

## Digested Sludge Pumping Paris

Application market	Wastewater
Market segment	Sludge treatment
Pumped medium	Digested Sludge
Pump product	Bearing Frame
Country	France



### Challenge

In dry weather, the municipal wastewater treatment plant in Paris, the largest wastewater treatment plant in Europe, treats around 2.5 million cubic metres of wastewater per year for nine million inhabitants. Among other things, this produces huge amounts of sludge, which have to be fed into further processing. The dry solids content in the sludge is typically still around 4.5%, these are mostly fine fibres and textiles, as well as sand. The permanently escaping gases have high methane contents. Pumps should be installed in the digester to further transport the sludge via a heat exchanger for energy recovery.

### Solution

Operating conditions such as this require the use of a non-clogging pump with a low, required NPSHr value, or with other words, an as high as possible suction capacity. Other important criteria to be taken into account when designing the application were the high solids content of the medium and a high wear resistance.

### Benefits

Using the Hidrostal Screw Centrifugal Pump with its outstanding characteristics, the customer's requirements could be fully met with:

- reliable pump solution thanks to large free passage and excellent solids handling properties
- low overall energy consumption
- high customer satisfaction with follow-up orders
- finally the best reference in the whole sales area for pumping digested sludge with Hidrostal Pumps

Quantity of units sold	3
Pump type	E06U-MMN1 + EFM1X-M160Q
Motor data	11 kW / 1500 rpm / IP55 TEFC
Material combination	Cast iron pump body with nodular iron impeller
Duty point	Flow : 35 litres per second / Head : 15 meters
In operation since	2014