# Company Profile SI Membranes, Inc.





Membranes, Inc. heart of pure water

### **About us**

**SI** Membranes is a system manufacturing and marketing company dedicated to serve customers on their water treatment plant election/operation by supplying reliable products at most economical price and speed based on firm technical knowledge and experience of the products.

### History

## Outstanding achievement in membrane application Significant technical support to OEMs Reliable partner of suppliers

- 2006 : Founded as Neosep, a private company
- 2006 : Started to distribute RO, UF, and turbo-chargers
- 2007 : Changed into a corperation, SI Membranes
- 2008 : MBR skid development and installation for Kolon
- 2010 : Sales agreement with Porex for TMF
- 2012 : Supplying TMF to Veolia and Hynix
- 2013 : GS Dong-Hae Power Plant UF Module
- 2014 : Supplying TMF to Samsung Electronics
- 2014 : Inge UF certified for municipal water systems
- 2015 : Participation for an R&D projects funded by government
- 2016 : Supplying TMF 2<sup>nd</sup> unit to Samsung Electronics
- 2017 : Supplying TMF to Signetics
- 2017: Supplying Inge UF T-rack 3.0 (80m2) to Biryong

- 2018 : Supplying Inge UF T-rack 3.0 (80m²) to Gunjang Energy
- 2018 : Samsung Electric UF Module
- 2019 : Samsung Electric TMF 2<sup>nd</sup> Unit Changed
- 2019 : Dae-Ji P&I SW Mobilized UF +RD System
- 2020 : Doosan Heavy Industries Sharquyah PJT

### Experience

Established in 2006 by two engineers who have more than 10years experience in Membrane business;

- YK, Park : Mechanical Engineer, CEO Engineer Worked for RO system manufacturing company as system designer and local sales manager for 28 years.

- Young, Kim : Chemical Engineer Worked for RO Membrane company as technical an local/overseas sales manager for 20 years

Now 4 Engineers work for water and desalination business.



### Certification

### Official approval for R&D

### **Registration for package system design**

### KWWA certification for municipal application

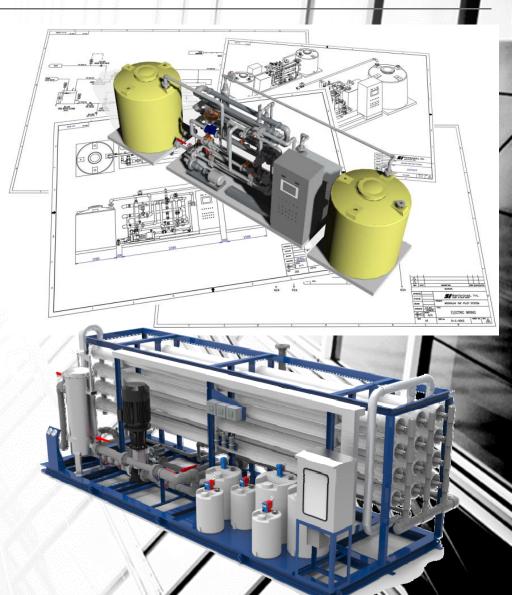
제 2013113447 # 기업부설연구소 인정시	KWWA CERTIFICATE	디자인등록증 CMTRAIT 07 05504 (MGTMATION 8 주 제 30 07793587 호	디자인등록증 CRITICATI OF DISIZA MARSTANDON 응북 개 30-07793309 호
1. 연 구 소 양: (주)에스이이행브레인 기업부성연구소 [소속기업양:(주)에스아이행브레인] 2. 소 제 지: 광기 사용시 왕용동 1234-7 사용한이태크 415호	This is to certify that the Karea Water and Wastewater Works Association Standard(WWW) Mark of : INGE-GMBH Purstr. 72, 8045 Ordiomberg, Germany	Notes         N 30-2014-0013643 ⊉           Notes         2014/2 07% 09%           Res         2015/2 07% 09%           Res         2015/2 07% 09%           Res         2015/2 07% 09%           Res         2015/2 07% 09%	Approximitation         All 30 - 2014-0033564 g           Million         2014/6 07% 09%           Million         2014/6 07% 09%           Million         2015/6 03% 17%           Gellion         24 - 4 g - 6
3. 신고 연물일: 2013년 8월 7일	Mr. Brumo Steis has been approved by KWWA to the following KWWA Standard	문용주 Case 제23주 다진전 대답의 약은 문을 munit 식수중 수체리기	학교 가방에 소재 2000년 19년 19년 19년 19년 19년 19년 19년 19년 19년 19
「기초연구진홍 및 기술개발지원에 관한 법률」제14조, 같은 법 시행명 제16조제1항 및 제27조제1항에 따라 위와	KWWA F 108 Microfilization and uttraffication membrane module for water supply • This inten micro XL 0.040 70 • Code 1.997 • Structure i Midner Fiber • Type i Pressuring Type • Membrane States Area : 70 m <sup>2</sup> • Membrane Marriel : PES	이전 전 두 10mm (여)해수석(100mmAPEUDIALLI-2000年年) 전기도 시출시 사회인과 우리, 433(일상품·시전적이제조약류전역프로함률임) 전인은 10mm 전문 (275827.6.1000年7)	다가들과 1mm (주)에스-다이플크레한(130111-3mmm) 업가도 사용사 사람보호 가지,455년왕홍,시35년아이레크더레도왕공왕) 보인단 (mm 방원국(155724-4mmm)
같이 기업부실연구소로 인정합니다.	Summain Structure Standard Standardization Act and Revenue of the Reveau Industrial Standardization Act and RWWA Standard Cartification Regulations.	8기도 시용시 유가전등로 444 100% 4048(1일등을 힘드려여죠) 위의 디자인은 「디자인보호법」에 따라 디자인등록형부에 등록되었음을 중영합니다.	경기도 시용시 육구인동로 44, 100% 6462(128%, 일드(14조) 위의 디자인은 「디자인보호법」에 따라 디자인등록원부에 등록되었음을 중경됩니다.
한국산업기술전 <b>8억역</b>	Certification Date : 28-Aug-2014 Certificate Number : XWWA-14-028 Certified by	This is to cartly that, in accordance with the Design Protection Act, a design has been registered at the Knewn Intellectual Property Office. 2015년 01월 17년 특히 현 32 Constructions Intellectual Property on 문화한	This is to certify that, in accordinge with the Design Protection Act, a design has been registered at the Korean Intellectual Property Office. 2015년 01월 27일 문화 전 전 Construction, Reportery on 문화 전
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		excern standard or and a stand	
2013~ R&D center	2014 ingeGMBH	2015	i De Deupe Protection Act a design schul Property Office.
(Registration 2013113447)	Approval for municipal use (KWWA-14-038)	Package system design (Registration 30-0789	

