

upshift

LG Water Solutions

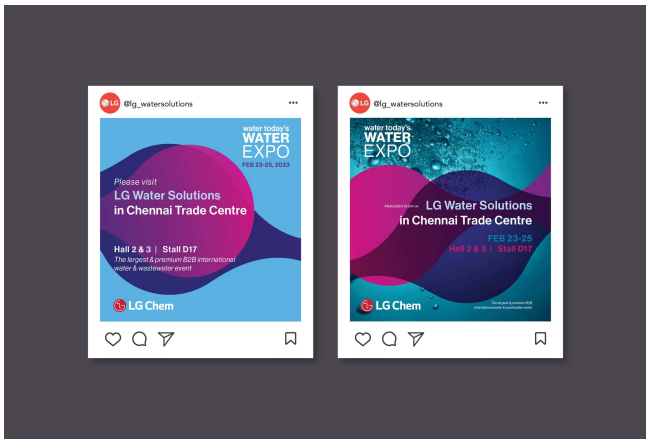
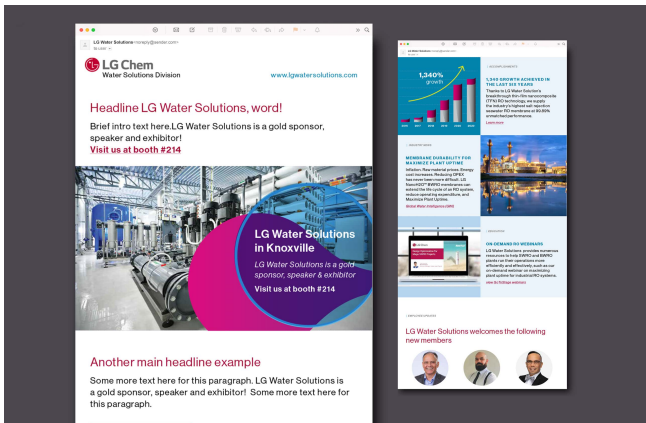
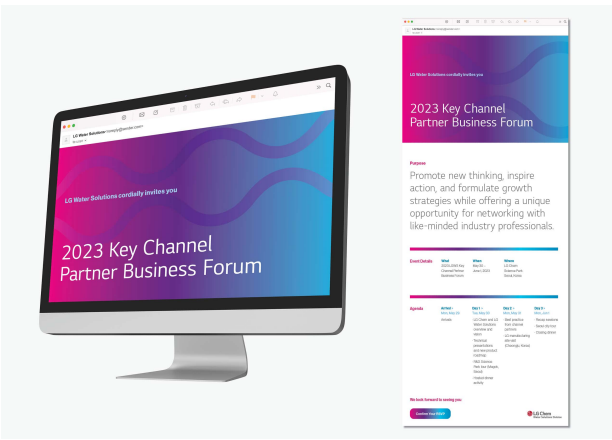
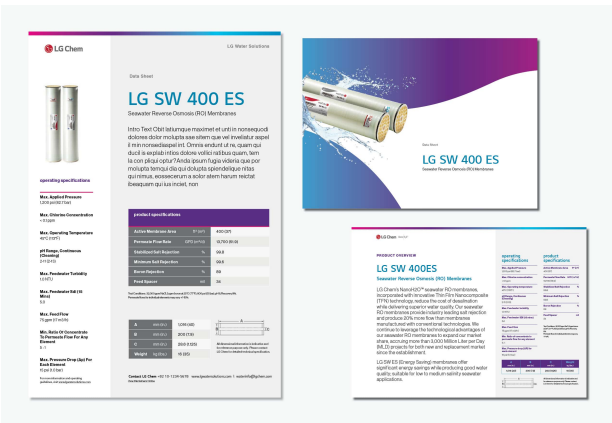
LG engages UpShift as their Los Angeles agency

OBJECTIVE

LG Water Solutions needed a dedicated team in Los Angeles to infuse creativity and consistency into their marketing collateral for its advanced water desalination filtration system.

