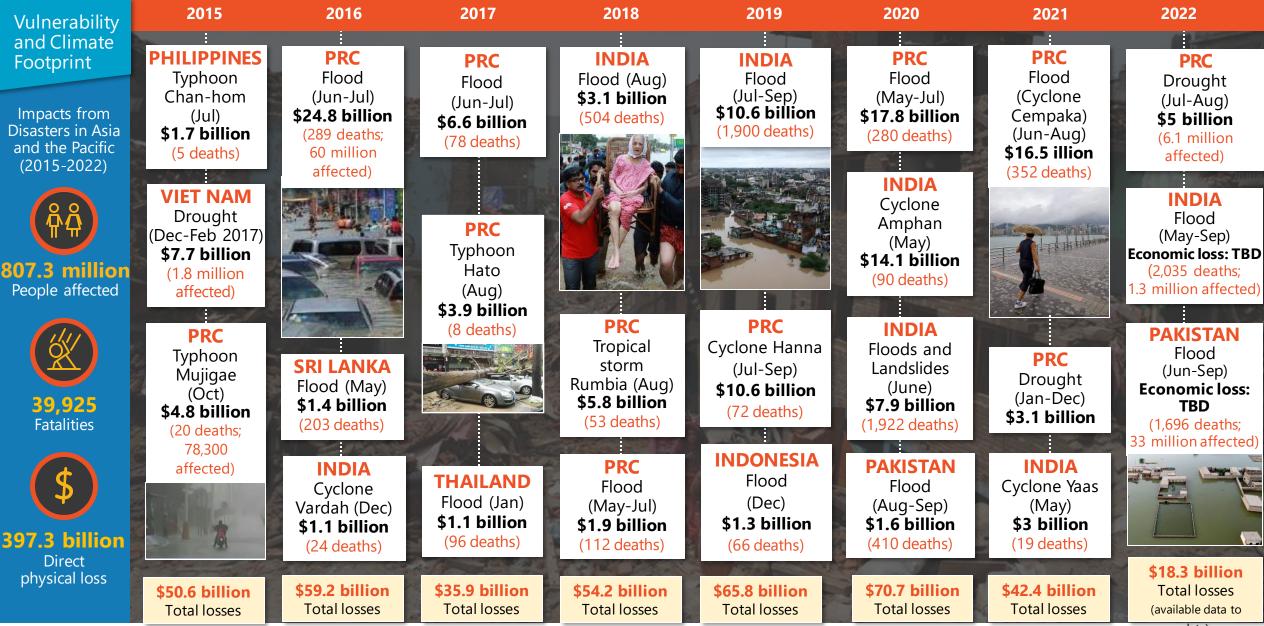


Climate Change

October 2022

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Climate Change and Disasters in Asia and the Pacific



Note: 1. The amounts refer to the monetary amount of damage to property, crops and livestock at the year of the event. (Center for Research on the Epidemiology of Disasters)

date) Photos: CTTO

ADB

Cumulative climate finance target (S2030)

2

3

4

5

- a) \$35 billion during 2019-2024 (CRF). b) \$80 billion during 2019-2030, with elevated ambition of \$100B
 - Status: \$14.3 billion as of end-2021.

Cumulative climate finance for adaptation and resilience (S2030 and President's Vision July 2021)

a) \$9 billion during 2019-2024 b) \$34 billion during 2019-2030

ADB High Level Climate Change Commitments

Private sector climate finance (\$) announced October 2021

a) \$12 billion during 2019-2030

b) Anticipate crowding in of an additional \$18B-30B

Projects supporting climate action (%; 3-year rolling average) (S2030)

a) 65% by 2024 (CRF).

• .