### **Human Resources**

Description	Technical	Production	Management	Total	
SI	3	0	1	4	
KSYS	3	6	1	10	
Hyesung Tech	3	9	2	14	1
G&G	1	2	1	4	

## System engineering

- UF/RO System
- Wastewater Reuse System(TMF)
- Desalinator for Marine vessels
- Mobilized Water Treatment System
- Pilot System for Institute
- Maintenance parts
- 3D Modelling
- System 3D modeling
- 3D Piping
- Output BOM with 3D model
- Optimization design
- Lower defect rate
- Lower cost



## **Partner DUPONT-INGE**

Industries v

Applications ~

Technologies ~

Products ~

Why DuPont

Contact us

Products / inge Gmbh

**OUPONTE** 

Water Solution

### inge Gmbh

Setting new standards in the field of ultrafiltration to achieve our goal of developing smart sources and safe, reliable applications.

#### Preserving our planet's precious water resources and ensuring supplies of clean water

We develop and produce innovative ultrafiltration technology used in the treatment of drinking water, process water, waste water and sea water. Our customers are system integrators which incorporate our ultrafiltration modules and/or pre-assembled rack systems within the overall process flow of their water treatment plants. We are a global company that provides consulting services, high-quality products and specialist support to customers worldwide.

We have completed numerous reference projects worldwide which have confirmed the outstanding performance and durability of our top-quality, German-made products and solutions.

Take advantage of our years of experience and industry expertise and allow our team of ultrafiltration experts to assist you in planning your treatment facility and finding the best solutions to meet your needs.

#### DuPont Closes Four Clean Water Technology Aquisitions

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Extending world-class water purification capabilities to meet global customers' current and future challenges.

### **Partner Porex Filtration**

#### POREX<sup>®</sup> Tubular Membrane Filter Module<sup>™</sup>

Superior strength allows higher operating and backwash pressures for a higher flux and reduced system footprint.

#### >LEARN MORE

#### Solutions Through Material Science<sup>™</sup>

Porex® Filtration Division provides unique solutions to high-solids cross flow filtration and separation problems with microfiltration & ultrafiltration systems.

Our industrial filtration applications include water and wastewater, paints, inks, polishing slurries, catalyst recovery, trap filtration, pulp and paper, metal finishing and completion fluids.

Porex manufacturing plants, located in North America, Europe and Asia, provide both standard and custom components to customers through a global network of sales engineers, agents and distributors.

