HATENBOERWATER

Fresh in water since 1906.

Maritime Bottle Filling Stations

RASTIC .

SF/

Agenda

HATENBOERWATER Fresh in water since 1906.

Introduction Hatenboer-WaterPlastic Free @SeaCrew Concerns

Head office Hatenboer-Water

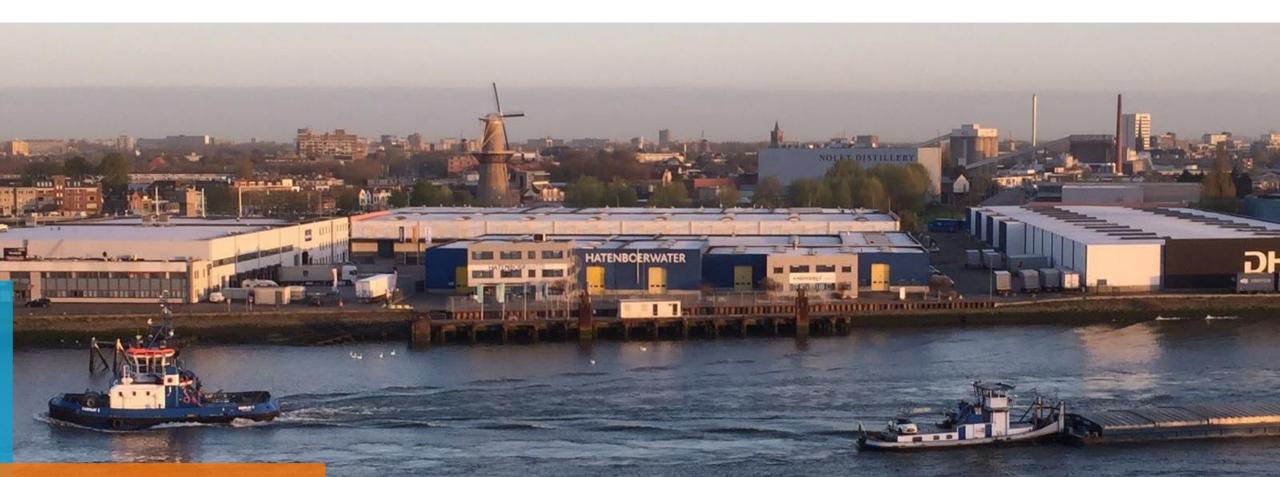
Schiedam, The Netherlands

- Fresh in water wince **1906**
- 120+ Employees

- 6 water supply ships
- Privately owned

HATENBOERWATER

• Worldwide offices & agents



Organisation Worldwide availability

International Offices

- Hatenboer-Water Asia Singapore
- Hatenboer-Water UAE Dubai
- Hatenboer-Water USA Houston

Worldwide Agents & Stock points

• China

• Turkey

- GCC Countries
- India
- Malaysia
- Korea
- Thailand

Brazil

• UK



Markets Over Sea

Offshore & Maritime

- Oil, Gas & Offshore support
- Worldwide navies
- Cruise
- Fish farming
- Navy

75% of activities dedicated to Maritime & Offshore













Markets Land-based

Agriculture

- Horticulture
- Farming

Industrial

• Food & Chemical industries

Industrial

- Foodservice
- Health Care & Wellness
- Commercial & Residential

















HATENBOERWATER

Fresh in water since 1906.

No more plastic bottles

RESTIC.

0SFA

Single-use Plastic Bottles

Polluting, Expensive & Labour intensive

Plastic Bottels By The Numbers

- Up to 450 years to dissolve
- A million are bought every minute
- 80% will never be recycled
- Estimated 10% ends up in the ocean
- Most costly & inefficient method of water supply in the history of mankind

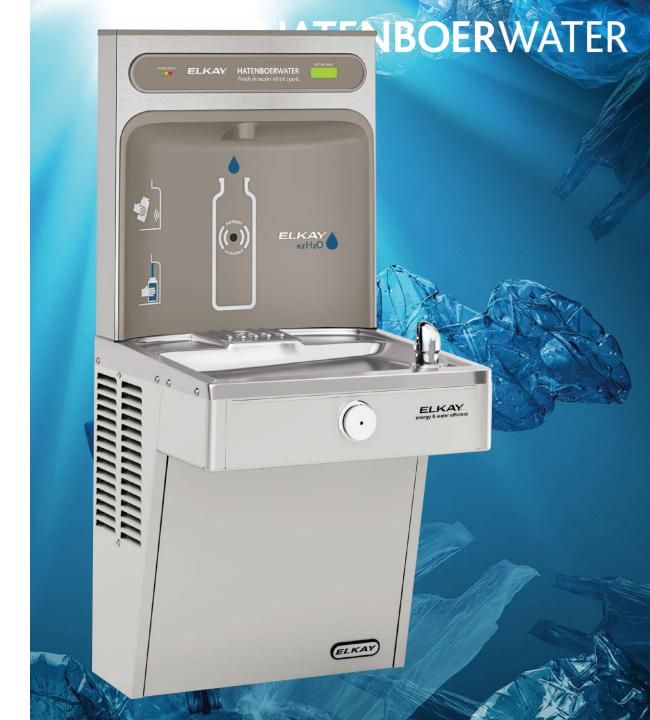
HATENBOERWATER

Plastic Will Outweigh Fish Per 2050 ~ World Economic Forum ~

Maritime Bottle Filling Stations

24/7 Cooled & Filtered Water

- Cooling Capacity of 30 ltr/h
- Hands free activation
- Integrated basic water filter
- Heavy Duty Stainless Steel maritime design
- Easy to install by crew
- Supplied with re-usable bottles
- Counts saved water bottles



Re-usable water bottle

According to Hatenboer-Water standards



Re-usable Bottles

- 530 ml Stainless Steel water bottle
- Non-toxic & free of BPA
- FDA Approved
- Dishwasher proof
- Double isolated, up to 12 hours cold
- Durable powered coated design

Onboard Water Testing

Monitoring Water Quality



Maritime Water Test Kit

- On-board monitoring of water quality
- Easy to perform by crew
- Including log sheets
- According to MLC, WHO, NIPH
- Wide range of test kits available

Getting Rid of plastic Bottles

The Benefits & Challenges



Benefits

- Reducing costs & labour
- Reducing environmental footprint
- Saving storage space

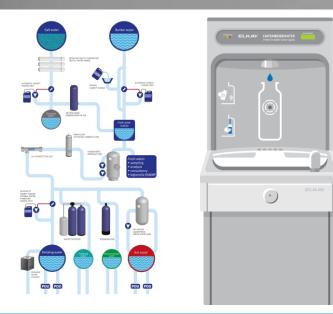
Challenges

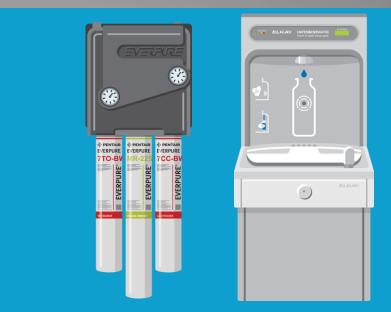
Provide Safe Water On Board

Trust among crew

The Solutions to Plastic Free @Sea

HATENBOERWATER





Safe Water On Board Solution

- Safe water from the Bottle Stations
- Tailor made solution per vessel
- $\circ~$ All water and FW system is safe
- According to flag state rules & guidelines
- Covers risk areas as showers, deck wash etc.

