



Desalination Technology Expo & Conference 2025

4, 5 & 6 November 2025

Feria València, València, Spain

CONFERENCE PROGRAMME



Desalination Technology Expo & Conference 2025

Day 1 Programme – Tuesday 04 November 2025

Legend

- **Sky Blue** – Plenary Sessions
- **Navy** – Room A: Desalination & Energy (SMR)
- **Aqua** – Room B: Brine Mining & Valorization
- **Medium Blue** – Room C: Desalination & Energy (SMR) Stream 2

9:00 AM - 9:20 AM	■ Opening address from the Founder and CEO of Desalination Technology Expo & Conference. Speaker: Tony Robinson, Founder & CEO - Desalination Technology Expo & Conference Room A - Opening Plenary Session <i>Plenary Keynote</i>
9:20 AM - 9:45 AM	■ Global Trends in Advanced Desalination Technology: Shaping the Future of Water Sustainability Room A - Opening Plenary Session <i>Panel Discussion</i>
9:45 AM - 10:10 AM	■ Brine Mining and Valorization Global Outlook: New Frontiers in Resource Recovery Speakers: Christos Charisiadis, Founder & Principal Consultant - Brine Consulting , Chris East, Laboratory Manager - NEOM , Christopher Fellows, Professor - Saudi Water Authority Room A - Opening Plenary Session <i>Plenary Keynote</i>
10:10 AM - 10:35 AM	■ Nuclear Technology Enabling Desalination Applications Speaker: Enguerrand Ducene, VP Energy Systems Sales & Business Development, EMEA - Westinghouse Room A - Opening Plenary Session <i>Plenary Keynote</i>

10:35 AM - 11:05 AM	■ Coffee Break Room A - Desalination & Energy (SMR) <i>Coffee Break</i>
11:05 AM - 11:50 AM	■ Technological Innovations in Brine Mining: From Theory to Practice Speakers: Basel Abusharkh, CEO/CTO - Osmosis Technology (OSMOTEC) , Aamer Ali, Associate Professor - Aalborg University , Christine Kleffner, Professor - University of Applied Sciences Bochum , Keith Lampi, President - Fluid Technology Solutions, Inc Room B - Brine Mining & Valorization <i>Panel Discussion</i>
11:50 AM - 12:15 PM	■ IDIWATER project and Desal+ living lab Speaker: Juan Ramón Rodríguez Aleman, Area manager - SPEGC Room A - Desalination & Energy (SMR) <i>Keynote Presentation</i>
11:50 AM - 12:15 PM	■ Driving Industrial Brine Valorization: Key Challenges and Emerging Pathways Speaker: Christine Kleffner, Professor - University of Applied Sciences Bochum Room B - Brine Mining & Valorization <i>Keynote Presentation</i>
12:15 PM - 12:40 PM	■ Saudi Arabia's Water Missions for Global Sustainability and Innovation Speaker: Eydhah Almatrafi, General Manager - RDIA Room A - Desalination & Energy (SMR) <i>Keynote Presentation</i>
12:15 PM - 12:40 PM	■ Novel membrane approaches to high brine concentration and crystallization Speaker: Keith Lampi, President - Fluid Technology Solutions, Inc Room B - Brine Mining & Valorization <i>Keynote Presentation</i>
12:40 PM - 1:05 PM	■ Membrane Brine Concentration: Case Studies and Project Applications Speaker: Basel Abusharkh, CEO/CTO - Osmosis Technology (OSMOTEC) Room B - Brine Mining & Valorization <i>Keynote Presentation</i>
12:40 PM - 1:45 PM	■ Lunch Break Room A - Desalination & Energy (SMR) <i>Lunch Break</i>
1:05 PM - 2:15 PM	■ Lunch Break Room B - Brine Mining & Valorization <i>Lunch Break</i>
1:45 PM - 2:10 PM	■ Poly-generation of power and desalinated water by Small Modular Reactors Speaker: Marco Cioffi, Product Manager - Ansaldo Energia Room A - Desalination & Energy (SMR) <i>Keynote Presentation</i>
2:10 PM - 2:35 PM	■ 30 years of desalination experience: repeated mistakes Speaker: Paul Buijs, Founder - 1st:water Room A - Desalination & Energy (SMR) <i>Keynote Presentation</i>
2:15 PM - 2:35 PM	■ PPP Power: Unlocking Brine's Value, Shaping a Sustainable Future Moderator: Christos Charisiadis, Founder & Principal Consultant - Brine Consulting Speaker: Hu Fleming, Upwell Water Treatment - President, Partner Room B - Brine Mining & Valorization <i>Fireside Chat</i>