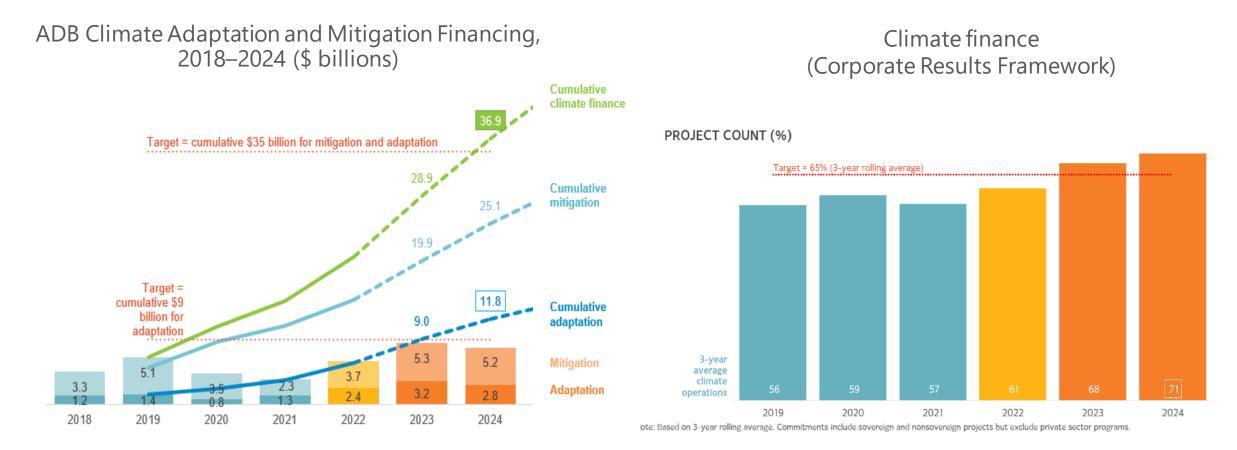
b) 75% by 2030

Paris Agreement (%) (President's Vision July 2021)

- a) Full Paris alignment of all sovereign operations by 1 July 2023
- b) At least 85% of NSO aligned by 1 July 2023 and 100% by 1 July 2025







Alignment with mitigation goals

Keep consistent operations with national low-emissions development pathways and compatible with objectives of PA.

4 Strategy, Engagement and Policy Development

Develop new services to support clients put in place long-term strategies for low-emissions and climate-resilient development while ensuring consistency with SDGs.

2 Adaptation and climateresilient operations

Align operations with climate-resilient development pathways and consistent with the objectives of PA.

5 Reporting

Develop tools and methods for characterizing, monitoring and reporting on Paris-aligned activities.

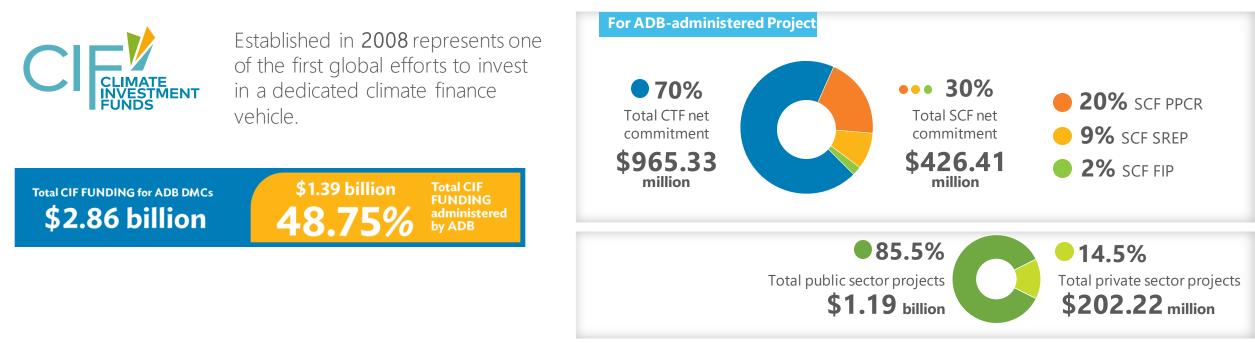
3 Accelerated contribution to the transition through climate finance

Scale up climate finance, operationalize new approaches to support NDCs. Accelerate realization of ambitions agreed under UNFCCC and in line with science-based evidence identified by IPCC.

6 Align internal activities

Progressively ensure internal operations, including facilities and other internal policies, with PA.





