



ADB Business Opportunities Water Sector Group

Germany, 24 November 2020

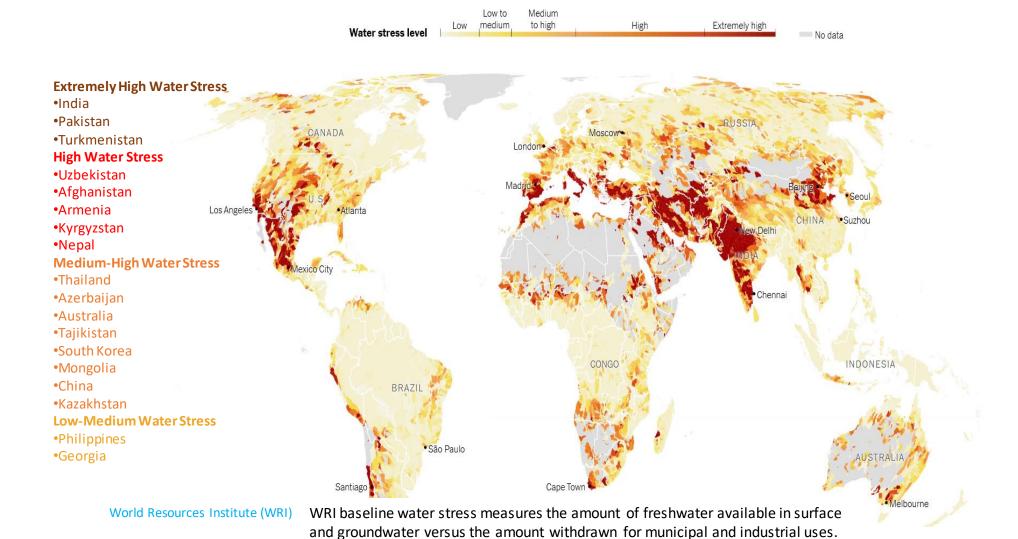


Jacob Veerman, Sr. Water Resources Specialist ADB jveerman@adb.org





ADB Countries with High Baseline Water Stress



Higher values indicate higher water risk.





Asia's Looming Water Crisis

- Urbanization
- Increasing and competing demand
- Access to water supply and sanitation
- Deteriorating water quality
- Food security
- Increasing extreme weather events and climate change
- Governance and capacity















Water challenges for achieving SDG6: Clean water and sanitation: Key Facts

Worldwide

- 4.5 billion people lack to basic sanitation
- 2.1 million people lack access to safe drinking water

Asia and the Pacific

- 370 million people lack to basic sanitation
- 165 million people lack access to safe drinking water
- 50 million practice open defecation

Worldwide Insufficient funds

Required: \$114 billion investments/year

- available: less than \$5 billion (donor funds)
- public funds are not enough
- private finance (total: \$157.2 billion): only 1.36% (\$2.14 billion)
 invested in water & sanitation (2012-2017)