Point-Of-Use Filtration Solution

- Safe Water from the Bottle Stations
- Fits every type of vessel (1 solution for all)
- Produces safe water under extreme conditions
- Can motivate crew even more to consume from the bottle station

HATENBOERWATER

Convincing crew Overcoming trust issues

Why is it so hard to get rid of plastic bottles? Water must be safe to consume!

We will consume water from the fresh water tanks, right?



must be ensured!

How we convince your crew

HATENBOERWATER

www.SafeWaterOnBoard.com



Want to know your ROI? Find out how much your company will save annually

HATENBOERWATER

Calculate your Return Of Investment on:



https://www.hatenboer-water.com/calculate-your-savings

Calculate your savings

Please complete the details below and receive a free report on your ROI. Take advantage of our knowledge about safe water onboard and get insight in your possible (monetary and environmental) savings. The report that we'll send you can easily be shared with your team(s) as well of course. We are thrilled that you are taking into consideration to switch to the sustainable alternative of implementing our Plastic Free @Sea concept now, instead of using numerous plastic bottles onboard, year after year!

Fleet How many vessels does your company manage?	Cost savings After initial costs, incl spares	0
30 vessel(s)	€ 110,250 p/y	
Operation time How many days per year is/are the vessel(s) active on average?	Logistic savings Kg's not carried by the crew	0
350 days a year	472,500 kg p/y	
Crew How many crew members are on board a vessel on average?	Plastic savings Amount of single-use bottles	0
15 persons	945,000 p/y	

Return on investment (ROI)

We've calculated your ROI to get rid of plastic bottles for good. Fill in your name & email, and see the result directly. We'll send you a copy.

Name

Email*

Show my RO

HATENBOERWATER

Fresh in water since 1906.

Thank you for watching!

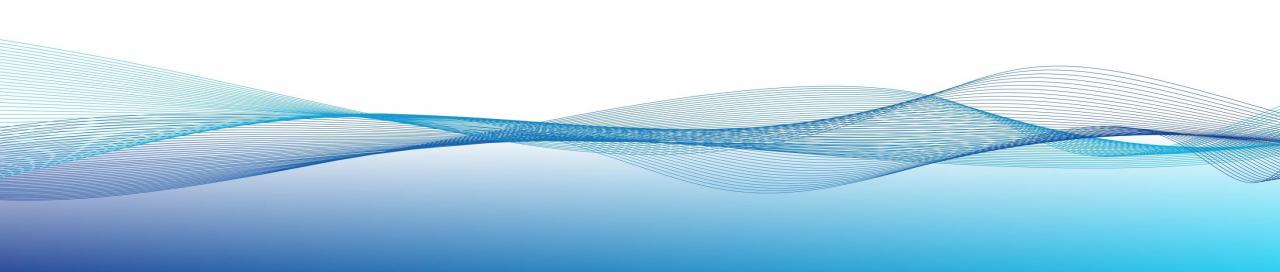
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www.hatenboer-water.com

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EXPERT IN ZERO LIQUID DISCHARGE AND RESOURCES RECOVERY



CleanEdge Water (CEW)



- Headquartered in Singapore with dozens of proven operating track record plants in India, Middle East and Africa.
- Offers long term service agreement with corporate clients through **Finance**, **Build**, **Own** and **Operate** model to help address their challenges in wastewater treatment and achieve water sustainability goals.
- Strong skills in 3 success drivers: Financing, Technical, O & M.
- Our patented Low Temperature Evaporation (LTE) technology invented by key personnel is the most critical part of a highly efficient and eco-friendly ZLD Solution suitable for most types of industrial wastewater.
- Key personnel is the Pioneer in Evaporation, Heat Exchanger, Condensation and Crystallisation with 30 years
 of experience and track records in 40+ countries globally.
- Strong in-house R & D team for continued technology innovations.

Founders Group and Advisor



Founders group have strong track record in Clean Technology Industry



- Raju Shukla, Co-Founder and Chairman, is as well the Co-Founder, Chairman, CEO and Director of Cleantech Solar, the largest solar electricity provider to Corporates in South-East Asia and India, with Shell Petroleum and Climate Fund Managers as it's strategic investor
- Over 22 years in the financial services in Asia and was the Managing Director and Country Head of Barclays Capital India from 2007 to 2012



- **Dr. Holger Eick, Founder and Director,** is as well the Co-Founder, Chief Risk Officer and Director of Cleantech Solar, the largest solar electricity provider to Corporates in South-East Asia and India, with Shell Petroleum and Climate Fund Managers as it's strategic investor
- Until 2014, MD and Head of Ratings Advisory and Capital Structuring for Asia-Pacific at Barclays Investment Bank



- Vinod Aachi, Founder and Director, is as well the CEO of Ariana Investment Management
- Held several global leadership roles in the banking sector. In Standard Chartered Bank, was the Global Head of Sales and Structuring and the Global Head of Structured Trade Finance & Financing Solutions.

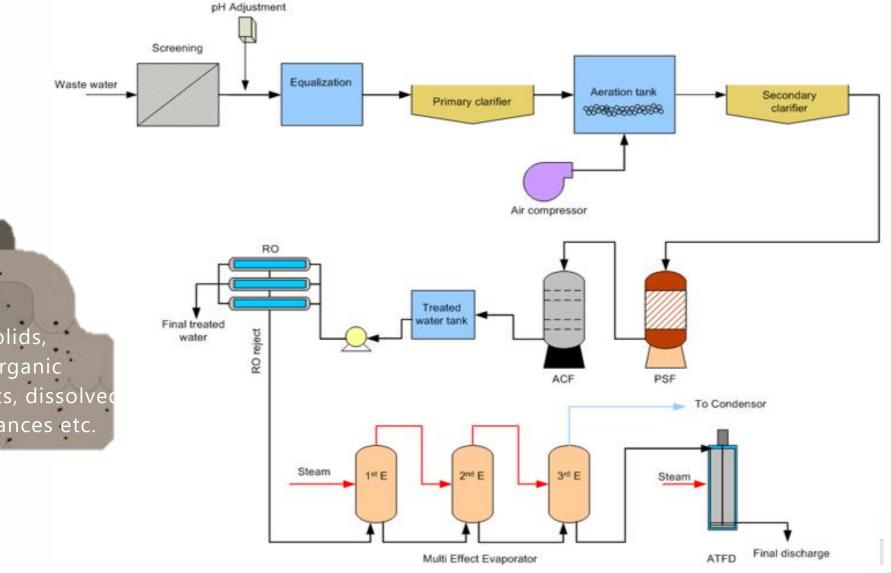


- Vivek Verma, Advisor, is a leading Innovator and Founder & Managing Director of SED
- He looks after product development, production & marketing including exports. Under his supervision SED has patented more than 60 innovation and 40 design patents.
- He is the Pioneer in Evaporation, Heat Exchanger, Condensation and Crystallisation with 30 years of experience and track records in 40+ countries globally.