CTF=Clean Technology Fund, SCF=Strategic Climate Fund. FIP=Forest Investment Program, PPCR=Pilot Program for Climate Resilience, SREP=Scaling Up Renewable Energy in Low Income Countries Program





projects globally

Scaling-Up Climate Action: Upstream, Midstream & Downstream Engagement ADB

UPSTREAM	MIDSTREAM	DOWNSTREAM	
 DMC Country Engagement Rigorous Multi-Sector Country Climate Diagnostic Country Partnership Strategy (CPS) Climate Change Policy Based Lending (PBL) 	 NDC – nationally determined contribution LTS - 2050 long-term low GHG emissions development strategies NAP- National Adaptation Plan (NAP) Investment Plans Multi-hazard climate and disaster risk analysis Sector Plans 	 ADB's Indicative Country Pipeline Projects designed to be climate smart Technical Assistance - support to project development Supporting Countries to be Paris Aligned 	
	Country Climate Change Plans		

Sectors and Themes







BAN: Urban Project 2022

Adaptation project under development to respond to priorities of National Delta Plan 2100 by focusing on infrastructure, livelihoods and institutional strengthening for climate resilience in 22 coastal towns.





Examples of Scaling up Adaptation



1. Example: Multi-hazard risk assessment to inform investment pipeline, Tongatapu, Tonga



PILOTING

Longer term focus on setting parameters for resilient development and adaptation strategies and supportive investments

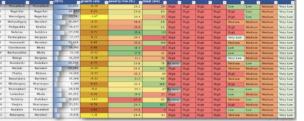
Integrating CC projections methodically into analysis of inundation hazards

Covering geophysical and weather-related hazards

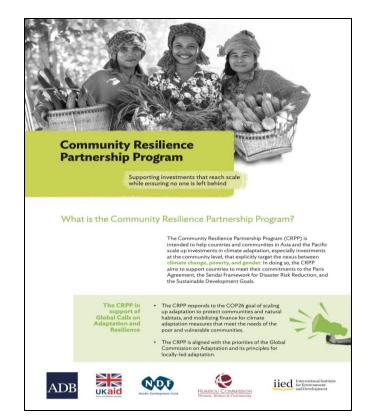
2. Example: Development of Type 2Coastal Towns Climate ResilienceProject, Bangladesh

Adaptation project under development to respond to priorities of National Delta Plan 2100 by focusing on infrastructure, livelihoods and institutional strengthening for climate resilience in 22 coastal towns.





3. Example: EstablishingCommunity Resilience PartnershipProgram to scale up adaptation innon-infrastructure sectors



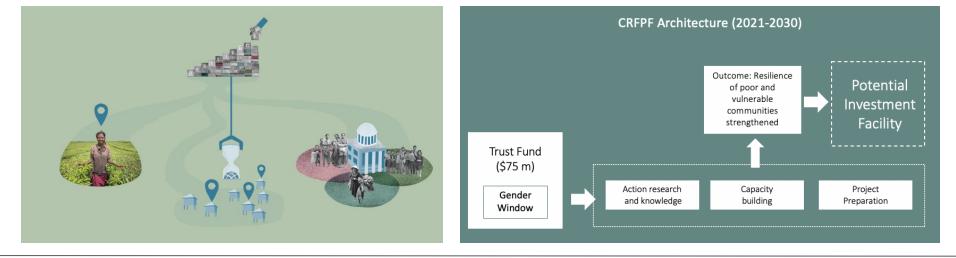
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Community Resilience Financing Partnership Facility (2021-2030)



- 1. Support DMCs scale up resilience investments that explicitly tackles the nexus between poverty, gender climate risk
- 2. Support three types of projects that :
 - Strengthen resilience through poverty reduction programs (e.g., resilient community-driven development programs);
 - Allow climate finance to reach the hands of the poor (e.g., adaptive social assistance programs); and
 - Strengthen capacity of local government and communities to participate in decision-making processes on resilience (e.g., climate risk-informed decentralization programs).