2:35 PM - 3:00 PM	■ Brine Mining Valorization and Commercialization Speaker: Ahmed Alamoudi, General Director for Brine Mining Center - NEOM Room B - Brine Mining & Valorization <i>Keynote Presentation</i>
2:35 PM - 3:20 PM	■ Breaking the Cycle: Learning from 30 Years of Repeated Efficiency Mistakes Moderator: Paul Buijs, Founder - 1st:water Speakers: Gabriele Brummer, Applications Engineer - American Water Chemicals , Rubén Gómez, Project Engineer - ACWA Power , Myrna Staring, Team Lead Seawatch Early Warnings - Fugro Room A - Desalination & Energy (SMR) <i>Panel Discussion</i>
3:00 PM - 3:45 PM	■ Economic Viability and Business Models for Brine Mining Speakers: Pia Boyer, CEO - Euphrates Energies SAS , Hu Fleming, Upwell Water Treatment - President, Partner , Nicholas Nelson, Director Innovation and Technical Marketing, Water & Air - OMYA International AG Room B - Brine Mining & Valorization <i>Panel Discussion</i>
3:20 PM - 3:50 PM	■ Coffee Break Room A - Desalination & Energy (SMR) <i>Coffee Break</i>
3:45 PM - 4:15 PM	■ Coffee Break Room B - Brine Mining & Valorization <i>Coffee Break</i>
3:50 PM - 4:35 PM	■ Water for the Future: Desalination and the Rise of Water-Hungry Industries Moderator: Abraham Negaresh, Associate Director - Desalination and Reuse Lead - WRc Group Speakers: Yashar Hajimolana, Assistant Professor - University of Twente , Lionel Rabin, Managing Director - Haltiqa Consulting Room A - Desalination & Energy (SMR) <i>Panel Discussion</i>
4:15 PM - 4:40 PM	■ Global Outlook on Brine Mining and Valorization Speaker: Christos Charisiadis, Founder & Principal Consultant - Brine Consulting Room B - Brine Mining & Valorization <i>Keynote Presentation</i>
4:35 PM - 5:00 PM	■ Nuclear & Desalination: Power Couple or Dried-out Relationship? Speaker: Florent Heidet, CTO & Head of Reactor Development - Nano Nuclear Energy Room A - Desalination & Energy (SMR) <i>Keynote Presentation</i>
4:40 PM - 5:05 PM	■ Towards Neutrality Through Renewable Energy, Brine Reuse And Innovation Speaker: Alberto Gonzalez, Project Coordinator - Suez Room B - Brine Mining & Valorization <i>Keynote Presentation</i>
5:00 PM - 5:25 PM	■ Scalable, Selective, Sustainable: Ion-selective Desalination for the Future Speaker: Jan W. Post, Program Director - Wetsus Room A - Desalination & Energy (SMR) <i>Keynote Presentation</i>
5:05 PM - 5:30 PM	■ Brine-Refining: Simultaneous Efforts against Water Scarcity, Global-Warming, and Critical-Mineral Shortages Speaker: Hamidreza Samouei, Research Assistant Professor - Texas A&M; University Room B - Brine Mining & Valorization <i>Keynote Presentation</i>

Desalination Technology Expo & Conference 2025

Day 2 Programme – Wednesday 05 November 2025

Legend

- **Sky Blue** – Plenary Sessions
- **Navy** – Room A: Desalination & Energy (SMR)
- **Aqua** – Room B: Brine Mining & Valorization
- **Medium Blue** – Room C: Desalination & Energy (SMR) Stream 2