Conventional Water Recycling



4



Suspended solids, oil & grease, organic compounds, nutrients, dissolved solids, toxic substances etc.

Low Temperature Evaporator (LTE) Based Solution CLEANEDGE WATER NORMAL HIGH TDS WASTEWATER SINGLE STEP Conventional water recycling SOLUTION process can be replaced by LTE, a more cost-effective and efficient single step solution. LOW TEMPERATURE **EVAPORATOR** HIGH COD CUM HIGH TDS WASTEWATER POLISHING (OPTIONAL) PRETREATMENT By collaborating with our (OPTIONAL) strategic partners with innovative technologies, Equalization Clarifier LTE can turn into a comprehensive solution. LOW TEMPERATURE This solution can effectively achieve zero/minimum liquid discharge as well as **EVAPORATOR** recovery of high quality water by fully mineralizing organic compounds, removing toxic substances, and extracting salts and valuable minerals.

Schematic Flow Diagram CLEANEDGE WATER Compressed Vapour In Vapor Out / | ` ₩ ₩ ¥ Clean Water Out Wastewater In **Recirculating Feed** Non-Condensable Gases Mechanical Vapor Compressor . _ . _ . _ . _ . _ . _ [_ · · __ · __ _._. Vacuum Pump Plate Heat Exchanger

6

Advantages of LTE Technology



- Highly adaptable, ideal for any capacity $\geq 1m^3/hr$.
- No requirement of steam for continuous operation, eliminating Heat Generator and Rejecter.
- Closed loop, robust & automatic system, easy to operate and maintain.
- Lowest footprint (savings up to 80% compared to conventional system and 30% compared to other evaporators).
- High purity water recovery up to 99%* (vs. 45% (seawater) to 80% (surface water) for Reverse Osmosis system).
- No chemical treatment required in process except cleaning.
- No additional sludge generation, minimized sludge handling and disposal.
- Single step process to recycle water, typically no biological treatment and Reverse Osmosis required*.
- Lowest water recovery cost (energy consumption 20-25 kWh/m³ vs 30-70 kWh/m³).
- Most effective water management solution.

* Depends on the wastewater parameters

Comparison of LTE MVR vs other Solutions



Opex/ Energy consumption Thermal Dryer/Crystallizer MD/MEE/MED/MSF LTE MVR RO 0.1% 3.5% 10% 25% 35%

Salinity

ltem	LTE MVR	Other Evaporators
Temperature	55-70°C	55-80°C
ΔΤ	Very low	Medium to high
Scaling*	Low - moderate	Moderate – high
Corrosion	Low	High with higher grade MOC
Steam requirement	Only for start-up & makeup purpose. Can be designed without steam too	TVR based- continuous steam MVR based – start- up & makeup
Energy requirement	Electrical	Steam + electrical
Condensate usability	Yes	Yes with additional treatment
Cooling tower and boiler	Not required	Required

* Forced Circulation Evaporator with MVR designed for Low ΔT will help reduce the scaling effect drastically.

Applications









Dyeing Industry



Leather Tannery



Brine Water Distillation Industry



Process & Allied Industries



Pharmaceutical Industry



Chemical & Petrochemical



Landfill Leachate



Sugar & Jaggery



Wastewater Treatment Plant



Pulp & Paper



Power Plant



Metallurgy



Distilleries



Dairy Plant



Oil & Gas



Distilleries



Food & Beverage

and more...

9

LTE Installations – Track Record



Industry type	Number of Installations	Total Capacity Installed (KLD)
Textile	14+ 4*	2033 + 1148*
Chemical	15+ 9*	668+ 604*
Paper	3 +1*	1500 + 48*
Leachate (Municipal Solid Waste)	1+ 2*	24 + 272*
Electroplating	2+2*	72 + 72*
Breweries	2*	260*
Food Processing	4+2*	372 + 72*
Tannery	1*	125*
Pharmaceutical	8 + 1*	768 + 24*

International

Industry Type	Number of Installations	Total Capacity Installed (KLD)
Distillery - Kenya	1	300
Oil Refinery – Middle East	1	48

* Under Manufacturing

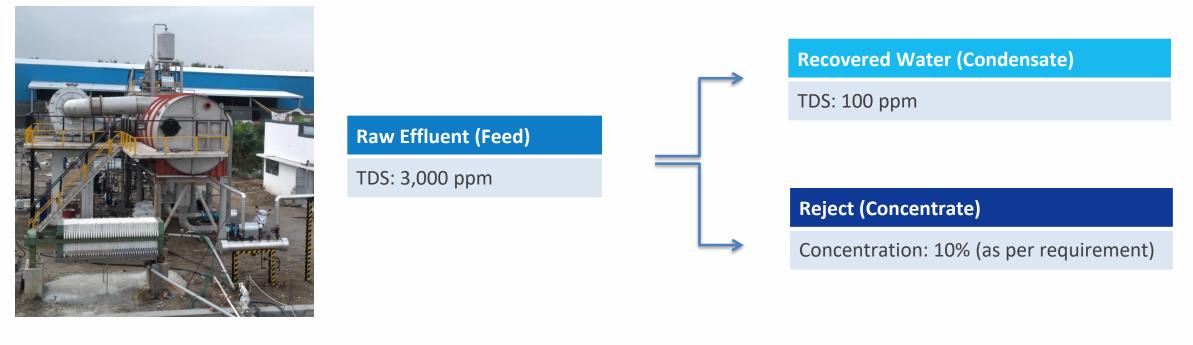
Food & Beverage (Tamil Nadu, India)



Project Highlights:

Significant volume reduction of wastewater that cannot be economically treated using conventional process.

Condensate is recovered and reused for general cleaning purpose.