- 3. To include a Trust Fund and proposed Investment Facility
- 4. Program to support implementation of OP3 through OP1, OP2, OP4, OP5 and OP6
- 5. Funding raising on –going





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Deploying concessional resources

Internally managed resources (ADB donor trust funds and special funds)

- Climate Change Fund (CCF)
- Clean Energy Financing Partnership Facility (CEFPF)
- Urban Climate Change Resilience Trust Fund (UCCRTF)
- Asia-Pacific Climate Finance Fund (ACliFF)
- High Level Technology Fund (HLTF)
- Others with bilaterals
 - » Ireland Trust Fund for Building Climate Change and Disaster Resilience in Small Island Developing States

Multilateral funds

- Climate Investment Funds (CIF)
- Global Environment Facility (GEF)
- Green Climate Fund (GCF)

Maximizing market mechanisms

• Upfront carbon finance

- » Future Carbon Fund
- » Japan Fund for the Joint Crediting Mechanism

Article 6 Support Facility

- » Carbon Pricing / Carbon Markets
- » Article 6 of the Paris Agreement
- Carbon Market Technical Support Facility
- » Joint Crediting Mechanism
- » domestic emissions trading Systems
- » Lifecycle Management of Fluorocarbons

Green, Blue and Climate Bonds

ASEAN Catalytic Green Finance Facility

Catalyzing private capital

- **Direct project finance** (lending, guarantees, syndications), and equity investment
- Public private partnerships: (PPPs) working with client DMCs across stages of PPPs

Facilities for private sector

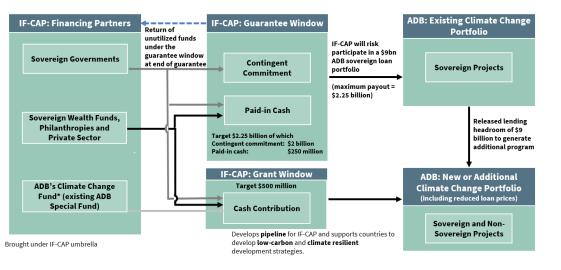
- Canadian Climate Fund for the Private Sector in Asia (I and II)
- Australian Climate Finance
 Partnership
- ADB Ventures Financing
 Partnership Facility

Future Carbon Fund	Japan Fund for the Joint Crediting Mechanism	Article 6 Support Facility	Technical Support Facility
 Commenced in 2009 Provides financial and technical support for CDM projects by purchasing post-2012 CERs \$115 million contributed by 4 governments and 2 private sector entities from Europe and Asia Contracted 8.68 million CERs with an investment of \$53.0 million Supports 33 CDM projects in 10 		 Established in 2018 Provides technical, capacity building, and policy development support to enhance DMC's preparedness to participate in new carbon markets under the framework of Article 6 \$5 million facility funded by ADB and the governments of Germany and Sweden 	 Established in 2006 Implemented through a series of 6 Technical Assistance projects, with a total amount of \$13.25 million Provides technical and capacity building support for enhancing mitigation actions through carbon markets TA on Promoting Life Cycle Management of Fluorocarbons to support DMCs in promoting proper management of fluorocarbons. \$0.75 million.
DMCs • Provides carbon finance support to 1.1 GW renewable energy projects	in Maldives, Cambodia, Bangladesh and Mongolia allocating \$ 41.48 million	Supports Bhutan, Indonesia, Mongolia, Pakistan, Philippines, Thailand and Viet Nam.	

CDM: Clean Development Mechanism; CER: certified emission reduction; ETS: Emission Trading Systems

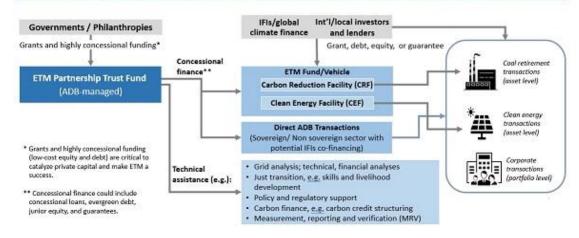
Mobilizing Finance for Climate Change Operations

1. Innovative Finance Facility for Climate in Asia and the Pacific (IF-CAP)



2. Energy Transition Mechanism (ETM)

 (i) Accelerates the retirement or repurposing of coal-fired plants using public and private finance through refinancing, acquisition or sustainability linked corporate loans; and (ii) scales up investment in clean energy and energy storage.
 Aims to achieve just and affordable transition addressing impacts to people and communities from coal retirement.



