Patented solution for rainwater treatment

Arad bypass highway construction work for water management – ENVIA TRP

Due to the erosion caused by high-intensity rainfalls and pollutants washed off of paved surfaces, today the runoff water can only be introduced into the recipient after a proper pre-treatment when the water quality reaches the required levels.

The Arad bypass was completed in 2012 in Arad County, Romania. Pureco proposed a special solution for the treatment of the rainwater, collected from approximate 12 km of the highway: the ENVIA TRP® drift and light liquid separator installable in open-surface stormwater drainage channels. In this project, we have used 50 pieces of different sizes of equipment, between 60 and 225 l/s nominal flow capacity.

Debrecen M35 motorway bypass – water management construction work – ENVIA TRP

The newly built junction was realized at a small area of the existing M35 road, Hungary, at the intersection of the railway, the road and rail overpass, and of natural waters. According to the original plans, the stormwater would have been infiltrated into a basin and vaporized, but due to the risk of the road and rail embankment soakage leading to deterioration of stability, this solution was not feasible. The new concept sees the pre-treated water being deposited into the Tócó-stream.

Budapest Airport – stormwater treatment

Due to the Budapest Airport's (Hungary) environmentally conscious attitudes over the past few years, several improvements have been made in order to protect the natural environment around the airport. In the frame of this initiative the stormwater treatment of the airport's runways, taxiways, other traffic and technical areas, paved walkways, roads, parking areas with polluted river channels was developed, and an accident emergency system was created with Pureco solutions.

As part of the project, nearly thirty open trench ENVIA TRP sludge and oil separation equipment were installed, with a total of 5,800 l/s cleaning capacity In order to clean the contaminated stormwater.

5,800 l/s purification / 1,400 l/s flow /
installed in open-surface stormwater channels /
treated stormwater is natural-safe