Capacity – 12.5 m³/hr

Water Recovery: >95 %

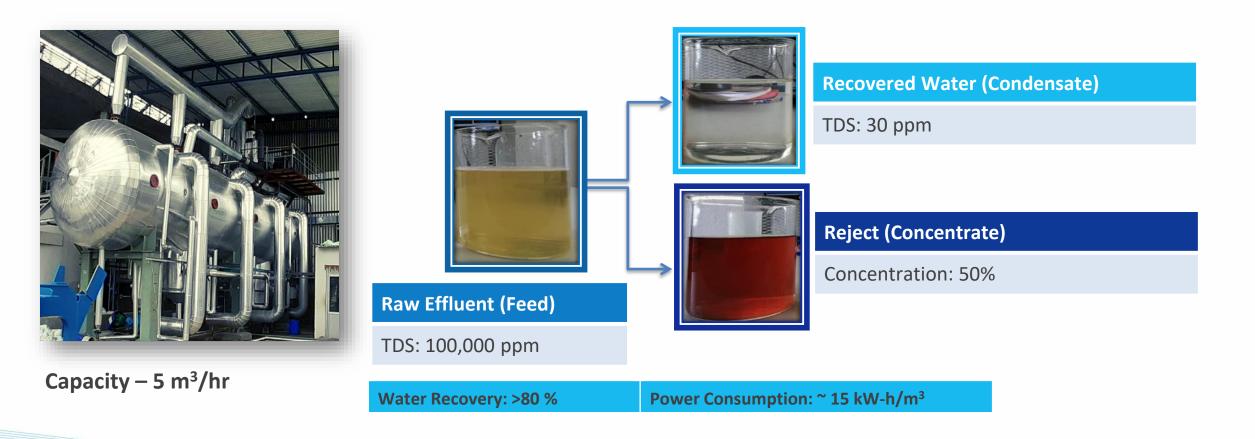
Power Consumption: ~ 18 kW-h/m³

Textiles Processing (Tamil Nadu, India)



Project Highlights:

- Caustic recovery plant.
- 90-95% reduction in the makeup of caustic requirement.

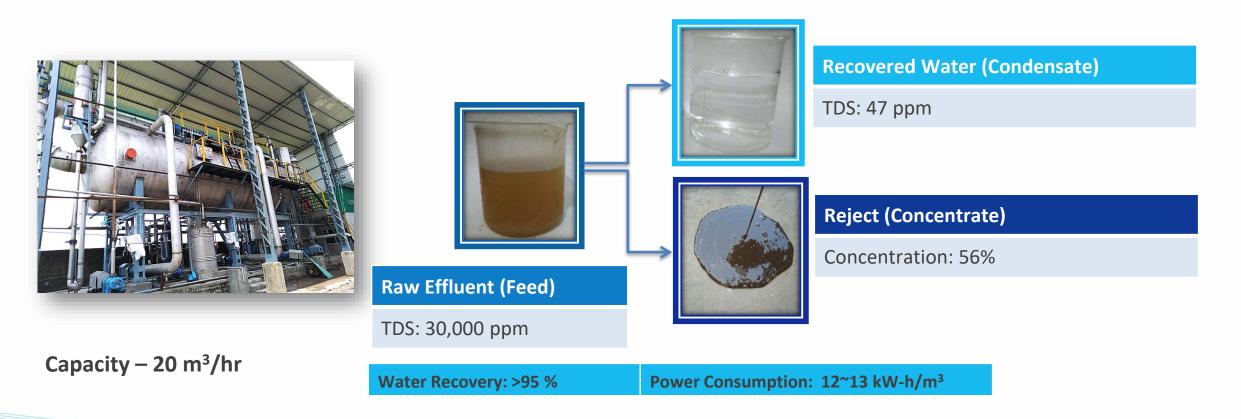


Paper Manufacturer (Assam, India)



Project Highlights:

- Recover clean water from wastewater
- Wastewater contains colour, very high level of BOD & COD, due to presence of lignin and it's derivatives from the raw cellulosic materials & fibrous solids



Sugar Refinery (Jebel Ali, Dubai)



Project Highlights:Sugar syrup concentration

Waste HAS = 34,000m²
Equipment Capacity: 150 Ton/h

Largest standalone Sugar Refinery in the world with a production capability of more than 7000 tons per day.



THANK YOU

www.cleanedgewater.com

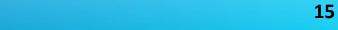
Singapore

20 Cecil Street, #17-05, Plus, Singapore 049705 4th Floor, 402A, Poonam Chambers, A Wing, Dr. Annie Besant Road Worli, Mumbai - 400 018

India

Indonesia

Arkadia Green Park, Tower G 8th Floor, Jl. TB Simatupang, Kav. 88 Jakarta – 12520





Rainwater Harvesting Systems

Applications For Buildings & The Construction Industry



Residential Private Condo & HDB

The Palette Condominium Coco Palm Residences D'Nest Residences Martin Modern Residences H2O Residences Punggol Vue (C32) Punggol Bayview (C33 & C34) Punggol Waterway Sundew (C36) Punggol Waterway Sundew (C36) Punggol Waterway Woodcrest (C38) Punggol Waterway Ridges (C39) Punggol Waterway Brooks (C40) Punggol Waterway Banks (C41) Punggol Waterway Cascadia (C31) HDB Tengah C1, C3 & C4

Funan Redevelopment Mall

commercia

Retail Malls, Hospitals, JTC

JTC Chemical Hub

Urban

JTC Timber, Metal & Machinery Hub

JTC Punggol Digital District (Mixed Development)

Orchard Boulevard Hotel & Residence (Mixed Development)

Interpol Singapore

Hwa Chong Institute

Institutes & Universities

Schools

NUS School Of Design & Environment

United World College (Dover)

Singapore Institute of Technology (Punggol)

Urban Farms

Greenhouses & Vertical Farms

Funan Redevelopment Mall (Level 7)

Netatech Oasis Living Lab (Kranji)

Rainwater Harvesting Tank & System

Design Strategies & Implementations

Permissible Usage From Rain Harvested Water (Non-Potable Purposes Only)



Landscape Irrigation (Manual or Automatic Drip Irrigation Systems)



General Cleaning (HDB Void Decks & Stairways)



Toilet Flushing (Micron Technologies, JTC Chemical Hub, Interpol Singapore & NUS SDE)

- Annual Rainfall Data & Estimated Volume To Be Harvested
- Selection of **Catchment Area** To Fulfill Demand Volume
- Assessing Catchment Surface Types for Pre-Tank Filter Selection
- Tank Design (Size, Location, Interfacing with Detention Tanks, Incoming & Overflow Pipes, Drainage & Maintenance, etc.)
- **Pre-Tank Filtration Type** (Custom Sedimentation Sump, Screen / Mesh Filters, Stainless Steel Basket Strainers, etc.)
- Distribution Method "Treat & Store For Later Reuse" or "Treat-As-You-Use"
- **PUB & NEA Compliance / Approval** (By-Pass, Drainage, Crosscontamination, Stagnation/Mosquito Breeding, etc.)





RWH For Automatic Drip Irrigation

Luxury Condominium located at River Valley, Singapore with 85% Green Surface Area Throughout Entire Development.

