

PROGRAM



ASIA WATER FORUM 2018

INFORMATION, INNOVATION, AND TECHNOLOGY

2–5 October Asian Development Bank Manila, Philippines

WELCOME!

The Asian Development Bank welcomes you to the "Asia Water Forum (AWF) 2018 – Information, Innovation, and Technology."

AWF 2018 is ADB's flagship knowledge sharing event on the water sector. Water is fundamental to sustaining Asia's progress and inclusive prosperity, and yet the region is facing serious challenges in managing supply and ensuring the efficient and reliable delivery of water services. Tapping the trifecta of 'information, innovation, and technology' could be the game changer that will help Asia and the Pacific improve its water security.

The goal of AWF 2018 is to bring together stakeholders from ADB developing member countries, private sector, research institutions, academia, and civil society to share their knowledge and inspire the adoption of innovative practices, next-level technologies, and better information systems. ADB also aims to keep the profile of water high on the region's development agenda.

In the newly launched Strategy 2030, ADB deepens its commitment to water, seeking to improve access to clean water and sanitation services and to ensure the sustainable use of water resources. This forum is a venue to accelerate efforts toward this commitment and Sustainable Development Goal 6, water and sanitation for all.

In the course of four exciting days, expect over 700 participants and a variety of high-level plenary and parallel technical sessions covering 5 major activities under the One ADB Water Approach: (i) supplying water; (ii) sanitation and water quality; (iii) water for food; (iv) water for energy; and (v) water resources management. There are also 5 hands-on workshops and 48 exhibitors at the concurrent exhibition.

Enjoy and have a productive Asia Water Forum!



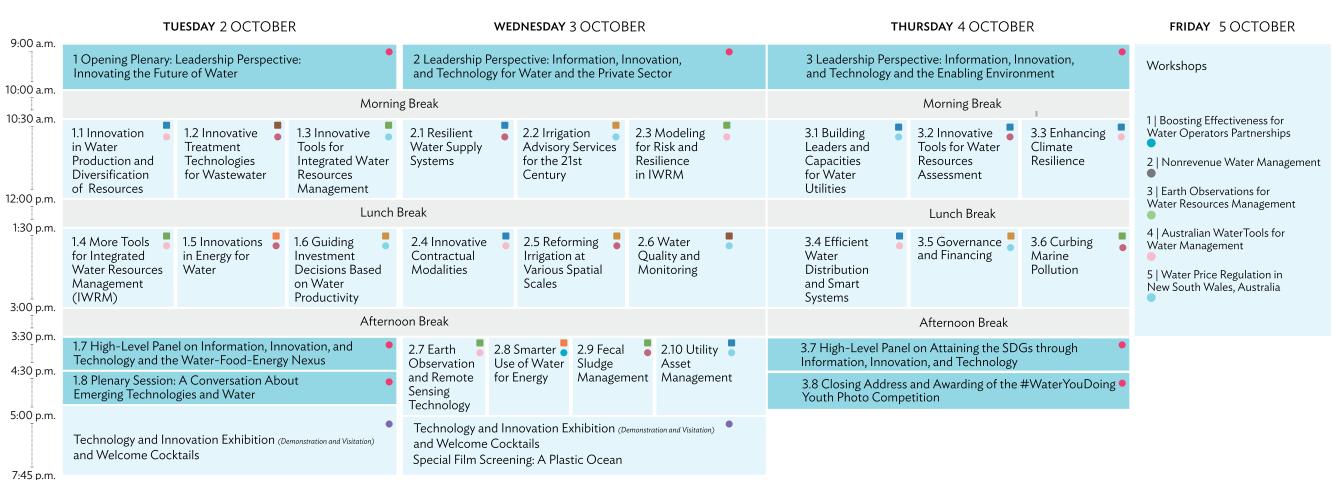
As part of the Asia Water Forum 2018, a youth photo competition was held to include the perspectives of the next generation. Through stunning photos (shown in the section dividers of this program guide), six winners have captured different facets of the water sector, including the five areas of the One ADB Water approach. The awarding will be held at the closing plenary of the forum (page 23).

FORUM REMINDERS

| 1. Event App. Want the latest program? Forgot your app code? Not sure how to download the mobile app? Look for the Events Air or Mobile App Help Desk at the Main Lobby, near the registration area. The app gives you access to the latest searchable version of the program (see page 5). Bookmark favorite sessions, see list of speakers, among other nifty features. |
|---|
| 2. Wi-Fi Connection. Free Wi-Fi is available inside ADB premises. An auto-generated Wi-Fi password can be found in your ADB visitor's ID. |
| 3. Session Venues. Most of the forum sessions and activities are located at and around the auditorium. Zones B and C are for the plenary and parallel sessions, while Zones A and D and the Cafeteria Hallway are for the exhibition. Other parallel sessions are located at Multi-Function Hall 2 and 3, a short walk to ADB's Third Atrium. Directional signs will be posted along the way. Networking cocktails will be held along the Auditorium Gallery. |
| 4. Food and Drinks. Coffee, tea, and snacks are available during breaks along the Auditorium Gallery. Lunch is served at the Executive Dining Room, which can be accessed using the spiral staircase near the auditorium. |
| 5. <i>Toilets.</i> There are several facilities around ADB, and the nearest ones to the auditorium are on both sides of the two spiral staircases. |
| 6. Social Media. Share what sessions you attended, insights gained, exhibits visited, and other experiences online by using the official event hashtag, #AWF2018. Twitter handles of speakers and organizations presenting are noted in this program for easy tweeting. For other forum and water updates, follow our social media accounts on Facebook (www.facebook.com/adbwater4all) and Twitter (www.twitter.com/adbwater). |
| |

NOTE: This printed program is current as of 25 September 2018. Please refer to the event app for the latest updates.

WEEK AT A GLANCE



LEGEND

SESSION

- SUPPLYING WATER
- SANITATION AND WATER QUALITY
- WATER FOR FOOD
- WATER RESOURCES MANAGEMENT
- WATER FOR ENERGY

VENUE

- AUDITORIUM ZONES B TO C
- AUDITORIUM ZONE B
- AUDITORIUM ZONE C
- AUDITORIUM ZONES A AND D
- MULTI-FUNCTION HALL 1
- MULTI-FUNCTION HALL 2
- MULTI-FUNCTION HALL 3
- LECTURE THEATER 2

Download the

Asia Water Forum 2018 app

"The EVENT app by EventsAIR"

Download the Events App by EventsAIR. Scan the QR code. The event code is AWF2018

Check your email for your personal log in details to access the complete set of features.





