

ANNEX A: Details of Event Highlights

**Information accurate as of 15 April 2022. Refer to [CESG Programme](#) and [SIWW Programme](#) for the latest programme.*

1. JOINT ENVIRONMENT AND WATER LEADERS FORUM

Towards a Climate-Resilient Future - Transforming Challenges into Opportunities **Monday, 18 April 2022 | 11:30am to 1:00pm**

1. Mariam Almheiri, Minister of Climate Change and Environment, UAE (Pre-recorded address)
2. Li Guoying, Minister of Water Resources, Ministry of Water Resources, People's Republic of China (Pre-recorded address)
3. Axel Schweitzer, CEO, ALBA Group plc & Co. KG
4. Andrew Benedek, Chairman & CEO, Anaergia Inc
5. Michele Blom, Vice Minister, Ministry of Infrastructure and Water Management, Netherlands
6. Els van Doesburg, Vice Mayor, City of Antwerp
7. Patrick Blethon, Executive Chairman, Saur
8. Dechen Tsering, Regional Director, UNEP (Asia & The Pacific)
9. Ambassador Ong Keng Yong (Moderator)

2. SIWW2022 PROGRAMME HIGHLIGHTS

Water Leaders Summit **Tuesday, 19 April 2022**

Plenary 1 – Mitigating Climate Impacts: Transitioning to a Low-Carbon Sustainable Future **9:00am to 10:30am**

1. Peter Ng Joo Hee, Chief Executive, PUB, Singapore's National Water Agency
2. Maree Lang, Managing Director, Greater Western Water
3. Mads Leth, Chief Executive Officer, VCS Denmark
4. Patrick Decker, Chief Executive Officer, Xylem
5. Michael Carlin, Deputy General Manager, San Francisco Public Utilities Commission
6. Sharad Somani, Partner & Head of Infrastructure, Asia Pacific, KPMG Singapore (Moderator)

Plenary 2 – Adapting to Climate Impacts: Building Resilience against Extreme Weather Events and Sea Level Rise **11.00am – 12.30pm**

1. Chua Soon Guan, Deputy Chief Executive (Policy & Development), PUB, Singapore's National Water Agency
2. Elijah Hutchinson, Vice President, NYC Economic Development Corporation
3. Piet Dircke, Global Director Climate Adaptation, Arcadis
4. Debra Roberts, Co-Chair, Working Group II (Impacts, Adaptation and Vulnerability), Intergovernmental Panel on Climate Change
5. Jose Victor Emmanuel A. de Dios, President and Chief Executive Officer, Manila Water Company Inc.
6. Scott Dunn, Vice President, Strategy & Growth, Asia, AECOM (Moderator)

Plenary 3 – Adapting to Climate Impacts: Strengthening Water Security against Dry Weather Events

2:00pm – 3:30pm

1. Park Pyung-rock, Executive Vice President, K-water
2. Els van Doesburg, Vice Mayor, City of Antwerp, Belgium
3. Alan Ryder, Chief Executive Officer and Founder, RSK Group
4. Steve Clark, Chief Executive Officer, SUEZ Asia
5. Alan Chan, Global Vice President and General Manager, DuPont
6. Susan Moisiso, Global Water Market Director, Jacobs (Moderator)

Plenary 4 – Global Water Megatrends: Preparing the Water Sector for 2030 and Beyond

4:00pm – 5:30pm

1. Prof Asit Biswas, Honorary Professor, Glasgow University
2. Neeta Pokhrel, Chief of Water Sector Group, Asian Development Bank
3. Chew Men Leong, President, Urban Solutions, ST Engineering
4. Patrick Hill, Executive Vice President, Jacobs
5. Debra Tan, Head, CWR
6. Cecilia Tortajada, Professor in Practice – Environment Innovation, University of Glasgow (Moderator)

Water Convention comprises of 6 Hot Issues Workshops, an opening plenary, 47 oral sessions, 150 high-quality posters and a closing plenary. For Water Convention programme, please see: [here](#)

