2:45pm	Registration & Opening
3:00pm	Welcome Address by SWA
3:10pm	Snap Introduction of New Members
4:15pm	Q & A
4:30pm	Door Stop Interview

new members ORIENTATION DAY

8 January 2021, Friday, 3pm to 5pm

SNAP INTRODUCTION

Meet some of our new members who joined the SWA community amidst the pandemic !

DOOR STOP INTERVIEW

for selected companies by Water & Wastewater Asia

Media Partner:

Brought to you by:



SINGAPORE WATER ASSOCIATION

SAFETY MEASURES & HOUSEKEEPING RULES

new members ORIENTATION DAY

8 January 2021, Friday, 3pm to 5pm

ONLINE

- Please mute your microphone and turn off camera upon entry to ensure a better connectivity.
- To avoid disruption, we reserve the rights as organiser to withdraw any participant from interrupting the session.
- Please post any question in the chat during the Q&A session.
- We would send a post event follow up to all attendees for any B2B meeting request.

ONSITE

- Wear Your Mask at All Times during the event (even when presenting)
- Please be seated at your allocated table no.
- Do not interact or mingle with other tables.
- No exchanging of namecards or greetings (contacts will be provided to all after the event)
- Please dispose your garbage before leaving the hall

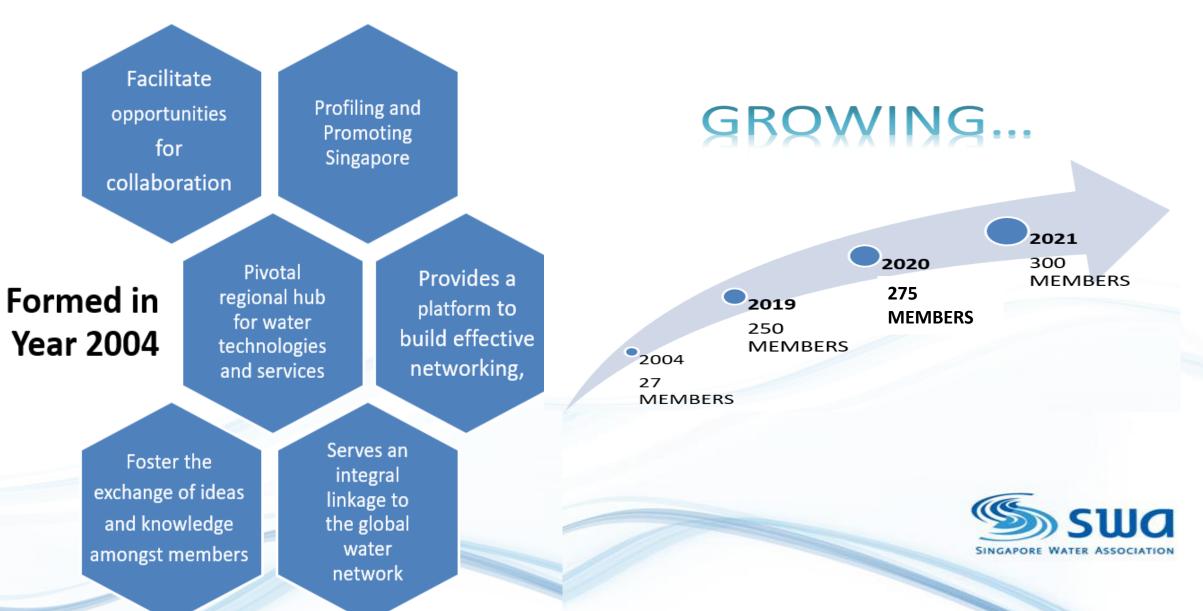




Brought to you by:



About SWA



AFFILIATE PARTNERS

Canada





Singaporean-German Chamber of Industry and Commerce Deutsch-Singapurische Industrie- und Handelskammer





ASSOCIATION



Malaysian Water Association



Philippine Water Works Association





NGEE ANN POLYTECHNIC

SPECS Smart Grid + Power Electronics Consortium Singapore

SINGAPORE National Bl@FILM Consortium



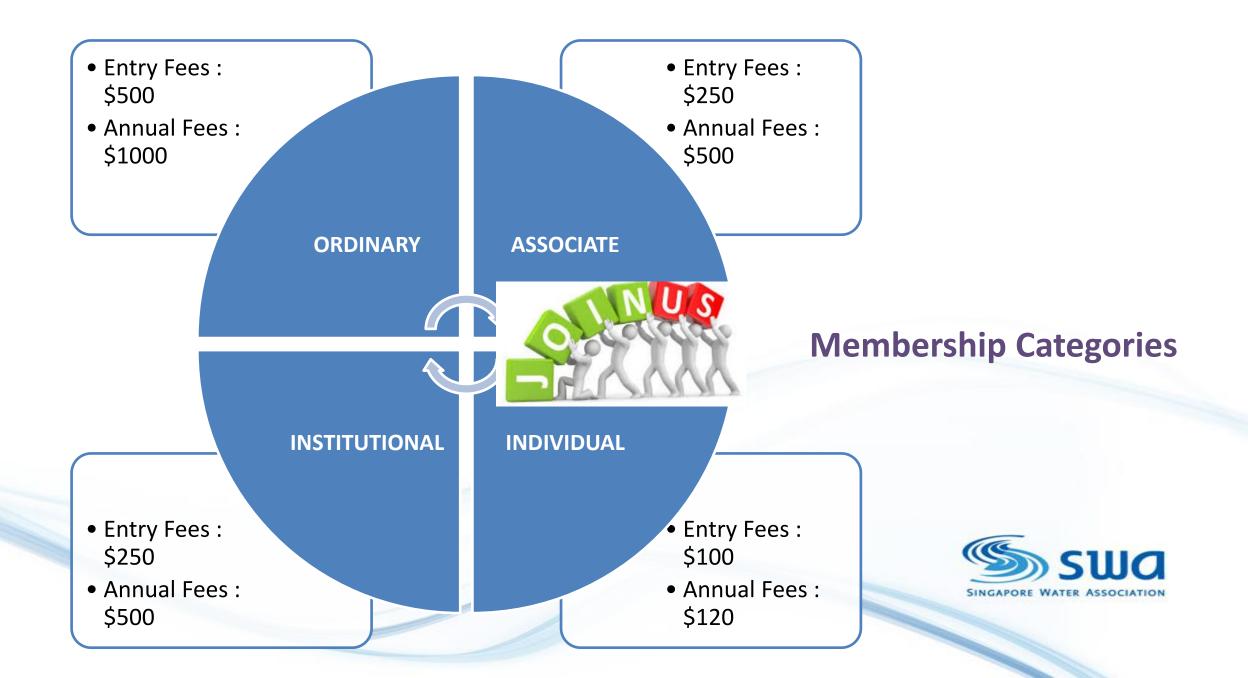


Indoor Farm Factory Innovation



Some Existing Members





Website Advertising Opportunities

Top Banner:



Bottom Banners (3 placements):



Announcements

Download our **2021** Events Calendar NOW !

Meet our new members !

VIEW MORE





SWA Initiatives



SWA Marketplace Assist Platform (SWA-MAP)







MASTERCLASS TRAINING COURSES

Training Courses		Days	Date
1	Fundamentals & Recent Trends in Membrane Technology for water/wastewater treatment	3	22-24 Feb
2	Singapore Energy Efficient (EE) Waste Water Treatment Plant	1	5-Mar
3	Design & Operate Membrane Bioreactor (MBR) Plants - TBC	2	March
4	Project Contracts and Management for Water Industry Professionals	3	24-26 Mar
5	Internet of Things and Data Analytics for Industry	3	26-28 Apr
6	Design, Engineer & Operate Fresh Water Treatment Plants (NEW)	3	19-21 May
7	Design of Industrial and Municipal Waste Water Recycling Plants (NEW)	3	26-28 Jul
8	Membrane Technology (MF/UF/RO/MBR)	3	23-25 Aug
9	Smart Water Management using AI and IOT	2	13-14 Sep

We can "tailor-made" for you !



* Dates subject to change without prior notice





SWA Webinars		Time	Date
1	Delivering Sustainable Water Solutions Through Decentralization (Fluence Corp)	3pm-4pm	12-Jan
2	Survival Strategies for Water businesses (De Nora)	1030am-1130am	4-Feb
3	HRM Opportunities for the Water Businesses (LVI Associates) *TBC	3pm-4pm	11-Mar
4	What if underestimating sturdy sensor inputs actually prevented you from saving big on energy? (George Fischer) *TBC	4pm-5pm	22-Apr





	SWA/SgWX Water Utilities Series [Hybrid]	Time	Date	
1	SWA/SgWX Water Utilities Series - Hong Kong's Dept of Water Supply, Mr Roger Wong, Assistant Director (Development)	3pm-4pm	13-Jan	
2	SWA/SgWX Water Utilities Series -Public Works Department, Brunei	3pm-4pm	26-Feb	
3	SWA/SgWX Water Utilities Series - DKI Jakarta Provincial Government, Ms Elizabeth Tarigan , Projects Head, Dept of Water Resource	3pm-4pm	16-Mar	
4	SWA/SgWX Water Utilities Series - SAWACO, HCMC	3pm-4pm	15-Apr	
5	SWA/SgWX Water Utilities Series - MWA, Thailand	3pm-4pm	18-May	
6	SWA/SgWX Water Utilities Series - Water Corp, Australia	3pm-4pm	15-Jun	
7	SWA/SgWX Water Utilities Series - Yangon Municipality, Myanmar	3pm-4pm	15-Jul	
8	SWA/SgWX Water Utilities Series - ShenZhen Water Group, China	3pm-4pm	17-Aug	
9	SWA/SgWX Water Utilities Series - Chennai Metropolitan Water Supply and Sewerage Board, India	3pm-4pm	16-Sep	
10	SWA/SgWX Water Utilities Series - Watercare, New Zealand	3pm-4pm	15-Oct	
11	SWA/SgWX Water Utilities Series - Taiwan Water Resources	3pm-4pm	16-Nov	
12	SWA/SgWX Water Utilities Series - Sharjah Electricity and Water Authority, UAE	3pm-4pm	14-Dec	

	Hybrid Events		Date
1	SWA New Members Orientation Day	3pm-5pm	08-Jan
2	YWP Sharing with SUTD	4pm-5pm	29-Jan
3	PUB Project Update & Sharing	4pm-5pm	18-Feb
4	SWA Movie Day - Brave Blue World	10am-12pm	17-Mar
5	Sharing Session of Water Technologies by Israel Embassy	4pm-5pm	18-Mar

	SWA/SgWX Industrial Water Series [Hybrid]	Time	Date
1	SWA/SgWX Industrial Water Series - Asia Pacific Brewery Singapore	3pm-4pm	28-Jan
2	SWA/SgWX Industrial Water Series - NIKE Inc Singapore	3pm-4pm	24-Feb