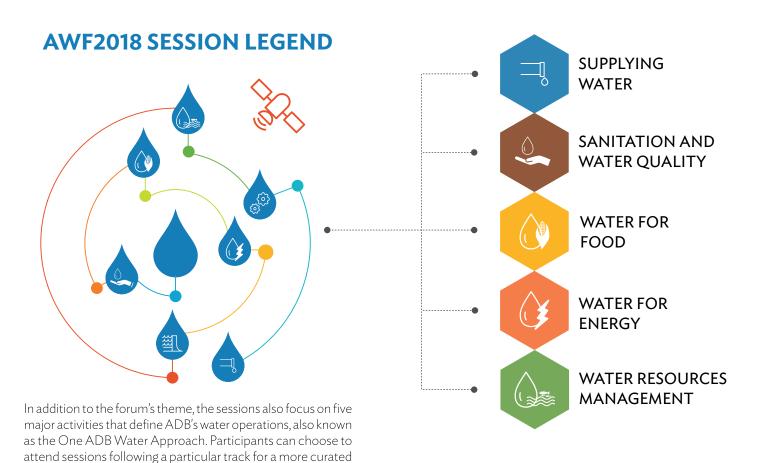






AWF2018 BY THE NUMBERS







FORUM SESSIONS (BY TIME)

or in-depth take on the water sector.

Auditorium Zones B and C

Welcome and Opening Remarks



Bambang Susantono Vice President (Knowledge Management and Sustainable Development) Asian Development Bank (ADB)

Moderator



Cathy Yang Anchor and Managing Editor ABS-CBN News Channel

Leadership Panel



Takehiko Nakao President **▶**@ADB_HO





Seung-Soo Han Former Prime Minister Republic of Korea



Isher Judge Ahluwalia Chairperson, Board of Governors, Indian Council for Research on International Economic Relations



Annelise Avril Suez Consulting

Parallel Sessions | 10:30 a.m.-12:00 p.m.



1.1 | Innovation in Water **Production and Diversification** of Resources

[AUDITORIUM ZONE B]

Chair: Robert Guild, Chief Sector Officer, Sustainable Development and Climate Change Department, ADB

- Highly Efficient Low-Carbon Low-Cost Desalination, Oceanit > @Oceanit
- Innovation for Desalination Plants in Remote Areas (Marshall Islands), Osmoflo
- Artificial Recharge as a Solution for Water Shortage, World Waternet ➤ @WorldWaternet
- Increasing Water Supply by Reducing Losses, Innovyze
- Water Ownership in the Age of Changing Climate Pattern, Zero Mass Water ▶@zeromasswater



Chair: Stephane Bessadi, Senior Water Utility Specialist, Sustainable Development and Climate Change Department, ADB

- Innovative Wastewater Infrastructure for Sustainable Communities, Organica Water • @OrganicaWater
- · Aerobic Granular Sludge and Microscreening: New Compact Solutions for the Energy-neutral Wastewater Treatment Plant, VA Tech WABAG ▶@vatechwabag
- R&D and Innovative Technologies in Wastewater Treatment, Public Utilities Board (PUB) Singapore @PUBsingapore
- Nakhchiyan's Urban Water Overhaul, ADB
- Wastewater Recovery in 3 countries, ARCOWA



Chair: Qingfeng Zhang, Director, East Asia Environment, Natural Resources, and Agriculture Division, ADB

- Real-time Delivery of Big Data for Flood Management, U.S. Geological Survey (USGS) > @USGS
- Data Clearing House for IWRM, Government of Punjab (Pakistan)
- Improved Solutions for Mitigation and Risk Management, International Water Management Institute (IWMI) → @IWMI_
- COMPASS-using Near Real-time Comprehensive Water Assessments, Water Future Programme
- Managed Aguifer Recharge and Aguifer Storage and Recovery, Ministry of Energy and Water (Afghanistan)

Parallel Sessions | 1:30 p.m.-3:00 p.m.



1.4 | More Tools for Integrated Water Resources Management [AUDITORIUM ZONE B]

Chair: Robert Carr, Chief Executive, eWater ▶ @eWater_

- Lessons from the Mahaweli Water Security Investment Program,
 Government of Sri Lanka
- Online Portal Supporting Flood and Drought Management in Asia, DHI DRILL GRAS
- Web-based Platform for Managing Water Resources Allocation, Stockholm Environment Institute @SElresearch
- Integration of Flood Risk Assessment into Urban Planning, Inclam
- Basin Futures Big Data Supporting Rapid Basin Scale Water Assessments, Commonwealth Scientific and Industrial Research Organisation (CSIRO)

ted ent 1.5 | Innovations in Energy for Water [MULTI-FUNCTION HALL 3]

Chair: **Priyantha Wijayatunga**, *Director*, South Asia Energy Division, ADB

- Why Should Irrigation Managers
 Worry About Energy Access?,
 International Food Policy Research
 Institute (IFPRI) @ @IFPRI
- Solar Photovoltaic Pumping for Irrigation, Bangladesh Rural Electrification Board (BREB)
- Maximizing Resource Recovery:
 Anaerobic Co-digestion of Food
 Waste and Municipal Wastewater
 Sludge, Anaergia Singapore
 @Anaergiainc
- Advanced Energy Saving
 Wastewater Treatment System for
 Sound Sanitation Development in
 Developing Countries,
 Japan Sewage Works Agency



1.6 | Guiding Investment
Decisions Based on Water
Productivity
[AUDITORIUM ZONE C]

Chair: Lance Gore, Senior Water Resources Specialist, South Asia Environment, Natural Resources, and Agriculture Division, ADB

- Variability of Field Scale Water Productivity in Different Crops on Policy, IHE Delft Meihedelft
- Evolving Thinking on Agricultural Water Productivity: Objectives, Concepts, and Contexts for Effective Water Conservation, IWMI @ @ IWMI_
- Where to Invest in the Indus Basin Irrigation System in Pakistan to Improve Land and Water Productivity?, IFPRI @@IFPRI
- Water Productivity Open-access Portal: A Tool to Monitor Water Productivity, Food and Agriculture Organization (FAO)

Plenary Session | 3:30 p.m.-4:30 p.m.