Hot Issues Workshops

Sunday, 17 April | 10.00am – 5.30pm

Workshop 1: Digital Transformation of the Water Sector and Role of Digital Twins – Part 1 & 2
(Co-organized with SWAN Asia-Pacific Alliance)

Workshop 2: The Future of Seawater Desalination: Innovations in Desalting and Brine Management - Part 1 & 2
(Co-organized with Gary Amy and Jonathan Clement)

Workshop 3: Sustainable Wastewater Management in Developing Countries: An Innovative Indian Approach in River Rejuvenation

Workshop 4: Coastal Revitalisation - Emerging Lessons from Singapore for Small Island States

Workshop 5: Reduction, Reuse and Recycling of Domestic Water – Benefits, Health Risks, and Consumers' Inclusivity

Workshop 6: Water Sector Decarbonisation and Carbon Circularity

Opening Plenary & Keynote

Monday, 18 April | 11.00am – 1.00pm

1. Debra Roberts, Co-Chair, Working Group II (Impacts, Adaptation and Vulnerability), Intergovernmental Panel on Climate Change
2. Patrick Moriarty, Chief Executive Officer, IRC International Centre for Water and Sanitation
3. Oyun Sanjaasuren, Director of External Affairs, Green Climate Fund
4. Jennifer Sara, Global Director, Water Global Practice, World Bank
5. Tom Mollenkopf, President, International Water Association
6. Darryl Day, Co-Chair, Water Convention Programme Committee
7. Bernard Koh, Assistant Chief Executive (Future Systems and Technology), PUB, Singapore's National Water Agency
8. Kala Variavamoorthy, Executive Director, International Water Association

TechXchange Sunday, 17 April 9.45am – 5.15pm	
Speakers	Participating start-ups
<ol style="list-style-type: none"> 1. Jeffrey Siow, Managing Director & Chief Operating Officer, Enterprise Singapore 2. Booky Oren, Chairman & Chief Executive Officer, Booky Oren Global Water Technologies 3. Harry Seah, Deputy Chief Executive (Operations), PUB, Singapore's National Water Agency 4. David Johnson, Deputy General Manager, Las Vegas Valley Water District and Southern Nevada Water Authority 5. Gavin van Tonder, Executive Director, NEOM 6. Melvin John Tan, Chief Operating Officer, Manila Water 7. Andrea Cheng, Commissioner, Chicago Department of Water Management 8. Peter Grevatt, Chief Executive Officer, The Water Research Foundation 9. Dean Amhaus, President & Chief Executive Officer, The Water Council 10. Chew Men Leong, President, Urban Solutions, ST Engineering 11. Zeynep Erdal, Director, Integrated Solutions and Capabilities, Black & Veatch 12. Albert Cho, Senior Vice President, Chief Strategy & Digital Officer, Xylem 13. Will Hewes, Global Lead, Water Sustainability, Amazon Web Services 14. Mudasser Iqbal, Founder & Chief Executive Officer, TeamSolve 15. Ng Wun Jern, Scientific Advisor, Ministry of Sustainability & the Environment 16. Andrew Benedek, Chairman and Chief Executive Officer, Anaergia, 17. Menno Holterman, Chief Executive Officer, Nijhuis Industries 18. Mari Heinonen, Director, Helsinki Region Environmental Services Authority HSY 19. Charlie Walker, Research Director, GWI 20. Sudhir Murthy, Chief Executive Officer, NEWhub Corp 21. Scott Bryan, President, Imagine H2O 22. Helge Daebel, Partner, Emerald Technology Ventures 	<ol style="list-style-type: none"> 1. SmartTerra (India) 2. Fluid Robotics (India) 3. NM3 Tech (Singapore) 4. Typhon (UK) 5. Pani Energy (Canada) 6. Teredo (Singapore) 7. Nexusbit (Singapore) 8. Synauta (Canada) 9. Ecosoftt (Singapore) 10. SeaChange (USA) 11. 3E Memtech (Singapore) 12. Evove (UK)

23. Clarence Tan, Founder & Managing Partner, Origgin	
24. David Henderson, Managing Partner, XPV Water Partners	

Water Expo Pavilions	
<ol style="list-style-type: none"> 1. Belgium 2. Germany 3. UK 4. Catalan 5. Canada 6. Netherlands 	<ol style="list-style-type: none"> 7. Singapore 8. Taiwan Metal Industry Association 9. Korea 10. Imagine H2O 11. Ripple2wave 12. Digital Solutions

For **Thematic and Business Forums**, please see [here](#).

