



# Vlissingen Harbour Industrial WWTP

Centralised multi-client waste water treatment for over 60 industrial customers

## Clients



Over 60 industrial customers are making use of this centralised waste water treatment plant. The largest customer in the cluster is Zeeland Refinery, which is owned by Total and Lukoil. Other customers range from food & beverage companies (AMC, Kloosterboer) and chemical companies (Invista, Arkema) to waste management companies (Indaver), and shipyards (Damen).



## Case

At the time of the development of the Vlissingen harbour area into an industrial park for heavy industry, no central facilities for the collection and treatment of waste water were available. The authorities came up with the idea of connecting the companies to a sewerage system with subsequent treatment of the waste water beyond the boundaries of the port itself. Evides Industriewater carried out a study into the individual sewerage issues in the harbour area, in which it set out the previous and future waste water quantities.

## Solution

Analysing the results of the study, it appeared that installing both a sewerage system and a collective waste water treatment plant for industrial and domestic waste water in the harbour area offered advantages to everyone involved. The economy of scale results in the lowest TCO due to the following benefits:

- high treatment efficiency;
- lower discharge to surface water;
- lower investment per pollution equivalent;
- focus on core activities.

Since 1997, Evides Industriewater is the partner of choice by:

- pre-financing the investment;
- multi-client contract management;
- designing and building a state of the art anaerobic and aerobic treatment plant;
- handling the day-to-day operation and maintenance.

## Features

Start of operation	1997
Service	Treatment of industrial waste water from Vlissingen harbour area
Companies connected	60
Technology	Anaerobic and aerobic treatment
Capacities	Aerobic 45,000 PE Anaerobic 35,000 PE
Flow	11,000 m <sup>3</sup> /day
COD load	Max. 5,100 kg/day



## Your innovative water partner

As part of Evides, the Dutch drinking water company, Evides Industriewater has been a reliable and inventive water partner for the industrial sector for nearly 50 years. Evides Industriewater supplies nearly 150 million m<sup>3</sup> of process water each year (of which 20 million m<sup>3</sup> via re-use solutions) and treats a similar quantity of waste water.

These services are provided via almost 90 facilities, which are built, owned and operated by Evides Industriewater throughout Northwestern Europe.