1.7 | High-Level Panel on Information, Innovation, and Technology and the Water-Food-Energy Nexus

Auditorium Zones B and C

Chair



Stephen Groff
Vice President (Operations 2)
ADB

@spgroff

Moderator



Ravi Narayanan Chair Asia Pacific Water Forum (APWF)

High-Level Panel





Kala Vairavamoorthy
CEO
International Water Association

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Mark Smith
Deputy Director General
IWMI
ONE OF THE SMITH OF THE SMITH



Changhua Wu
Vice-Chair
APWF
@ChanghuaWu

Plenary Session | 4:30 p.m.-4:45 p.m.

1.8 | A Conversation About Emerging Technologies and Water

Auditorium Zones B and C



Stephen Coulson
Head, Sustainable Initiatives Office,
Directorate of Earth Observations Programs
European Space Agency

●@ESA_E

Plenary Session | 4:45 p.m.-5:55 p.m.

1.9 | Technology and Innovation Exhibition (Demonstration and Visitation)

Auditorium Zones B and C

Demonstrations by

- ILF Consulting Engineers (Asia) Ltd. ILF will present cuttingedge construction time and budget overrun risk analysis by modeling hydro-related infrastructure projects at an unprecedented degree of detail and applying the Monte Carlo method, as well as advanced numerical 3D modeling of complex hydraulic structures as a cost- and time-efficient alternative to physical model tests.
- Jain Irrigation Systems Ltd. The company will discuss their integrated irrigation management system using drip irrigation and underground PE pipelines to connect individual farmers through automation, which will save 50% of the water, double the irrigable area, and increase farm productivity.
- Mij Co. Ltd. This Korean firm will unveil its multipurpose solar-powered water purification generators. Their portable device

- can purify contaminated water and provide adequate electricity that can specially help remote communities or areas affected by emergencies and disasters at the lowest cost.
- Stantec Inc. Stantec will focus on the benefits of a circular economy. They will introduce how reuse, recycle, and conservation technologies can yield a sustainable circular economy in the water sector using the principles of asset management.
- Xylem Analytics Xylem is involved in the instrumentation for measurement and monitoring of water, including sensors for water quantity and water quality determination. The firm will showcase multi-parameter water quality sensors, acoustic Doppler discharge measurement systems, hydrometric instruments, and data loggers.

2 | Leadership Perspective: Information, Innovation, and Technology for Water and the Private Sector

Plenary Session | 9:00 a.m.-10:00 a.m.

Auditorium Zones B and C

Moderator



Ravi Narayanan Chair, APWF

Leadership Panel



Diwakar Gupta
Vice President (Private Sector
and Cofinancing Operations)
ADB



Yumiko Noda President Veolia Japan



Stuart Orr

Practice Lead (Freshwater)

World Wide Fund for Nature (WWF)

Ostuart_Orr



Ger Bergkamp

President and CEO

ARCOWA

@GerBergkamp

Chair: Emma Veve, Director, Pacific Urban. Social Development, and Management Division, ADB

- Women Participation and Access to Safe Drinking Water Supply, **Environment and Population** Research Centre
- Building Resilience of Small Island Communities to Climate Change, Government of Kiribati
- Innovative Water Supply Solutions: Electronic Payment Water Kiosks, IMC Worldwide
- Integrated Urban Services for Low-Income Communities, Eau et Vie
- Improving Financial Resilience of Public Water Utilities in Lao PDR. Ministry of Public Works and Transport (Lao PDR)

Parallel Sessions 10:30 a.m.-12:00 p.m.



2.2 | Irrigation Advisory Services for the 21st Century [AUDITORIUM ZONE C]

Chair: Akmal Siddig, Chief of Rural Development and Food Security (Agriculture) Thematic Group, ADB

- Mainstreaming Satellite Earth Observation and Smart Technology for Addressing Water-Food Security Challenges of Asia, University of Washington **୬**@∪W
- Earth Observation Information Services to Support Agricultural Planning, Monitoring, and Management, eLeaf
- Simulation of Rain-fed Rice Yields under Climate Change (Cambodia), Thoeung Puthearamg
- Blinded by Technologies Refocusing on Stakeholders' Needs to Improve Water Management in Irrigated Rice Systems, International Rice Research Institute (IRRI) *@irri
- Digital Agriculture-based Advisories for Water Use Efficiency and Sustainable Agriculture, Microsoft/ International Crops Research Institute for the Semi-Arid Tropics (ICRISAT) → @ICRISAT



2.3 | Modeling for Risk and Resilience in IWRM [AUDITORIUM ZONE B]

Chair: Kim Wium Olesen, Head of Water Resources Department, DHI ➤ @DHI_GRAS

- Flash Flood Intelligence in the Age of Instant Communication, BMT **●** @BMT_Global
- Real-time Urban Flood Monitoring and Management System, Nihon Suido
- Novel Technique and Instrument for Early Warning of Pollution and Identification of Pollution Discharge Source, Tsinghua University **→**@Tsinghua_Uni
- Innovation and Resilience in Managing Scarce Water Resources for the United Kingdom, Ricardo Energy
- Visualization of Groundwater Flow for IWRM, Yachiyo Engineering Co. Ltd.

Parallel Sessions | 1:30 p.m.-3:00 p.m.



2.4 | Innovative Contractual Modalities [AUDITORIUM ZONE B]

Chair: Vijay Padmanabhan, Director, Southeast Asia Urban Development and Water Division, ADB

- Design-Build-Operate Contracting in the Water Sector, Exequatur
- Procurement of a Large-Scale Desalination Plant, ADB
- Contracting for Water Losses Reduction, Manila Water **№** @ManilaWaterPH
- Contractual Innovations for Water Supply, Suez > @suez
- Rural-Urban Water Management: An Innovative Business Model. IWMI



2.5 | Reforming Irrigation at Various Spatial Scales [MULTI-FUNCTION HALL 3]

Chair: Mio Oka, Director, South Asia Environment, Natural Resources, and Agriculture Division, ADB

- Moving from Data to Improving Irrigation Services: Irrigation Benchmarking for Irrigation Professionals. IWMI > @IWMI_
- Role of Innovative Systems Design for Large-Scale Development of Microirrigation (Kundalia Irrigation Project). Lahmeyer, ADB • @Lahmeyer_Int
- High-Tech Integrated Irrigation Management Solution for Increasing Irrigable Area Coverage, Farm Productivity, and Income, Jain Irrigation > @ JainIrrigation
- Climate-Smart Irrigation, FAO → @FAO
- Sustainable Use of Groundwater in Water Scarce Irrigation Systems in Dry Zone of Sri Lanka, ADB



2.6 | Water Quality and Monitoring **FAUDITORIUM ZONE C1**

Chair: Sonia Chand Sandhu, Senior Advisor to the Vice President (Knowledge Management and Sustainable Development), ADB . @Soniachand4

- Sanitation and Sustainable Development in Japan, Japan Sanitation Consortium
- Jaipur (Rajasthan): Water Scarcity and the Role of Sustainability and Transformation Plans (STPs) in Minimizing Groundwater Contamination, Manipal University Jaipur
- Decision Support for Watershed-scale Real-time Water Quality Monitoring to Determine Impacts of Urbanization on Water Treatment, USGS > @USGS
- Making Water Transparent: Innovative Water Monitoring Networks to Support Water Managers in Quickly Developing Economies, s::can Messtechnik GmbH @scanMesstechnik

Parallel Sessions | 3:30 p.m.-5:00 p.m.