3. Community Resilience Partnership Program (CRPP)



4. ASEAN Catalytic Green Finance Facility (ACGF)

ACGF

2022

CAPITAL

pledged by

infrastructure

Agreement with GCF signed

May 2022

GREEN PROJECTS

5 ACGF-eligible projects

approved by AIF Board

2 ACGF-eligible projects supported

with TA approved by ADB Board

GACGF

GREEN PIPELINE

19 late-stage green project

structured and

10 early-stage green

projects supported

9 partners for green

S2 billion in cofinancing

e Facility (ACGF) 5. Carbon Market Program

CAPACITY

ACGF Project

Structuring team established & in place

KNOWLEDGE

Knowledge products and

platforms developed with

partners on green recovery

innovative finance

APITAL MARKETS

3 G55 bond issuances supported

with \$5.6 billion raised by PDMO & NHA

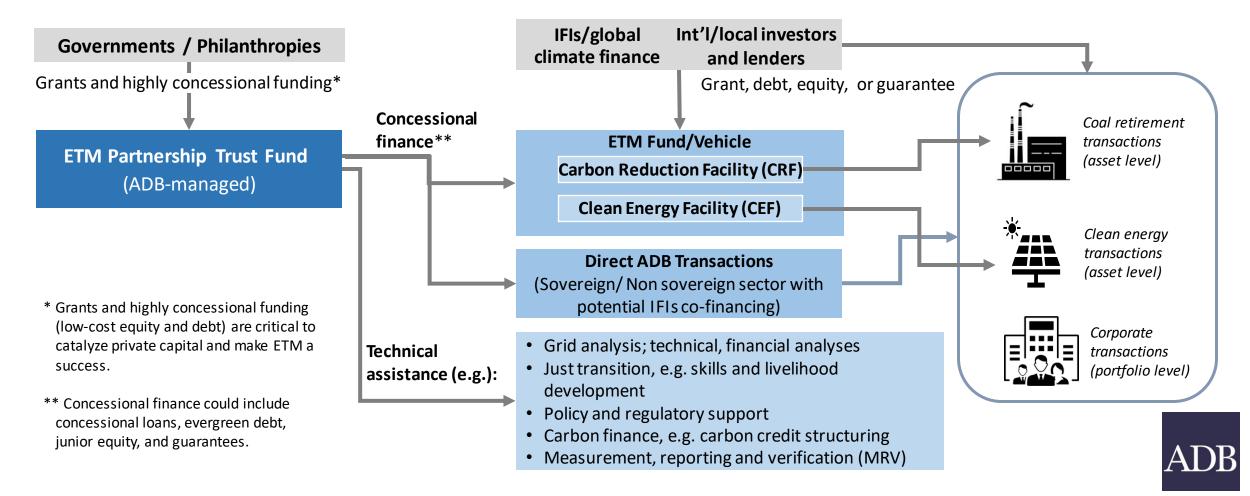
n infrastructure pipeline





The ETM program in a nutshell

- (i) Accelerates the retirement or repurposing of coal-fired plants using public and private finance through refinancing, acquisition or sustainability linked corporate loans; and (ii) scales up investment in clean energy and energy storage.
- Aims to achieve just and affordable transition addressing impacts to people and communities from coal retirement.



ADB's Private Sector Operations



Ambition to massively scale up climate finance – **\$12b of ADB's own resources, and \$18-30b of private sector finance mobilized**

Climate finance for infrastructure

- 144 MW Windfarm in Viet N am increases Viet Nam's wind power capacity by 30%
- capacity building in climate-smart cocoa and coffee farming best practices and financial literacy in Indonesia and PNG

Climate funds

• Climate Innovation and Development Fund, together with the Bloomberg Family Foundation Inc. and the Goldman Sachs Charitable Gift Fund support climate mitigation and adaptation projects in India and Viet Nam

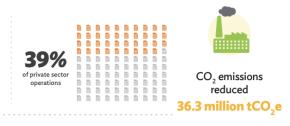
Climate finance for financial intermediaries