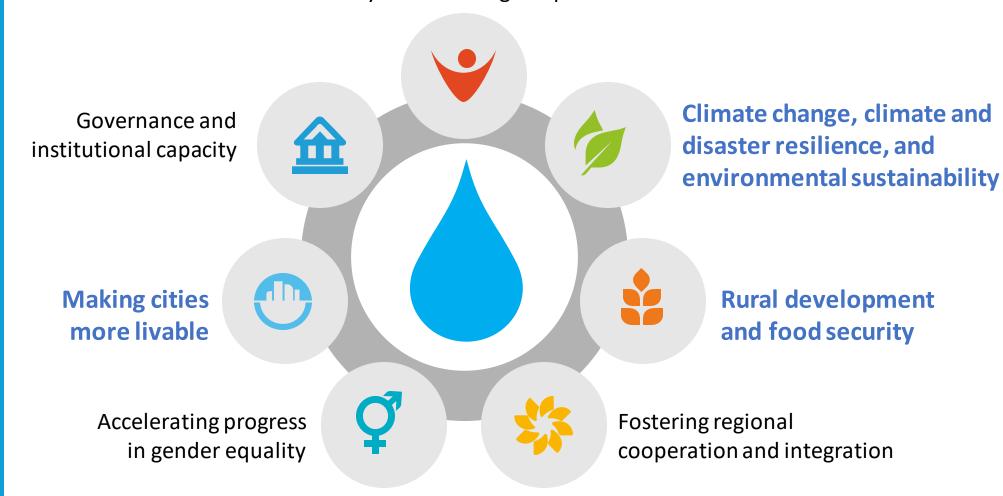


1 Overview of ADB's Water Sector



Strategy 2030: Seven Operational Priorities

Poverty and reducing inequalities





Holistic and Integrated Approach



Innovation and Trends Across the Water Portfolio







Technology and data

GIS, decision support systems, supervisory control and data acquisition (SCADA), wireless sensor and pressure management, solar powered wastewater treatment, reuse of wastewater, remote sensing/satellite

Integrated projects, climate resilience, environment

stronger urban and rural linkages, environmental conservation, sponge cities for flood management, disaster and climate resilient infrastructure

Governance, performance and capacity building reforms

water user associations, regulatory reforms, tariff policy, non-revenue water reduction, private sector management, performance-based urban governance incentives, river basin and water resources management institutions

NEP: Mechanized Irrigation Innovation Project - sustainable groundwater pumping system for large-scale network, \$0.5M TRTA WFPF support

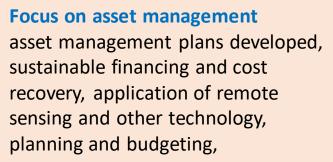
PRC: Henan Dengzhou Integrated River Restoration and Ecological Protection Project – designed with upstream and downstream linkages and urban-rural integration, \$0.1M TRTA WFPF support

PAK: Khyber Pakhtunkhwa Water Resources Development Project – training farmers and water users association on water conservation and climate-smart irrigation, \$0.3M TRTA WFPF support



Innovation and Trends Across the Water Portfolio





IND: Cauvery Delta Sustainable
Irrigation and Flood Project – water
resources information system and
asset management system to
monitor and prioritize O&M of
water infrastructure, \$0.2M WFPF
support



Innovative financing and transaction mechanisms results based lending, sector development programs, local currency, bonds, prepaid metering, public private partnership, DBO contracts

KIR: South Tarawa Water Supply Project – 5-year O&M contract for water supply network and desalination plant, \$0.12M TRTA WFPF support



Nature-based Solutions sustainable management and use of nature for tackling socioenvironmental challenges



VIE: Secondary Green Cities

Development Project - integrates
green features in urban drainage,
flood protection works using
environmentally-friendly materials,
\$0.3 M TRTA WFPF support



Water is the primary medium through which we will feel the effects of climate change*

- WSG is creating a knowledge product for water sector climate change adaptation and mitigation. (i)
 prepare and implement projects, (ii) build awareness and capacity for staff and DMC counterparts,
 and (iii) knowledge management.
- "Asia-Pacific Water Resilience and Climate Change Approach 2030", WSG develops a work plan to further integrate climate change into operations and DMC investment planning and policy development.
- The WSG will expand its partnerships and external engagement to strengthen its climate change program, through events such as the Global Adaptation Summit in January 2021 and COP 26 in November 2021.

