.1	0.2	182.5
	Water (consumption)	Cubic meter	0.2	32.7	6.8
Utility	Water (liquid waste)	Cubic meter	0.1	31.3	2.8
	Gas	Cubic meter	0.3	1,216.7	323.4
	Subtotal				515.6

Historical

performance

EUR	ltem	Unit	Price per unit	Cons. per ton	Price per ton
	Raw material (Basalt)	Ton	28.1	1.1	32.0
	Lubricant	Kg	3.5	150.1	525.9
	Auxiliary materials	Ton	0.3	37.4	11.4
Material	Materials for maintenance	Ton	0.1	37.4	3.8

tal costs pe	r ton Basalt Rebar				1,517.8
	Subtotal				553.0
	Gas	Cubic meter	0.3	1,216.7	323.4
Utility	Water (liquid waste)	Cubic meter	0.1	34.4	3.1
	Water (consumption)	Cubic meter	0.2	36.0	7.5
	Electricity	kWh	0.1	0.3	219.0
	Subtotal				964.7
	Other (sanitation, contingency, etc)				110.5
	Rent of feeders and refregerators	Ton	244.4	1.2	281.1
Material	Materials for maintenance	Ton	0.1	37.4	3.8
	Auxiliary materials	Ton	0.3	37.4	11.4
	Lubricant	Kg	3.5	150.1	525.9
	Raw Material (Dasail)	1011	20.1	1.1	32.0

Valuation Materials

Competitors

Total costs per ton Basalt Roving

Investments

Business valuation

Appendix

1,076.0

Basalt chopped fiber is similar to carbon fiber and fiberglass, but better mechanical has basalt properties than fiberglass and is lower in cost than carbon fiber. It is used as a fireproof textile in the aerospace and automotive industries and can also be used as a composite to produce a wide range of products. Basalt twisted yarns, built up from a defined number of basalt continuous roving,

Customers

Company

overview

Chopped Fiber

twisted together to form a yarn.



Twisted Fiber



Sources: Hundred cisc valuation

			perrormance			
	EUR	ltem	Unit	Price per unit	Cons. per ton	Price per ton
		Raw material (Basalt)	Ton	28.1	1.1	32.0
		Lubricant	Kg	3.5	52.1	182.4
		Auxiliary materials	Ton	0.3	37.4	11.4
	Material	Materials for maintenance	Ton	0.1	37.4	3.8
:		Rent of feeders and refregerators	Ton	244.4	1.2	281.1
		Other (sanitation, contingency, etc)				110.5
		Subtotal				621.2
l		Electricity	kWh	0.1	0.2	209.9
		Water (consumption)	Cubic meter	0.2	36.0	7.5
	Utility	Water (liquid waste)	Cubic meter	0.1	34.4	3.1
		Gas	Cubic meter	0.3	1,216.7	323.4
		Subtotal				543.9

Historical

performance

Business valuation

Appendix

al costs per	ton Basalt Chopped Fiber				1,165.1
EUR	ltem	Unit	Price per unit	Cons. per ton	Price per ton
	Raw material (Basalt)	Ton	28.1	1.1	32.
	Lubricant	Kg	3.5	52.1	182.
	Auxiliary materials	Ton	0.3	37.4	11.
Material	Materials for maintenance	Ton	0.1	37.4	3.8
	Rent of feeders and refregerators	Ton	244.4	1.2	281.
	Other (sanitation, contingency, etc)				110.
	Subtotal				621.2
	Electricity	kWh	0.1	0.3	273.8
	Water (consumption)	Cubic meter	0.2	36.0	7.5
Utility	Water (liquid waste)	Cubic meter	0.1	34.4	3.1
	Gas	Cubic meter	0.3	1,216.7	323.4
	Subtotal				607.8
al costs per	ton Basalt Twisted				1,229.0

Yerevan, Armenia

Competitors

Investments

Beside the materials and utilities, salary and depreciation are one of the biggest part of COGS. Together they represent 47% of COGS on average for Stage I rehabilitation phase.

Expenses per month, EUR	Details	Expense per month
	Dispatch for equipment	29,200
	Shift head	3,500
	Chief technologist	800
	Technologist	700
	Fillers	2,400
Disast	Forklift driver	250
Plant Employees	Workshop maintenance experts	1,200
Linployees	Workshop electricians	3,150
	Cleaners	600
	Laboratories	1,600
	Unqualified workers	2,400
	Employee Income tax	9,618
	Subtotal	55,418

Plant employees dispatching equipment constitute more than half of employee related costs. Employee income tax in amount of 10000. EUR in accounted.

