



EVALED

**Photovoltaic &
microelectronics**

Leds production | Malaysia

Leds production

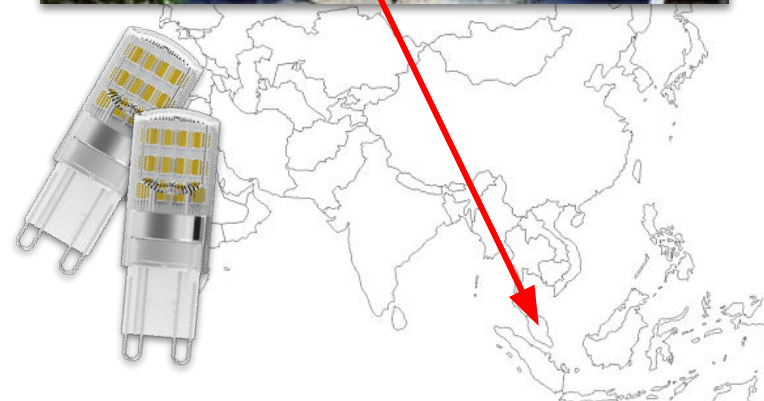
Customer

The Client is one of the guiding companies in the fields of illumination, visualization and sensor technology.

The company produces semiconductors, sensors, lasers and detectors systems, high-performance light-emitting diodes (LEDs) for the automotive and appliance applications.

Customer's needs

The Client aims to reduce the waste water disposal cost of concentrated stream from the mix baths of the plating line.

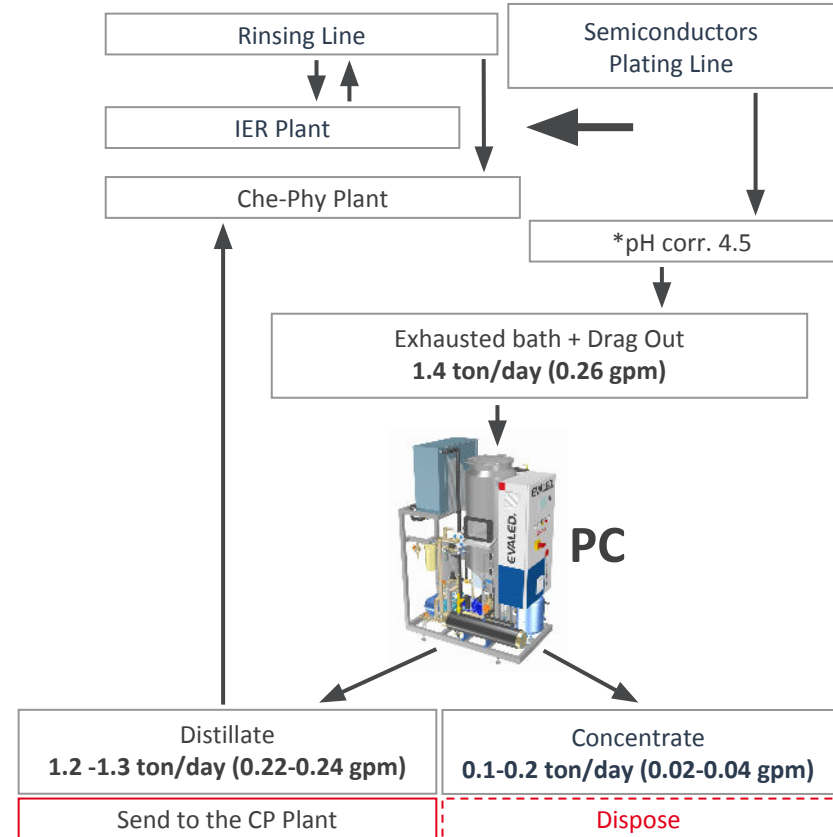


The plant

Analysis and Plant Process Diagram

Parameters	u.m.	Waste in	Distillate out	Concentrate out
COD	mg/l	4,000-6,000	<200	-
Conductivity	μS/cm	30,000-40,000	100-150	-
TS at 105°C	%	1-2	-	20
pH		1-2 (*)	5-6	-
Heavy metals	mg/l	300-600	<1	<6,000

Technology Type	Material	Footprint (m ²)
PC F 1.4 AA	AISI 316	1.7



Results

Distillate recovered: ~90%
Concentration factor: ~10 times

The solution achieved:

- to provide good results for the distillate quality with a small footprint solution;
- to reduce the disposal costs of concentrated waste and sludge produced in the Chemical Physical plant.

