

RECYCLING WASTE FROM ELECTRIC AND ELECTRONIC EQUIPMENT IN MACEDONIA

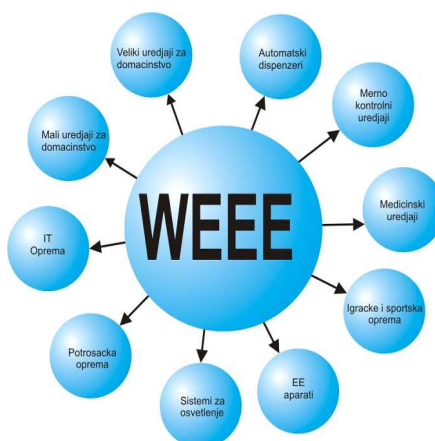
Current situation

- According to the State Statistical Office, the number of active business entities in Macedonia in 2010 was 75497.
- The largest share in the structure have the following sectors: Wholesale and retail trade, repair of motor vehicles and motorcycles 28 326 subjects or 37.5% and Manufacturing by 8263 subjects or 11.0%. The lowest incidence has the sectors: Electricity, gas, steam and air conditioning with 107 subjects or 0.1% and mining and quarrying with 164 subjects or 0.2%.
- Data on structure of active business entities by number of employee's shows that the largest share of 78.5% have businesses with 1-9 employees. Followed by businesses with no employees (or entities did not provide information for employees) 14.2%, and entities with 10-19 employees 3.3%, the participation of entities with 20-49 employees is 2.1% with 1.6% participating entities with 50 -249 employees and only 0.3% of active businesses with over 250 employees.
- A total of over one million computers
- All have an obligation to justify writing off electronic equipment
- Estimated number of computers in households strongly varies (from 28% to 41% which means approximatly from 600,000 to 900,000 computers)
- Estimation of annual sales vary from 161,000 (about 500 per day) to 340,000 (about 1000 per day)
- SO, there is a need for immediate recycling

Why recycle

- Electronic waste contains between 600 to 1000 different chemical substances which are harmful to health and harmful to the environment, the conclusion is that electronic waste is very dangerous
- The waste occupies costly warehouse space
- All European countries have an obligation to recycle, so if we go in that direction we have to join
- By recycling a computer with a weight of about 30kg to 25kg gets even raw material in the first category that can be returned to production and about 4.7kg of raw materials and other third category - so recycling is financially worthwhile.