Expenses per month, EUR	Details	Expense per month
	Insurance-technologic equipment	4,575
	Transportation	4,167
	Renovation and maintenance of equipment	3,750
Services	Technical maintenance- PPE	522
	Waste handling	417
	Other services	250
	Subtotal	13,680
	Equipment	49,505
Depreciation	Construction	10,942
	Subtotal	60,447

Total	129,545
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Another part of COGS is services where transportation and insurance costs are dominating as well as renovation and maintenance of equipment.

Depreciation of plant equipment amounts to 60000 EUR per month.



Company Historical Competitors Business valuation Customers **Appendix** Investments performance overview

For Stage I second phase (expansion) with production capacity of 6,000 tons per annum, salary and depreciation are the biggest part of COGS, with 27% and 21% respectively.

Expenses per month, EUR	Details	Expense per month
	Dispatch for equipment	52,410
	Shift head	3,205
	Chief technologist	641
	Technologist	590
	Fillers	3,077
	Forklift driver	769
Plant Employees	Workshop maintenance experts	3,077
Limployees	Workshop electricians	5,385
	Cleaners	1,538
	Laboratories	2,359
	Unqualified workers	4,615
	Employee Income tax	15,533
	Subtotal	93,200

Plant	t er	nployees di	spatching	g equip	ment const	itute mo	re th	ar
half	of	employee	related	costs.	Employee	income	tax	in
amoi	unt	of 15000 EU	JR in acc	ounted.				

Yerevan, Armenia

Expenses per month, EUR	Details	Expense per month
	Insurance-technologic equipment	4,575
Services	Transportation	4,167
	Renovation and maintenance of equipment	3,750
	Technical maintenance- PPE	522
	Waste handling	417
	Other services	250
	Subtotal	13,680
	Equipment	103,282
Depreciation	Construction	23,320
	Subtotal	126,602
Total		233,482

Sources: Hundred cjsc valuation

Another part of COGS is services where transportation and insurance costs are dominating as well as renovation and maintenance of equipment.

Depreciation of plant equipment amounts to 126000 EUR per month.



SG&A costs are mostly represented by management salaries, expenses for loan, property tax and marketing costs.

Other Operational Expenses, EUR	Details	Expense per month
	Sales manager	1,000
	Market experts	2,000
	Warehouse	1,600
	Drivers	400
Callian Famous	Income tax	1,050
Selling Expenses	Subtotal salary	6,050
	Marketing costs	4,167
	Certification, testing, checking, etc.	104
	Subtotal other expenses	4,271
	Subtotal	10,321
Other Operational Expenses, EUR	Details	Expense per month
		month
	Property tax	4,703
	Property tax Insurance	
Other Operational		4,703
Other Operational Expenses	Insurance	4,703 1,120
·	Insurance Other operational	4,703 1,120 760
·	Insurance Other operational Fees for natural resource utilisation	4,703 1,120 760 192
·	Insurance Other operational Fees for natural resource utilisation Ecologic fees	4,703 1,120 760 192 152

Other Operational Expenses, EUR	Details	Expense per month
	General director	2,000
	Deputy directors	7,000
	Deputy chiefs	3,300
	Chief accountant	1,000
	Accountant	1,400
	IT expert	450
	Safety experts and fairman	2,000
General &	Security	900
Administrative	Income tax	3,791
Expenses	Subtotal salary	21,841
	Office expenses	130
	Other (sanitation, contingency, etc)	2,087
	Travel and accomodation	567
	Telecommunication, Internet, IT, etc	608
	Legal and financial services	208
	Subtotal other expenses	3,600
	Subtotal	25,441
Total	OPEX	71,660

Sources: Hundred cjsc valuation



Starting from Year 3, within the expansion phase investment, G&A costs are mostly represented by management salaries, expenses for loan, property tax and marketing costs: the details are provided next.

		Phase II			
Other Operational Expenses, EUR	Details	Expense per month	Other Operational Expenses, EUR	Details	Expense per month
	Sales manager	2,564		General director	3,846
	Market experts	8,974		Deputy directors	15,385
	Warehouse	5,385		Deputy chiefs	10,256
	Drivers	2,564		Chief accountant	1,410
6.89	Income tax	3,897		Accountant	2,051
Selling Expenses	Subtotal salary	23,385		IT expert	1,026
	Marketing costs	7,500		Safety experts and fairman	3,205
	Certification, testing, checking, etc.	208	General & Administrative	Security	1,800
	Subtotal other expenses	7,708		Income tax	7,796
	Subtotal	31,093	Expenses	Subtotal salary	46,775
Other Operational	Details	Expense per		Office expenses	391
Expenses, EUR		month		Other (sanitation, contingency, etc)	3,130
	Property tax	4,703		Travel and accomodation	667
	Insurance	1,118		Telecommunication, Internet, IT, etc	1,521
Other Operational	Other operational	760		Legal and financial services	417
Expenses	Fees for natural resource utilisation	192		Subtotal other expenses	6,125
	Ecologic fees	152		Subtotal	52,901
	Subtotal	6,924			-
Loans	Subtotal	42,947	Total	OPEX	134,087
	Trade mark			f incentive schemes, based on a	
Depreciation (IT)	Subtotal	222	,	ses also are foreseen as part	1 /

Sources: Hundred cjsc valuation

Yerevan, Armenia



remuneration. Bonuses shall be calculated and allocated based on

KPIs established for each division or function in the plant.