SOLUTION

We collaborated with LG's South Korean creative department to adapt the new parent brand identity to water division sales and marketing items. We streamlined and standardized collateral, including product spec sheets, case studies, digital ads, social promotions, and trade show materials. Our work ensured a smooth transition to the new brand identity, creating cohesive materials that enhanced the overall customer experience.



LG Water Solutions

Global No.1

in Seawater RO

Nano:H₂O™

LG Water Solutions is a leading RO supplier for mega-2

With the industry-leading highest > 99.89%, LG Water Solutions has secured the seawater market, with over 4,000 I the last three years. Our breakthrough performance reducing the overall co as a leading RO supplier for mega-2

LG Chem

operating specifications

Max. Applied Pressure
1200 psi (82.7 bar)

Partner with LG Chem to strengthen your RO system performance. Email waterinfo@lgchem.com

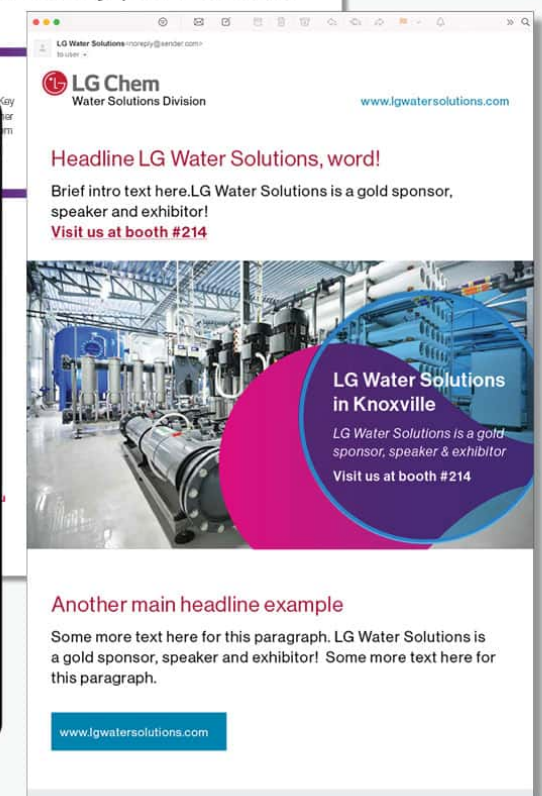


LG Water Solutions cordially invites you

2023 Key Channel
Partner Business Forum

Purpose

Promote new thinking, inspire action, and formulate growth strategies while offering a unique opportunity for networking with like-minded industry professionals.



Global No.1
in Seawater RO







 **LG Chem**

With the industry-leading highest salt rejection SWRO membrane at 99.89%, LG Water Solutions has achieved exponential growth in the seawater market, with over 4,000 MLD accumulated contracted capacity in the last three years. Our breakthrough TFN technology delivers unmatched performance reducing the overall cost of desalination and paving the way as a leading RO supplier for mega-desalination plants worldwide.

Partner with LG Chem to strengthen your RO system performance. Email waterinfo@lgchem.com or visit www.lgwatersolutions.com

LG Water Solutions is a gold sponsor, speaker
and exhibitor (booth 23)! See you in Las Palmas!

Global No.1
in Seawater RO





 **LG Chem**

Strengthen your RO
system performance



Introduction | Challenge

Reliable & Efficient Water Supply is the #1 Global Issue of our day

Optional subhead 3 here
Some more support text here, if needed. Ut mollum quas et sedam, luteo sedam, et sedam, et sedam.