#### FEATURED PRODUCT | POREX<sup>®</sup> Tubular Membrane Filter (TMF<sup>™</sup>)



Superior strength of the patented\* Porex Tubular Membrane allows higher operating and backwash pressures for a higher flux and reduced system footprint.

The New Colombian Industrial Discharge Requirements

Products Can Help Meet

June Presentation at FIMA: How TMF

CONTACT US

Latest News

Featuring the 20nm TMF at China Water Guangzhou March 24th -26th

Visit Us At These 2016 Exhibitions

Learn More

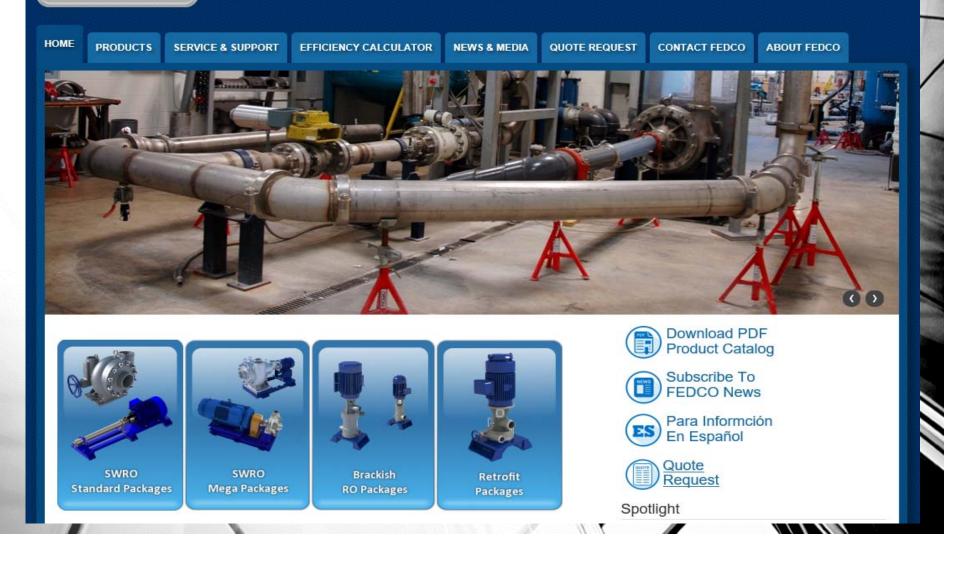
### **Partner FEDCO**



### **Fluid Equipment Development Company**

SEARCH

Making Fluid Energy Work for You

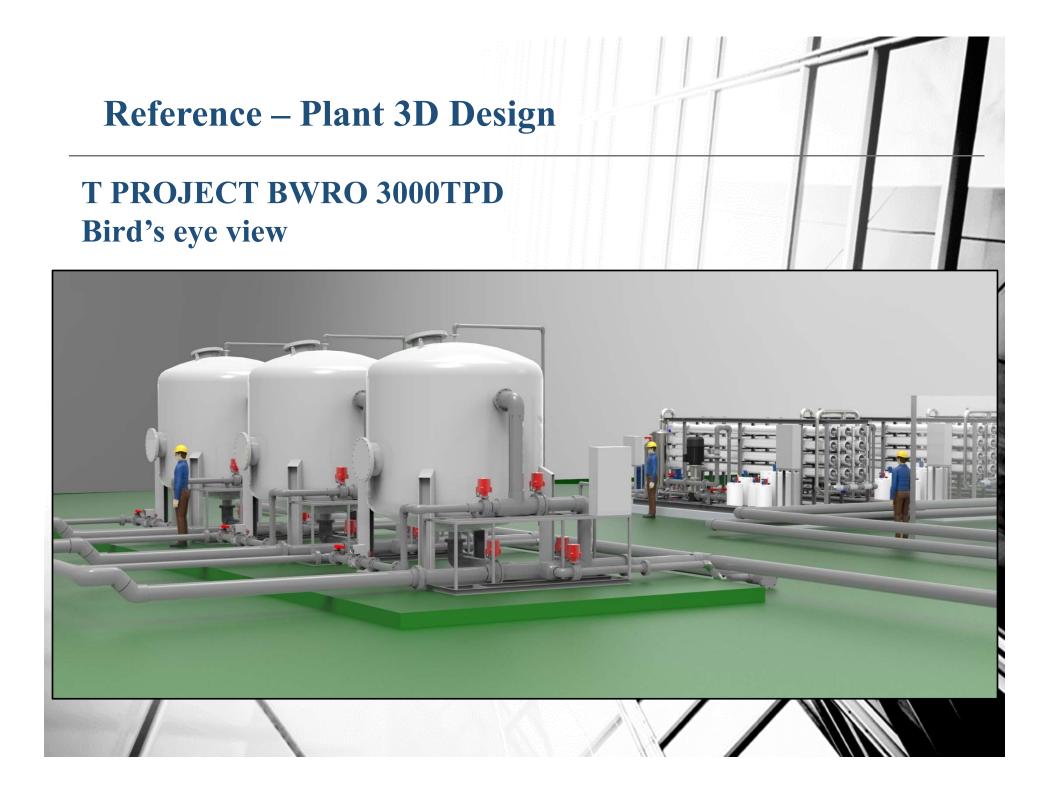


### T PROJECT BWRO 3000TPD Bird's eye view



### T PROJECT BWRO 3000TPD Bird's eye view





### T PROJECT BWRO 3000TPD Bird's eye view



### **MD System (Membrane Distilation)**

Drinking water supply 200m3/day Jul. 2018. / Busan, Korea







### **Reference – Power Plant**

#### Water Treatment

Industrial water supply Gun Jang ERG, 24,000 m3/day Aug. 2018. / Gun-san, Korea





### **Reference – Power Plant**

#### Water Treatment

Industrial water supply GS Power Plant, 2,000 m3/day Mar. 2015. / Dong-hae, Korea



#### Water Treatment

Industrial water supply Hyundai Steel 1<sup>st</sup> Treatment water 1,000 m3/day 2<sup>nd</sup> Treatment water 500 m3/day Feb. 2020. / Seosan, Korea







#### **BWRO** System

Drinking water supply 2,000 m3/day Aug. 2017. / Bangladesh



#### **SWRO System - Containerized**

Drinking water supply 2,000 m3/day (500m3/day x 4 train) Aug. 2017. / Malaysia







**BWRO System - Containerized** 

Drinking water supply 240 m3/day Oct. 2018. / Mongolia