2.7 | Earth Observation and Remote Sensing **Technology**

[AUDITORIUM ZONE B]

Chair: Paolo Manunta. Infrastructure Specialist (Earth Observation), Urban Sector Group, ADB

- Bathymetric Airborne LiDAR Pilot Project for Irrigation, Leica Geosystems/PTMI **▶**@LeicaGeosystems
- Applying Remote Sensing and GIS Technologies for Causality Analysis of Groundwater. Pasco Corporation
- Satellite Data Related to Water Sector, JAXA **≫**@JAXA en
- Potential of Remote Sensing Tools for Resource Monitoring, Indian Institute of Technology Bombay
- Water Sector Reform Challenge in Pvani River Basin with Comprehensive Approach and Innovative Technology, Government of Taiikistan



2.8 | Smarter Use of Water for Energy

[MULTI-FUNCTION HALL 2]

Chair: Sujata Gupta, Director, East Asia Sustainable Infrastructure Division, ADB

- Water Energy Nexus: Case of People's Republic of China (PRC), ADB
- Bankable Hydropower Projects Using Monte Carlo Simulations, ILF Consulting
- Restoration Hydro: Using Powered. Nature-based Hydrological Structures to Enhance the Resilience of, and Improve Access to. Linked Energy, Water and Food Systems, Natel Energy
- Greening Hydro: A Project on Upgrading of PRC Small Hydropower Capacity Project. United Nations Industrial Development Organization (UNIDO)
- Upgrading Dam Under Operation with Dam Piercing, Nippon Koei Co. Ltd.
- **●**@EcoSmartHydro



2.9 | Fecal Sludge Management (FSM)

[MULTI-FUNCTION HALL 3]

Chair: Jingmin Huang, Principal Urban Development Specialist, South Asia Urban Development and Water Division, ADB

- Sustainable Fecal Sludge Business in Developing Countries, IWMI > @ | WMI_
- Mainstreaming FSM in Rajasthan, ADB
- The Circular Sanitation Economy, The Toilet Board Coalition . The Toilet Board
- Transformative Sanitation Technologies: A New Path to Safe Sanitation for All, Bill and Melinda Gates Foundation gatesfoundation



2.10 | Utility Asset Management

[AUDITORIUM ZONE C]

Chair: **Stefan Rau**, Senior Urban Development Specialist, ADB

- Trenchless Technologies for Water Networks Laying, Bessac
- Smart Solutions for Efficient Water Networks, Georg Fischer @georgfischer
- Innovations for Circular Economy: Asset Management for Water. Stantec > @Stantec
- High-Performance Utilities through GIS and Advanced Asset Management, Altereo
- The Business Value of GIS in Managing Water Systems, Nobel Systems ➤ @NobelSystems

2.11 | Technology and Innovation Exhibition (Demonstration and Visitation)

Demonstrations by

AUDITORIUM ZONE B

- Britishwater Inc. Britishwater will explain the advantages of "Source Control" as applied to flooding or stormwater, rainwater harvesting, recycling, and reuse. Two products will also be presented: a modular/cellular box for storage of rain or stormwater, and hydro-cyclone or hydro-brake for rain/ stormwater quantity and quality control.
- Nippon Koei Co. Ltd. This firm will present (i) real-time flood prediction model with AI and (ii) infrastructure design using BIM/CFD/VR. These technologies perform better compared to other models and provide more efficiency through experience and developing empathy.
- Veragon Water Solutions Ltd. Veragon provides proven "air to water" solutions supplying mineralized drinking water. With minimal power consumption from variable power sources and simple operations—it's the sustainable water of the future.

AUDITORIUM ZONE C

- Aurea Imaging The firm will feature drones and thermal cameras and how these measure plant and soil moisture conditions and data cubes of modeled irrigation and drained fields with high value crops. These show the scope of improving water productivity through big data.
- K-water K-water will present smart water management technologies related to smart ground water monitoring, flood monitoring, water facility energy efficiency improvement, water treatment plant improvement, smart NRW management, and for the water-energy nexus.
- In-Situ Inc. In-Situ will demonstrate the AguaTROLL 600-Multiparmater water quality instrument to show forum participants how easy and reliable it is to operate in the field without any additional accessories.

Plenary Session | 6:00 p.m.-6:30 p.m.

2.12 | Special Film Screening: A Plastic Ocean

Auditorium Zone B Chair



Daniele Ponzi Chief of Environment Thematic Group ADB

Introduction by Documentary Director

Craig Leeson Global Chief Evangelist Plastic Oceans International

#AWF2018

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3 | Leadership Perspective: Information, Innovation, and Technology and the Enabling Environment

Auditorium Zones B and C

Session Opening



Hak-soo Lee <-water @Kwater_twitt

Moderator



Ravi Naravanan Chair **APWF**

Leadership Panel



Amy Leung Director General, East Asia Department **ADB**



Don Blackmore Chair eWater



Ek Sonn Chan Secretary of State, Ministry of Industry and Handicraft Government of Cambodia



Seong-Han Kim Vice President and Chief Research Officer K-water @Kwater_twitt

Parallel Sessions | 10:30 a.m.-12:00 p.m.