Irrigation Volume Demand Per Day: 50,000 liters

'Treat & Store' Method for 1 Day Usage

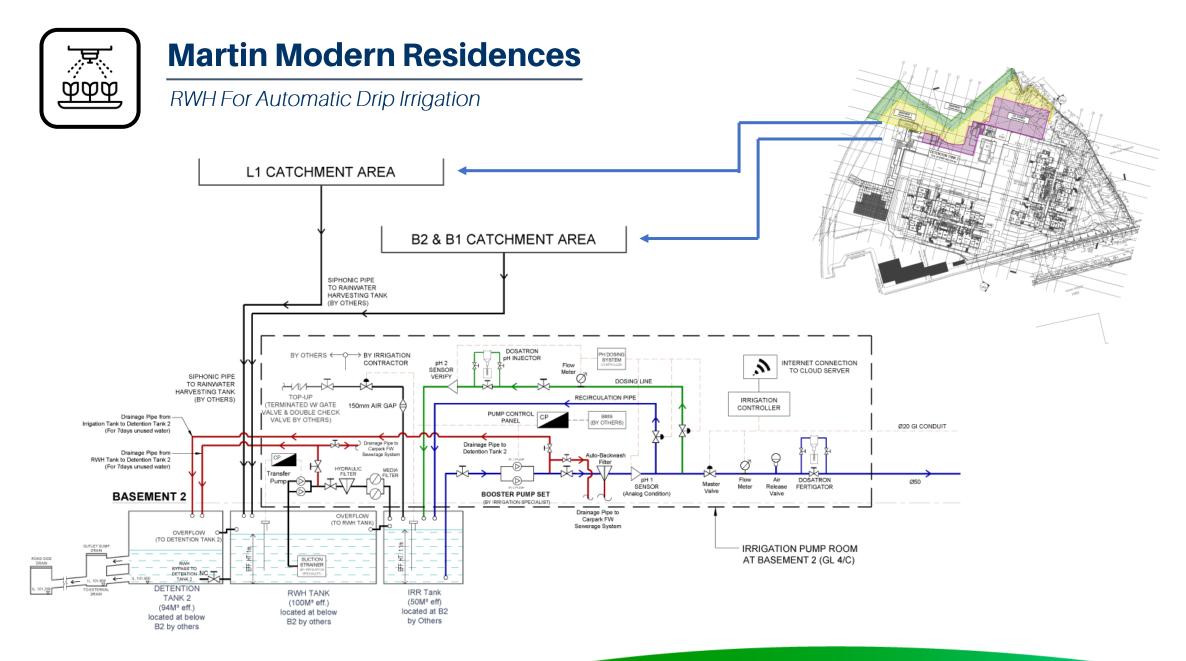
NETAT

System incorporates Hydraulic Filter, Media Filter & Automatic Backwash Disc Filter

PH Sensor & Dosing Pump for Balancing PH Levels in the Treated Water Tank



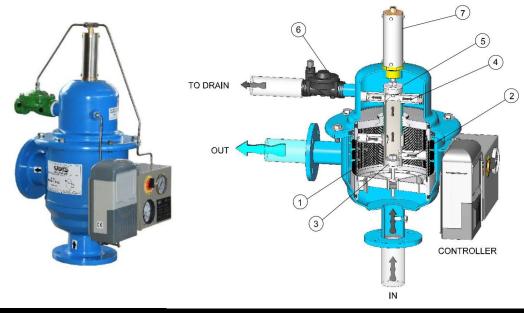






RWH For Automatic Drip Irrigation





Hydraulic Fine Screen Filter (130 MICRONS). Removal of Granular & Other Particles.

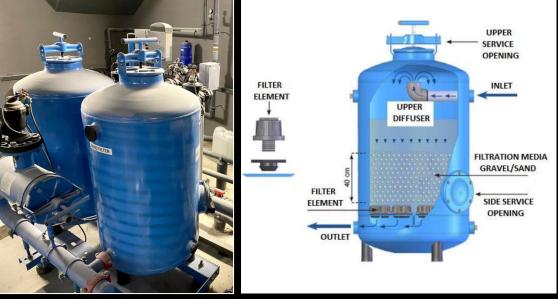
Auto-Backwash Activation Created By Pressure Differential & Flushing Controller.





RWH For Automatic Drip Irrigation





Gravel / Sand Filter removes suspended solids and organic matter/algae in the harvested rainwater.

Consists of diffusers which disperses water uniformly in order to avoid channeling or caking in the filtration media.

Interfaces with a Controller for Auto-Backflushing





RWH For Automatic Drip Irrigation







HDB Punggol Waterway Woodcrest, Ridges & Brooks

RWH For Stairways Washing

Public Housing Flats at Punggol District, Singapore

To Treat & Disinfect Harvested Rainwater for Stairways & Corridor Washing

incorporates Ultra-Filtration using Ceramic Membrane Made With Silicon Carbide.

Nominal Pore Size: 0,04 Micron

Removal Of Bacteria Due To Possible Body Contact With Rainwater During Washing

"Treat As You Go" Design

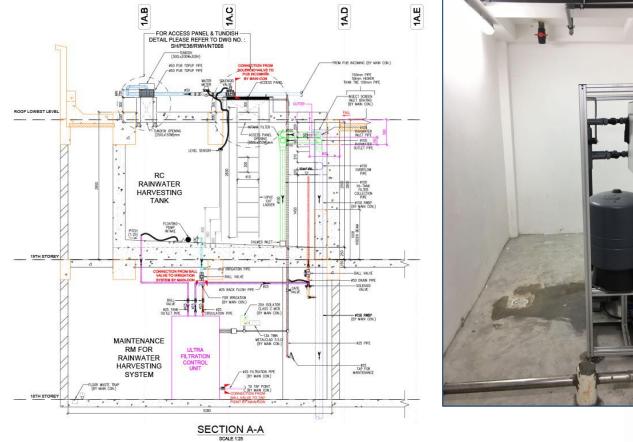






HDB Punggol Waterway Woodcrest, Ridges & Brooks

RWH For Stairways Washing







HDB Punggol Waterway Woodcrest, Ridges & Brooks

RWH For Stairways Washing

R Tenan Gardans Crescent Ingantre 638825 al : (85) 6566 7777 ac (85) 6566 7710 (htste: www.selsco.com					
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Results :					
Determination	Unit	Test Method	Sample	Client's Specification	
pH value at 22.6°C	~	APHA : P. 4500-II ⁺ (B)	9.0	0-14	
Total Suspended Solids	mg/1.	APHA : P: 2540D	<10†	2 mg/L	
Calcium as Ca	mg/l.	APHA : Pt 3120B	6.67	0.1 mg/l.	
Manganese as Mn	mg/I.	APHA : Pt 31203	<0.00031	0.1 mg/L	
fron as Fe	mg/L	APHA : Pt 3120B	0.030	0.015 mg/L	
Turbidity	NIL	APHA : Pt 2130B	2.9	1 NTU	
Biochemical Oxygen Demand (BOD ₃)	mg/L	APEA : Pi 5210B	2.9	<10 mg/L	
Sodium Chloride as NaCl ₂	mg/L	APEA : Pt 3120B / APEA : Pt 4110B	23.8	20 mg/L	
Colour	Hazen	APHA : Pt 2120B	5	<5 Hazen	
Fazcal Coliform	cf4/100mL	APHA : Pt \$222D	<11	<1 cft7.00mL	
E.Coli	cfu/100mL	APHA : Pt 9222G	≪1†	<lefn c00ml<="" td=""></lefn>	
Total Coleny Count (@35°C, 48 hrs)	cfir/100ml.	APHA : Pt 9215B	3.4 x 10 ⁴	<500 cfuml	
Comarks:					
. APHA is a Standard Method fo	r the Determina	tion of Water and Waste Wate	r (APHA 22 ¹⁰	Edition : 2012).	
 + – Not Detectable (The report 	ted values are le	ss than (4) the detection limits	of the test met	nods).	
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EXECUTIVE CHEMIST			MANAGER		
and off an offender			SHIMOER		
BIOLOGICAL	AND CHEMI	CAL TECHNOLOGY DI	VISION		
	- A Second da				