Company Historical Competitors Business valuation Customers **Appendix** Investments performance overview

The Company's production compound annual growth rate (CAGR) is 12%. Basalt rebar accounts for 35% of all production, basalt roving and twisted chopped fiber have about the same proportion in production (28%).

The major components for cost of materials are lubricant and rent of feeders and refrigerators, which account for average 40% and 39% of total cost of materials respectively in projected period.

COGS Derivation, tons	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10>
Production Basalt Roving	117	185	1,108	1,108	1,108	1,108	1,108	1,108	1,108	1,108
Production Basalt Cored roving	117	185	1,108	1,108	1,108	1,108	1,108	1,108	1,108	1,108
Production Basalt Geo-Grid	0	0	492	492	492	492	492	492	492	492
Production Basalt Rebar	130	205	1,231	1,231	1,231	1,231	1,231	1,231	1,231	1,231
Production Basalt Chopped Fiber	58	92	616	616	616	616	616	616	616	616
Production Basalt Fabric	0	0	431	431	431	431	431	431	431	431
Production Basalt Grid Rebar	65	103	616	616	616	616	616	616	616	616
Production Basalt Microbar	32	51	123	123	123	123	123	123	123	123
Production Basalt cylinders	0	0	123	123	123	123	123	123	123	123
Production Basalt Twisted	97	154	308	308	308	308	308	308	308	308
Total Production (tons)	616	975	6,156	6,156	6,156	6,156	6,156	6,156	6,156	6,156

Sources: Hundred cjsc valuation



Company Historical Competitors **Business valuation** Customers **Appendix** Investments performance overview

The Company's production compound annual growth rate (CAGR) is 12%. Basalt rebar accounts for 35% of all production, basalt roving and twisted chopped fiber have about the same proportion in production (28%). The major components for cost of materials are lubricant and rent of feeders and refrigerators, which account for average 40% and 39% of total cost of materials respectively in five years.

COGS Derivation, th. EUR	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10>
Raw Materials (Basalt)	19.7	33.0	217.5	226.4	235.6	245.0	254.8	265.1	275.7	286.7
Lubricant	149.7	251.3	1,633.8	1,701.0	1,769.8	1,840.8	1,914.7	1,991.5	2,071.3	2,154.4
Auxiliary materials	7.0	11.8	77.8	81.0	84.2	87.6	91.1	94.8	98.6	102.5
Materials for maintenance	2.3	3.9	25.9	27.0	28.1	29.2	30.4	31.6	32.9	34.2
Rent of feeders and refrigerators	173.1	290.4	1,912.3	1,991.0	2,071.5	2,154.6	2,241.0	2,330.9	2,424.4	2,521.6
Other (sanitation, contingency, etc)	68.0	114.1	751.5	782.4	814.1	846.7	880.7	916.0	952.8	991.0
Supplies Inflation	na	6.0%	4.3%	4.1%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%
Total Cost of Materials	419.8	704.6	4,618.8	4,808.8	5,003.3	5,204.0	5,412.7	5,629.8	5,855.6	6,090.5
Electricity	147.1	246.8	1,632.9	1,700.0	1,768.8	1,839.7	1,913.5	1,990.3	2,070.1	2,153.1
Water	6.4	10.8	71.0	73.9	76.9	79.9	83.1	86.5	90.0	93.6
Gas	199	334	2,200	2,290	2,383	2,479	2,578	2,682	2,789	2,901
Supplies Inflation	na	6.0%	4.3%	4.1%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%
Utilities	352.6	591.7	3,903.8	4,064.4	4,228.8	4,398.4	4,574.8	4,758.3	4,949.2	5,147.7



After cost of materials, the major components of COGS are depreciation, salary and utilities, respectively 26%, 23% and 20% on average. CAGR of COGS by this type is 10%.