3. CESG2022 PROGRAMME HIGHLIGHTS

<p>Clean Environment Leaders Summit Monday, 18 April</p>
<p>Plenary 1 – Accelerating Climate Action in the Race to Zero 2:30pm – 3:50pm</p>
<ol style="list-style-type: none"> 1. Ms Grace Fu, Minister for Sustainability and the Environment, Singapore 2. Mr Oliver Tonby, Senior Partner, McKinsey & Company 3. Mr Pang Yee Ean, CEO, Surbana Jurong Capital and interim CEO for Mitbana 4. Mr Rajeev Menon, President for Marriott International Inc., for Asia Pacific excluding Greater China (APEC) 5. Ms Milag San Jose-Ballesteros, Regional Director for East, Southeast Asia & Oceania, and Global South Diversity Lead, C40 Cities Climate Leadership Group (Moderator)
<p>Plenary 2 – Together in Circularity: Being Resource Resilient in Asia-Pacific Cities 4:20pm – 6.00pm</p>
<ol style="list-style-type: none"> 1. Dr Amy Khor, Senior Minister of State, Ministry of Sustainability and the Environment, Ministry of Transport, Singapore 2. Mr Yutaka Shoda, Vice-Minister for Global Environment Affairs Ministry of the Environment, Government of Japan 3. Ms Armida Salsiah Alisjahbana, Executive Secretary, United Nations Economic and Social Commission for Asia and the Pacific 4. Mr Robert Metzke, Global Head of Sustainability, Royal Philips 5. Dr Wang Tianyi, CEO and Chairman, China Everbright Environment Group Limited 6. Prof Seeram Ramakrishna, Chair, Circular Economy Taskforce, Director, Center for Nanotechnology and Sustainability, National University of Singapore 7. Mr Frederick Teo, Managing Director, Sustainable Solutions, Temasek (Moderator)

Clean Environment Convention

Track 1: Sustainable Energy & Energy Efficiency

Tuesday, 19 April | 09:00am to 12:00pm

1. Mr David Newman, Managing Director, European Circular Bioeconomy Policy Initiative, London and Brussels, United Kingdom
2. Prof Armin Aberle, CEO, Solar Energy Research Institute of Singapore (SERIS), National University of Singapore, Singapore
3. Dr Daniel Wong, Head, Waste-to-Resource Department, Group Centre of Excellence, Sembcorp Industries Ltd, Singapore
4. Mr Law Gee Yong, Director, Energy Technology & Data Department, Energy Market Authority, Singapore
5. Mr Suresh K, Director, Carbon Mitigation Division, National Environment Agency, Singapore

Track 2: Resource Sustainability

Tuesday, 19 April | 2:30pm to 5:30pm

1. Mr Kenneth Lim, General Manager & Refinery Director, Neste Singapore Pte Ltd, Singapore
2. Dr Andrew Benedek, Chairman & CEO, Anaergia, Canada
3. Mr Travin Singh, Founder & CEO, CRUST Group, Singapore
4. Mr Paul Fong, Country Director, Dow, Singapore
5. Mr Ron Wong, Director, Waste Management Division, National Environment Agency, Singapore

Track 3: Advancing Public Hygiene (Pest Management in an Urban Environment)

Wednesday, 20 April | 9:00am to 12:00pm

1. Prof Lee Chow Yang, Professor and Endowed Presidential Chair in Urban Entomology, University of California, Riverside, USA
2. Dr Bobby Corrigan, Urban Rodentologist, RMC Pest Management Consulting, USA
3. Dr Stephen Doggett, Director of Medical Entomology, NSW Health Pathology at Westmead Hospital, Australia
4. Mr Albert Lee, President, Singapore Pest Management Association, Singapore
5. Dr Ng Lee Ching, Group Director, Environmental Health Institute, National Environment Agency, Singapore

