

Energodar City Council

PRESENTATION OF THE PROJECT

COMPLEX FOR THE COLLECTION AND PROCESSING OF MUNICIPAL SOLID WASTE, CONSTRUCTION WASTE, WOOD AND USED TYRES

Enerhodar city, Ukraine







LANDFILL

is located on a plot of total area of



7,119 HECTARE



(5 sections)

CONSEQUENCES

of operating solid waste landfills and subsequent disposal of waste



the release of biogas and other gases into the atmosphere, which harm the environment

pollution of soil and groundwater with leachate formed in the body of the landfill a liquid component of solid waste formed at all stages of its movement from the bucket in the apartment to the landfill inclusively. Growth of the area of "poisoned" lands





pollution of surface waters by storm and melt runoff flowing from the territory of the landfill











GOALS:

OF THE PROJECT: "COMPLEX FOR THE COLLECTION AND **PROCESSING OF MUNICIPAL** SOLID WASTE, CONSTRUCTION WASTE, WOOD AND USED TYRES"



of energy, support and secondary raw materials market recovery

Conservation

of natural resources, sustainable development

Stimulation

of innovation and investment

Maximization

of waste processing, and the growth of valuable materials's collection

of landfilled waste amount, environmental improvement as a consequence



Enerhodar has excellent potential for the construction of a modern sorting line. Its strategic location and developed infrastructure make it an ideal place for this type of infrastructure project:



O Developed infrastructure









CONSTRUCTION

of Multi-flow, semi-automatic sorting line for MSW

- Location of the Project is the city of 01 Energodar (industrial zone), Vasyliv district, Zaporizhzhia region
- **02** Assistance in obtaining permits for the installation of containers for the MSW separate collection in the city of Energodar
- The project includes the construction of a 03 new sorting line with a capacity of 30,000 tons/year.
- **04** An increase of separate collection share will be achieved by installing new containers in places not covered by the separate collection system (condominiums, parks, high-rise buildings), as well as by increasing the efficiency of separate collection (educational, explanatory and campaigning work to raise awareness of the ecological lifestyle)







MORPHOLOGICAL COMPOSITION OF MSW IN HOUSING SYSTEM CONTAINERS, ENERGODAR (AUTUMN SEASON), % BY MASS

A significant part of the waste has great potential for reprocessing and reuse. Among these valuable waste are:

Food waste Food waste - 34.5% The rest Glass - 21.7% **Polymers - 10.5%** Glass Paper and cardboard - 3.0% **Polymers** Textiles - 2.9% Paper and cardboard Bones, rubber - 2.5% Combined packaging - 2.1% Textiles Ferrous metals - 0.8% **Bones**, rubber Non-ferrous metals - 0.5% **Combined packaging** Hazardous waste - 0.2% The rest - 23.4% **Ferrous metals**

Non-ferrous metals







- 2. Hydraulic press 80 000 \$
- 3. Waste recycling fiberglass "bell" containers (2.5 cubic meters) 420 containers. Total cost: 294 000 \$
- 4. Vehicles 3 pcs. Total cost: 450 000 \$
- 5. Sorting line building (metal structure and corrugated board): 100 meters long, 9 meters high and 30 meters wide. Total cost: 690 000 \$
- 6. Front loader 1 pc (2-2.5t) and truck 1 pc. Total cost: 100 000 \$
- 7. Briquetter. Total cost: 50 000 \$
- 8. Shredder for polymer waste: 70 000 \$
- 9. Shredder for grinding "tails" for better briquette production : 70 000 100 000 \$
- 10. Shredder for construction waste : 450 000 \$

TOTAL COST OT THE PROJECT: 2 880 500 \$







GARBAGE ISSUE SOLUTION

Implementation of the hierarchy of waste management and the best practices of European countries with a high competitive status



Complex for the collection and processing of municipal solid waste, construction waste, wood and used tyres







Separate collection, processing of solid waste, European waste management system







THANK You

FOR YOUR ATTENTION