3.1 | Building Leaders and **Capacities for Water Utilities FAUDITORIUM ZONE C1**

Chair: Ye Yong, Director, Central and West Asia Urban Development and Water Division, ADB

- A New Serious Game to Simulate Strategic Management for Utilities, Agro Paris Tech, HueWaco @AgroParisTech, @HueWACO
- Tomorrow's Women Water Leaders of Lao PDR and the Gender and Development Cooperation Fund, Ministry of Public Works and Transport (Lao PDR)
- Improving Water Services through Integrity Mechanism, Stockholm International Water Institute (SIWI) **≫**@siwi_water
- Operational Management and Capacity Building, Suez > @suez
- Financial Transformation of Utilities: The Cambodia Experience, Government of Cambodia



3.2 | Innovative Tools for Water Resources Assessment [MULTI-FUNCTION HALL 3]

Chair: Jiangfeng Zhang, Director, Southeast Asia Environment, Natural Resources, and Agriculture Division, ADB

- Water Accounting in Asia: From Governmental Statistics to Spatially Discrete and Absolute Water Resources Information, IHE Delft @ihedelft
- Piloting Australia's Water Tools to Improve Drought Resilience in Cambodia: Support for the UNESCAP Drought Mechanism, eWater @eWater_
- WA+ Framework: Case Study from Cambodia, Government of Cambodia
- Characterizing Flood-based Farming Systems in the Averwaddy Delta of Myanmar, IWMI ➤@IWMI_



3.3 | Enhancing Climate Resilience [AUDITORIUM ZONE B]

Chair: Donneth Walton, Director, Central and West Asia Environment. Natural Resources, and Agriculture Division, ADB

- The Journey toward Resilient Rivers: Embracing Innovation, International RiverFoundation (IRF)
- Innovative Governance for Cloudburst Resilience: Upscaling, World Waternet > @WorldWaternet
- Resilient Asian Deltas: Protecting One Billion People from Climate Change, WWF **→** @WWF
- Contribution on Water-related Disaster Risk Reduction in Asia Pacific. International Centre for Water Hazard and Risk Management (ICHARM)
- Structural Solutions to Mitigate Flood and Riverbank Erosion Disasters. ADB

Parallel Sessions | 1:30 p.m.-3:00 p.m.



3.4 | Efficient Water Distribution and Smart Systems [AUDITORIUM ZONE B]

Chair: Hisaka Kimura. Advisor. Private Sector Operations Department, ADB

- Smart and Internet of Things Innovations for Water Supply, Schneider-Aveva @SchneiderElec
- Application of Smart Grids to Drinking Water Monitoring, ICUWHRI
- Transitioning to Safely Managed Rural Drinking Water for SDG Delivery, University of Oxford ➤ @UniofOxford
- Shenzhen PRC Smart Solutions. ADB
- Appropriate Smart Water Management Application Procedures and Cases, K-water > @Kwater_twitt



3.5 | Governance and Financing [AUDITORIUM ZONE C]

Chair: Chiara Bronchi, Deputy Director General concurrently Chief Thematic Officer, Sustainable Development and Climate Change Department, ADB

- Youth for Water and Climate. Global Water Partnership (GWP) @GWPnews
- Financing to Support Sound Water Cycle Management, Japan Water Forum
- An Operational Framework for Climate Resilient Water Management, Oxford Policy Management
- Improving the Bagmati River, the Lifeline of Kathmandu City. ADB, Ministry of Urban Development (Nepal)
- Application of River Chief System for Ecological Protection, ADB



Chair: Daniele Ponzi, Chief of Environment Thematic Group, ADB

- Source-to-Sea Approach: An Innovation in Governance, SIWI
- Opportunities and Constraints for Addressing Marine Pollution in East Asia, Partnerships in Environmental Management for the Seas of East Asia (PEMSEA) • @PEMSEA
- The Manila Bay Rehabilitation Program: Evolving through Time, Manila Bay Coordinating Office **→**@DENROfficial
- Tackling Marine Pollution: Future Directions, ADB
- Rethink Plastics. Plastic Oceans International @PlasticOceans

3.7 | High-Level Panel on Attaining the SDGs through Information, Innovation, and Technology

Auditorium Zones B and C

Chair



WooChong Um Director General, Sustainable Development and Climate Change Department ADB **→**@WoochongU

Moderator

Plenary Session | 3:30 p.m.-4:30 p.m.



Ravi Narayanan Chair **APWF**

High-Level Panel



Isher Judge Ahluwalia Chairperson, Board of Governors **ICRIER**



Ross Hamilton Interim Chair GWP **≫**@GWPnews



Eva Abal CEO International RiverFoundation



Tagsem Khan Managing Director, Dhaka Water Supply and Sewerage Authority Government of Bangladesh

Closing Plenary | 4:30 p.m.-4:55 p.m.

3.8 | Closing Address and Awarding of the #WaterYouDoing Youth Photo Competition

Auditorium Zones B and C

Awarding Presider



Bambang Susantono Vice President (Knowledge Management and Sustainable Development) ADB

Chair and Closing Address

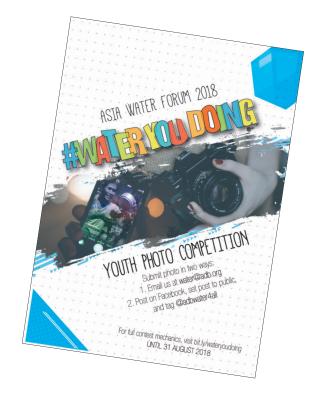


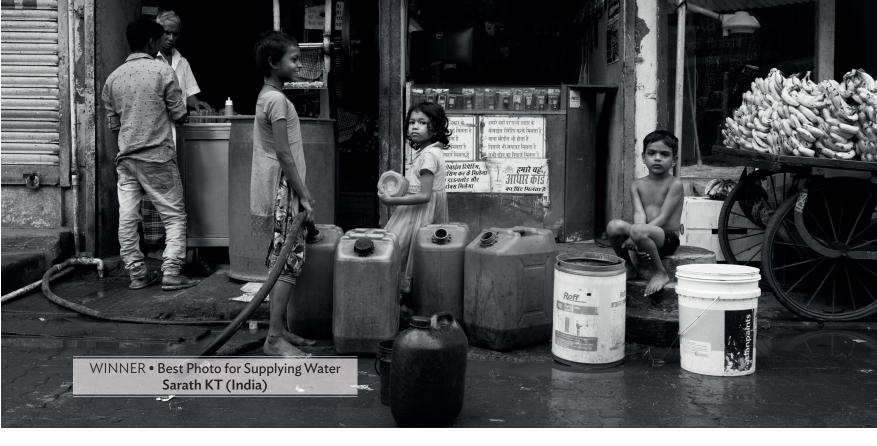
WooChong Um

Director General, Sustainable Development and Climate Change Department

ADB

■ @WoochongU





FORUM SESSIONS (BY ACTIVITIES)