WEEE Categories



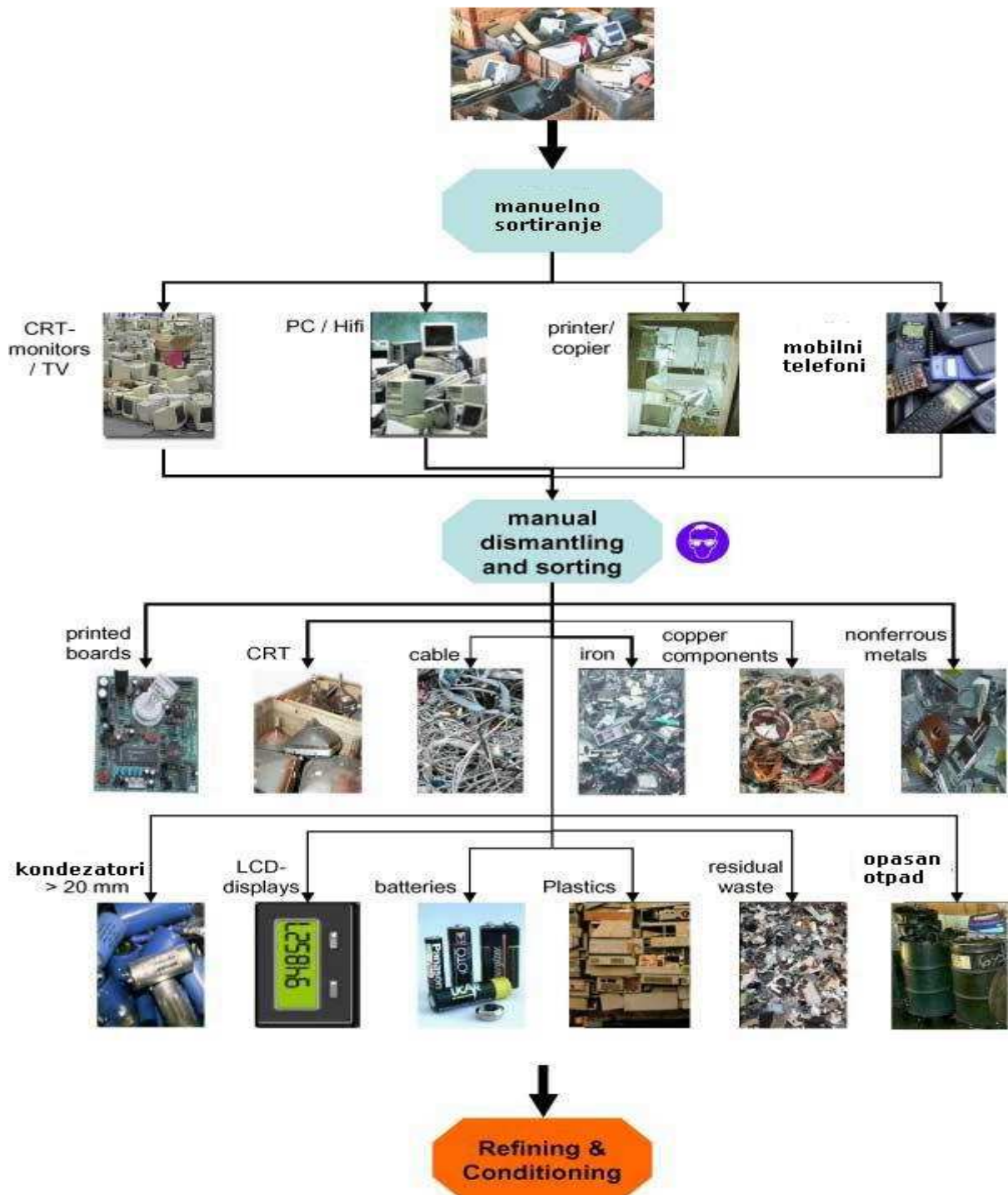
About the company

- Main activity: recycling of waste from electronic and electrical equipment.
- The first company of its kind in the country - the only plant for industrial recycling.
- The project is under the auspices of the Ministry of Environment and Physical Planning
- In close collaboration with the Faculty of Natural and Technical Sciences - Environmental Department, University "Goce Delcev" - Stip
- Significant environmental and economic impact.
- Companies which sign an agreement with us will permanently solve the problem with WEEE and will enter in the system of socially responsible companies with special emphasis on environmental protection.

Technical opportunities

- Recycling of electrical and electronic components such as batteries, mercury containing components, printed circuits, cathode vacuum tube, gas lamps, LCD monitors, power cables, components with precious metals and many other.
- Classification of different types of waste.
- Processing up to 5 tons per day.
- Ability to expand capacity.

Schematic representation of manually sorting



Objectives

- Information on business sector and the public in general about the importance of recycling and the existence of WEEE-Recycling as the first environmentally safe recycling plant.
- Positioning the environmental behavior and commitment to mandatory recycling as a serious element of the business image and reputation of any socially responsible company.
- To explain that recycling is important to meet all EU standards and environmental criteria.
- Introduction of clear and understandable manner to all segments of the target audience for the existence of the Law on waste management and its main features.
- Motivating the expert and public cooperation.

Target audience

The primary target audience (professional):

- Large systems - owners of a large number of computers.
- Banks, insurance companies, mobile operators and other business entities that have based their action as socially responsible companies and the image that enjoy.
- Systems that deliver electronic equipment wholesale.
- Media.

Secondary target group (general):

- Households (urban)
- Youth (children)

Problems

- General education on this issue is low, even in professional circles.
- Companies that have purchased the waste claim to recycle but actually are polluters.
- Complicated procedure for waste producers.
- Transportation.