Market Driver
Government regulations and increasing demand of clean drinking water

Water Reuse
Is the fastest growing sector in water treatment

Energy
Is the largest variable cost for seawater desalination

LG Water Solutions | 4

Products | SWRO

PRODUCT OVERVIEW

Seawater Reverse Osmosis (RO) Membranes

Global Project Wins Driven by Performance

- Innovative Thin Film Nanocomposite Technology
- Industry-leading salt rejection
- 20% more flow than conventional membranes
- Reduced desalination costs
- Superior water quality
- Excellent commercial and technical support
- Awarded 3,000+ MLD seawater projects

ISO 9001 ISO 14001 ISO 45001

Products

Salt Water Membranes

Brackish Water Membranes

Products | SWRO

PROVEN RESULTS

LG SWRO G2 outperforms the competition

Mediterranean Sea	Caribbean Sea (single pass)	Arabian Gulf (2nd pass sample)
Permeate quality improved by 31.5%	Feed pressure lowered by 2.5 bar	Energy consumption reduced by 4.7%
Design Condition: Feed water TDS 41,000 ppm, Temperature 20-30°C	Design Condition: Feed water TDS 35,000 ppm, Temperature 20-30°C, TDS <200 ppm	Design Condition: Feed water TDS 35,000 ppm, Temperature 20-30°C

PRODUCTS

Salt Water Applications

LG NanoH₂O™ SWRO Membranes

Next Generation Series (G2)	1 st Generation Series (G1)
LG SW, SR, G2, GR, G2, R G2 Next generation membranes with industry-leading salt rejection up to 99.99%	LG SW, SR, GR, R High-rejection membrane ideal for high feed TDS and high permeate quality requirements
LG SW, SR, G2 Next generation high-rejection membrane ideal for high feed TDS and high permeate quality requirements	LG SW, ES Energy-saving membranes ideal for low-feed TDS and low-temperature seawater applications

About LG Water Solutions | Overview

LG Chem is a leading chemical company that has achieved growth through strength & innovation.

01	02	03
Trusted worldwide	An innovative leader	Global support & service



Data Sheet

LG SW 400 ES

Seawater Reverse Osmosis (RO) Membranes

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operating specifications

Max. Applied Pressure
1,200 psi (82.7 bar)

Max. Chlorine Concentration
< 0.1 ppm

Max. Operating Temperature
45°C (113°F)

pH Range, Continuous (Cleaning)
2-11 (2-13)

Max. Feedwater Turbidity
1.0 NTU

Max. Feedwater Sdi (15 Mins)
5.0

Max. Feed Flow
75 gpm (17 m3/h)

Min. Ratio Of Concentrate To Permeate Flow For Any Element
5 : 1

Max. Pressure Drop (Δp) For Each Element
15 psi (1.0 bar)

For more information and operating guidelines, visit www.lgwatersolutions.com

product specifications

Active Membrane Area	ft² (m²)	400 (37)
Permeate Flow Rate	GPD (m³/d)	13,700 (51.9)
Stabilized Salt Rejection	%	99.8
Minimum Salt Rejection	%	99.6
Boron Rejection	%	89
Feed Spacer	mil	34

Test Conditions : 32,000 ppm NaCl, 5 ppm boron at 25°C (77°F), 800 psi (55 bar), pH 8, Recovery 8%.
Permeate flows for individual elements may vary +/-15%.

A	mm (in.)	1,016 (40)
B	mm (in.)	200 (7.9)
C	mm (in.)	28.6 (1.125)
Weight	kg (lbs.)	16 (35)



All dimensional information is indicative and for reference purpose only. Please contact LG Chem for detailed technical specification.

Contact LG Chem +82 10-1234-5678 www.lgwatersolutions.com | waterinfo@lgchem.com
[View Disclaimers Online](#)



Data Sheet

LG SW 400 ES

Seawater Reverse Osmosis (RO) Membranes



PRODUCT OVERVIEW

LG SW 400ES

Seawater Reverse Osmosis (RO) Membranes

LG Chem's NanoH2O™ seawater RO membranes, incorporated with innovative Thin Film Nanocomposite (TFN) technology, reduce the cost of desalination while delivering superior water quality. Our seawater RO membranes provide industry leading salt rejection and produce 20% more flow than membranes manufactured with conventional technologies. We continue to leverage the technological advantages of our seawater RO membranes to expand our market share, accruing more than 3,000 Million Liter per Day (MLD) projects for both new and replacement market since the establishment.