1.1 | Innovation in Water Production and Diversification of Resources

2 October, Tuesday, 10:30 a.m.–12:00 p.m. AUDITORIUM ZONE B

2.1 | Resilient Water Supply Systems

3 October, Wednesday, 10:30 a.m.–12:00 p.m. MULTI-FUNCTION HALL 3

2.4 | Innovative Contractual Modalities

3 October, Wednesday, 1:30 p.m.–3:00 p.m. AUDITORIUM ZONE B

2.10 | Utility Asset Management

3 October, Wednesday, 3:30 p.m.–5:00 p.m. AUDITORIUM ZONE C

3.1 | Building Leaders and Capacities for Water Utilities

4 October, Thursday, 10:30 a.m.–12:00 p.m. AUDITORIUM ZONE C

3.4 | Efficient Water Distribution and Smart Systems

4 October, Thursday, 1:30 p.m.–3:00 p.m. AUDITORIUM ZONE B





1.2 | Innovative Treatment Technologies for Wastewater

2 October, Tuesday, 10:30 a.m.–12:00 p.m. MULTI-FUNCTION HALL 3

2.6 | Water Quality and Monitoring

3 October, Wednesday, 1:30 p.m.–3:00 p.m. AUDITORIUM ZONE C

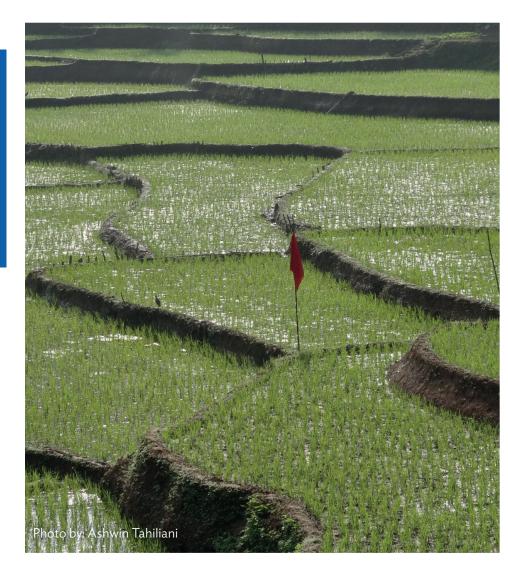
2.9 | Fecal Sludge Management (FSM)

3 October, Wednesday, 3:30 p.m.–5:00 p.m. MULTI-FUNCTION HALL 3

3.6 | Curbing Marine Pollution

4 October, Thursday, 1:30 p.m.–3:00 p.m. MULTI-FUNCTION HALL 3

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1.6 | Guiding Investment Decisions Based on Water Productivity

2 October, Tuesday, 1:30 p.m.–3:00 p.m. AUDITORIUM ZONE C

2.2 | Irrigation Advisory Services for the 21st Century

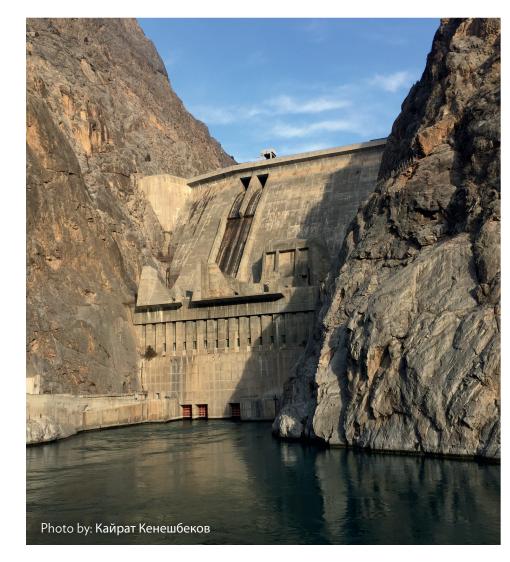
3 October, Wednesday, 10:30 a.m.–12:00 p.m. AUDITORIUM ZONE C

2.5 | Reforming Irrigation at Various Spatial Scales

3 October, Wednesday, 1:30 p.m.–3:00 p.m. MULTI-FUNCTION HALL 3

3.2 | Innovative Tools for Water Resources Assessment

4 October, Thursday, 10:30 a.m.–12:00 p.m. MULTI-FUNCTION HALL 3





1.5 | Innovations in Energy for Water 2 October, Tuesday, 1:30 p.m.–3:00 p.m. MULTI-FUNCTION HALL 3

2.8 | Smarter Use of Water for Energy 3 October, Wednesday, 3:30 p.m.–5:00 p.m. MULTI-FUNCTION HALL 2





1.3 | Innovative Tools for Integrated Water Resources Management (IWRM)

2 October, Tuesday, 10:30 a.m.–12:00 p.m. AUDITORIUM ZONE C

1.4 | More Tools for IWRM

2 October, Tuesday, 1:30 p.m.–3:00 p.m. AUDITORIUM ZONE B

2.3 | Modeling for Risk and Resilience in IWRM

3 October, Wednesday, 10:30 a.m.–12:00 p.m. AUDITORIUM ZONE B

2.7 | Earth Observation and Remote

Sensing Technology
3 October, Wednesday, 3:30 p.m.–5:00 p.m.
AUDITORIUM ZONE B

3.3 | Enhancing Climate Resilience

4 October, Thursday, 10:30 a.m.–12:00 p.m. AUDITORIUM ZONE B

3.5 | Governance and Financing

4 October, Thursday, 1:30 p.m.–3:00 p.m. AUDITORIUM ZONE C



WORKSHOPS

1 | Boosting Effectiveness for Water Operators Partnerships

Global WOPs Alliance, UN-HABITAT, ADB • 9:00 a.m.-3:30 p.m., Multi-Function Hall 2

In this workshop, participants will learn from Asian Water Operators' Partnerships (WOPs) practitioners' own experiences and will be introduced to various tools being produced through the "Boosting Effectiveness of WOPs (BEWOP)" Program.

2 | Nonrevenue Water Management

Suez Consulting, Suez Technical Center, Suez Southeast India • 9:00 a.m.-3:30 p.m., Multi-Function Hall 3

The workshop provides a holistic approach for water utilities to manage nonrevenue water. Suez will discuss tools that address both technical and organization issues within the water utility and deliver sustainable outcomes.

3 | Earth Observations for Water Resources Management

European Space Agency, eLeaf, DHI GRAS • 9:00 a.m.-3:30 p.m., Lecture Theater 2

This seminar will seek to demonstrate how earth observation can support water resources management, agriculture, and international development assistance including the monitoring and reporting requirements of the Sustainable Development Goals.