#### **Mobile UF System**

Emergency water treatment 2,700 m3/day Jun. 2019. / Ulsan, Korea







11

#### Package UF+SWRO System

Drinking water supply 60 m3/day Apr. 2019. / Daeji P&I, Korea







#### Mobile UF+SWRO System

Drinking water supply 60 m3/day Jul. 2019. / Daeji P&I, Korea









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#### **SWRO Desalination System**

Drinking water supply - Ship 20 m3/day 2012. 2015 / DongHwa Entec



#### **SWRO Desalination System**

Drinking water supply 10 m3/day Mar. 2016. / WoongJin





#### Mobile UF+BWRO System

Water treatment cartridge type unit Drinking water supply 100 m3/day Jun. 2014. / Myanmar





#### **Mobile UF System**

Water treatment cartridge type unit Drinking water supply 50 m3/day Aug. 2015. / Myanmar





#### Mobile UF System

Drinking water supply 60 m3/day Aug. 2017. / Korea



#### Water Treatment System

Drinking water supply 10~15 m3/day 2015. 2016. 2018. / Guam, Saipan



#### Water Treatment System

Food & coffee water supply 0.5~1 m3/day 2018. 2020. / Korea Muto Roasting plant

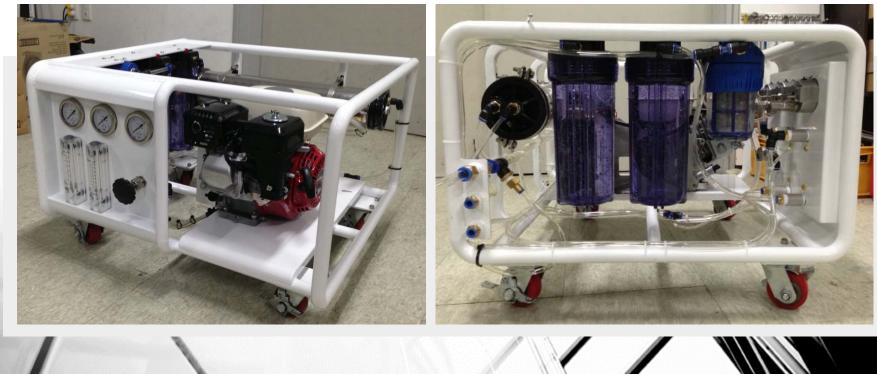


#### Water Treatment System - Emergency

Drinking water supply 0.5 m3/day May. 2015. / Japan Generator Engine Drive Unit







#### **Membrane Inspection System**

Total MF/UF quality inspection system for membrane manufacturer. 2013. Chang won, Korea (LG) 2015. Hangzhou, China (LG)





#### **Membrane Inspection System**

**Total MF quality inspection system** for membrane manufacturer. Oct. 2019. Synopex Inc.





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#### Water treatment - MBR

**KOLON Industries MBR** Yeongdeungpo purification plant 25,000 m3/day 2010. 2013.



# Thank you.

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