TECHNICAL SITE VISITS IN 2021

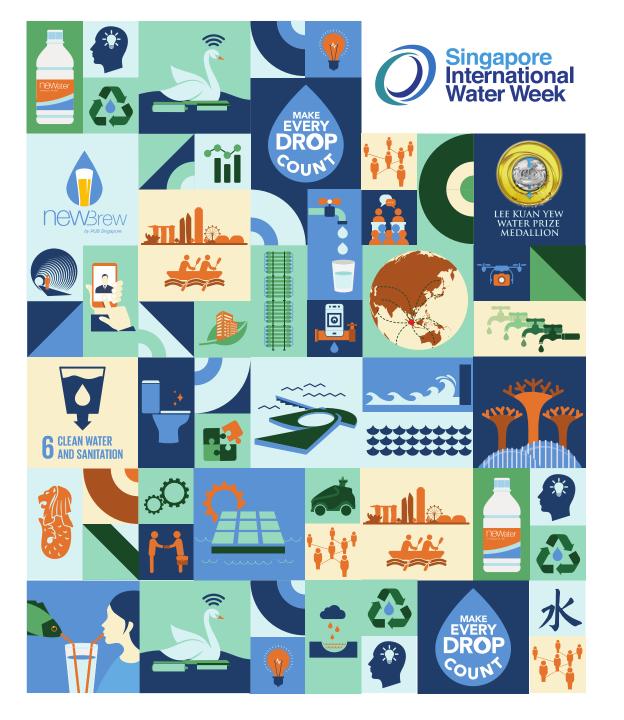
	Technical Site Visits - (*) To be confirmed	Days	Date
1	Takeda Pharmaceutical Plant @ Woodlands	1/2	9-Mar
2	Pfizer Tuas facility *	1/2	13-Apr
3	PUB Marina East Desalination Plant	1/2	27-Jul
4	PUB Jurong Island Desalination Plant (Virtual) *	1hr	24-Aug
5	Floating Solar at Tengah Reservoir	1/2	16-Sep











SINGAPORE INTERNATIONAL WATER WEEK 2021

🛗 20 – 24 June 2021

Sands Expo & Convention Centre Marina Bay Sands, Singapore



- e SG SINGAPORE Passion Made Possible
- Global platform to share and cocreate innovative water solutions
- Offers value propositions of:
 - Thought Leadership
 - Business & Networking
 - Solutions & Technologies



How have past exhibitors & sponsors benefitted?

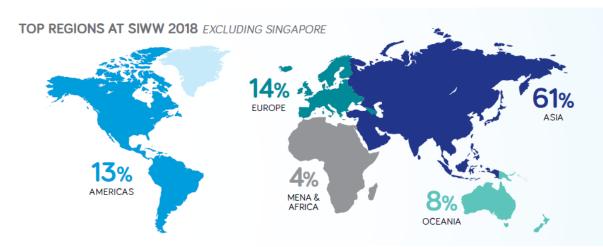
Top 5 Industries exhibited at SIWW 2018

- 1. Engineering & Construction
- 2. Manufacturing
- 3. Industrial Water
- 4. Water Utilities
- 5. Environment Management



Statistics are based on the Singapore International Water Week 2018





Statistics are based on the Singapore International Water Week 2018₁₆



Opportunities to participate at the Singapore Pavilion

Highlights of the Water Expo

• 12 participating country/region pavilions, including the Singapore Pavilion

TI M K TOT NOR

- New Thematic Pavilions: Digital Solutions Pavilion, Start-up Pavilion, Coastal Protection Pavilion
- Networking & Business Opportunities: Business Matching Lounge, Solutions Stage, New Product Showcase



To find out more on grants you can tap on, contact Mr Jasvinder Singh at jasvinder@swa.org.sg for more information.

To find out more about how you can participate in the Singapore Pavilion, email Ms Veronica Tay at sales@siww.com.sg







JII. ®



SINGAPORE PAVILIONS AT



	Singapore Pavilions		Date
1	ThaiWater 2021, Thailand, Bangkok	3	12 - 14 May
2	Singapore International Water Week, Singapore MBS (Flagship)	4	21 – 24 June
3	Water Indonesia 2021 Jakarta	3	18 - 21 Sep
4	MyanmarWater 2021, Myanmar, Yangon	3	20-22 Oct
5	WATEC Israel 2021, Tel Aviv, Israel	3	Oct (TBA)
6	VietWaterHCM 2021, Vietnam, HCM	3	10-12 Nov
7	WaterPhilippines 2021, Philippines, Manila	3	8 - 10 Dec



Thank You

new members ORIENTATION DAY

8 January 2021, Friday, 3pm to 5pm



and welcome our new members on stage

Media Partner:

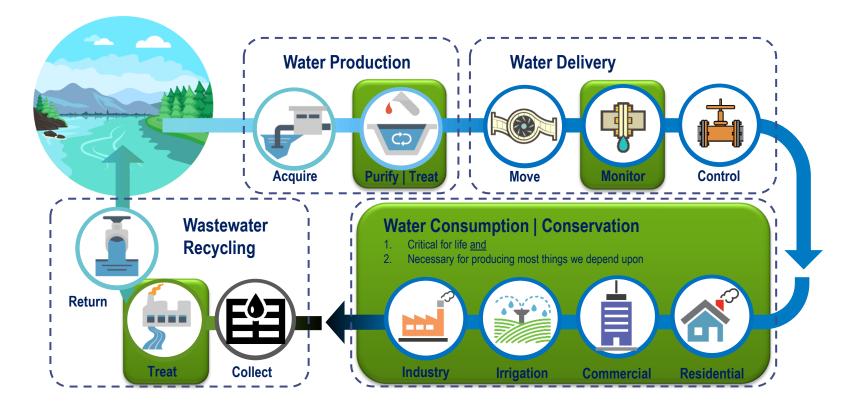


Brought to you by:



BADGER METER IS A WATER FOCUSED, FLOW MEASUREMENT LEADER

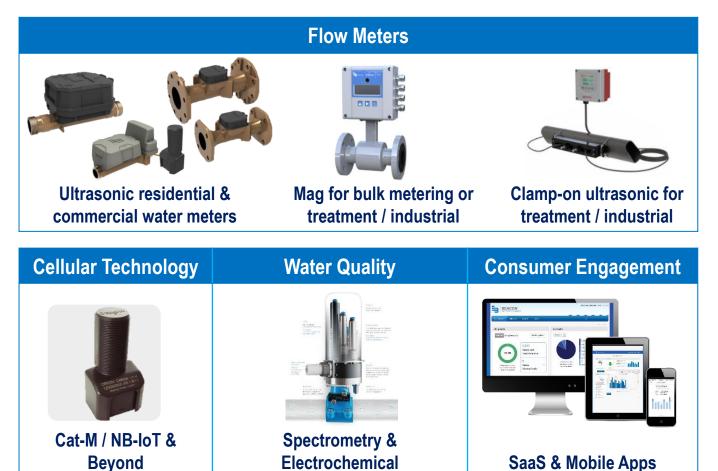
- Industry leader in North American water metering, with a developing global position in flow metering solutions
- Stable business model sustaining 115 years of operation and 1,600+ employees worldwide
- Culture of innovation and investment in R&D drives new product/service expansions
- Acquisitions strategy aligned to integrate key vertical technologies



Delivering Measurement and Monitoring Where You Need It... You cannot manage what you do not measure.

SMART WATER EVENT MANAGEMENT

- Visualization integration of existing data and hydraulic model provides holistic view of water network for all utility stakeholders
- Smart operation scenario simulations for an improved operational strategy:
 - Monitoring automatic real time detection of anomalies and events
 - Decision dashboards key performance indicators for business intelligence and decision-making
 - Data connectivity to SCADA at the device or from the cloud



On Demand, Real Time, Anywhere - for improved utility operations and consumer experience



About BHME

Incorporated in 2010 December, Beng Hock Mechanical Engineering (BHME) established its first workshop in the western part of Singapore on a humble 500 Sq. ft. workshop premise.

From the start, the founders of BHME and 2 senior technicians began providing services focused on heavy vehicle service and repair works. Over the past decade, BHME has continuously stood by the philosophy of Kaizen. This would involve continuous self-reflection, progression, improvement and innovation in all levels of the organization. In 2020, BHME has grown to almost 60 members, who are all experienced, passionate and highly skilled in their respective field of expertise. BHME will continue to progress and serve our various cross industries customers.

Over the past 10 years, some of our satisfied customers include





TOP 10 INDUSTRY SECTOR BHME SUPPORTS(民福主要业务服务含盖约十个领域) * SOLID WASTE MANAGEMENT / 固体废弃物管理业务 * ENVIRONMENTAL SANITATION MANAGEMENT / 环境卫生管理业务 * TRANSPORTATION & LOGISTICS/ 交通与运输管管理业务 * CONSTRUCTION & INFRASTRUCTURE/建筑与基础建设管理业务 * LOGISTICS & WAREHOUSING/物流与仓储管理业务 *F&B&FOOD PROCESSING/餐伙与食品加工管理业务 * LANDSCAPING/花卉与园林苗莆管理业务 *WHOLESALE & RETAIL/批发与零售业务 * MALLS & HOTELS / 商场与酒店业务 * MOBILE EVENTS & MANAGEMENT SETUP/流动帐棚与桌椅服务业务

Contact Details: 1) Mr. Kenji, kenjileow@benghock.com.sg, +65 8666 9266 : 2) Mrs. Fion, fionleow@benghock.com.sg, +65 9768 5639/ +65 6364 9266



TRANSFORMING MICROBIAL SAFETY

amit@biopsin.com www.biopsin.com

71 Ayer Rajah Cres #06-01/02, 5139951

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Microbial Source Tracking Pathogen Detection Pathogen Control Microbial Safety

amit@biopsin.com www.biopsin.com

Crowcon at a glance



Established in 1970, with continuous growth ever since



Today, over 500,000 portable and fixed Crowcon devices are in use around world



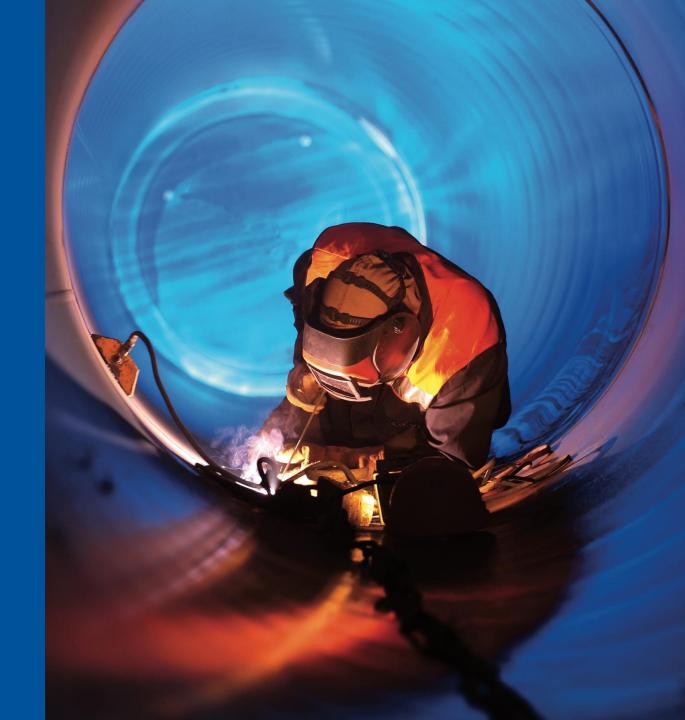
Leading experts in Process and Infrastructure Safety