9:00 AM - 9:25 AM	■ AI With Purpose: Why We're Rethinking Desalination Speaker: Vanesa Fernandez, Performance Director - Acwa Power Room A - Desalination & Energy (SMR) <i>Keynote Presentation</i>
9:00 AM - 9:25 AM	■ The Realities of Seawater Brine Valorization Speaker: Christopher Fellows, Professor - Saudi Water Authority Room B - Brine Mining & Valorization <i>Keynote Presentation</i>
9:25 AM - 9:50 AM	■ From Algorithms to Autonomy: The AI Evolution in Water Systems Speaker: Sandro Hansen, Application Specialist - Turing Room A - Desalination & Energy (SMR) <i>Keynote Presentation</i>
9:25 AM - 9:50 AM	■ Open Testbed for Advancing Brine Valorisation under Real Conditions Speaker: Ángel Rivero Falcón, Project engineer - ITC Room B - Brine Mining & Valorization <i>Keynote Presentation</i>
9:50 AM - 10:15 AM	■ The Role of Automation and AI in Desalination Speaker: Rami Youssef, Desalination Business Development Manager - Siemens Room A - Desalination & Energy (SMR) <i>Keynote Presentation</i>
9:50 AM - 10:35 AM	■ Case Studies: Global Examples of Brine Mining in Action Speakers: Basel Abusharkh, CEO/CTO - Osmosis Technology (OSMOTEC) , Chris East, Laboratory Manager - NEOM , Hu Fleming, Upwell Water Treatment - President, Partner , Georg Herborg Enelvoldsen, Innovation Director - Danfoss A/S Room B - Brine Mining & Valorization <i>Panel Discussion</i>

10:30 AM - 11:00 AM	■ Coffee Break Room A - Desalination & Energy (SMR) <i>Coffee Break</i>
10:35 AM - 11:05 AM	■ Coffee Break Room B - Brine Mining & Valorization <i>Coffee Break</i>
11:00 AM - 11:25 AM	■ Considerations for Floating Nuclear Desalination Plants Speaker: Nial Turner, Analyst - CORE POWER Room A - Desalination & Energy (SMR) <i>Keynote Presentation</i>
11:05 AM - 11:30 AM	■ Unlocking the Potential of High Salinity Streams in Saudi Arabia Speaker: Sarah Almahfoodh, Research Engineer - Saudi Aramco Room B - Brine Mining & Valorization <i>Keynote Presentation</i>
11:25 AM - 11:50 AM	■ Developing an alternative water quality characterization system before RO Speaker: Maryam Alsuwaidi, Research Engineer - Dubai Electricity and Water Authority Room A - Desalination & Energy (SMR) <i>Keynote Presentation</i>
11:30 AM - 12:15 PM	■ Environmental and Sustainability Considerations in Brine Mining Speakers: Christopher Fellows, Professor - Saudi Water Authority , Guillem Gilabert-Oriol, R&D; Leader - DuPont , Ron Jong, Researcher drinking water treatment - Waternet , Paolo Mattiuzza, CEO - BrineACT Room B - Brine Mining & Valorization <i>Panel Discussion</i>
11:50 AM - 12:15 PM	■ Desalination for Climate Resilience Speaker: Mahmoud Ghnaimat, Desalination Technical Advisor - GIZ GmbH Room A - Desalination & Energy (SMR) <i>Keynote Presentation</i>
12:15 PM - 12:40 PM	■ Engineering Next-Generation Membranes to Achieve Global Sustainability Goals Speaker: Eric Hoek, Professor - UCLA Samueli School of Engineering Room A - Desalination & Energy (SMR) <i>Keynote Presentation</i>
12:15 PM - 12:40 PM	■ Multichannel thermodiffusion: A new paradigm in thermal desalination Speaker: Juan Felipe Torres, Associate Professor - Australian National University Room B - Brine Mining & Valorization <i>Keynote Presentation</i>
12:40 PM - 2:00 PM	■ Lunch Break Room A - Desalination & Energy (SMR) <i>Lunch Break</i>
12:40 PM - 2:00 PM	■ Lunch Break Room B - Brine Mining & Valorization <i>Lunch Break</i>
2:00 PM - 2:25 PM	■ Resilience by Turning Desalination Upside-Down, Literally Speaker: Alexander Fuglesang, CEO - Flocean AS Room A - Desalination & Energy (SMR) <i>Keynote Presentation</i>

