Ministry of Investment,
industry and trade
of the Republic of Uzbekistan

Investment proposal:
Aluminum processing and production of finished products

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Aluminum processing and production of finished products

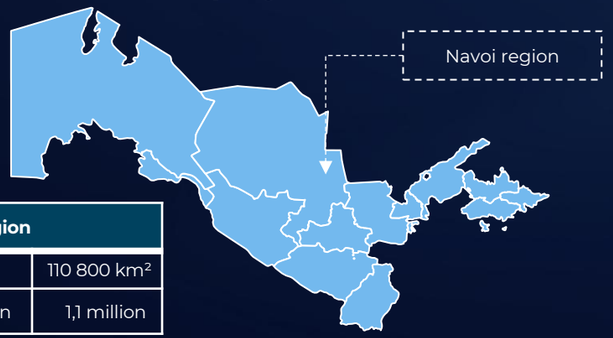
Economic impact:

- Job creation: 800+ new jobs (production, engineering, management).
- Government revenue: $10-15 million USD/year (taxes, duties).
- Services: value-added services (e.g., alloying, finishing).

Social impact:

1. Workforce development:
2. training programs for skilled labor in Tashkent and Navoi.
3. Sustainability:
4. 30% energy-efficient processes using recycled aluminum.

Location of the project



Navoi region	
Size	110 800 km²
Population	1,1 million

Project description:

1. Core infrastructure:

- Automated smelting and casting facilities in Navoi FEZ.
- Processing units for extrusion and finishing (Tashkent).
- Storage: 40% capacity for raw and finished aluminum.

2. Value-added services:

- Alloy production, surface treatment, and custom fabrication.

3. Technology integration:

- AI-driven production management, real-time quality control.

Economic indicators:

Financing: 110 million USD

Area: 25 hectares

Revenue: $60 million/year

ROI: 27,3 %

NPV: ~ $55,7 million

IRR: ~28%

Strategic Advantages:

First-Mover Edge:

Navoi FEZ lacks advanced aluminum processing hubs.

Market Demand:

Growing demand for aluminum in automotive and aerospace by 2027.

Seasonal Balance:

Q2-Q3: Storage for raw aluminum;

Q4: Finished product export.

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Logistics service chain & centers

Key production stages

1. Collection & Sorting

- sorting by type and quality, and initial cleaning.
- resource loss: 5%.

2. Melting & Refining

- removal of impurities, alloys adjustment, and purification.
- separation of dross and slag.

3. Casting & Forming

- rolling, extrusion, or forging to produce semi-finished products.
- heat treatment and surface finishing.

4. Finished Product Manufacturing

- fabrication into end products (e.g., sheets, profiles, cans, automotive parts).
- quality control, packaging, and distribution.

Product yield breakdown *(for 1 ton of aluminum)*

	Product	Share (%)	Investment (USD)	Price ($ / ton)	Value ($)
1	**Recycled Aluminum Ingots**	35%	350 kg	1 300$ / ton	455$
2	Semi-Finished Products (Sheets/Profiles)	60%	600 kg	2 200$ / ton	1 320$
3	**By-Products (e.g., Alloys/Slag Reuse)**	5%	50 kg	1 100 $ / ton	55$
	TOTAL	**100&**			**1 830$**

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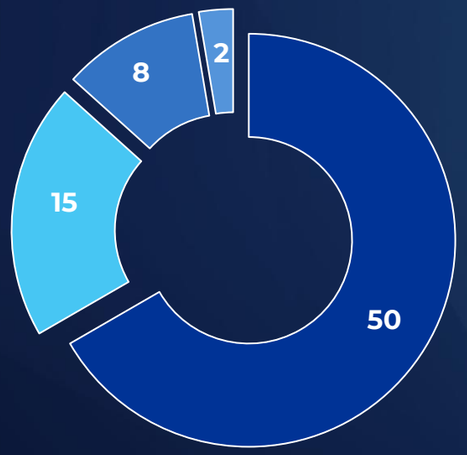
Project expenses

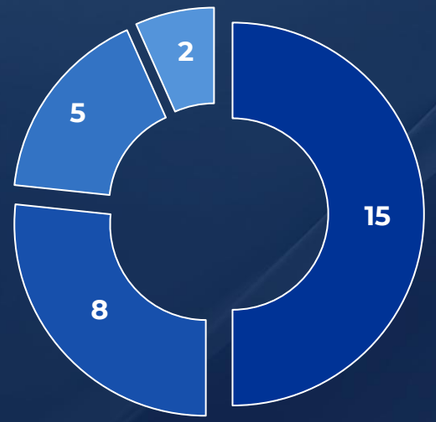
Initial Investment (CAPEX) *(mln dollar)*