Pioneered over 10 technology and industry firsts



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Best in class gas safety solutions

Visit our website to find out more (www.Crowcon.com)

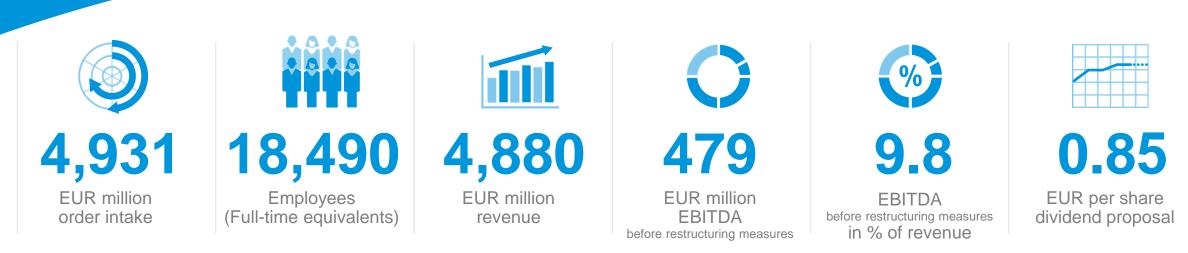
Contact us: singaporesales@Crow con.com



GEA at a Glance

"Engineering for a better world" is the driving and energizing principle connecting GEA's employees. As one of the largest systems suppliers GEA makes an important contribution to a sustainable future with its solutions and services, particularly in the food, beverage and pharmaceutical sectors. Across the globe, GEA's plants, processes and components contribute significantly to the reduction of CO_2 emissions, plastic use as well as food waste in production.

GEA is listed on the German MDAX and the STOXX[®] Europe 600 Index and also included in the DAX 50 ESG and MSCI Global Sustainability indexes.



Fiscal Year 2019



GEA Separation

Since 1893, GEA has been building centrifuges which combine high separating efficiencies, clarifying efficiencies and throughput capacities with maximum savings in terms of energy, water and disposal costs.

GEA Westfalia Separator (S.E.A.) Pte. Ltd is a Private Company Limited by Shares, incorporated on 14 December 1979 in Singapore.

For the past 41 years, the company is supporting the region SE-Asia with new equipment, aftersales service, repair, process, and industrial plant engineering design and consultancy services.

SEPARATIO WeiKiong.Hoo@gea.com Stephanus.dwidianto@gea.com +65 9729 4872

+65 8299 8826

About Us

McConnell Dowell is a company that is founded on a proud heritage of innovation and pioneering spirit. Driving Progress is our company motto and core to everything we do, and in collaboration with our customers and partners, we have a proven track record of building and delivering better creative construction outcomes that contribute positively to the regions in which we operate. We achieve this through safe, smart and efficient infrastructure – something we have been doing consistently since 1961.

Our culture of progressive thinking and creative approach is what makes us unique. We have a clear vision of what we want to be, leaders in infrastructure development; and we guide our business living our five core Values – Safety & Care, Honesty & Integrity, Customer Focus, Working Together and Performance Excellence.



Tom Dockray – Managing Director South East Asia Email: <u>tom.dockray@mcdgroup.com</u> Mobile: +65 8799 5886



Ryan McDonough – General Manager New Business South East Asia Email: ryan.mcdonough@mcdgroup.com Mobile: +65 9154 3296



Singapore Since

SINGAPORE WATER ASSOCIATION ORIENTATION DAY A value offering encompassing part or full optimal integration of the complete life cycle of project execution; Project Management, Engineering, Procurement, Construction, Commissioning and Operations.

Procure

Contract Administration

Material Management

Purchasing

Expediting

Logistics

Project Management – Complete Solution

Construct

Construction Management

Self-perform

Commissioning

Support

Value Offering

Engineer

Opportunity, Pre-feasibility

& Feasibility Studies

Preliminary & Detailed

Conceptual Design

Value Engineering

Technical Solution Development

Engineering



New Zealand

MCCONNELL DOWELL

NETATECH Integrated Solutions for RAIN, SUN, & CROP HARVESTING

• SMART WATER



• SMART FARM



NETATECH ENGINEERING PTE LTD

• SMART TECHNOLOGY

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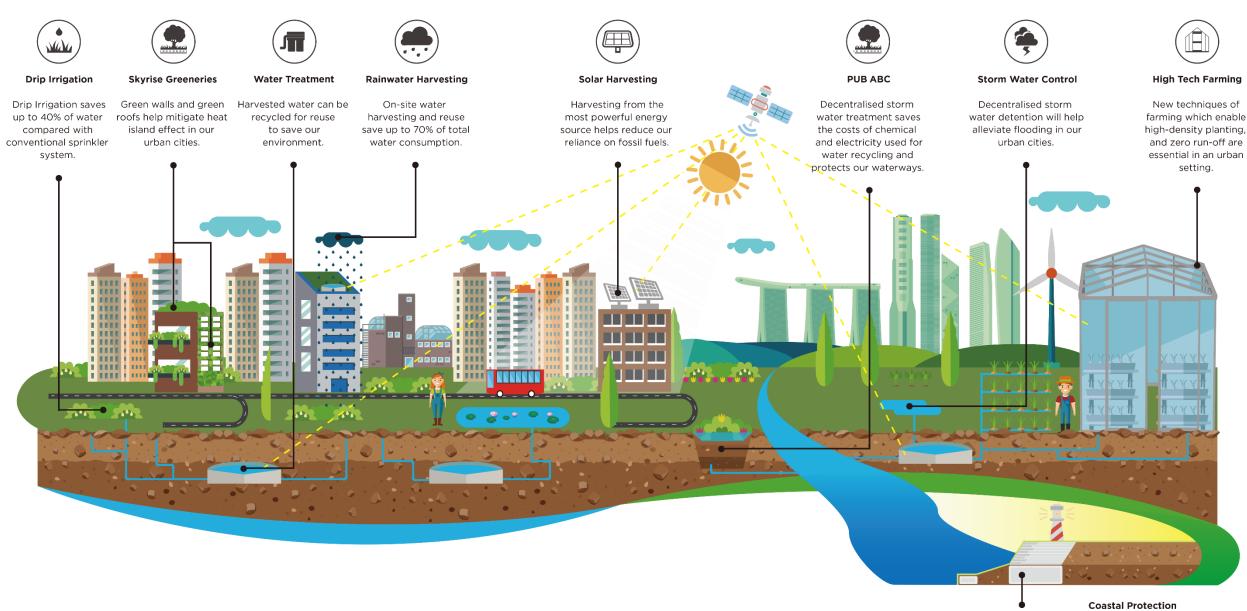
Website: <u>www.netatech.com.sg</u> Contact: +65 6243 0218 Sales: sales@netatech.com.sg

NETATECH End To End Solutions

- DESIGN CONSULTANCY
- PROJECT IMPLEMENTATION
- INTEGRATED MAINTENANCE

• ACADEMY











Geosynthetics construction helps recover & enlarge coastal areas on sea, river, lake, & swamp in against of erosion & flood.



Overview of NSL OilChem Waste Management

Specialist in Oil-and-Chemical Waste Management

- **1** Waste Oil/ Slop Recycling Business
- A Marine Slop Collection
 - Collection of slop oil at sea
- **B** Land Collection for waste oil/ oily waste/ sludge
 - Collection of waste oil/ oily waste/ sludge on land
- **C** Refined Fuel Oil (RFO Sale)
 - Slop processing to RFO and subsequent sale of the processed RFO



2 Industrial Waste Business

A Industrial Waste

 Collection of industrial chemical waste for incineration or fixation

Industrial Wastewater

 Collection of industrial wastewater for treatment and disposal

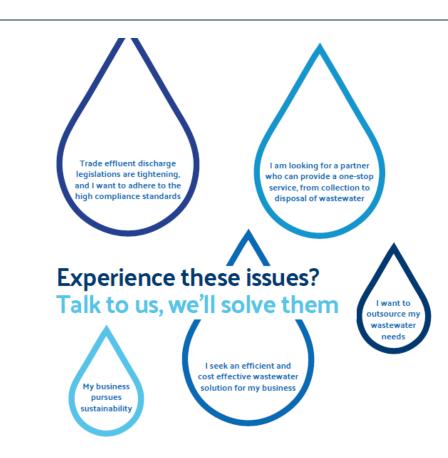




NSL Oilchem's Facilities Industrial Wastewater Treatment Complex (IWWC)

Industrial Wastewater Collection and Treatment

- The IWWC can treat the following types of industrial wastewater:
 - Waste acid/ alkali treatment and disposal, Inorganic wastewater treatment and disposal
 - High COD / Sulphate / Oily Wastewater from Petrochemicals industry (Refineries, Oil & Gas, Precision Engineering, Chemical Plants)
 - Glycol Wastewater from Automotive industry (Air-conditioning, Chillers)
 - High COD/ TDS Wastewater from Pharmaceutical Industry
- We have invested in an advanced laboratory that is equipped to analyse industrial wastewater, harnessing technology as an enabler to enhance our customers' experience and operating efficiency, . Our well qualified waste analysts can conduct a wide range of treatability studies to determine the most optimal and cost-effective treatment methods and processes.
- Please feel free to contact us at <u>sales@nsloilchem.com.sg</u>, <u>enquiry@nsloilchem.com.sg</u>, <u>eugene.goh@nsloilchem.com.sg</u> or call us at +65 6863 5270, +65 6863 5272 for more info or enquiries.