No.	Parameters	Unit	Effluent Quality Reference Guidelines	
1	pH	-	6 - 9	
2	Color	Hazen	< 5	
3	Turbidity	NTU	< 5	
4	Total Dissolved Solids	mg/L	< 500	
5	Total Colony Count	cfu/ml	< 500	
6	Total Coliform Count	cfu/100ml	< 1	
7	E. Coli Count	cfu/100ml	< 1	

- System to Fulfill Specification Parameters
 Issued By HDB during Tender Phase.
- Conduct Water Lab Test at Locally Certified Laboratories Upon System Completion.
- Ensure Water Test Results satisfies the Specified Filtration Performance





One of Micron's Largest Semiconductor Manufacturing Facility located at North Close Drive in Singapore.

RWH Treatment System Completed for F10X in 2016.

Currently In The Works - F10A (Extension Facility)

Estimated Flushing Demand / Day = 16,200 liters

System Comprises Disc Filtration, Activated Carbon Media Filter & UV Disinfection





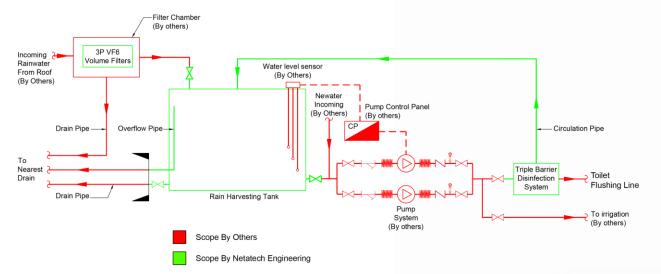






Micron Technology

RWH For Toilet Flushing









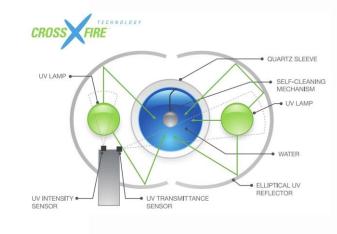




Micron Technology

RWH For Toilet Flushing







- Dual UV Lamp with Reflector Surroundings for a 360° coverage
- Dual UV Sensors Which Continuously Monitor UV Dose, Lamp Intensity & net UV Transmittance (UVT)
- Self Cleaning Wiper Within The Quartz
- Easy Lamp Replacement After 10,000 Hours Usage





NETATECH Water Solutions

Closing the urban water loop





THANKYOU Q&A NETATECH

Nijhuis Saur Industries | Sustainable Water Use, Energy and Resource Recovery

Innovation to Practice: For Sustainable Water Solutions Across Industries Nik Chia - Nijhuis Saur Industries

#StandForWater

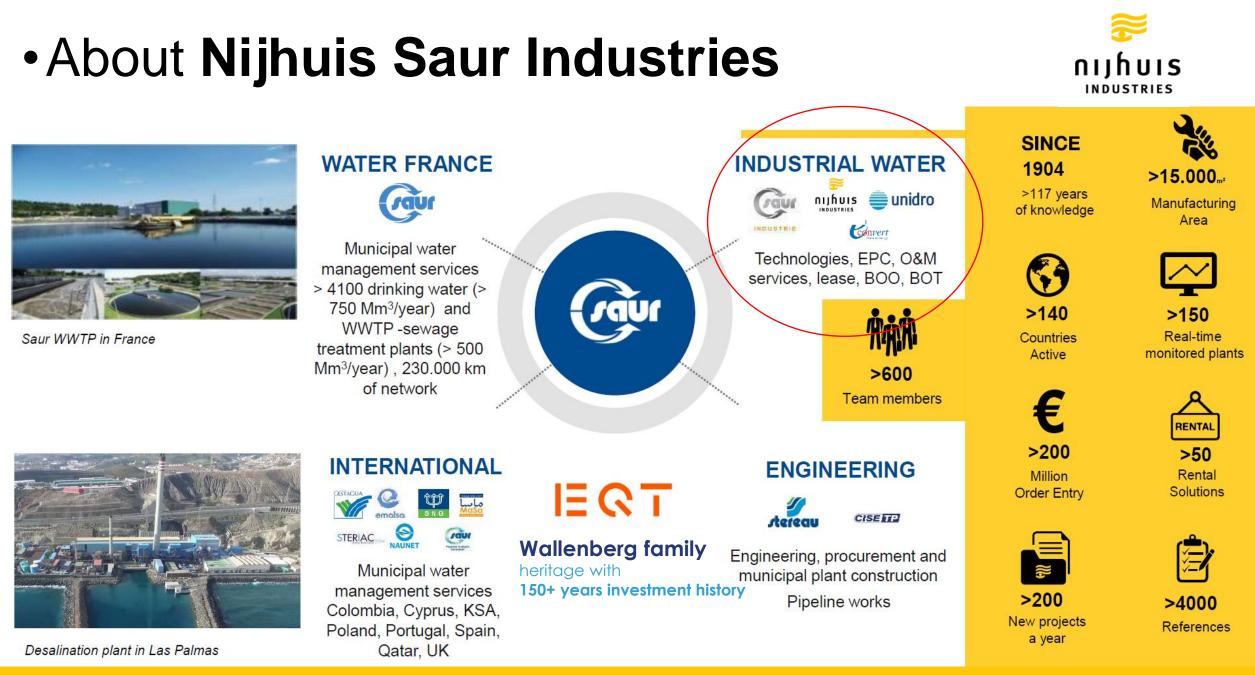






ECON





#StandForWater | Nijhuis Saur Industries | Sustainable Water Use, Energy and Resource Recovery

Nijhuis Saur Industries #StandForWater



 Image: Constant of the second seco

Strong international footprint in Europe, expanding in emerging markets and around the globe Historical expertise in Industrial Water

INDUSTRIES

A DNA of innovation and digitisation of Water solutions and services

Consistent focus on health & safety in Nijhuis Saur Industries ways of working Partner of Multinationals and over 4000 industrial references worldwide supported by business and technology partners