COGS Derivation - cont, th.EUR	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10
Total Cost of Materials and Utilities	772.4	1,296.4	8,522.6	8,873.2	9,232.1	9,602.4	9,987.5	10,388.1	10,804.8	11,238.2
Equipment	1,239.4	1,351.7	3,599.1	5,846.4	5,846.4	5,846.4	5,846.4	5,846.4	5,846.4	5,846.4
Construction	285.5	291.7	378.0	464.2	464.2	464.2	464.2	464.2	464.2	464.2
Depreciation	1,524.8	1,643.4	3,977.0	6,310.6	6,310.6	6,310.6	6,310.6	6,310.6	6,310.6	6,310.6
Salary	932.0	987.9	3,846.1	4,004.3	4,166.3	4,333.4	4,507.2	4,688.0	4,876.0	5,071.6
Income Tax	186.4	197.6	769.2	800.9	833.3	866.7	901.4	937.6	975.2	1,014.3
Salary Inflation	na	6.0%	4.3%	4.1%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%
Salary Costs	1,118.4	1,185.5	4,615.3	4,805.2	4,999.6	5,200.1	5,408.7	5,625.6	5,851.3	6,085.9
Technical maintenance- PPE	6.3	6.6	6.9	7.2	7.5	7.8	8.1	8.4	8.8	9.1
Renovation and maintenance of equipment	45.0	47.7	49.7	51.8	53.9	56.0	58.3	60.6	63.0	65.6
Insurance-technologic equipment	54.9	58.2	60.7	63.2	65.7	68.4	71.1	73.9	76.9	80.0
Transportation	50.0	53.0	55.3	57.5	59.9	62.3	64.7	67.3	70.0	72.9
Waste handling	5.0	5.3	5.5	5.8	6.0	6.2	6.5	6.7	7.0	7.3
Other services	3.0	3.2	3.3	3.5	3.6	3.7	3.9	4.0	4.2	4.4
Services Inflation	na	6.0%	4.3%	4.1%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%
Services Costs	164.2	174.0	181.4	188.9	196.5	204.4	212.6	221.1	230.0	239.2
COGS	3,579.8	4,299.3	17,296.3	20,177.8	20,738.8	21,317.5	21,919.4	22,545.5	23,196.6	23,873.9



Historical Company Competitors **Business valuation** Appendix Customers Investments overview performance

Interest payments amount up to quarter of OPEX but decline during repayment period of loan. SG&A expenses will grow mostly due to additional staff for new plant, increase in salary costs as effect of relatively high expected salary inflation.

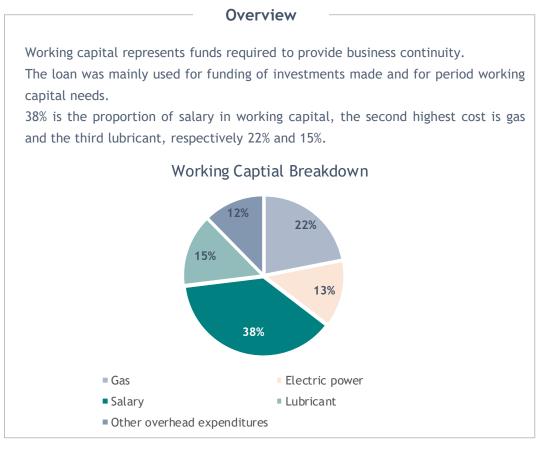
Other Expenses, th.EUR	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10>
Marketing costs	51.3	51.3	51.4	51.4	51.5	51.6	51.6	51.7	51.8	51.8
Marketing CAPEX depreciation	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
Certification, testing, checking, etc.	1.3	1.3	1.4	1.4	1.5	1.6	1.6	1.7	1.8	1.8
Other Expenses Inflation	na	6.0%	4.3%	4.1%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%
Salary	164.3	174.2	181.6	189.0	196.7	204.6	212.8	221.3	230.2	239.4
Selling Expenses	215.6	225.5	232.9	240.5	248.2	256.1	264.4	273.0	281.9	291.2
Other expenses	43.2	45.8	47.7	49.7	51.7	53.8	56.0	58.2	60.5	63.0
Salary	315.7	334.7	348.9	363.2	377.9	393.1	408.9	425.3	442.3	460.1
Depreciation	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
General & Administrative Expenses	360.3	381.8	398.0	414.3	431.0	448.2	466.2	484.8	504.2	524.4
Property tax	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
Insurance	13.4	14.2	14.8	15.4	16.1	16.7	17.4	18.1	18.8	19.5
Other operational	9.1	9.7	10.1	10.5	10.9	11.4	11.8	12.3	12.8	13.3
Fees for natural resource utilisation	2.3	2.4	2.5	2.6	2.8	2.9	3.0	3.1	3.2	3.4
Ecologic fees	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7
Other Operational Expenses Inflation	na	6.0%	4.3%	4.1%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%
Other Operational Expenses	83.1	84.7	85.9	87.1	88.3	89.6	91.0	92.3	93.8	95.3
Loans	537.0	9,547.2	3,000.7	2,966.0	2,668.8	2,214.1	1,759.4	1,304.7	850.0	395.3
Interest Expenses	537.0	9,547.2	3,000.7	2,966.0	2,668.8	2,214.1	1,759.4	1,304.7	850.0	395.3
OPEX	1,196.0	10,239.2	3,717.5	3,707.8	3,436.3	3,008.1	2,580.9	2,154.8	1,729.9	1,306.2