*UN Water







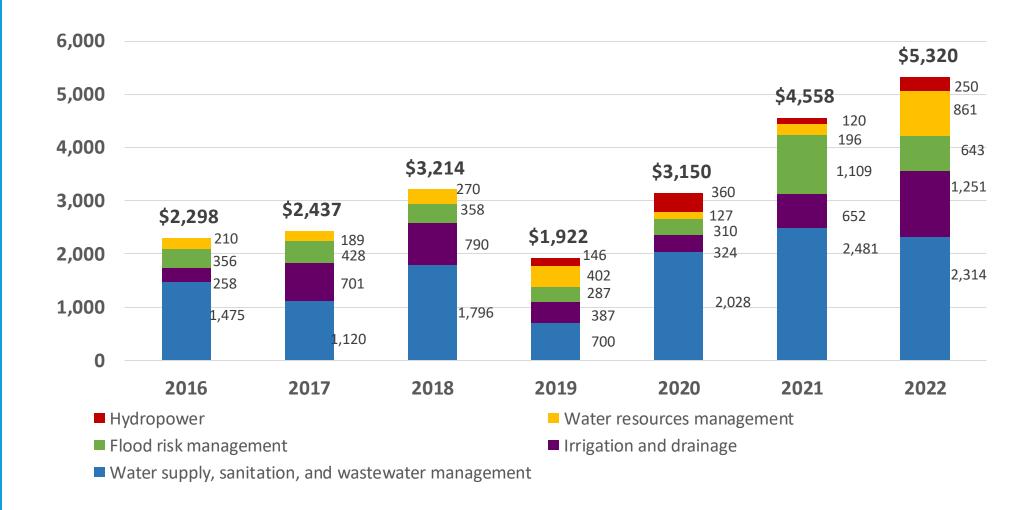


2 WSG Operations and Achievements



WSG Lending History and Pipeline by Subsector

(in \$ Million)

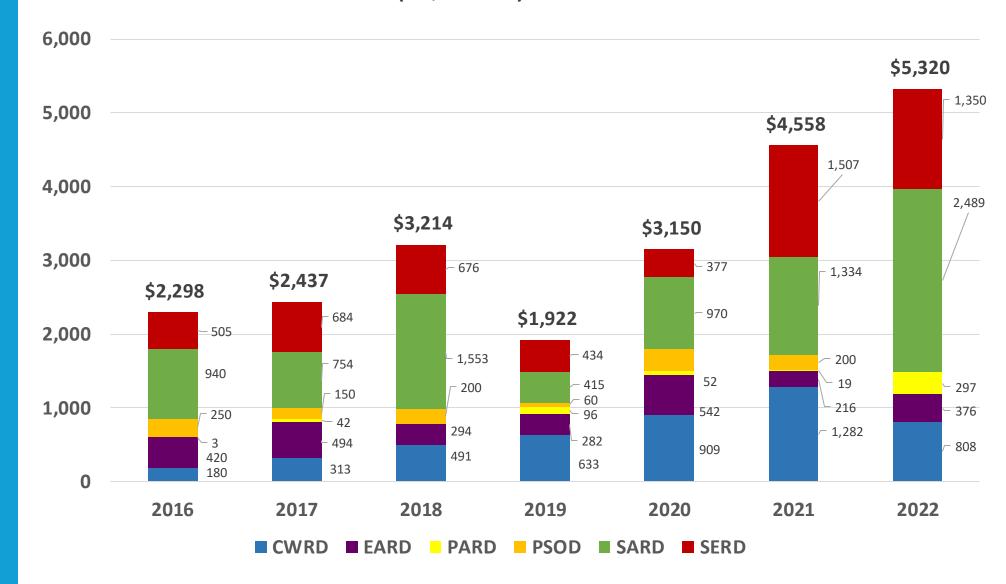






WSG Lending History and Pipeline by Operational Department

(in \$ Million)



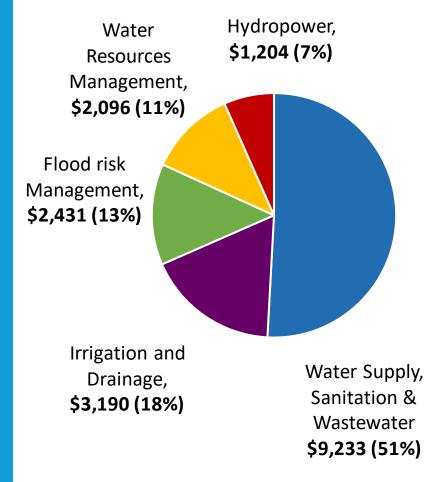




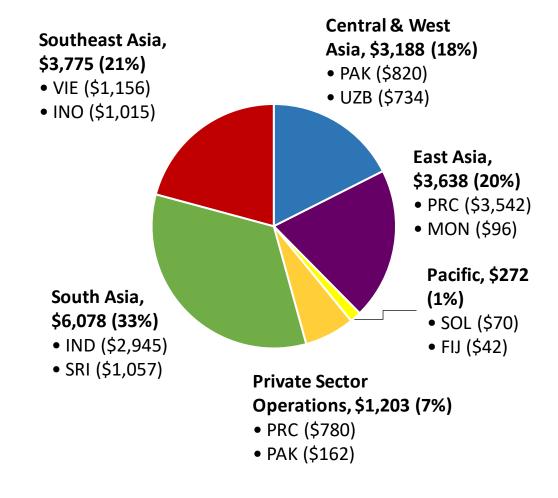
ACTIVE WSG PROJECTS

(in \$ Million, as of July 2020)

