

The effective solution for landfill leachate



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EVALED®

Evaporation Technologies

WATER TECHNOLOGIES

The challenge in reducing leachate disposal costs

Landfill leachate is the outcome of percolation and leaching phenomena from stockpiled waste.

Leachate is a highly contaminated solution with a significant percentage of ammonia, COD, heavy metals and salinity (chlorides and sulphates) hard to treat.

Traditional purifying treatments are often ineffective, owing to heavy metals, ammonia and salinity.

A large number of EVALED installations world-wide has proven that the combination of “clean” separation technologies is the best solution for leachate treatment.

EVALED allows to treat highly polluted, concentrated leachate, very difficult to treat by traditional processes

EVALED allows a high separation ratio with a considerable reduction in volume and disposal costs

EVALED is a reliable and flexible solution, easily adapted to a variety of waste streams



The partner of your goals

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Treatment through evaporation technologies and membranes is based on separation of water from a water based solution.

The outcomes of the plant are:

condensate or permeate, the main stream representing the majority of the original flowrate containing water

concentrate, the smaller flow containing the majority of the pollutants

The technological solutions applied to the landfill leachate treatment can be used also for waste coming out from:

wastewater collector

digestate

gas scrubbers

composting

The condensate/permeate produced by the plant treating landfill leachate is discharged; the concentrate can be sent to further super-concentration steps, to disposal or to incineration/inertization.

The plant, in its complete configuration is made up of different combinations of the following steps:

pre-treatment with pH adjustment

reverse osmosis

forced circulation evaporation

superconcentration

The evaporation technologies for this solution are forced circulation EVALED RV evaporators and vacuum EVALED AC evaporators powered by hot/cold water coming from cogeneration.

Veolia Water Technologies Italia has a firm commitment to reduce the CO2 emissions of its technological offer. Careful analysis enabled to calculate the CO2 emissions of EVALED solutions. Contact us for a customized Carbon Footprint Assessment: www.ehaled.com

Resourcing the world

Veolia Water Technologies Italia

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