



Resilience and Decarbonization: Capacity Building and Roadmap Preparation for Water Utilities

The Asian Development Bank (ADB) Water Sector Group, in collaboration with Deltares, Dr. Craig Hart of Johns Hopkins University, and Andreas Biermann of Globalfields, is launching an online training course entitled “Resilience and Decarbonization: Capacity Building and Roadmap Preparation for Water Utilities,” to be held from January to March 2023. The Resilience and Decarbonization (R&D) Roadmap training, focusing on water utilities and comprising a series of webinars under the [Asia and the Pacific Water Resilience Hub](#), aims to support ADB’s executing and implementing agencies and staff by introducing planning approaches to promote adaptation and decarbonization in their projects and operations. These approaches will also support efforts to achieve Paris Alignment for their projects and operations. The Paris Agreement aims to keep the rise in global temperatures to well below 2°C, preferably to 1.5°C, compared to pre-industrial levels and it is supported by all ADB member countries.

Why Resilience and Decarbonization?

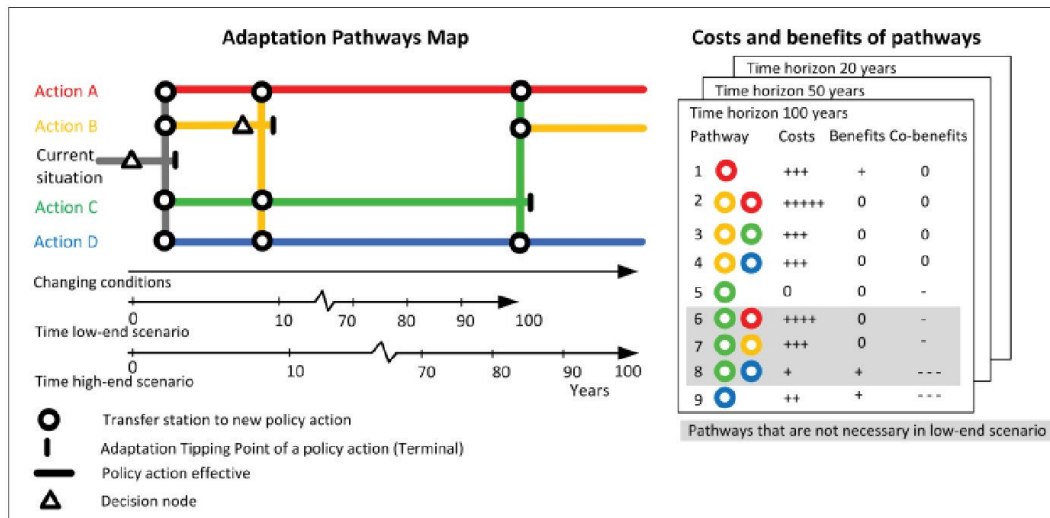
The water sector is highly vulnerable to the effects of climate change as climate change manifests itself primarily through changes in the water cycles affecting availability, quality and quantity of water. It is also one of the most important sectors to help the region adapt to climate change.

In addition, with global water use, storage and distribution responsible for around 10 percent of global greenhouse gas (GHG) emissions, there has never been a more important time for the sector to transform its approach to water and wastewater services.

This cycle of Resilience (R) and Decarbonization (D) is leading more utilities to set net-zero targets.¹ Learning about and building an R&D roadmap will enable water sector entities and ADB staff supporting these entities and preparing projects to deal with increasing uncertainty in climate and socio-economic development and a rapidly changing environment.

What Are Adaptation Pathways?

Adaptation pathways are sequences of adaptation measures over time. Some pathways show promising results in the short term but may fail when conditions change. Other pathways are not realistic under current conditions but may become cost effective in the future. Adaptation pathways include provisions for future adaptation as conditions change and knowledge is gained. Adaptation pathways planning does not require the selection of the most likely scenario to form the basis for a final decision or development plan—options are kept open to flexibly adapt to a range of potential scenarios.



Sample illustration of adaptation pathways.

The adaptation pathways approach may be applied as a basic framework for developing R&D roadmaps by including opportunities to mainstream resilience and decarbonization and finding win-win solutions that can simultaneously promote both adaptation and mitigation.

Source: www.deltares.nl/en/adaptive-pathways

Training Components

The 6-week R&D Capacity Building and Roadmap Preparation Training will include the following:

- A virtual group training for ADB staff and their implementing agencies to provide the basics of Paris Alignment, adaptation and decarbonization.
- Virtual dedicated training and discussions with individual agencies and ADB staff working with them to assist in the formulation of their respective roadmaps in more detail.
- Final virtual group discussion among all participating agencies and staff on the roadmaps prepared during the course and virtual distribution of certificates.
- Virtual support for questions after the course is concluded.

Who Can Join

ADB staff and executing and implementing agencies, primarily in the water sector.

Up to 10 water sector agencies will be enrolled in the program, and three people per agency will be selected to participate in the trainings. In addition, around 15 ADB staff and water utilities among ADB executing and implementing agencies will be selected to join the training.

Apply via the QR code or the link below:



<https://forms.office.com/r/BX0Z9JbiEK>

Deltares

Globalfields

¹ Global Water Intelligence. [Water Without Carbon: The Net Zero Utilities Observatory](https://www.gwi.com/insights/water-without-carbon-the-net-zero-utilities-observatory).