LG SW ES (Energy Saving) membranes offer significant energy savings while producing good water quality; suitable for low to medium salinity seawater applications.

operating specifications

Max. Applied Pressure
1,200 psi (82.7 bar)

Max. Chlorine concentration
< 0.1 ppm

Max. Operating temperature
45°C (113°F)

pH Range, Continuous (Cleaning)
2-11 (2-13)

Max. Feedwater turbidity
1.0 NTU

Max. Feedwater SDI (15 mins)
5.0

Max. Feed flow
75 gpm (17 m3/h)

Min. Ratio of concentrate to permeate flow for any element
5:1

Max. Pressure drop (ΔP) for each element
15 psi (1.0 bar)

A	B	C	Weight
mm (in.)	mm (in.)	mm (in.)	kg (lbs.)
1,016 (40)	200 (7.9)	28.6 (1.125)	16 (35)

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Stabilized Salt Rejection %
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Minimum Salt Rejection %
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Boron Rejection %
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Feed Spacer mil
34

Test Conditions : 32,000 ppm NaCl, 5 ppm boron at 25°C (77°F), 800 psi (55 bar), pH 8, Recovery 8%.
Permeate flows for individual elements may vary +/-15%.

LG Water Solutions<noreply@sender.com>
to user

LG Chem

Water Solutions Division

www.lgwatersolutions.com

Headline LG Water Solutions, word!

Brief intro text here.LG Water Solutions is a gold sponsor, speaker and exhibitor!

Visit us at booth #214



LG Water Solutions
in Knoxville

LG Water Solutions is a gold
sponsor, speaker & exhibitor

Visit us at booth #214

Another main headline example

Some more text here for this paragraph. LG Water Solutions is a gold sponsor, speaker and exhibitor! Some more text here for this paragraph.

LG Water Solutions<noreply@sender.com>
to user

1,340%
growth

201620172018201920202020

1,340 GROWTH ACHIEVED IN THE LAST SIX YEARS

Thanks to LG Water Solution's breakthrough thin-film nanocomposite (TFN) RO technology, we supply the industry's highest salt rejection seawater RO membrane at 99.89% unmatched performance.

Learn more

INDUSTRY NEWS

MEMBRANE DURABILITY FOR MAXIMIZE PLANT UPTIME

Inflation. Raw material prices. Energy cost increases. Reducing OPEX has never been more difficult. LG NanoH2O™ BWRO membranes can extend the life cycle of an RO system, reduce operating expenditure, and Maximize Plant Uptime.

Global Water Intelligence (GWI)



EDUCATION

ON-DEMAND RO WEBINARS

LG Water Solutions provides numerous resources to help SWRO and BWRO plants run their operations more efficiently and effectively, such as our on-demand webinar on maximizing plant uptime for industrial RO systems.

