



EVALED

**Photovoltaic &
microelectronics**

PV panels production | U.S.A., Malaysia, Vietnam, Germany

Photovoltaic panels production

FOR INTERNAL USE ONLY

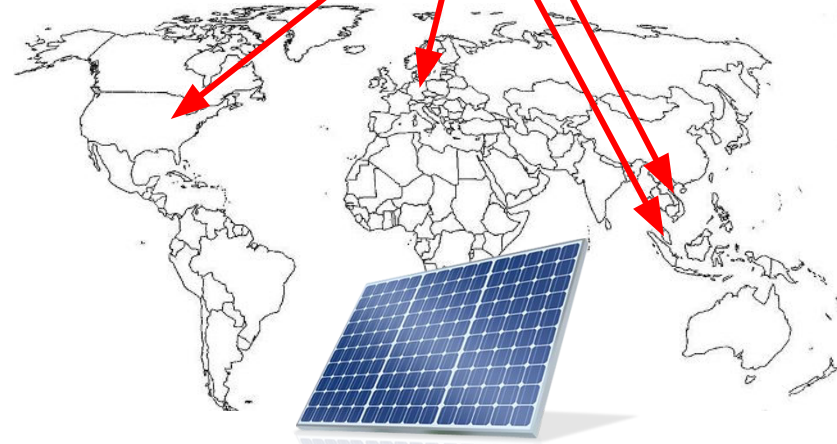
Customer

A leading global provider of comprehensive photovoltaic (PV) solar systems using advanced module and system technology. Their business ranges from module sales to turnkey power plant development and operations and maintenance.

Customer's needs

The Client aims to:

- reduce disposal costs;
- achieve ZLD and water reuse;
- consider a technological solution which allowed to re-sell the by-product in the future.



The Plant | Malaysian plant

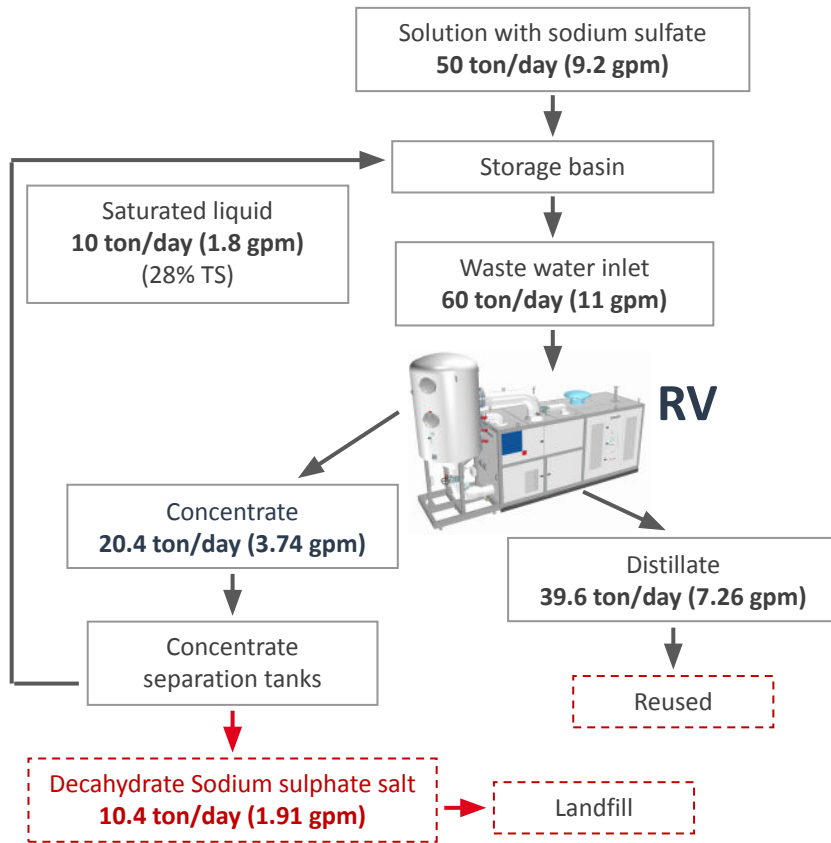
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Analysis and Plant Process Diagram

Parameters	u.m.	Waste in	Distillate out	Concentrate out
pH		11	9	11
TS at 105°C	%	12.8	<0.01	>80
Conductivity	μS/cm	97100	<50	
Sulphates	ppm	86500	<10	-
Sodium	ppm	56000	<5	-
Chlorides	ppm	1350	<5	-

Outlet quality

Technology Type	Material	Footprint (m ²)
RV F 60 FF	UNS S32750	18



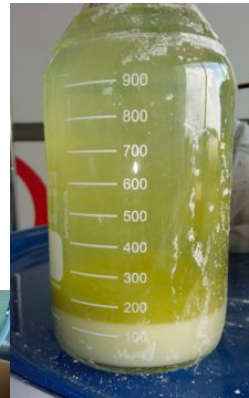
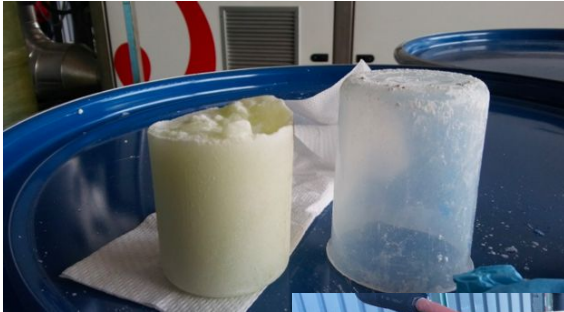
Results | Malaysian plant

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Water reused: 79.2%
Concentration factor: 4.8 times

The solution achieved:

- **complete ZLD**: waste water reduction 100%;
- a remarkable wastewater disposal costs reduction.



Results

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**Globally trusted
by the Client.**

REPEAT ORDERS

- 2013 Germany
- 2016 First line in USA
- 2016 Malaysia
- 2017 Vietnam
- 2018 Second line in USA