Sources: Hundred cjsc valuation



Working capital is stable for the first phase, and then significantly will be increased for the years 3-10. WC includes mainly inventory, staff costs and utilities prepayments, to be financed by cash generated from operations. The tables below show average WC needs for 1,000tns and 6,000tns capacities, respectively.

Cash Outflows, EUR	WC required
Gas	390,000
Electric power	240,000
Water	7,000
Salary	670,000
Lubricant	260,000
Other overhead expenditures	219,380
Total WC required	1,786,380
Cash Outflows, EUR	WC required
Cash Outflows, EUR Gas	WC required 975,000
Gas	975,000
Gas Electric power	975,000 1,080,000
Gas Electric power Water	975,000 1,080,000 35,000
Gas Electric power Water Salary	975,000 1,080,000 35,000 1,675,000



Sources: Company's materials

Valuation

Materials



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After Stage I total investments when expansion and modernization will be in place, the Company's projected net profit margin will reach up to 33%, also due to the low cost of products. Additional furnaces and production capacity will allow to diversify production mix and to produce new type of fiber-based products with higher profit margins and higher prices.

Company expects flat EBITDA margin rate of 56% -57% from the year 2 and slightly growing net profit margin 25%-33% from the year 4.



Income Statement, th.EUR	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10>
Revenue	2,819	4,700	32,238	33,580	34,973	36,423	37,939	39,523	41,178	42,908
Cost of goods sold	-3,580	-4,299	-17,396	-20,378	-20,939	-21,517	-22,119	-22,745	-23,397	-24,074
Cost of Materials	-420	-705	-4,619	-4,809	-5,003	-5,204	-5,413	-5,630	-5,856	-6,090
Utility	-353	-592	-3,904	-4,064	-4,229	-4,398	-4,575	-4,758	-4,949	-5,148
Depreciation	-1,525	-1,643	-4,077	-6,511	-6,511	-6,511	-6,511	-6,511	-6,511	-6,511
Salary	-1,118	-1,185	-4,615	-4,805	-5,000	-5,200	-5,409	-5,626	-5,851	-6,086
Services Costs	-164	-174	-181	-189	-197	-204	-213	-221	-230	-239
Gross Profit	-761	400	14,841	13,202	14,034	14,906	15,819	16,777	17,781	18,834
Selling expenses	-216	-225	-233	-240	-248	-256	-264	-273	-282	-291
General & Administrative expenses	-360	-382	-398	-414	-431	-448	-466	-485	-504	-524
Other Operational expenses	-83	-85	-86	-87	-88	-90	-91	-92	-94	-95
Income From Operating Activities	-1,420	-292	14,125	12,460	13,267	14,112	14,998	15,927	16,901	17,923
Financial& interest Expenses	-537	-9,847	-3,091	-3,056	-2,749	-2,280	-1,810	-1,340	-871	-401
Profit Before Income Tax	-1,957	-10,139	11,034	9,404	10,517	11,832	13,188	14,587	16,031	17,522
Income tax	0	0	-1,986	-1,693	-1,893	-2,130	-2,374	-2,626	-2,886	-3,154
Profit For The Year	-1,957	-10,139	9,048	7,711	8,624	9,702	10,814	11,961	13,145	14,368

Sources: Hundred cjsc valuation



Non-current assets for 10Y period represent 30% of assets, mostly it is PPE. The leverage ratio (Total Debt/Total Assets) of the Company is 26% on average. The proportion of loan in the total liabilities is almost 69%. The interest rate of the loan is 3%.

Accumulated Returned earnings are about 7mln dollar loss for Y0, which will decrease because of raising company's profit. Since Y8 the loss of returned earnings will be recovered. Long-term borrowing in the amount of 1.7mln EUR represents loan from owner and not excluded from enterprise value for equity value calculation.