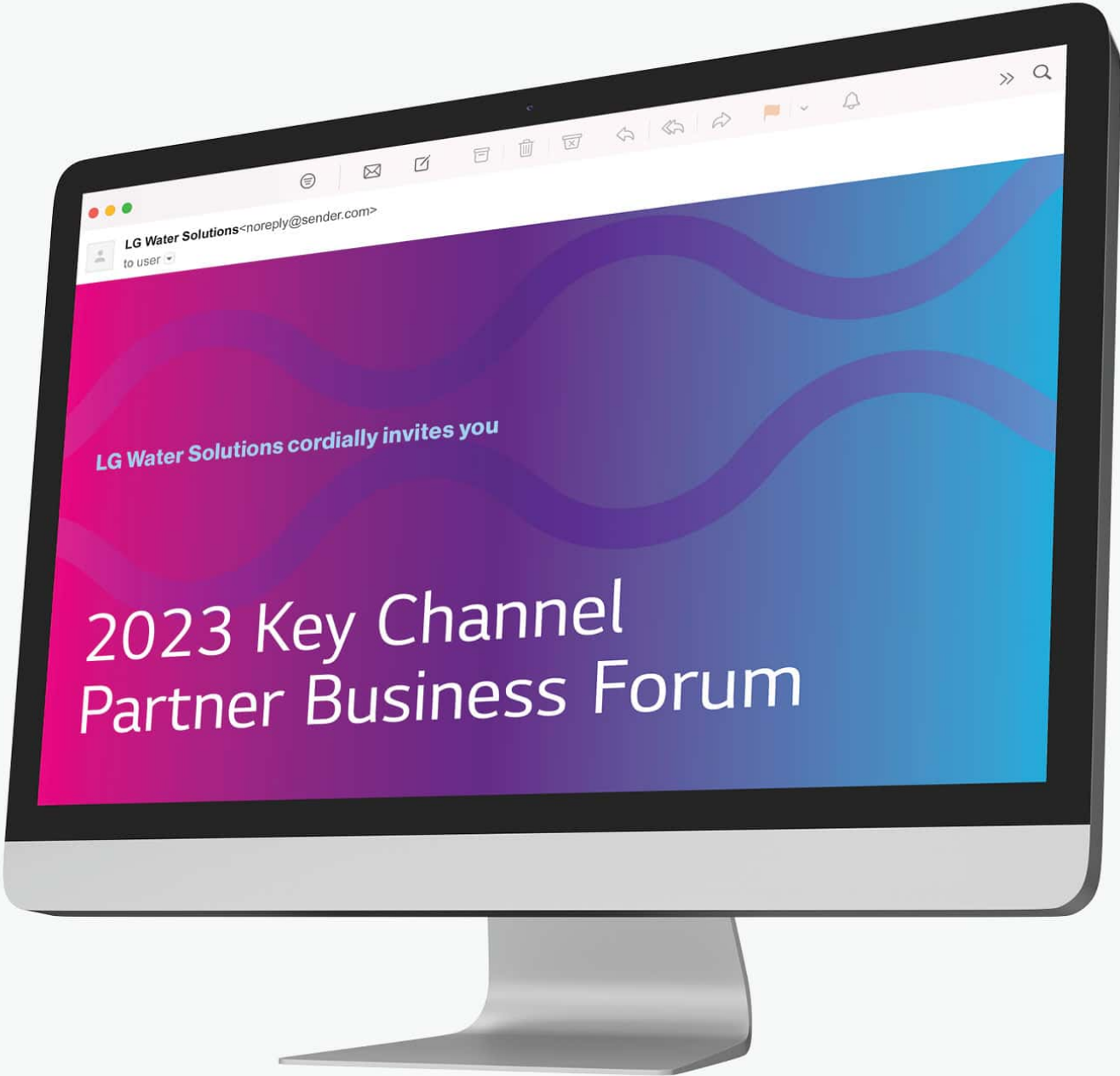
view GoToStage webinars



EMPLOYEE UPDATES

LG Water Solutions welcomes the following new members





LG Water Solutions

<noreply@sender.com>

to user

LG Water Solutions cordially invites you

2023 Key Channel Partner Business Forum

Purpose

Promote new thinking, inspire action, and formulate growth strategies while offering a unique opportunity for networking with like-minded industry professionals.

Event Details

What

2023 LGWS Key Channel Partner Business Forum

When

May 30 – June 1, 2023

Where

LG Chem Science Park Seoul, Korea

Agenda

Arrival >

Mon, May 29

Arrivals

Day 1 >

Tue, May 30

· LG Chem and LG Water Solutions overview and vision

· Technical presentations and new product roadmap

· R&D Science Park tour (Magok, Seoul)

· Hosted dinner activity

Day 2 >

Mon, May 31

· Best practice from channel partners

· LG manufacturing site visit (Cheongju, Korea)

Day 3 >

Mon, Jun 1

· Recap sessions

· Seoul city tour

· Closing dinner

We look forward to seeing you

Confirm Your RSVP

LG Chem

Water Solutions Division