Track 4: Advancing Public Hygiene (Environmental Cleaning and Disinfection)

Wednesday, 20 April | 1:30pm to 5:30pm

1. Dr Peter Hug, Managing Director
 - EUnited Cleaning – European Cleaning Systems Manufacturers Association, Germany
 - VDMA – German Engineering Federation, Germany
 - eu.bac – European Building Automation and Controls Manufacturers, Belgium
 - Board Member, Facility Data Standard Consortium, Germany
2. Dr Gavin Macgregor-Skinner
 - Senior Director, Global Biorisk Advisory Council (GBAC), ISSA, USA
 - Associate Professor, Penn State College of Medicine, USA
3. Dr Quah Lee Kiang, Director, Real Estate & Construction Centre and Real Estate & Construction Academy, Singapore
4. Prof Leo Yee Sin, Executive Director, National Centre for Infectious Diseases, Singapore
5. Mr Tony Chooi, President, Environmental Management Association of Singapore, Singapore

6. Mr Albert Lim, Group Senior Vice President, Airport Operations Management, Changi Airport Group, Singapore
7. Mr Tony Teo, Group Director, Environmental Public Health Operations Group, National Environment Agency, Singapore

Environment Expo	
NEA Innovation Pavilion	CESG Innovation Showcase & Pitch
<ol style="list-style-type: none"> 1. Use of Low-cost Sensors for High Spatial Resolution Air Quality Monitoring (NEA) 2. Transforming Environmental Services (NEA) 3. Environmental Robotics for Inspection of Confined Spaces (Singapore University of Technology and Design) 4. Autonomous Pavement Sweeping (Singapore University of Technology and Design) 5. National Climate Change Study for Singapore (NEA) 6. Towards a Sustainable E-waste Circular Economy (SCARCE) 7. Smart Toilet Technologies (Advancer Smart Technology) 8. Wastewater Surveillance (NEA) 9. Project <i>Wolbachia</i> – Singapore (NEA) 10. GO-IBA: Green Manufactured Aggregate (Republic Polytechnic) 11. 2-in-1 Cleaning and Surveillance Robot (Gaussian Robotics) 12. Autonomous Environmental Service Vehicle (Nanyang Technological University, Enway) 	<p>Monday, 18 April 12:00pm – 1:00pm</p> <ul style="list-style-type: none"> • Autonomous Environmental Service Vehicle • National Climate Change Study for Singapore • Wastewater Surveillance <p>Monday, 18 April 3:00pm – 4:00pm</p> <ul style="list-style-type: none"> • Environmental Robots for Inspection of Confined Spaces • Smart Toilet Technologies • GO-IBA: Green Manufactured Aggregate <p>Tuesday, 19 April 12:00pm – 1:00pm</p> <ul style="list-style-type: none"> • Environmental Robots for Inspection of Confined Spaces • 2-in-1 Cleaning and Surveillance Robot • Towards a Sustainable E-Waste Circular Economy <p>Tuesday, 19 April 3:00pm – 4:00pm</p> <ul style="list-style-type: none"> • Project <i>Wolbachia</i> – Singapore • Use of low-cost Sensors for High Spatial Resolution Air Quality Monitoring • Autonomous Pavement Sweeping <p>Wednesday, 20 April 12:00pm – 1:00pm</p> <ul style="list-style-type: none"> • GO-IBA: Green Manufactured Aggregate • Wastewater Surveillance • Towards a Sustainable E-Waste Circular Economy <p>Wednesday, 20 April 3:00pm – 4:00pm</p> <ul style="list-style-type: none"> • Autonomous Environmental Service Vehicle • Use of Low-cost Sensors for High Spatial Resolution Air Quality Monitoring • Environmental Robots for Inspection of Confined Spaces