Balance Sheet, th.EUR	Y0	Y1	Y2	Y3	Y4	Y5>	Y6	Y7	Y8	Y9	Y10>
Cash and bank balances	437	1,921	78,824	1,909	1,815	1,744	2,766	4,882	22,627	15,037	33,150
Cash box	437	1	10	12	20	22	25	25	26	30	32
Bank accounts	0	1,921	78,814	1,897	1,795	1,722	2,741	4,857	22,601	15,007	33,118
Trade and other receivables	2,116	846	1,410	9,671	10,074	10,492	10,927	11,382	11,857	12,353	12,872
Inventories	971	1,093	1,313	5,314	6,224	6,396	6,572	6,756	6,947	7,146	7,353
Raw materials	716	788	946	3,829	4,486	4,609	4,737	4,869	5,007	5,150	5,299
Production in progress	78	94	113	456	534	549	564	580	596	613	631
Finished goods	176	212	254	1,028	1,204	1,237	1,272	1,307	1,344	1,383	1,423
Other current assets	785	0	0	0	0	0	0	0	0	0	0
Current Assets	4,308	3,861	81,547	16,894	18,113	18,631	20,265	23,020	41,432	34,537	53,376
Property, plant and equipment	28,779	31,143	29,498	102,740	96,228	89,716	83,204	76,692	70,180	63,668	57,156
Land plot	705	705	705	705	705	705	705	705	705	705	705
Buildings and construction	11,168	11,668	11,668	18,568	18,568	18,568	18,568	18,568	18,568	18,568	18,568
Machinery and equipment	16,906	20,296	20,296	90,716	90,716	90,716	90,716	90,716	90,716	90,716	90,716
Depreciation	0	(1,526)	(3,171)	(7,249)	(13,761)	(20, 273)	(26,785)	(33, 297)	(39,809)	(46, 321)	(52,833)
Intangible assets	2,565	3,015	2,965	2,915	2,865	2,815	2,765	2,715	2,665	2,615	2,565
Trade mark	2,565	2,565	2,565	2,565	2,565	2,565	2,565	2,565	2,565	2,565	2,565
Brand, etc.	0	500	500	500	500	500	500	500	500	500	500
Amortisation	0	(50)	(100)	(150)	(200)	(250)	(300)	(350)	(400)	(450)	(500)
Non-Current Assets	31,344	34,158	32,463	105,655	99,093	92,531	85,969	79,407	72,845	66,283	59,721
Total Assets	35,652	38,019	114,010	122,549	117,206	111,162	106,234	102,427	114,277	100,820	113,097



For Stage I overall investments, total project finance needs of 90 mln EUR will be covered by external loan. Loan in EUR with 2 years of grace period and 8 years of payback period is envisaged. Financial costs for funds lending is 10% to be paid upfront.

Balance Sheet, th.EUR	Y0	Y1	Y2	Y3	Y4	Y5>	Y6	Y7	Y8	Y9	Y10>
Short term liabilities	6,128	678	717	18,024	17,878	18,118	18,396	18,683	18,980	4,786	5,103
Short term loans and borrowings	3,955	408	408	14,908	14,908	14,908	14,908	14,908	14,908	408	408
Trade payables	2,097	159	191	773	905	930	956	982	1,010	1,039	1,069
Payables to budget	76	0	0	1,986	1,693	1,893	2,130	2,374	2,626	2,886	3,154
salary and vacation reserve		111	118	357	372	387	403	419	436	453	471
Long term liabilities	2,364	6,410	92,502	74,686	61,777	46,869	31,961	17,053	16,645	4,237	1,829
Long term loans	2,364	5,910	92,502	62,686	47,777	32,869	17,961	3,053	2,645	2,237	1,829
Long term borrowings	0	500	0	12,000	14,000	14,000	14,000	14,000	14,000	2,000	0
Total Liabilities	8,491	7,088	93,219	92,710	79,655	64,988	50,357	35,736	35,624	9,023	6,931
Statutory capital	3,386	9,113	9,113	9,113	9,113	9,113	9,113	9,113	9,113	9,113	9,113
Reserve fund	30,817	30,817	30,817	30,817	30,817	30,817	30,817	30,817	30,817	30,817	30,817
Accumulated profit (previous years)	(7,042)	(7,042)	(8,999)	(19,138)	(10,090)	(2,379)	6,245	15,947	26,762	38,723	51,868
Current year profit	0	(1,957)	(10,139)	9,048	7,711	8,624	9,702	10,814	11,961	13,145	14,368
Total Equity	27,161	30,930	20,791	29,839	37,550	46,174	55,877	66,691	78,652	91,797	106,166



Company Historical Competitors Customers Business valuation Appendix Investments performance overview

Indirect method of cash flow calculation is used. EBIT is adjusted by non-cash movements such as depreciation expense during the life period of equipment and results in significant cash inflows from operating activities. In the scope of investment activities, Company acquires new equipment for Roving workshop, Weaving, Geogrid, Twisting and winding, Knitting, needle punching, etc.

Cash outflows by financial activities represent loan payments.

According to calculations, Company has more than 39mln EUR cash at the end of year 10.