2:00 PM - 2:25 PM	<p>■ Brine Valorization: What comes before Lithium and Rare Earth Elements</p> <p>Speaker: Markus Pfaender, Executive Director - K-UTEC AG Salt Technologies</p> <p>Room B - Brine Mining & Valorization</p> <p><i>Keynote Presentation</i></p>
2:00 PM - 2:45 PM	<p>■ LIFE INDESAL: A Sustainable and Circular Approach to SWRO</p> <p>Speakers: Mariana Figueira Alves, Project Manager, R&D; Engineer - ACCIONA, Hendrik Swart, Engineer - REDstack</p> <p>Room C - Desalination & Energy (SMR) Stream 2</p> <p><i>Panel Discussion</i></p>
2:25 PM - 2:50 PM	<p>■ Electrochemical Pre-Treatment: Revolutionising RO Efficiency in Desalination</p> <p>Speaker: Chris Rose, Managing Director - Sidon Water</p> <p>Room A - Desalination & Energy (SMR)</p> <p><i>Keynote Presentation</i></p>
2:25 PM - 2:50 PM	<p>■ Brine valorization with low salt rejection membranes</p> <p>Speaker: Guillem Gilabert-Oriol, R&D; Leader - DuPont</p> <p>Room B - Brine Mining & Valorization</p> <p><i>Keynote Presentation</i></p>
2:45 PM - 3:10 PM	<p>■ SMR for Desalination, Brine treatment and Hydrogen Production</p> <p>Speaker: Luis DePavia, Innovation Manager - NuScale Power</p> <p>Room C - Desalination & Energy (SMR) Stream 2</p> <p><i>Keynote Presentation</i></p>
2:50 PM - 3:15 PM	<p>■ Sustainable Desalination Living Lab: Innovation for Water Management in Semi-Arid</p> <p>Speaker: Alba Ruiz Aguirre, Researcher - Plataforma Solar de Almería-CIEMAT</p> <p>Room A - Desalination & Energy (SMR)</p> <p><i>Keynote Presentation</i></p>
2:50 PM - 3:15 PM	<p>■ Coupled versus decoupled Seawater brine valorization for desalination plants</p> <p>Speaker: Avijit Dey, Vice President, Process development - Aquatech International</p> <p>Room B - Brine Mining & Valorization</p> <p><i>Keynote Presentation</i></p>
3:10 PM - 3:40 PM	<p>■ Coffee Break</p> <p>Room C - Desalination & Energy (SMR) Stream 2</p> <p><i>Coffee Break</i></p>
3:15 PM - 3:45 PM	<p>■ Coffee Break</p> <p>Room A - Desalination & Energy (SMR)</p> <p><i>Coffee Break</i></p>
3:15 PM - 3:45 PM	<p>■ Coffee Break</p> <p>Room B - Brine Mining & Valorization</p> <p><i>Coffee Break</i></p>
3:40 PM - 4:05 PM	<p>■ The Mega Vessel approach to pressure vessel design</p> <p>Speaker: Mike Sinfield, Account Manager - H2O Innovation</p> <p>Room C - Desalination & Energy (SMR) Stream 2</p> <p><i>Keynote Presentation</i></p>
3:45 PM - 4:10 PM	<p>■ Enabling Sustainable Desalination with SMR-300 Heat and Power Supply</p> <p>Speaker: Daniel Gallego Zamorano, Project Development Manager (Holtec Europe) - Holtec International</p> <p>Room A - Desalination & Energy (SMR)</p> <p><i>Keynote Presentation</i></p>

3:45 PM - 4:10 PM	■ Brine Valorization through on-site reagent recovery Speaker: Karel Vratny, Thermal Domain and Battery Materials - Veolia Water Technologies Room B - Brine Mining & Valorization <i>Keynote Presentation</i>
4:05 PM - 4:30 PM	■ Designing 50MLD Subsea Desalination Plant Speaker: Harith Alomar, Global Sales Director - Waterise Room C - Desalination & Energy (SMR) Stream 2 <i>Keynote Presentation</i>
4:10 PM - 4:35 PM	■ SWRO/BWRO optimization - a project or an off-the-shelf solution Speaker: Natan Zuta, CEO - IOSight Room A - Desalination & Energy (SMR) <i>Keynote Presentation</i>
4:10 PM - 4:35 PM	■ Nature based treatment of iron and ammonium rich RO concentrate Speaker: Ron Jong, Researcher drinking water treatment - Waternet Room B - Brine Mining & Valorization <i>Keynote Presentation</i>
4:35 PM - 5:00 PM	■ Crosslinked nZVI-kappa carrageenan hydrogel for leachate remediation Speaker: Ali Altaee, Associate Professor - UTS: University of Technology Sydney Room A - Desalination & Energy (SMR) <i>Keynote Presentation</i>
5:05 PM - 5:15 PM	■ Conference Summary and Closing Remarks Speaker: Tony Robinson, Founder & CEO - Desalination Technology Expo & Conference Room A - Opening Plenary Session <i>Plenary Keynote</i>