• Develop affordable and sustainable residential housing developments in Georgia

Through loans and other debt instruments, equity investments, guarantees, loan syndication and technical assistance

ADB Ventures

Invests in seed and early stages of a companies developing innovative climate solutions, and partner with them across rounds



Climate Bonds

First Climate Bond Initiative Certified bonds and loans in Asia-Pacific, Philippines, Thailand and Vietnam

ADB's Recent Initiatives to Support Water Resilience in Asia and the Pacific



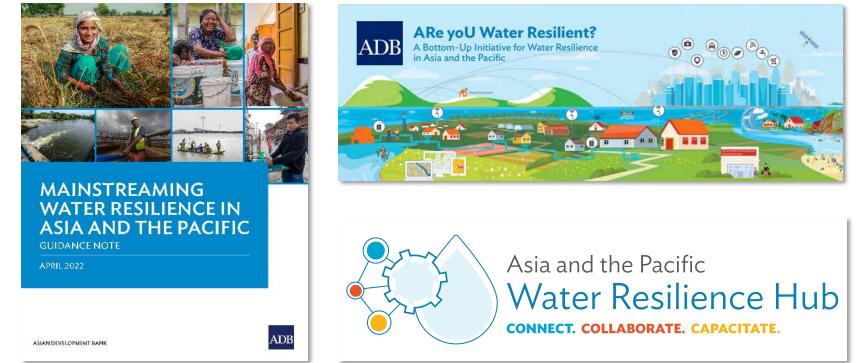
Latest IPCC report: Over 60% of adaptation interventions must come from the water sector.

ADB water sector group's latest initiatives on building resilience of water entities:

 RUWR: aRe yoU Water Resilient (Introductory video: <u>RUWR</u>)

 Guidance Note on Mainstreaming Water Resilience in Asia and the Pacific

• Water Resilience Hub for Asia and the Pacific



Putting climate adaptation as the driver and at the core of projects and policies

Building resources and capacities of water entities on the ground for climate action and green, inclusive, and resilient post-pandemic recovery of Asia and the Pacific

3 Projects – Identified

Pro	ject	Project Officer	Project details
1.	Ahmedabad Peri-urban Livability Improvement Project – India (project number 54426 - 901)	Sanjay Divakar Joshi, SAUW	Concept paper approved May 2022. Fact finding mission scheduled in August 2022. Target approval Dec 2022. <u>IND Ahmedabad Peri-urban Livability Improvement Project 01 Concept</u> <u>Paper CLEAN-PAG MAP.pdf</u>
2.	Climate Resilient Livelihood Improvement and Watershed Management in Chittagong Hill Tracts Sector Project – Bangladesh (project number 54047-001)	Sanath Ranawana, SAER	Concept paper approved in Aug 2020. Fact finding mission completed in June 2022. Draft RRP for interdept review planned for next week. Target approval Nov 2022. <u>BAN Climate Resilient Livelihood Improvement and Watershed Management</u> <u>in Chittagong Hill Tracts Sector Project CP.pdf</u>
3.	Energy Transition Sector Development Program – Cambodia (project number 54430-001)	Pradeep J. Tharakan, SEEN	Concept paper approved in Oct 2021. Fact finding mission completed in July 2022. Target approval by Nov 2022. <u>CAM Energy Transition Sector Development Program concept paper_DG</u> <u>approved (clean).pdf</u>

ADB TCFD Report





ADB's inaugural TCFD brings the following benefits:

- Supports ADB's climate commitments
- Serves risk management purposes
- Increases transparency on climate change related risks and opportunities

TCFD Reporting focuses on four thematic pillars:



Governance:

Oversight of climate-related issues by the Board and management, including climaterelated policies and frameworks in place.

Risk Management:

Processes for assessing and managing climate risks at the operations and at the organization levels.



Strategy:

Climate considerations embedded within ADB's organizational strategies and operational approaches.



Metrics & Targets:

ADB's internal GHG emissions; climate finance targets; climate sensitivity heat map; exposure to sovereign climate-related risk.