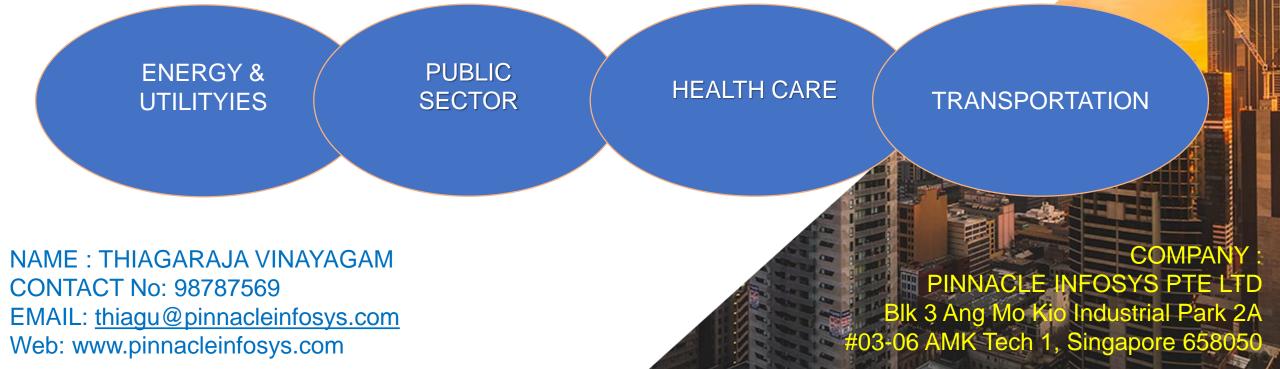




Pinnacle @ Glance

About Us

- One Stop Solution for Smart Metering and Energy Monitoring
- One Stop Solution for Industrial Control Automation & Optimization.
- Integrated Building Automation System (BMS & IBMS)
- One Stop Solution for Intelligent Street & Industrial Lighting System.
- One Stop Solution for Smart Pole along with Charging Station.
- Providing Software Solutions for various verticals.





SMART WATER METERS

Our WiFi registers fits all sizes and types of meters







Walk-By / Drive-By

Meter > Smartphone / > Management tablet > system



GSM

Management Meter > system

• ULTRASONIC METERS MULTIJET METERS

TECHNOLOGIES

• NBIoT • LoRAWAN • BLUETOOTH • WIFI • GSM









Team profile – Water quality management



Dr. Kaushal Sagar Product owner, Water quality management

Polymer chemistry and materials



Dr. Liping Sharon Chia Research scientist

Chemometrics and data analytics



Dr. Shilpa Pant Senior research scientist

System design and signal processing

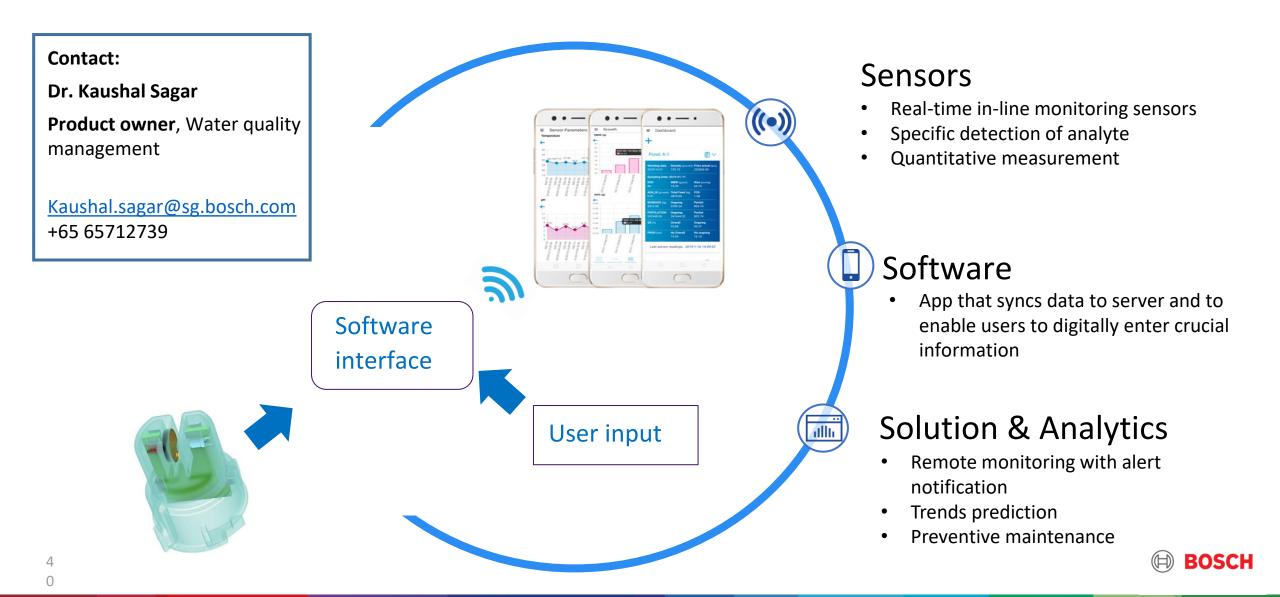


Dr. Trung Chi Ngo Senior data scientist

IOT system development and integration Machine learning and data analytics



Water quality management @Bosch



DuPont Water Solutions purpose





DuPont Water Solutions Portfolio

Leading Multi-tech Portfolio

Our global scale, high-quality manufacturing, and differentiated technologies enables us to be the market shaping technology leader and problem solver

MBR	MABR	Ultra Filtration	CCRO	Ion Exchange	Reverse Osmosis	Degassifier
 High growth product line driven by regulations Opportunity for growth and market share increases Increased visibility on the advantage v competition a focus 	 New to the world technology Strong value proposition v competitors in 20 WW market Significant improvements in energy reduction, reduced footprint, opex savings 	 Acquisitions have positioned DWS as a market leader Broadest portfolio available in market Acquisition focus to broaden offering to solve customer problems PES/PVDF pUF/ sUF Systems 	 Breakthrough in RO technology with patent position Strong value proposition in core and attractive markets Significant improvements in recovery, brine concentration, footprint, energy savings, & self operated 	 Resins Market and Technology leader Broadest portfolio serving multiple markets Highest product quality and global footprint 	 Leading player with global scale Unique membrane chemistry and element design Dry sea & brackish water RO technology High-throughput manufacturing Quality & consistency Filmtec[®] brand 	 "Virtual JV" to bring DIC membrane contactor to water Strong need due to competitive situation and market growth Initial offering with product line growth over time





Swagelok Singapore

- Authorized Sales and Service Center in Singapore for products manufactured by Swagelok
- Recognized solutions provider for fluid system components
- Synonymous to reliability in a myriad of industries like Power, Petrochemical, Oil and Gas, Semiconductor, Aerospace and Pharmaceutical.
- Team consists of engineers with wide-ranging industry experience and highlyskilled and dedicated associates providing timely delivery, efficient support, and technical expertise.

Contact Persons:

Michael Wong, Sales Manager – <u>michael.wong@swagelok.com.sg</u>

Ashwin Baliga, Head of Business Development – <u>ashwin.baliga@swagelok.com.sg</u>

Gretchen Francisco, Sr. Marcom Executive – <u>gretchen.francisco@swagelok.com.sg</u>

43















Products and Services

- Filters
- Fittings
- Grab Sampling Systems
- Hoses & Flexible Tubing
- Leak Detectors, Lubricants, Sealants
- Measurement Devices
- Mechanical Seal Support Systems
- Quick Connects
- Regulators
- Sample Cylinders
- Tubing and Tube Accessories
- Valves
- Welding System



Training



Fabrication



Onsite Services





POWERCHINA ranked 161th among Fortune 500 in the year 2019.



In 114 Countries and Regions 410 Overseas Branches & Representative Office





Sinohydro (Singapore Branch) established at 2011, focusing on Civil Engineering and Infrastructure Construction all kinds in Singapore. Adress: 3 International Business Park, #04-23 Nordic European Centre Telephone:68991683 Email:enquiry@sinohydro.com.sg



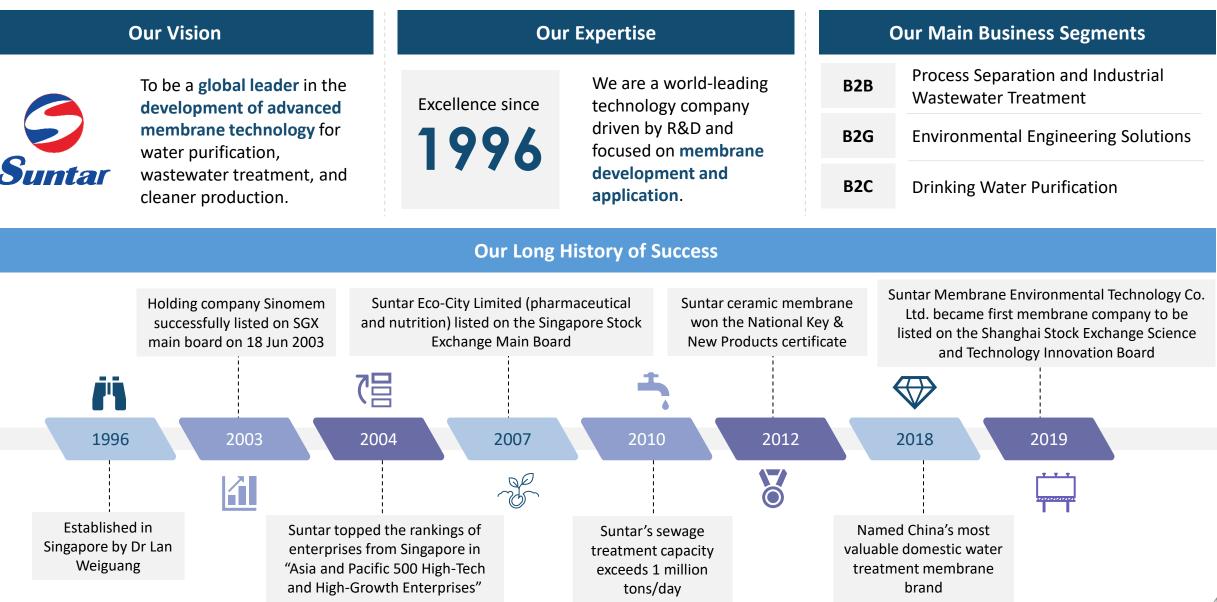
C3C:Tuas Water Reclamation Plant(TWRP) - Domestic Liquids Modules Civil and Building Services Works



About Suntar

Established in 1996, Suntar International Group has become an international leader in R&D membrane development and application.





