

Bazia■ Recycling & Circular Economy Hub – Blueprint 2025

National & International Green Entry Point at the Danube

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1) Location & Strategic Advantage

- ■ Placed at Bazia■, the entry of the Danube into Romania.
- Large open land for logistics + industrial operations.
- Direct access to water (ships), rail (Oravi■a–Re■i■a–Timi■oara), and road (Banat highways).
- Natural point for national collection and international export.

2) Core Functionalities

- Plastic Recycling: transform waste into reusable granules for factories.
- Metal Recycling: refine scrap into usable steel/aluminum for industry (Re■i■a, Tesla plant).
- Glass Recycling: full glass-to-glass regeneration.
- Paper & Cardboard: recycling into new paper + biomass fuel.
- Organic Waste: biogas plants + compost production for agriculture.
- E-Waste: electronics dismantling & recovery of rare metals.

3) Energy & Sustainability

- Biogas from organic waste powers turbines.
- Solar panels for industrial-scale electricity (only for the hub).
- Energy surplus exported to Moldova Nou■ & neighboring towns.
- CO■ reduction – full circular economy model.

4) Logistics & Infrastructure

- ■ Danube Port: ships import/export recyclable materials.
- ■ Railway Hub: link to Oravi■a, Re■i■a, Timi■oara.
- ■ Highway Access: trucks from Moldova Nou■, Veche, Radimna, Naida■ deliver waste.
- Automated sorting lines with robotics for high efficiency.

5) Social & Economic Impact

Aspect	Impact
Jobs Created	3,000–5,000 stable, high-salary positions
Annual Recycling Capacity	2–3 million tons
Annual Revenue	€300 – €500 M
Cities Served	Moldova Nouă, Moldova Veche, Oravița, Reșița, Timișoara, Naidăș
International Link	Serbia, EU (Danube waterway export)

6) Upgrade Path & Future Options

- Expansion into EU-level recycling and export contracts.
- Adding hydrogen production from waste gas.
- Collaboration with Tesla / EV plants for material reuse.
- Smart AI-based monitoring for sorting and processing.

This Recycling Hub at Baziaș becomes the Green Entry Point of Romania, combining ecology, industry, and social development.