Cash Flow, th. EUR	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10>
Cash Balance BoP	437	1,921	78,824	1,909	1,815	1,744	2,766	4,882	22,627	15,037
EBIT	-1,420	-292	14,125	12,460	13,267	14,112	14,998	15,927	16,901	17,923
Δ Receivables	2,055	-564	-8,261	-403	-418	-435	-455	-475	-497	-519
Δ Payables	-1,827	39	821	147	40	41	43	45	46	48
Δ Inventory	-123	-220	-4,000	-911	-171	-177	-184	-191	-199	-207
Δ Depreciation	1,576	1,695	4,078	6,562	6,562	6,562	6,562	6,562	6,562	6,562
Tax paid	-76	0	0	-1,986	-1,693	-1,893	-2,130	-2,374	-2,626	-2,886
Cash generated from operations	185	658	6,762	15,870	17,587	18,210	18,835	19,493	20,189	20,922
Fixed Assets	-4,390	0	-77,270	0	0	0	0	0	0	0
Cash generated from investments	-4,390	0	-77,270	0	0	0	0	0	0	0
Increase in statutory capital	5,727	0	0	0	0	0	0	0	0	0
Loan repayment	0	86,592	-15,316	-14,908	-14,908	-14,908	-14,908	-408	-14,908	-408
Borrowing	500	-500	12,000	2,000	0	0	0	0	-12,000	-2,000
Interest paid	-537	-9,847	-3,091	-3,056	-2,749	-2,280	-1,810	-1,340	-871	-401
Cash generated from financing activities	5,690	76,245	-6,407	-15,964	-17,658	-17,188	-16,718	-1,748	-27,779	-2,809
Cash Balance EoP	1,921	78,824	1,909	1,815	1,744	2,766	4,882	22,627	15,037	33,150

Sources: Hundred cjsc valuation





Required Return on Equity Derivation

1. Required Return on Equity

 $R_E = R_F (6.59\%) + Adj ERP (8.82\%) = 15.41\%$

2. Risk Free Rate

 $R_F = TSY Bond rate (10.15\%) - Country Risk (3.56\%) = 6.59\%$

2.1. TSY Bond rate

TSY Bond rate = Average yield curve for AMD denominated bonds with maturity of 30Y since 02/2022 to 02/2026 = 10.15%

2.2. Country Risk

See 3.1.2.

3. Adj ERP

Adj ERP = ERP $(7.80\%) * \beta (1.13) = 8.82\%$

3.1 ERP

ERP = Mature Market ERP (4.24%) + Country Risk (3.56%) = 7.80%

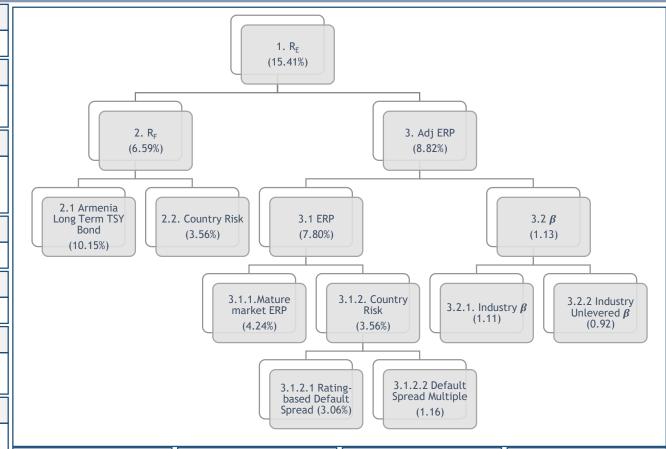
3.1.1 Mature Market ERP

Mature Market ERP = Implied equity risk premium for S&P 500 (01/2022) = 4.24%

3.1.2 Country Risk

Country Risk = Rating-based Default Spread (3.06%) * Default Spread Multiple (1.16) = 3.56%

Yerevan, Armenia



3.1.2.1 Rating-based Default Spread

Rating-based Default Spread = Spread based on Moody's rating of Ba3 = 3.06% 3.1.2.2 Default Spread Multiple

Default Spread Multiple = relative volatility of EM equity to bonds = 1.16

3.2 *β*

 β = Industry Unlevered β (0.92) * (1 + (1-corp. tax rate (18%) * D/E ratio 0.28, Damodaran, Construction Supplies Fac. (0.99) = 1.13

3.2.1/2 Industry β & Unlevered β

Industry β s are based on study of 48 firms from Damodaran's research



Equity valuation according to the base scenario achieves almost 98.1mln EUR with 11.5% WACC

Calculated equity value addresses Stage I both phases investment Projects valuation.