4 | Australian WaterTools for Water Management

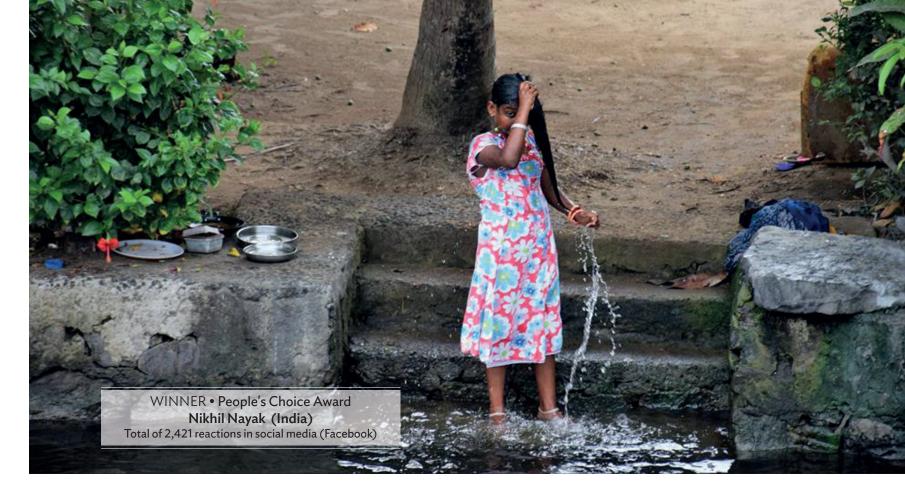
eWater, Bureau of Meteorology (BOM), Geosciences Australia • 9:00 a.m.-12:00 p.m., Auditorium Zone B

This workshop will present Australia's core national-scale modeling tools which have underpinned policy development and implementation, and outlined a pathway for engagement with countries who wish to more rapidly improve their management of water scarcity.

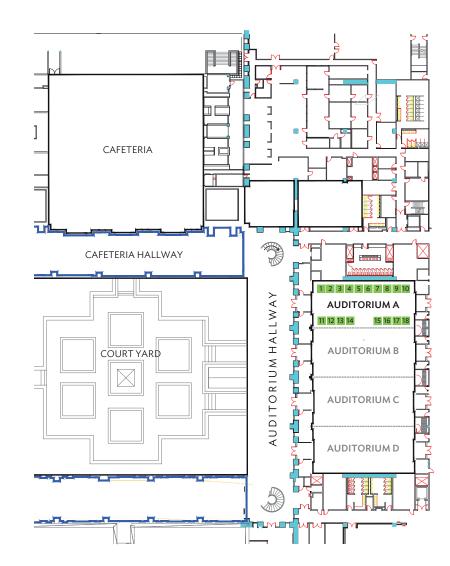
5 | Water Price Regulation in New South Wales, Australia

IPART New South Wales • 9:00 a.m.-12:00 p.m., Auditorium Zone C

This workshop includes discussions on water pricing, external benefits and subsidies, efficiency incentive mechanisms, supply volatility mechanisms, and customer engagement in price determination.

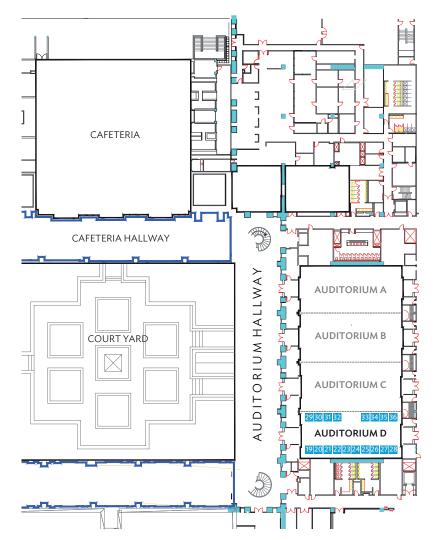


TECHNOLOGY AND INNOVATION EXHIBITION



Auditorium Zone A Exhibit Area Booths 1 to 18

- 1. In Situ, Inc.
- 2. Organica Water Inc.
- 3. Xylem Analytics
- 4. Suez Consulting
- 5. Nobel Systems, Inc.
- 6. Stantec
- 7. Zero Mass Water
- 8. VA Tech WABAG
- 9. Veragon Water Solutions Ltd.
- 10. Grundfos Pumps (Philippines), Inc.
- 11. Georg Fischer Piping Systems
- 12. Nippon Koei Co., Ltd.
- 13. Britishwater, Inc.
- 14. Geodata Systems Technologies, Inc.
- 15. Nihon Suido Consultants Co., Ltd.
- 16. ILF Consulting Engineers (Asia) Ltd.
- 17. Fluence Corporation Limited
- 18. Irrigation Australia and ICE WaRM



Auditorium Zone C Exhibit Area Booths 19 to 36

19. EO4SD / eLEAF, DHI GRAS

20. Ricardo Energy and Environment

21. Fujitsu Limited

22. ICHARM

23. OYO Corporation

24. Pasco Corporation

25. Jain Irrigation Systems Ltd.

26. Landell Mills

27. Innovyze

28. Aurea Imaging

29. Agseptence Group Gmbh

30. Samjin Precision

31. Rezatec

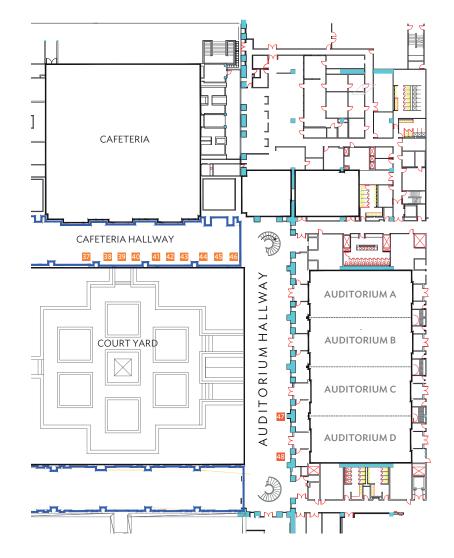
32. Adasa Sistemas

33. E. Hawle Armaturenwerke Gmbh

34 Tintometer Gmbh

35. Leica Geosystems and PT Map Tiga Internasional

36. Tetra Tech



Cafeteria Hallway Exhibit Area Booths 37 to 46

- 37. Japan Water Agency
- 38. Japan Water Forum
- 39. Maynilad Water Academy
- 40. United Nations Industrial Development Organization
- 41. Australian Water Partnership / eLeaf
- 42. International Riverfoundation
- 43. Commonwealth Scientific and Industrial Research Organisation
- 44. United States Geological Survey
- 45. K-water
- 46. International Water Management Institute