Achievement and Clientele



Our Accolades and Achievements



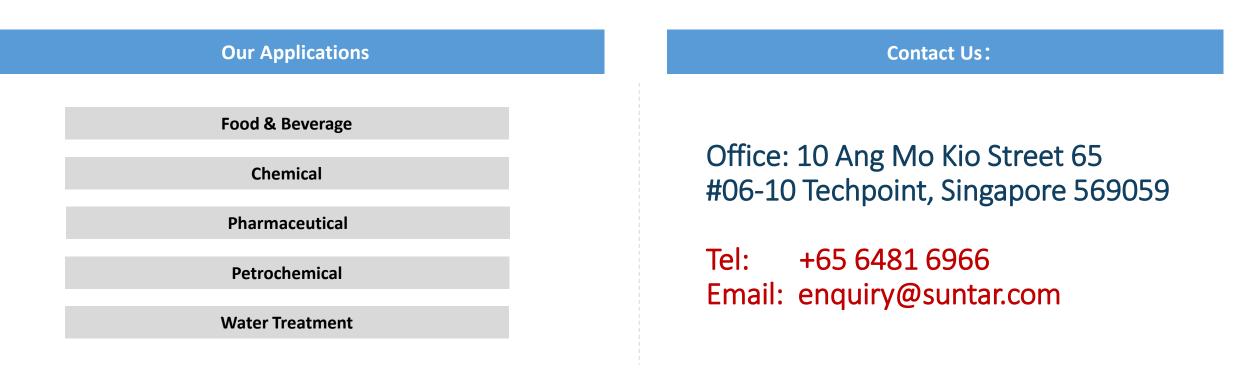
150+ Authorised Patents



500+ Membrane Applied Processes



30+ Wastewater Treatment Plants in China



Tialoc Group

Unique environmental technology provider offering turnkey solutions to industry clients across the world

Who are we?

- Established in 2001, Tialoc Singapore Group ("**Tialoc**") is a Germanoriginated group with a proven track record in providing turnkey solutions to its industrial customers in the field of plants and facilities, environmental technology systems as well as composite process equipment
- It is mainly engaged in the following business segments:
 - Environmental Technology
 - $\circ~$ General Contracting
 - Composite
- Tialoc serves a wide range of multinational companies ("MNCs") and large local customers in key industrial markets, especially in:
 - Waste-to-Energy ("WtE") and renewable energy
 - $\circ~$ Chemical / Petro-Chemical
 - o Pharmaceutical
 - o Fine Chemical
 - \circ Semiconductor / Electronics

Company highlights



Offices in Singapore, Malaysia, China and Vietnam, Belgium

Manufacturing facilities in China

References in all major Asian countries and the rest of the world with selected key accounts



961 Employees

from 14 nations and regions

70% male, 30% female



Performance

- Revenue: ~SGD277mn (FY2019)
- Projects: 500+
- Clients: 200+
- Countries: 20+



tial 🖉 c

Environmental Technology

Tialoc has extensive know-how on hazardous waste treatment systems and project experience in gaseous, liquid and solid waste streams



Selected process technologies

Technology	Adsorption, absorption, oxidation	Oxidation, chemical and biological treatment	Oxidation
Solutions provided	 Thermal oxidizers Catalytic and non-catalytic DeNOx Flares Scrubber systems Odour control 	 Chemical & biological treatment Sludge processing & dewatering Thermal oxidizers Catalytic oxidisers 	 Hazardous waste treatment Rotary kilns Waste handling & storage Steam generation and energy recovery

• With its broad process engineering expertise in waste treatment technology, Tialoc is able to customize and deliver turn-key solutions.

• Contact Person:

Brian Lee (Business Development Manager) Email: <u>brian.lee@asia.tialocgroup.com</u> Phone: +65 9023 2835

tial *o* c

WABAG GROUP

Complete Solution Provider in Water & Waste water Treatment Plants

Indian Multinational player in the water treatment industry – presence in 4 continents

Provides a complete range of Water and Waste Water Treatment solutions

Offering spanning across Municipal Drinking Water, Municipal Sewage, Industrial Water, Industrial Effluents, Desalination and Recycle

Technology focused company - Owns more than 100 patents

R&D centers located in India, Austria and Switzerland

Strong execution track record - More than 2300 projects in last 3 decades

Professionally managed Company with Promoters having an average of 30 years work experience in the industry



- WABAG Singapore was earlier the holding company. In 2015, Singapore became operating company.
- We are doing Service and Maintenance with operation support of all the waterworks and waste water plants of Public Utilities Board (PUB) and EPC Projects in Singapore
- CONTACT DETAILS
 - PRABAKARAN BOOPATHY
 - **REGIONAL HEAD**
 - VATECH WABAG SINGAPORE PTE LTD, 84 Toh Guan Road East, 03-10
 - Singapore water Exchange, Singapore 608501
 - Phone: +65 81469040
 - Email : b_Prabhakaran@wabag.com



Quality in Service Quality in Supply ... Since 1987

AHF INDUSTRIES



AHF Industries is a full multi-discipline organization for valve supplies/repairs, valve automation and control solutions; for the Water Treatment, Marine, Petro-Chemical, Refinery, Power Generation, Mining and Oil and Gas Industries.





Head Office : No. 2 Kallang Pudding Road #07-12 & #06-05/06 Mactech Building, Singapore 349307 Tel: +65 6748 8108 Fax: +65 6748 8917 <u>Contact Details</u> Henry Neo / Alvin Lee Email : <u>henry@ahfindustries.com</u> Email : <u>alvin@ahfindustries.com</u> Website : www.ahfindustries.com







We supply a variety of product lines to meet the valve automation requirements of any industrial field.



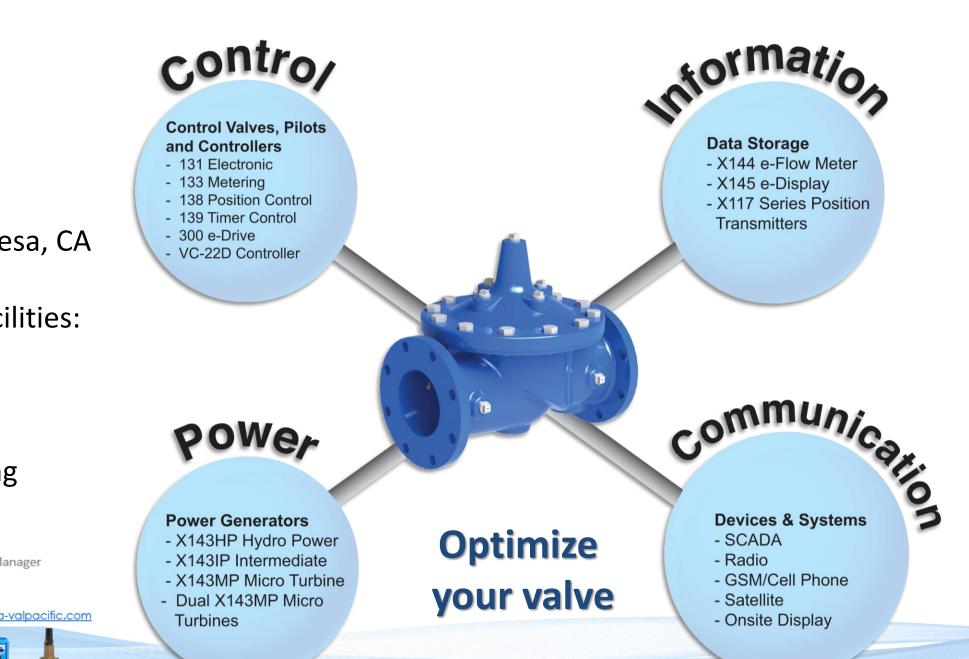


Found in 1936 HQ in Costa Mesa, CA

Production Facilities:

- US
- Canada
- Switzerland
- New Zealang

Wee Kee, TAN | District Sales Manager Cla-Val Asia Pacific Ltd Contact: | M: +65 9179 8177 | E: wktan@cla-val.comW: www.cla-valpacific.com





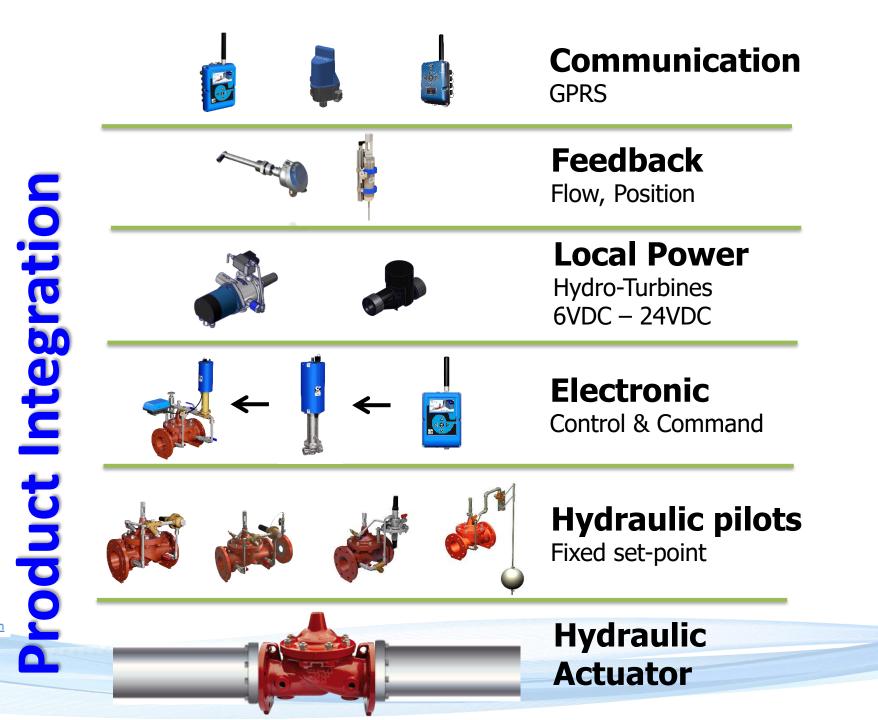
Link2Valves



Available on the App Store

Wee Kee, TAN | District Sales Manager Cla-Val Asia Pacific Ltd

Contact: | M: +65 9179 8177 | E: <u>wktan@cla-val.com</u>W: <u>www.cla-valpacific.com</u>





Crystal Clear Environmental

 Crystal Clear Environmental is a wastewater treatment & water purification Singaporean company. Our core business is in municipal wastewater treatment, Industrial wastewater treatment & water purification.
 We conduct business mainly in China, Myanmar and Singapore.





CRYSTAL CLEAR ENVIRONMENTAL PTE LTD

Engineering since 2015

Engineering Proc	urement Construction Division(Since 2015)
Business	
	Portable Water purification systems,
	Waste Water treatment solutions,

Modular systems or customized EPC water Systems

Industrial Wastewater Solutions

Cloud Based Platform Systems Division (from 2018)

Business

Customers

Product

Remote monitoring & Algorithmic based control platform AI learning capabilities & feedback control (under development)

Customers

B2B/B2G

B2B/B2G

TM@54, 54 Lorong 23 Geylang, #03-01, Singapore 388380 | www.crystalclear.com.sg | jia@crystalclear.com.sg | T +65-6748 0910

Product In-house cloud platform Customizable data visualization & analytics of water treatment plants Remote control of water systems & preventive maintenance

Asia Office of Ecological Laboratories Inc., USA



ical Laboratories INC.