Addressing Global Water challenges and preparing the future of Water-On-Demand by offering our unique Customer for Life services

COMMITTED

TO GLOBAL &

CLIENTS

CHALLENGES

A one-stop-shop for industrial water

to reduce cost and to be ready for a sustainable, resilient and inclusive future









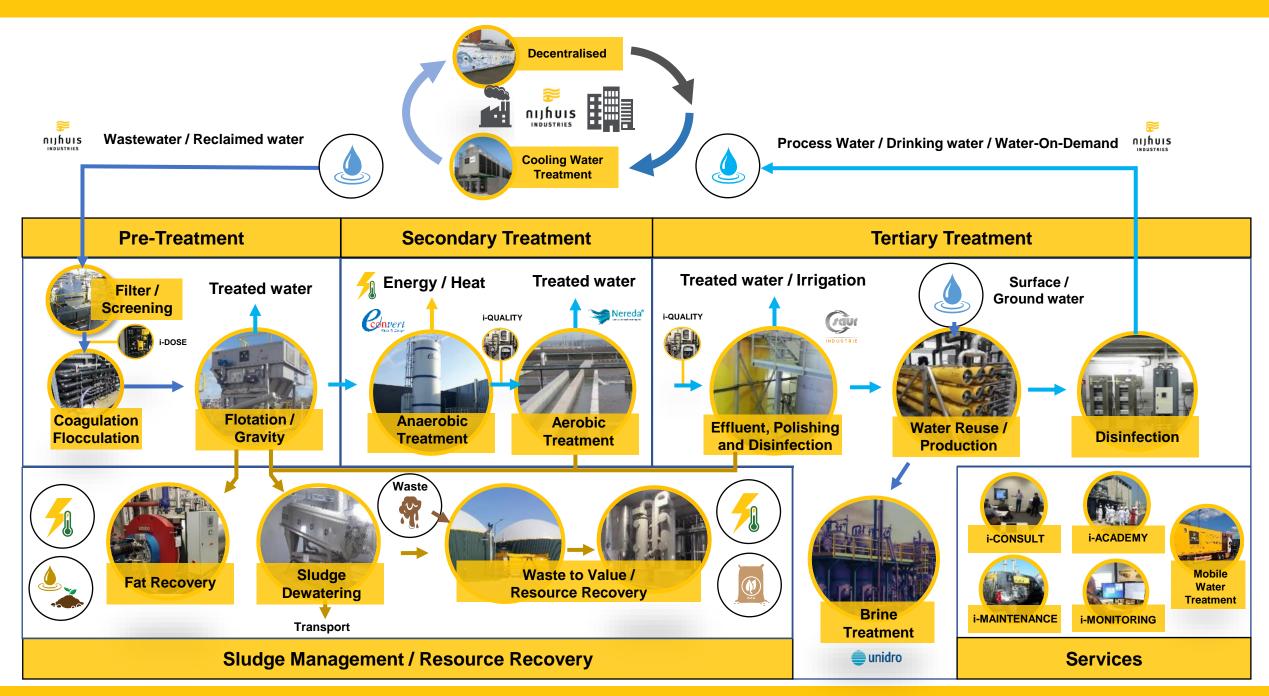
Oil & Gas, Petrochemical



Resource Recovery



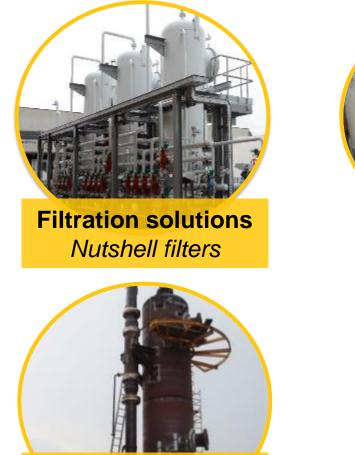
Modular / Decentralised



#StandForWater | Nijhuis Saur Industries | Sustainable Water Use, Energy and Resource Recovery

Oil and Gas Solutions FOR ESPECIALLY HEAVY INDUSTRIES AND CONDENSATE TREATMENT





Air Treatment Strippers Remove N/CO₂/H₂S/BTEX



Condensate Treatment Resin Coalescers



Brine treatment for chlor-alkali plants



ZLD Solutions Evaporators / Crystallisers



Lean Amine Filtration for gas process

#StandForWater | Nijhuis Saur Industries | Sustainable Water Use, Energy and Resource Recovery











In a nutshell:

(Waste)water treatment expertise in Meat, F&B,

Cosmetics, Oil & Gas, Petrochemical and Municipal.

- Proprietary / innovative technologies and rental specialist.
- Consultant, technology, turn-key supplier.



#StandForWater











INDUSTRIE

Water & Performance

In a nutshell:

EPC contractor & O&M for water treatment in

Municipal, F&B, Pharma Cosmetics, Pulp & Paper.

- Strong focus on Water & Performance.
- > Optimising the whole water cycle.













In a nutshell:

- Anaerobic treatment specialist for F&B, Pharma
 - Chemical, Pulp & Paper.
- Anaerobic rental solutions.
- Technology integrator or stand-alone system supplier.