Auditorium Hallway Booths 47 to 48

- 47. Mij Co. Ltd.
- 48. Metro Pacific Water



PRACTICAL INFORMATION

DAILY SUBSISTENCE ALLOWANCE FOR ADB-FUNDED PARTICIPANTS

To claim daily subsistence allowance (DSA), ADB-funded participants should submit their original boarding passes and a copy of their air ticket (e-ticket) to the AWF 2018 Secretariat (Ms. Carmela Fernando-Villamar, cvillamar@adb.org, Tel: +632 632 6650) on 2 October (Tuesday) at Annex 2. This will facilitate release of the allowance on 3 October (Wednesday) during session breaks (morning, lunch, afternoon) and after the last session.

For those who have purchased their own tickets on own account, please also provide the original official receipt for reimbursement of your airfare.

FOOD AND DRINKS

Coffee will be available starting at 8:00 a.m. Morning and afternoon snacks will be served at the Auditorium Gallery during the session breaks. Daily lunches (2–4 October) will be served at the Executive Dining Room located at the second floor, which can be accessed using the spiral staircase near the auditorium. Halal and vegetarian meal options will be provided.

ADB will host welcome cocktails in the evening of 2 and 3 October. Participants are encouraged to use this time to broaden their networks, get to know water sector peers, and visit the exhibition booths. Please be aware of voice-over announcements or the forum's digital announcement screen for any sudden venue changes.

PRESENTATIONS AND OTHER MATERIALS

For environmental reasons, no presentation printouts will be provided. These will eventually be uploaded online and can be accessed through the event app or our website. Forum photos will be released after the event. As for water-related publications, please check the app, and for limited physical copies, see table outside the auditorium.

FACILITIES AND SERVICES INSIDE ADB

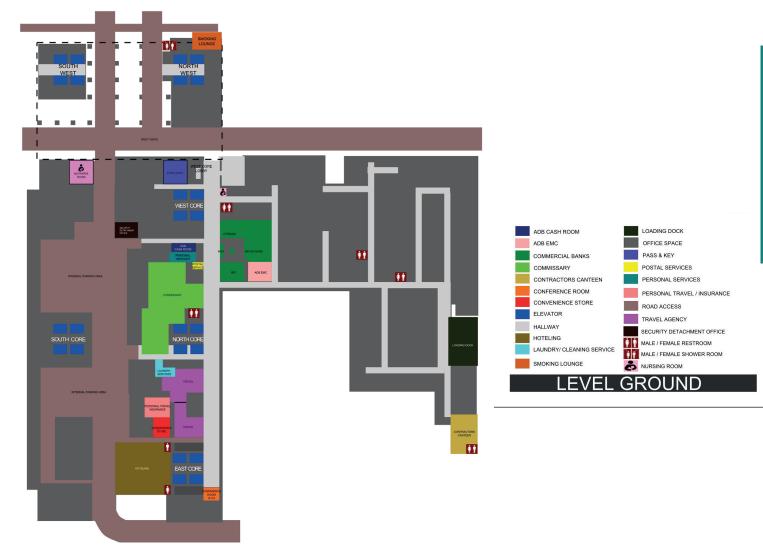
The main venue of AWF 2018 will be at the ADB Auditorium. Zones B and C will be used for the plenary and most of the parallel technical sessions, while zones A and D, as well as the cafeteria hallway, will be used for the exhibition. For speakers, pre-session briefings will be conducted at Annex 1. For ADB-funded participants, processing of reimbursements will be done at Annex 2. Directional signs will be posted to assist participants in finding their way around the venue.

- 1. ADB Cafeteria Level 1, Special Facilities Block
- 2. ADB Cashier Ground Floor, Office Tower Building
- 3. Commercial Banks (Metrobank, BPI, BDO, Citibank) Ground Floor, Office Tower Building
- 4. Coffee and Snacks Stalls (Starbucks, Figaro, Old Swiss Inn, and Bo's Coffee) Level 1
- 5. Convenience Store Ground Floor, Office Tower Building
- 6. Library Level 1, Office Tower Building
- 7. Medical/Dental Clinic Level 2, Special Facilities Block
- 8. Nursing Room Ground Floor, Office Tower Building (outside West Core)
- 9. Personal Counter (courier services, phone cards, etc.) Ground Floor, Office Tower Building
- 10. Pharmacy Level 2, Special Facilities Block
- 11. Post Office Ground Floor, Office Tower Building
- 12. Travel Agencies Ground Floor, Office Tower Building

Calls and Wi-Fi Connection

- Local calls may be made from telephones located outside the auditorium.
- Free Wi-Fi is available inside ADB. The login password is indicated in your guest identification card (ID) and can also be seen at the auditorium reception desk.





CONTACT THE AWF 2018 SECRETARIAT

For concerns on program and speakers:

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For concerns about the workshops:

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For queries on accommodations, exhibition, and logistics:

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Asia Water Forum 2018 Coordinator
Tel: +632 632 6970 | Email: dvcustodio.consultant@adb.org

For allowances of ADB-funded participants:

Carmela Fernando-Villamar Operations Analyst Tel: +632 632 6650 | Email: cvillamar@adb.org

In case of emergency, call the ADB Incident Coordinator at +632 632 5220.

Asia Water Forum 2018

Information, Innovation, and Technology

The Asia Water Forum is the flagship knowledge sharing event of the Asian Development Bank on the water sector. It is an inclusive and wide-ranging platform that convenes stakeholders from governments of developing member countries, private sector, development partners, research institutions, academia, civil society, and the youth to discuss innovative solutions and best practices that would best address the issues and challenges affecting the region's water security. The forum is also a venue to change mindsets and accelerate efforts toward the achievement of Sustainable Development Goal 6, water and sanitation for all.

About the Asian Development Bank

ADB is committed to achieving a prosperous, inclusive, resilient, and sustainable Asia and the Pacific, while sustaining its efforts to eradicate extreme poverty. Established in 1966, it is owned by 67 members—48 from the region. Its main instruments for helping its developing member countries are policy dialogue, loans, equity investments, guarantees, grants, and technical assistance.

