

## Summary of the presentation

Students from Bacau county schools realize a lot of projects to raise awareness on the topic of sustainability. N.V. Karpen College has developed various projects on this topic. These projects include a charging station for electric and hybrid cars, a didactic farm for producing green energy, a painting made with a special paint on the front wall of the students' dormitory to purify air, a submersible robot to verify the quality of the water, green walls and green gardens to breath fresh air, activities to prevent food waste.

„Seeing the Future” is a mural painting, realized by the artist Cătălin Moraru, which every 12 hours, removes pollutants emitted by about 50 cars on 6 euro petrol and Bacau is the city with the most murals that purifies the air in Europe. Added to this mural painting, Karpen College developed a project called ”More Green” which aimed at arranging a canopy of ecological curtains (green walls) on the facades of the building A (the main building) and the canteen, structured on a support of galvanized wire mesh and populated with fast-growing hanging plants in order to helps not only to breath a purified air but also to save energy by not using the air conditionner machines during summer, due to the shadowing and the fresh air of the plants.

The charging station is useful also as didactic equipment for the students who are preparing in the qualification of Auto Electrician Technicians, but it is, at the same time, functional for charging the electric cars that come to the campus.

The project ”We select, we do not mix!” aims at promoting and implementing a system of selective waste collection and their management in order to reduce the quantity stored uncontrolled inside the school, mainly to make students aware of the environmental problems generated by packaging and packaging waste (plastic and PET type packaging, paper and cardboard waste, aluminum cans) and educating students in the spirit of environmentally friendly behavior, by directly participating in the collection of waste, selecting it and throwing it in special containers.

The students also performed interviews tackling people of different ages to find out which are the methods by which people waste the most and also what are their preferences in terms of shopping. Following these interviews, they discovered that regardless of age, people prefer to shop more, chaotically, sometimes compulsively, based on emotions. 8 out of 10 people said that they eat on a nervous system and not necessarily when they are hungry, letting themselves be controlled by feelings.

Karpen College also developed a submersible robot for studying water quality, a submarine with sensors for measuring water parameters, as water pollution (especially in industry and agriculture) is a major problem everywhere in the world and especially in our region. The submersible was designed to navigate the waters around the localities and measure the following parameters: temperature, conductivity, pH and dissolved oxygen, so it is a product that, based on digital technology, meets the ecological needs of the whole community.

Our aims for the future are to identify effective solutions to prevent food waste and raise awareness of the need to protect the environment through a circular economy applied to food and improve the projects already in school. Think green!