The most complex microbial consortium

- Consists of aerobic, anaerobic, facultative, chemotrophic and Photosynthetic
- Degrade most difficult organic compound such as protein, fat oil and grease that most indigenous bacteria cannot do
- Very effective denitrification bacteria that helps to control nitrate and prevent sludge accumulation
- 3 years shelf life without the need to keep in cold storage
- No preculture process required, shake, open and pour directly- Easy to Apply

Benefits

- Rapid Startup & System Recovery
- Improve Solids Settling & Reduces Sludge
- Reduces BOD, COD and TSS in Final Effluent
- Improve Nitrification
- Improve Cold Weather Performance
- Solves your most difficult waste management problems when used in a controlled maintenance program
- Significantly Reduces Waste Odors
- Digests Solid Organic Waste & FOG
- Reduce Organic Dyes in Textile Plants
- Improve WWTP Capacity and stability



Wastewater Case Studies

Textile CETP - Bangladesh



- Biological System consists of 2 aeration tanks total volume 21 000m³
- The CETP heavily depends on ECR
 to meet effluent standard very high
 cost
- Microbe-Lift[®] Augmentation was introduced in Feb 2020

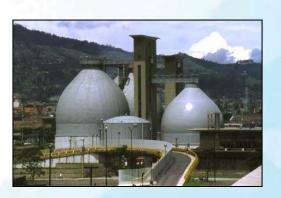
ECR Cost Comparison

	Without Microbe-Lift®	With Microbe-Lift [®]
Electricity Cost per m ³	4.49 BDT	1.72 BDT
Steel Plate per m ³	6.51 BDT	3.53 BDT
Sludge Handling per m ³	0.36 BDT	1.08 BDT
Microbe-Lift [®] per m ³		1.75 BDT
Total per m ³	11.36 BDT	8.08 BDT

Note: USD 1 = 80 BDT, saving USD 1000 per day

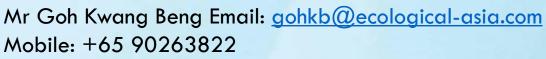


Municipal Anaerobic Digester, Pusan - Korea



- Flow 1,644 m³ per day
- Dosage 2.5 gallon
 Microbe-Lift[®] IND per
 day

Contact Detail:





- Increased efficiency from 29% to 56%...93% improvement
- Doubled Methane production
- Eliminated H₂S
- Reduced Sludge Handling Cost
- Reduced need for Polymer Flocculants
- Net Gains of US\$ 1,400 per day





Visit our Platform site at www.supersoniq.com

CONTACT: mark.hesling@fiber-sense.com

FIBERSENSE



Dr Mark Englund Founder, CEO & Executive Director

Founder of Fiber Sense Pty Ltd as well as PhD in the core technology of Fiber Sense Pty Ltd

25+ years experience in optical fiber technology engineering and business building.

Former founder and CEO of optical fiber component company Redfern Optical Components Pty Ltd and Former Vice President of Strategy and Business Development at \$25B NYSE listed TE Connectivity

20+ years experience investing in& building private market growth businesses with a deep focus on IT, data communications. and energy companies in the US, Western Europe,

Business Development

Executive Director

region.

Deep technology

company in fiber,

photonics and

acoustic signal processing

Simon Lee

Asia and the MENA

Graduate of the University of Texas at Austin and the Harvard Business School.

13+ years in the Fiber/ Cable industry. Previously COO for Superloop and GM Operations for PIPE Networks and PIPE International.

> Matt holds a Bachelor of Education from Middlesex University where he specialised in Information and Communication Technology.

city in the world

Matt Whitlock General Manager

Previously Director level roles at Vocus Communications, NextGen Group, ASC International, Powertel and Optus

centralised real time Index of all movements and events in cities as a service

Is delivering the first



Raj Jayawardena VP Sales & Marketing **SVP Business** Development

20+ years experience in 25+ years experience in optical fiber technology optical fiber carrier and telecoms sales. and communications business.

Previously VP business development roles at NYSE listed TE Connectivity and SVP of Global Sales for NASDAQ listed Commscope.

Dr Mark Hesling

Gideon Yoffe **VP** Photonic Engineering

25+ years experience in photonics and laser design

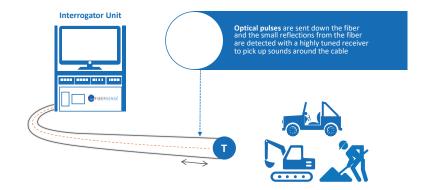
Previously at Santur, Kiama, RIO, Australia Photonics Cooperative Research Centre

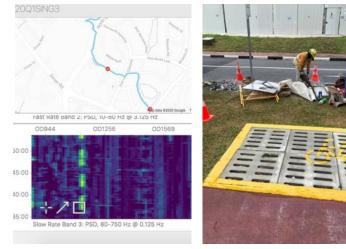
Gideon holds a PhD in Electrical Engineering from Stanford Universitv





Fiber Sense > Suite of Services DigitalCity[™] and DigitalAsset[™]





DigitalAsset Deployment in Singapore: Detection 4 March 2020 – Jackhammer verified. (Cable depth 1.2m; Activity lateral offset to cable/water pipe: 23m)

Example: DigitalAsset[™] - Protecting Critical Infrastructure

Fiber Sense DigitalAsset™ provides real time 24x7 asset protection via automated excavation detection, protecting linear assets (Water, Power, Telecoms, Roads, Gas, Fuel) from excavation damage in high clutter urban environments.

For Water Infrastructure

- Fiber Sense provides real-time threat warnings, excavation alarms, asset-intrusion alarms, asset protection via threat mitigation

- Fiber Sense is developing ubiquitous leak detection

Fiber Sense DigitalAsset™ can be deployed over existing telecom infrastructure or other fiber infrastructure.



DigitalAsset[™] Introduced

First automated system to interdicting on real threats effectively and **starts reducing** asset damage risk on day 1



Easy to verify performance with deployments across range of asset owners within **Asia Pacific, Europe** and the USA



First solution that actively monitors its false alarm performance

DigitalAsset[™] brings Asset Patrolling into the Modern Era: Always On Everywhere.



Nanos Water System LLP

Cat Neo 98517739 catneo@nanoswater.com https://nanoswater.com.sg/

About Us

- More than a decade in Water
 Filtration Business
- Strongly believe in good aftersales service
- Customer is our priority

Our Customers





Nanos Water System LLP



We Are Worldwide Integrated Global Platform Across Various Industries



Knowledge & Service centers

Service Centers

1000 Employees

Head Office in Montreal, Canada

15 Locations / 50,000 installations



Ovivo's mission is to provide sustainable and efficient water treatment solutions to our customers through expertise and innovation.

page

065

Contact: Mr Andrew Lau General Manager, Ovivo Singapore Pte Ltd 10 Ang Mo Kio Street 65, #01-05 Techpoint, Singapore 569059 P: +65 6743 0338 C: +65 9832 2285 F: +65 6743 0339





Our Products

SEAWATER INTAKE SYSTEM

- Drum Screen
- Band Screen
- Static Screen
- Stop Gates

CONDENSER AND COOLING CIRCUIT

- Debris Filter (Self Cleaning)
- Automatic Tube Cleaning System
- Condensate Polishing System

DIGITALIZATION OFFERING

- WaterExpert ™
 - Remote monitoring
 - Big Data
 - Cloud base
 - Preventive Maintenance
 - Cost Saving

HIGH STRENGTH WASTEWATER TREATMENT

- Ceramic Membrane
- HF Wastewater Treatment
- Oily Water Treatment

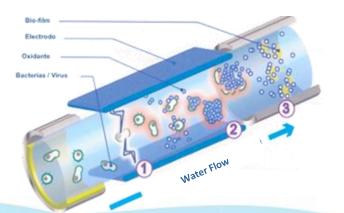
Pure Active Water Pte Ltd – An innovative technology



Our patented ActivH₂O technology is based on electrolysis and eliminates viruses and bacteria from water without adding chemicals, generating a natural oxidant that remains in the water for several weeks, protecting water from re-contamination

3 Stage process:

- Forms an electric field that temporarily modifies the pH around the electrodes and destabilizes the viruses and bacteria of the water
- Destroys viruses and bacteria as they pass through the electrodes, thanks to the impact of electricity
- Generates a natural oxidant that remains for several weeks in the water thus avoiding possible recontamination



Competitive and sustainable advantages:

- Safe water: eliminates viruses, bacteria, and removes biofilm that impair water quality
- **Chemical-free**: pure and disinfected water without using chemicals
- Bactericide: generating natural oxidant in the process provides safe water with disinfectant power, which can be monitored.
- Cost Efficient: Low electricity consumption, recycle water, reduce cleaning time
- Protective: does not alter water composition thus respecting its original nutrients

Dr Emmanuelle BUCAILLE - emmanuelle.bucaille@pureactivewater.com - www.activh2o.net

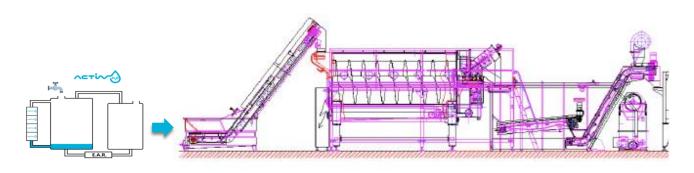
Pure Active Water Pte Ltd – A bespoke eco-responsible solution



ActivH₂O PRO is our compact and robust equipment adapted to all use of installations providing:

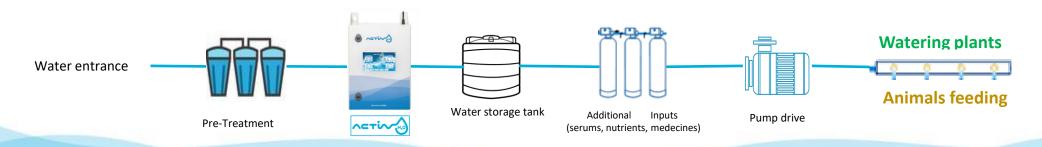
- Safe water for Hospitality, Buildings, Agriculture, Tech Farm and Indoor Farm, Livestock
- Sanitised solution for Industries, Food and beverage Processing Lines, Cleaning Processes

Industry: Cleaning Processing Line





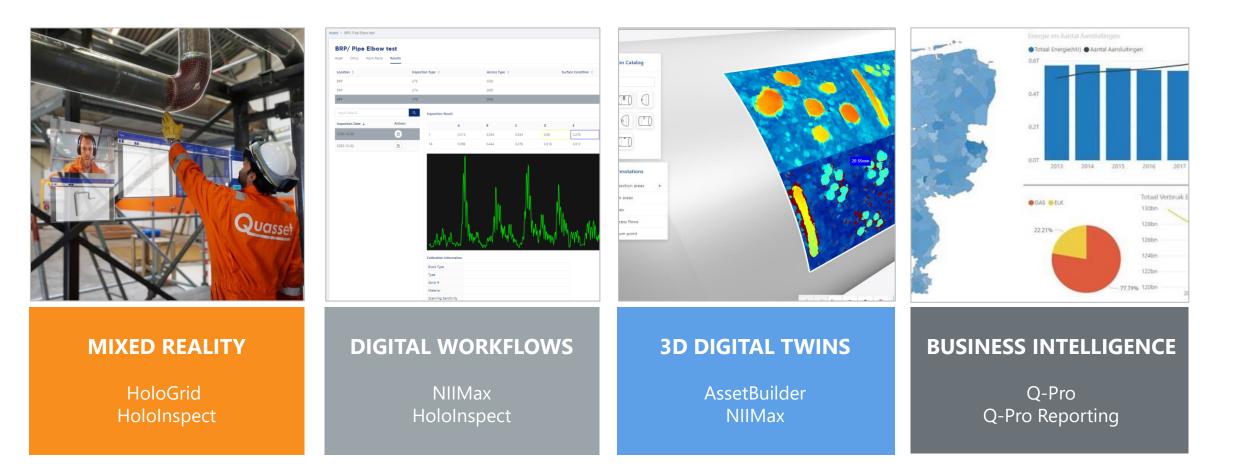
Agriculture and Livestock



Dr Emmanuelle BUCAILLE - <u>emmanuelle.bucaille@pureactivewater.com</u> - www.activh2o.net



Quasset Digital Toolbox





About SEPCOIII



> SEPCOIII: What we do

- Builds, operates, and invests in:
 - ✓ Water desalination plants
 - ✓ Power plants 70 GW
 - ✓ coal/ gas,
 - ✓ Solar & wind
- Revenue 2019: ~USD 3 billion

> Headquarters

- ✓ China: Qingdao
- ✓ MENA: Dubai
- ✓ APAC: ?