BY SUBSECTOR



BY OPERATIONS DEPARTMENT





Water and Sanitation Rebuilding and Resilience post-COVID-19



Key themes WASH:

Drinking water Safe Water Enterprises

Household water treatment & safe storage

Sanitation Toilet economy

Circular sanitation economy

Water Resources Management

Recharge, Retention and Reuse (3R)

Water efficiency





ADB Water Sector Group Challenge: "Making Water Count"

- Bridge the Service and Finance gaps:
 "missing link between solution and funding"
- Innovation, sustainability and inclusion
 What? How? for Whom?:
- Using grant money to mobilize public & private capital
- Supporting innovations to scale up
- Identifying viable solutions: "make solutions investment ready"
- Catalyzing an enabling environment: "missing middle"





Water and Sanitation (post) COVID-19:

5 areas to focus on:

- Raise public awareness about hand hygiene
- Strengthen infection prevention and control
- Guarantee that everyone has access to a minimum level of water and sanitation
- Ensure the continuity and safety of water and sanitation services
- Provide practical and financial support to water and sanitation service providers





Upscaling Water, Sanitation, Hygiene (WASH) + Health





Initiatives for WASH + Health

- Knowledge project: Mitigate the Impact of COVID-19 through Community-Led Interventions (US\$2 million)
- Knowledge project: Strengthening Integrated and Effective Water and Health Outcomes in Asia and the Pacific (US\$2 million, 2020)
- India Project Grant: Infection Prevention and Control of COVID-19 through WASH Services Improvement for Integrated Pandemic and Disaster Risk Management for the Urban Poor in Chennai (USD\$2 million)
- Nepal Project Grant: Improving Preventive Hygiene Behaviors in 4 municipalities (US\$ 5 million)
- Strengthening WASH Practices and Hygiene Behavioral Change in the Pacific (USD\$5 million, 2020)





The New Normal and Associated Water Sector Investments

- More inclusive WASH: Strengthening linkage between WASH, health and wastewater infrastructure.
- *Acceleration of the digital utility
- Ruilding capacity and strengthening financial sustainability of water service providers
- increased safe and resilient water service provision
- Building resilience to absorb shocks and stresses due to pandemics, disasters, and climate change.
- Rrioritize resumption of critical capital works and infrastructure maintenance and inspections.
- Diversification of supply chains Irrigation and drainage modernization.
- *A green and nature-positive recovery.





Water and Disasters and COVID-19

HELP: High Level Expert Leaders Panel Principles DRR and COVID-19 Pandemic

HELP Principles

ADB Activities

Principle 1: Enhance leaders' awareness



Engaged firm for developing risk communication plans

Principle 2: Integrate risk management



Revising disaster policy to include pandemics

Principle 3: Provide clean water, sanitation and hygiene (WASH)

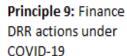


Expanding WASH program within ADB and developed a new Water and Health Advisory Team

Principle 5: Protect scarce medical resources



Providing \$48 million technical assistance funds for emergency supplies



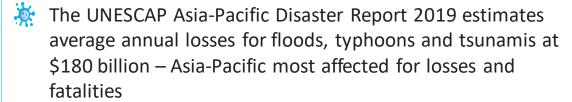


Providing \$20 billion COVID-19 response package

Principle 10: Strengthen global solidarity and international cooperation



Coordinating with HELP and other IFIs



- ADB Contingent Disaster Financing revised to include Health 8 Pacific Islands countries have disbursed for typhoons and COVID-19
- ADB disaster co-occurrence project design: Integrated Pandemic and Flood Resilience for the Urban Poor in Chennai, India















THANK YOU!

Jacob Veerman

Sr. Water Resources Specialist ADB
tpanella@adb.org