Total CAPEX: **$110 mln**

- Equipment
- Infrastructure
- Startup cost
- Licensing & compliance
- Licensing & brand compliance

Operating Costs (OPEX) *(mln dollar)*



Total OPEX: **$30 mln**

- Raw materials (aluminum raw materials, alloys)
- Energy (electricity, gas) and water
- Salaries and technical personnel
- Repairs and maintenance

This financial overview outlines a comprehensive cost structure and strong profitability of the aluminium processing project. The breakdown includes both initial capital investment (CAPEX) and annual operating costs (OPEX), alongside projected revenue and profit estimates.

Service	**% of total**	**Amount** (million USD)
Recycled aluminum ingots	25%	15
Semi-finished products (sheets/profiles)	72%	43,2
By-products (e.g., alloys/slag reuse)	3%	1,8
TOTAL		**60 000 000**

Annual EBITDA:
= $60 mln - $30 mln - $2 mln =
$28 mln

The project's strong profitability forecast is underpinned by efficient operations and high market demand, positioning it as a highly attractive investment.

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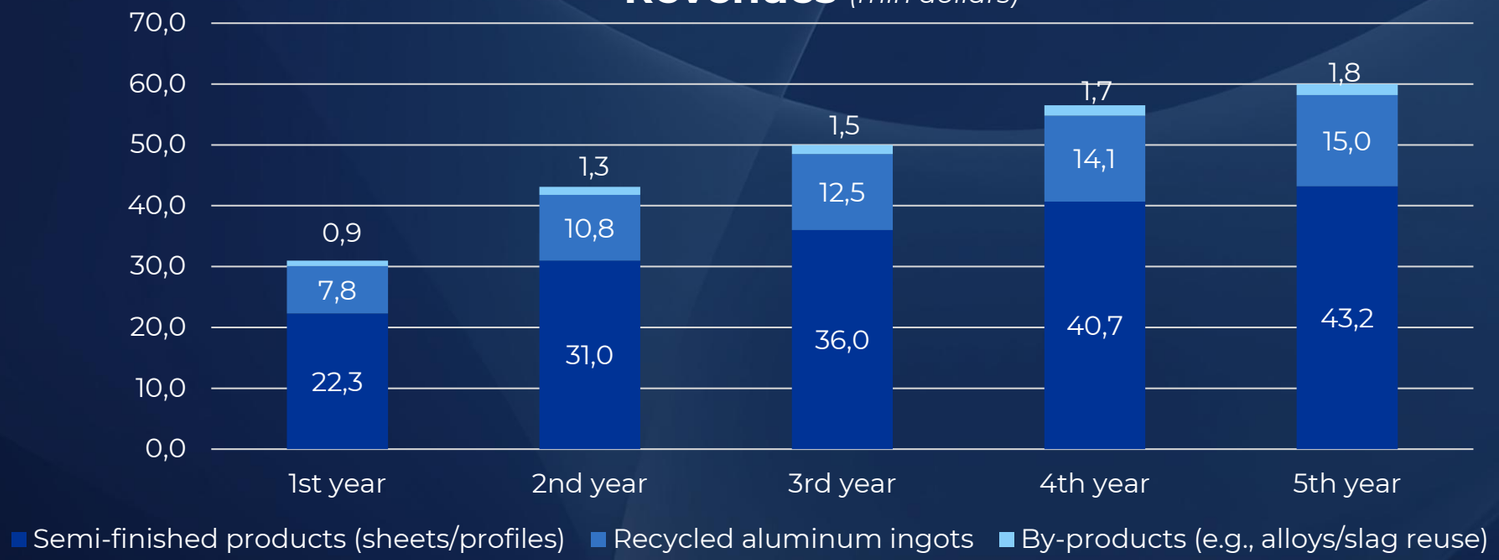
Financial indicators
(5-year projection)

Revenues *(mln dollars)*



Operating expenses *(mln dollars)*

Breakeven: Achieved in year 3,5

Total 5-year cash flow:
$134,1M after full CAPEX recovery

EBITDA growth:
5% CAGR, reaching $80,4M by Year 5.

NPV (10% discount rate):
NPV= **$55,7 million** *(Highly favorable!)*

IRR (Internal rate of return): ≈ **28%**

Payback period (PP):
= **3,9 years**

Profitability index (PI):
=(NPV+CAPEX)/CAPEX=($55,7M+$110M)/110M= **1,5**