Group

- > Parent: **PowerChina** (listed)
 - ✓ 2020: 157th on Fortune 500
 - ✓ 2019 Global Contractor: ENR: 5th
 - ✓ 2019 Group revenues ¥0.47 trillion
 - ✓ Employees 186000
 - ✓ Patents: 12000+
 - ✓ Rating: Moody's Baa1; Fitch A-

SEPCOIII: Track Record, a sample



Desalination plants

- ✓ Rabigh3 IWPP, 132 MIGD, Saudi Arabia
- ✓ Jubail 2 88 MIGD Saudi Arabia
- ✓ Taweelah IWP, 200 MIGD, Abu Dhabi

> Oil/ Gas-fired Combined Cycle Power Plant

- ✓ Yanbu-III 5×660MW IWPP, Saudi Arabia, COD 2020
- ✓ Sirajganj 400MW, Bangladesh COD 2019
- ✓ Yangon Thaketa 110 MW, Myanmar, COD 2018

Renewable

- ✓ Wind/ Solar: 100 projects
- ✓ Concentrated Solar Power
 - ✤ Noor 2 (200 MW, Parabolic),
 - Noor 3 (150 MW, Heliostat)

Coal-fired Power plants

- ✓ Mundra (III, IV) 5x660MW, India, COD 2012
- ✓ S. Alam Chittagong 2x660MW, Bangladesh (U/C)
- ✓ Kalbar 200MW, Indonesia COD2020

Connect:

Ahmad AYAZ 简迈德 Whatsapp/cell: +65 96225626 WeChat: ayaz-lucknow ahmad.ayaz@sepco3.com



SOLIDHEAT[®] at a Glance

- SOLIDHEAT[®] established since 1996.
- Core business: Supply top quality Industrial Heaters, Chemical Pumps, Filter system, Rectifiers and Instrumentations, Sensors for Surface Treatments, Semiconductor, Aerospace and Water Treatment industries with value added technical support and inhouse after sales engineering service.
- Employees : 20 (2019)
- Subsidiaries: Hendor PE Asia Pacific Pte Ltd , PT IndoSolid Indonesia , PE China
- Service Centre: Singapore, Malaysia, China-Shenzhen, China TaiWan.
- Kelvin Soh Sales Director

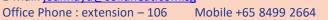
 E-Mail: kelvinsoh@solidheat.com.sg
 Office Phone : extension 103
 Mobile +65 9001 8516

 Jimmy Leong Regional Sales Manager

 E-Mail: jimmyleong@solidheat.com.sg
 Office Phone : extension 115
 Mobile +65 9856 8113

 Joanna Yu Local Sales Manager

 E-Mail: joannayu@solidheat.com.sg









www.solidneat.com



OUR PRODUCTS IN WATER TREATMENT

(AOP)
 Electro-Deionization(EDI)
 Electro-Desalination
 Electro-Dialysis (ED)
 Ballast Water Treatment

for

OPTIMUM



High Quality MMO or Platinized Special Titanium Anodes for

Switched Mode Technology Air or Water Cooled DC Power Supply

Electro-Chlorination(EC)

Advanced Oxidation Process

Electro-coagulation

treatment of potable water, process water and wastewater,

- Electrodialysis, (reverse) electro deionization
- Softening of water, de-scaling
- Direct or indirect oxidation and break-down of organic contamination or cyanide
- Removal of small solid particles by means of electroflotation
- Membrane processes





Flange Immersion Heater in CIP Tank



High quality, performance, reliability, efficiency and sustainable water, chemical pump and filtration systems



... since 2004



satisfied households and families in Asia alone" "Our passion for water makes us go extra mile for customers who look for premium quality and sustainable solutions."



Swiss Natural Drinking water directly from your tap.

Easy operation and lower cost without compromising quality of drinking water. Trusted by many Corporations across the world.





RESIDENTIAL

CORPORATE

One Stop Drinking Water Solutions for guestrooms, MICE, F&B's and other facilities. Impress your guest with a touch of luxury, comfort and well-being.

Trusted by:

Singapore swissôtel THE STAMFORD SINGAPORE





OUTDOOR & MARINE

"Smart, Safe, Simple Swiss solutions."

MARINE

Finest quality, most energy efficient, quietest and easiest to use water makers in the world which works reliably when you need it."



LEISURE



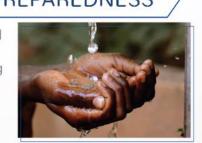
NGO

Large or small, NGOs around the globe recognize and rely on the Katadyn Group for achieving their best performance and sustainable results.

影響

PREPAREDNESS

Being prepared for the worst situation during emergency. Better be safe than sorry.





Trusted by:

MILITARY



SWISSPRO PTE LTD (KATADYN SINGAPORE) | 15 Jalan Kilang Barat, Frontech Centre #04-07 S 159357 | +65 6276 1005 | info@swisspro.sg | www.swissprowater.com | www.katadyngroup.com/en/ch |

About Us



Viscov is a specialist supplier of Remote Visual Inspection (RVI) Equipment and Solutions since 2014.

With a comprehensive portfolio of RVI equipment and years of experience working with our customers.

We are in the unique position to help identify and supply the best equipment to overcome your inspection challenges.

Professional Advice



Equipment Suitability, Bespoke Solutions, Deployment Method, On-Site Trial



Lee YiQuan | +65 9277 6616 | yiquan.lee@viscoy.com



Covering Wide Range of Industrial Applications









Training Support



Classroom and hands-on equipment operations

After Sales Support



Repair and Maintenance

Inspection Equipment & Solutions

VISCOY

Portable RVI Systems



Industrial Endoscopes / FOSAR

- Engines & Gearboxes ٠
- Heat Exchangers ٠
- **Boiler Tubes** ٠
- Precision Engineered Parts ٠
- Turbines ٠
- . Airframe
- Special Environment (ATEX / Hi Temp)
- Police / Tactical / Search & Rescue ٠



Ground-Based RVI Systems



Push Cameras / Crawlers

- Petrochemical Product Piping/Pipelines ٠
- ٠ Seawater Pipelines
- ٠ **Boiler Tubes**
- Water Piping / Pipelines ٠
- ٠ Sewage Lines
- Storage Tanks ٠
- Special Environment (ATEX)
- •



Aerial RVI Systems



ELIOS 2 Indoor Drones

- Storage Tanks
- Ballast Tanks (Marine)
 - Chimney
- Furnace
- HVAC ducting
- Lift Shafts .
- 3D Modelling .
- Public Safety



Remote Corrosion Monitoring



SmartPIMS / MicroPIMS

- ٠ **Overhead Lines**
- Natural gas lines
- Vessel Monitoring
- Underground lines .
- **Corrosion Management** .
- Corrosion Rate Analysis ٠

Bespoke Solutions



Customized Solutions

٠ Designed to improvise and aid standard equipment for challenging inspection applications







٠

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- ٠
- Search & Rescue

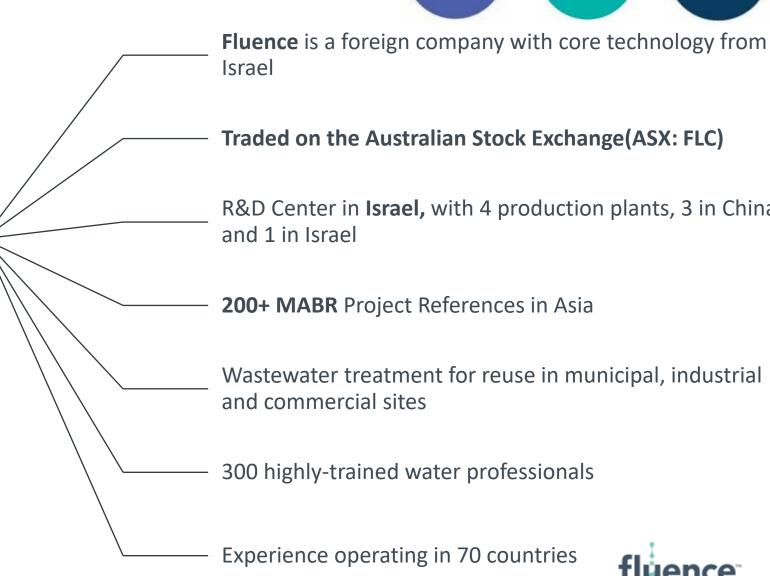
fluence - Value from Water



Merging global innovators with a field-proven execution team to deliver breakthrough water technology solutions to the world



Proprietary and confidential information © Fluence 2021



R&D Center in Israel, with 4 production plants, 3 in China

200+ MABR Project References in Asia

Wastewater treatment for reuse in municipal, industrial

300 highly-trained water professionals

Experience operating in 70 countries



Fluence's Smart Decentralized Solutions for Water & Wastewater Treatment







MABR Aspiral[™]: treats wastewater for communities from 50 to 35,000 people

NIROBOX[™]: potable water for communities of 3,000 to 500,000 people

MABR SUBRE: treats wastewater for communities up to 1 million people

Standardized Building Blocks:

