

Pureco IDEA develops a new product for drainage systems to separate garbage from our waters. The development project was supported by the Ministry of Foreign Affairs and Trade of Hungary via the Hungarian Water Sector Development Facility.

After the testing period the product will be installed in Ghana as a pilot project.

The problem of the garbage littered on the streets and other public spaces (parks, parking lots, etc.) is growing everywhere, mostly in Africa. This huge amount of garbage can cause serious environmental and health problems even when, after a heavy rainfall, it is washed from the stormwater drainage system directly to surface water such as river, lake, sea, ocean.

Stormwater runoff is rain or water that runs off streets, parking lots, lawns, and other surfaces into drains that flow directly into local waterways. When garbage and pollution enter the waterway, it can cause significant human and animal health risks. Water that enters a storm sewer system is discharged untreated into the waterbodies we use for swimming, fishing and drinking. Pureco already has a patented oil separator product to treat stormwater from contaminants such as oil derivatives and heavy metals, but first we are to develop something new and easier solution for Africa, focusing on the litter and garbage, and other solid materials in order to capture gross pollutants such plastics, organic materials and handle powerful stormwater runoff at urban areas.

To help to solve the above-mentioned environmental problem of the country Pureco introduces a new development, the water protecting equipment can be implemented in Ghana right after the successful testing period. The system is called Pure Waste Gathering Cage (WGC) because it is actually a special cage to be inserted into the stormwater sewer to collect litter from the sewer before it enters into the surface waters.

The system of PureWGC (Waste Gathering Cage):

- can be used to reduce and eliminate waste from drainage systems
- prevent pollutants and solid waste, carried by storm water from the local paved surfaces, from flowing into nature
- cost-effective and environment friendly solution to collect waste from drainage systems
- easy to install, operate and maintain. When they get full, they are picked up with manual labour or a crane
- recyclable/non-recyclable materials can be easily separated from the collected waste
- minimal cost of maintenance
- short delivery time, instant impact

Benefits of the project:

- is a unique product, it does not damage the environment?
- will contribute to protect the environment, the agricultural areas and the water resources
- can be installed easily, its operation and maintenance are not complicated
- has immediate results (less garbage in surface waters) and long-time effects (cleaner oceans, healthier people)

- is easy to transport
- has small footprint

The development project will be finalized by the end of March 2020. Detailed report will be published about the achievements accordingly.