unidro





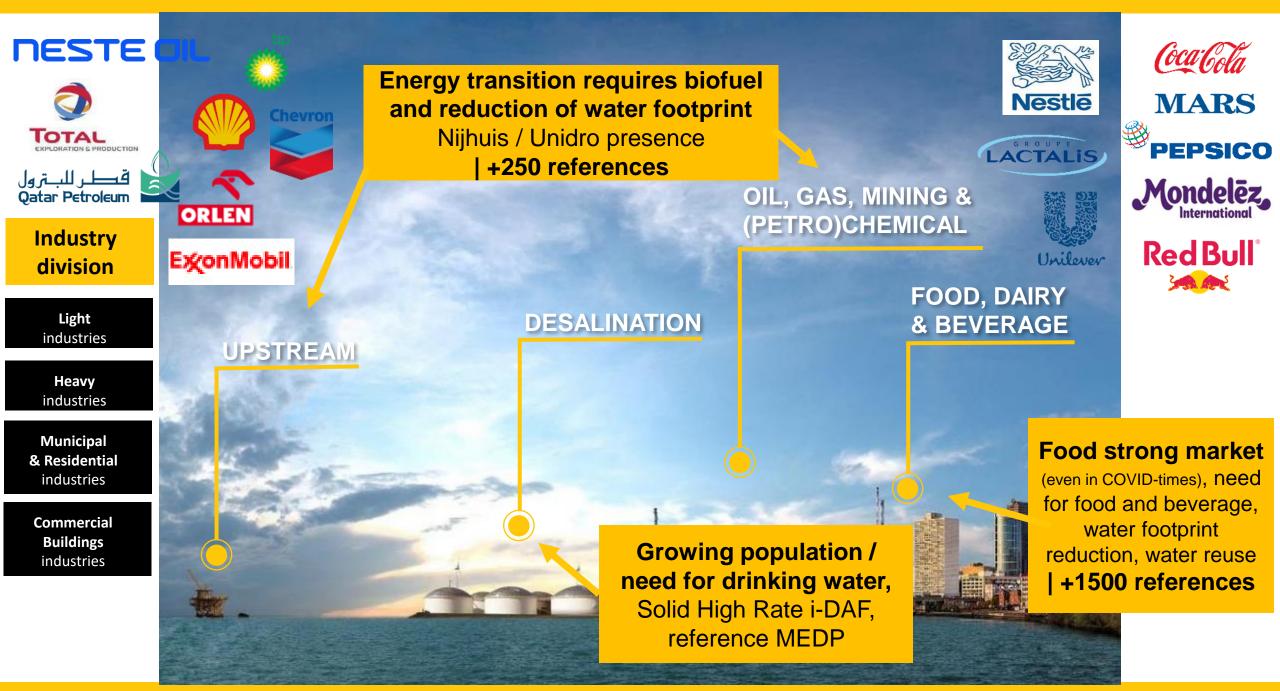


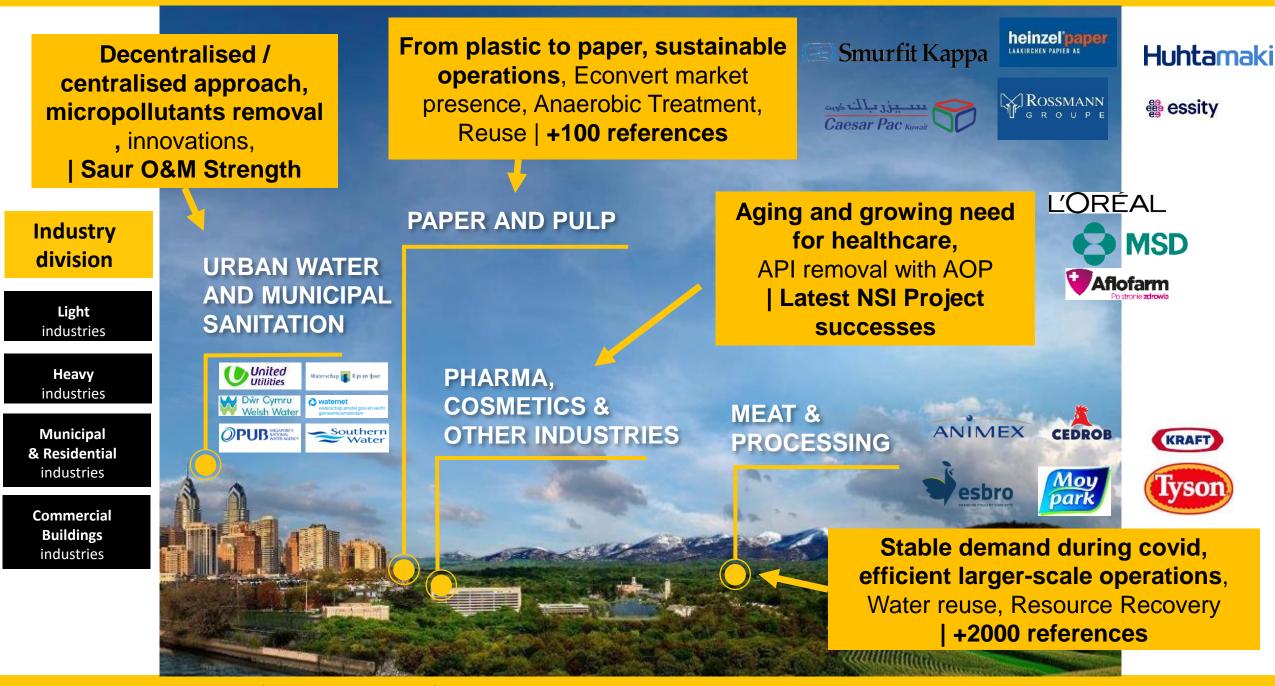


In a nutshell:

Global player in the Oil & Gas, Chemical and Power
 Industry to bring value to EPC Contractors and End
 Users with our engineering experience and
 progressive technologies in (waste)water.







PUB / Keppel MEDP | Singapore



Installation Facts:

Design Flow: 15,000 m3/h Technology: 8 concrete High Rate i-DAFs Application: Pre-treatment of sea water and surface water

Global Water Awards Desalination Plant of the Year 2021





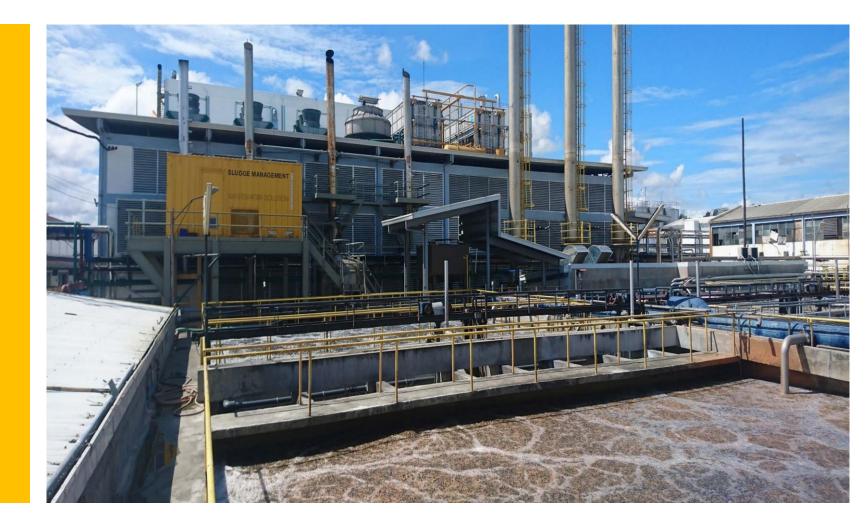
ATFR

Alaska Milk | Philippines



Installation Facts:

Industry: Dairy wastewater Design Flow: 2,400 m³/d Technology: Screen / DAF / MBBR / Polishing DAF / Dewatering Application: Achieving stringent wastewater discharge limit



Sical Groupe Rossmann | France

Installation Facts:

Industry: Pulp and Paper Design Flow: 24,000 m³/day COD: 8,500 kg/day Biogas: 3,000 m3/day Technology: Econvert EGSB® biogas flare and condensate pit Application: Achieving wastewater discharge limit



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BRN / GSA | Algeria

Installation Facts:

Treatment (for BRN area) consisting of skim tank, separators, clarifier, nutshell filters, cartridge filters Produced Oily Water Treatment (for ROD area) consisting of biphasic separator

Design Flow:

- 300 m3/h (BRN)
- 200 m3/h (ROD)
- Start date: 2015





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Nijhuis Saur Industries | Sustainable Water Use, Energy and Resource Recovery



Contact us for more information: nik.chia@nijhuisindustries.com



#StandForWater







RECOVE