Fast & Easy Installation Low-co

Low-cost Operation

Simple To Maintain Easy To Upgrade

Modular Plants

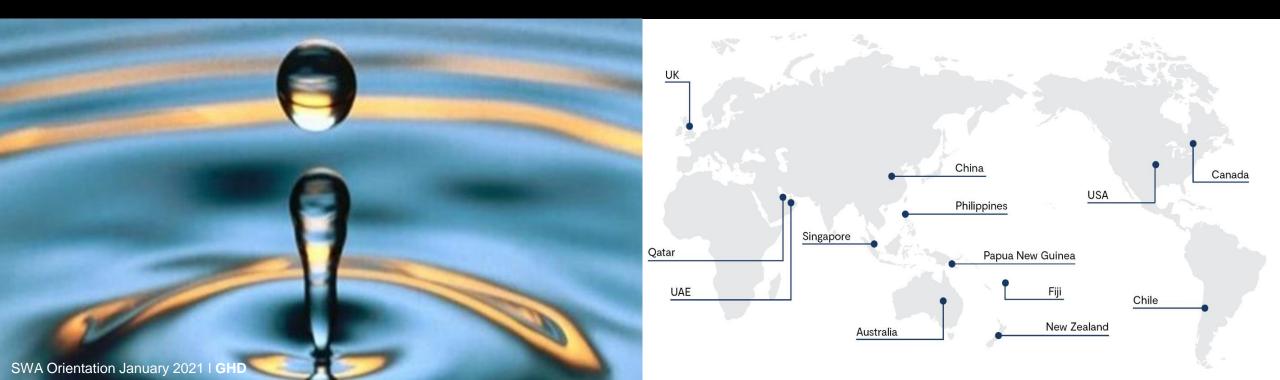


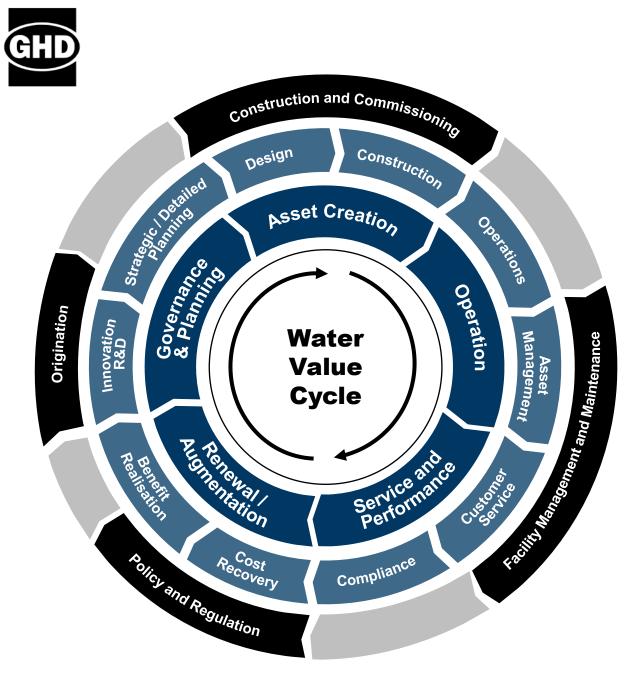
Website: www.fluencecorp.com Contacts: Mr. Peter Wu, Sr. Sales Director Fluence Asia,

peter.wu@fluencecorp.com / Ms. Carol Huang, Marketing Fluence Asia, chuang@fluencecorp.com



GHD is a global professional services company that leads through advisory, environmental, digital, engineering and construction expertise 90+ years in operation
135+ countries served
200+ offices worldwide
10,000+ people
50+ service lines
Focusing on Water, Energy, Urbanisation





Water is a priority

We are committed to solving the world's biggest challenges across the entire water value cycle

GHD has played a significant role in helping develop and implement an Enterprise Asset Management Information System to enable digital transformation and asset performance improvement

Manila Water Company,
 Philippines

GHD undertook a coastal hazard adaptation strategy study to prepare coastal communities for the impacts of projected sea level rise, storm tide and beach erosion risks associated with long-term climate change

 – Queensland's Coastal Councils, Australia

Contact Us

Jason Tok Market Leader Advisory Asia M: +65 8533 3948 E: Jason.Tok@ghd.com

Chris Hertle

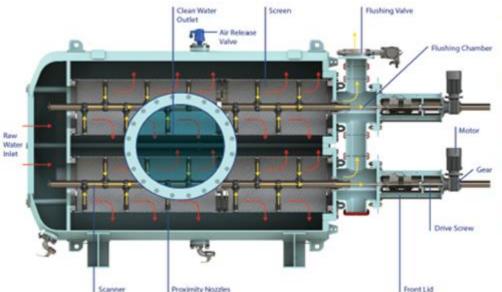
Water Market Leader Advisory M: +61 408 771 253 E: Chris.Hertle@ghd.com





PROVEN RELIABLE TECHNOLOGY





BEHIND EACH FILTERSAFE® UNIT IS A UNIQUELY CRAFTED SET OF PATENTED TECHNOLOGIES, MOST NOTABLY, THE 4-LAYERED SINTERED SCREEN AND PROXIMITY NOZZLE® CLEANING MECHANISM. Eric Woo Regional Director -- Sales Asia Pacific Mobile: +65 984 89856

Singapore Water Exchange, 84 Toh Guan Road East, #02-08, Singapore 608501





SINTERED SCREEN. WEAVE-WIRE TECHNOLOGY.

By utilising unique and exclusive weave-wire sintered screen technology, Filtersafe® obtains unparalleled organic matter removal rates. Filtersafe's fine screen is composed of four sintered, stainless steel screen layers that create a strong, durable, reinforced filtering element, which requires no support.

CLOSE PROXIMITY SUCTION NOZZLES®.

Filtersafe® utilises its Proximity Nozzles® patented technology to efficiently and effectively remove organic matter from the filter screen without having to halt system operation.

The Proximity Nozzles® enable a regulated and consistent suction force to clean the screen. This resourceful hydraulic system ensures maximum suction force for removing dirt from the screen whilst minimizing residual water and pressure loss from the cleaning process. FOR FLOW RATES OF UP TO 5,000 M³/HR



Royal HaskoningDHV's mission to **enhance society** by providing consultancy engineering services, digital solutions and software in:

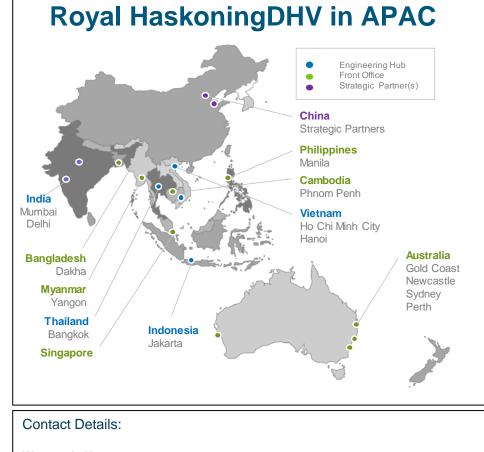
- Water
- Maritime & Aviation
- Buildings & Industry
- Transport & Planning



Workforce of **6,500** in more than **100** countries



One of the top-ranking independently owned engineering consultancy companies



Wouter de Hamer Director Strategy & Business Development Water APAC

M +65 91165648 (Singapore) E wouter.de.hamer@rhdhv.com W www.royalhaskoningdhv.com A Haskoning Singapore Pte Ltd part of Royal HaskoningDHV 991D Alexandra Road #02-14 Singapore 119972



Royal HaskoningDHV Business Line Water

Royal HaskoningDHV in Singapore



ROYAL HASKONINGDHV SIGNS MOU WITH SINGAPORE'S NATIONAL WATER AGENCY PUB TO SUPPORT DIGITAL TRANSFORMATION

A Memorandum of Understanding has been signed between PUB, Singapore's National Water Agency and Royal HaskoningDHV to explore its Aquasuite software applications to support the utility's digital transformation efforts over the next three years.



"PUB recognises that technology and innovation are cornerstones in our mission of supplying high quality water and reusing used water endlessly. This pilot trial demonstrates how digital solutions like Aquasuite can seamlessly digitise and automate our water reclamation operations," said Dr Kelvin Koh, general manager of the Ulu Pandan Water Reclamation Plant

Source: Water and Wastewater Asia magazine, 2020

Recent Consultancy Projects:



Pulau Tekong Design Polder Reclamation



Changi Airport Climate Resilience Study





33 Ubi Ave 3, #04-25 Tower B, Vertex, Singapore 408868. Tel: 63148720 Website: www.sgpglobal.com.sg

Confidential & Restricted Viewing

THE SGP GLOBAL GROUP: OVERVIEW

新源科技有限公司 SGP GLOBAL



新源科技有限公司 SGP GLOBAL

SGP Global Private Limited, the parent company, is an environmentalengineering company that was formed in 2004 to provide clients with design and engineering solutions to treat or recycle waste water for discharge, or reuse, or to be further treated for potable or drinking water.

G

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C

We have the expertise and more than a decade of track record in packaging integrated engineering and financing solutions for BOOT projects in utility treatment plants. Therefore the company is well poised to package such integrated solutions for other infrastructure projects for urban development.

The SGP Global Group provides a one – stop environmental engineering service to meet increasing regulations and challenges within the water and wastewater industry, catering to the building, Operations and Maintenance of municipal industrial water and wastewater treatment requirements.

Since 2006, the group has been granted ISO 9001:2015 for quality management standards and ISO 14001:2015 for environmental management system development.

PLEUGER INDUSTRIES

SHAHRIL AHMAD

HEAD OF SALES – APAC E-MAIL: <u>sahmad@pleugerindustries.com</u> Mobile: +65 8822 2413 Website: pleugerindustries.com



Introduction

Pleuger Industries is an International Manufacturer and Supplier of Submersible Motor Pumps, Plunger Pumps and Thrusters. The equipment are manufactured by our facility in Hamburg, Germany. We have been developing and producing reliable industrial solutions to the highest quality standard for more than 90 Years.

Key Features

- Highly efficient motors and pump hydraulics
- Motor with Water Filled as standard and suitable for VFD operation
- **Cost-effective lifecycle**
- **Zero Maintenance**
- 30+ Years Design Life
- Reliable Operation even under extreme conditions
- Heavy Duty Design
- **Reduced Noise and Vibration**
- **Space Efficient**
- Flexible installation options: Vertical, Horizontal, Inclined and Parallel
- Optional Magnet Motor (PMM) Technology for improved efficiency

Applications For Borehole Submersible Pumps

- Deep Well
- **Bottom Intake**
- Flood Control & Groundwater Management
- Booster
- Cavern -



Parallel

Vertical

(e.g. bore well

installation)

Bottom Intake Pump





Booster pump

in pipeline







(e.g. water extraction from a river)

new members ORIENTATION DAY

8 January 2021, Friday, 3pm to 5pm



Q&A

Singapore Water Association T: (65) 65150812 E: <u>enquiry@swa.org.sg</u> www.swa.org.sg

Media Partner:

WATER & WASTEWATER ASIA



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