According to the model, equity value equals 98.1 mln EUR with 11.5% WACC and terminal value of future cash flows amounting 102mln EUR.

Conservative assumption is made about the growth rate of future cash flows after year 10 which is estimated at 4.4% per year.

For WACC calculation target capital structure is used. For enterprise value calculation Unlevered Free Cash Flow is used.

1.7mln EUR loan from owner is not considered as debt by equity value calculation.

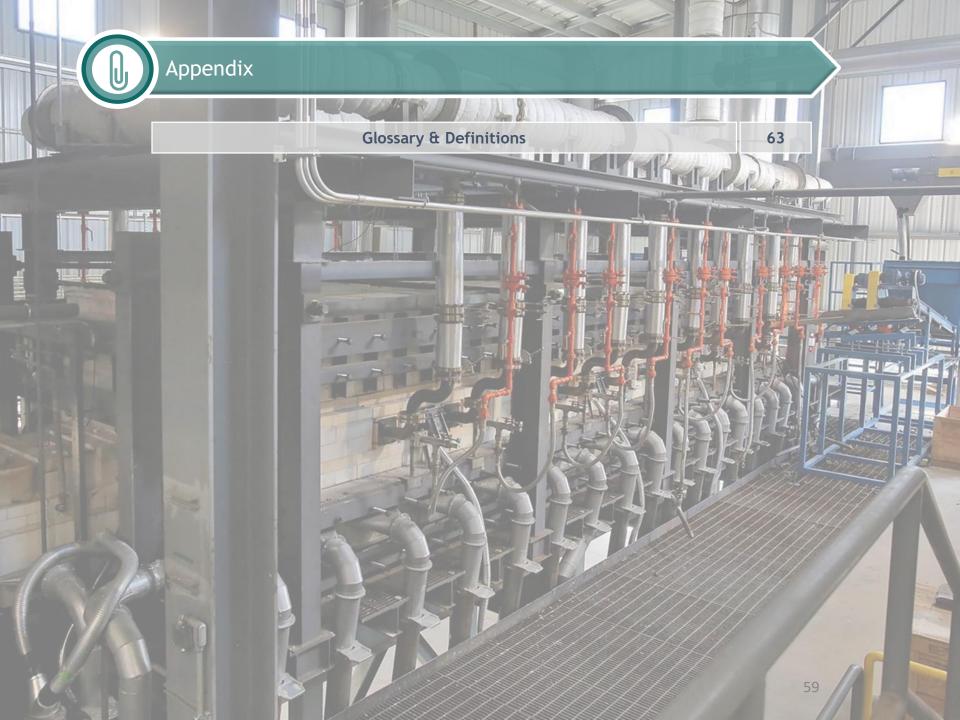
Income Statement, th.EUR	¥0	Y1	Y2	Y3	Y4	Y5>	Y6	Y7	Y8	Y9	Y10>
al <mark>uation results</mark> EBIT		-1,420	-292	14,125	12,460	13,267	14,112	14,998	15,927	16,901	17,92
-Tax		256	52	-2,542	-2,243	-2,388	-2,540	-2,700	-2,867	-3,042	-3,22
+Deprecation/Amortisation		1,576	1,695	4,078	6,562	6,562	6,562	6,562	6,562	6,562	6,56
-Capex	-4,390	0	-77,270	0	0	0	0	0	0	0	
-Changes in Net Working Capital		29	-745	-9,454	-1,460	-349	-334	-352	-370	-389	-40
Unleverd Free Cash Flow	-4,390	441	-76,560	6,206	15,319	17,092	17,800	18,509	19,252	20,032	20,85
Growth% Y10>	4.4%										
WACC	11.5%										
PV Y1-Y10 at Y0	-4,390	395	-61,556	4,474	9,903	9,907	9,252	8,626	8,046	7,507	7,00
PV Y10> at Y0	102,446										
Enterprise Value	101,617										
+Cash	437										
-Debt	-6,318										
Equity Value	95,736										

Sources: Hundred cjsc valuation





20 October 2023



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Appendix

Glossary

CAGR - compounded annual growth rate

CAPEX - capital expenditure

CBF - continuous basalt fiber

CEO - chief executive officer

COGS - cost of goods sold

Covid effect - influence of pandemic of Covid-19 virus

DCF - discounted cash flow

EBIT - earnings before interest and tax

EBITDA - earnings before interest, tax, depreciation and amortisation

ERP - equity risk premium

HR - human resources

OPEX- operating expenses

QA - quality assurance

SOP - standard operating procedures

Yerevan, Armenia

TOM - target operating model

TSY - treasury

WC - working capital

bln - billion

k, th - thousand

m / mln - million

MIN - minimum value

MAX - maximum value

p.u. - per unit

tn - tonn

w/o - without

