



Climate Change

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OUTLINE

Asia-Pacific Climate Change and Disaster Risk Management (DRM) Challenge

Priorities of ADB on Climate Change and Disaster Risk Management

Climate and DRM Finance

Innovative Projects and Initiatives

ADB

ADB

Asia-Pacific Climate Change and Disaster Risk Management Challenges



Climate Change and DRM Challenges

ASIA AND THE PACIFIC IS KEY

2017 CO₂ emissions:



43%

Asia and
the Pacific

57%

Rest of the
world



89%

People's Republic of China, India,
and Indonesia's share of Asia
and the Pacific's greenhouse
gas emissions by 2030



Developing Asia's share of world electricity demand will grow to*

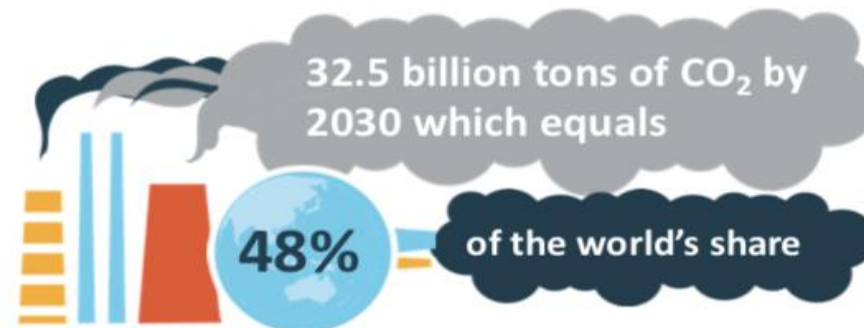


43%
in 2030

The PRC and India will
make up
64%
of Asia's power
consumption

*projection under New Policies scenario

Without radical changes, Asia and the Pacific will emit



Impacts from Disasters in Asia and the Pacific (1989–2018)



5.2 billion
People affected
by disasters



1 million
Disaster fatalities

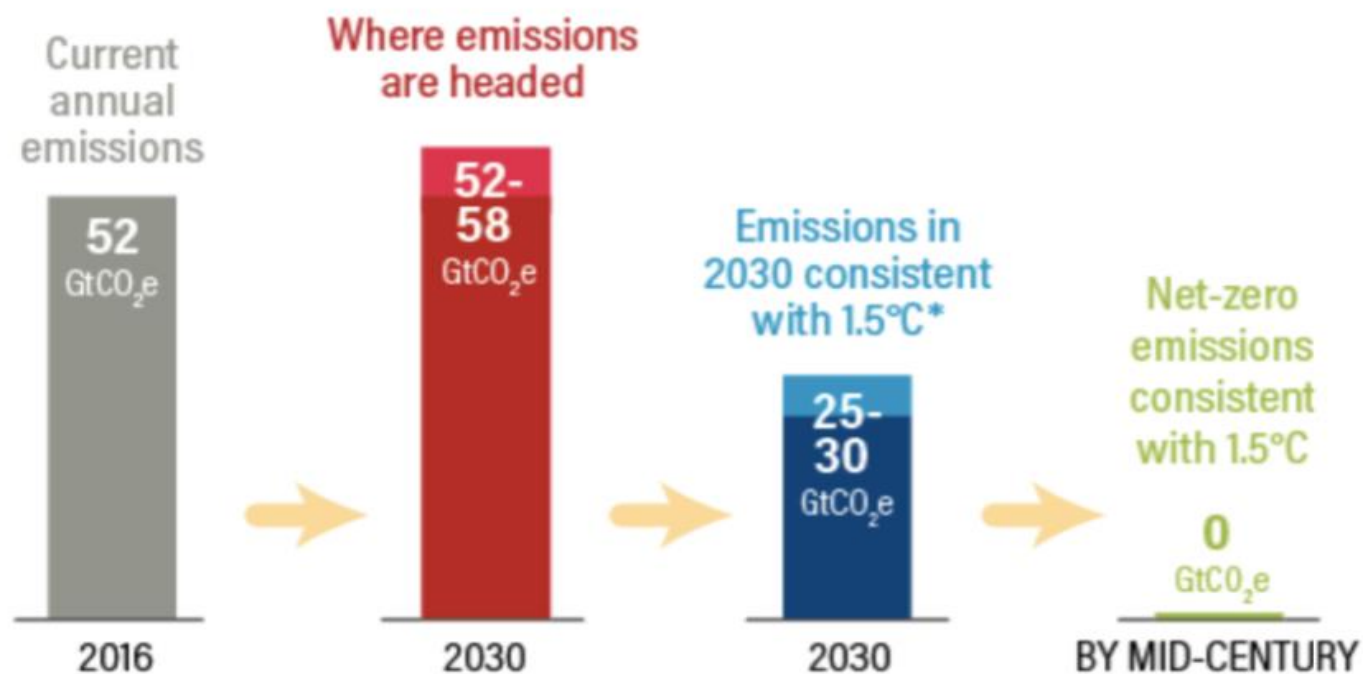


843.6 billion
Total direct physical loss

Damages from Recent Disasters in Asia and the Pacific¹

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)

The World is **not** on Track to Limit Temperature Rise to 1.5°C



Notes: *on average, no or low overshoot.



WORLD RESOURCES INSTITUTE

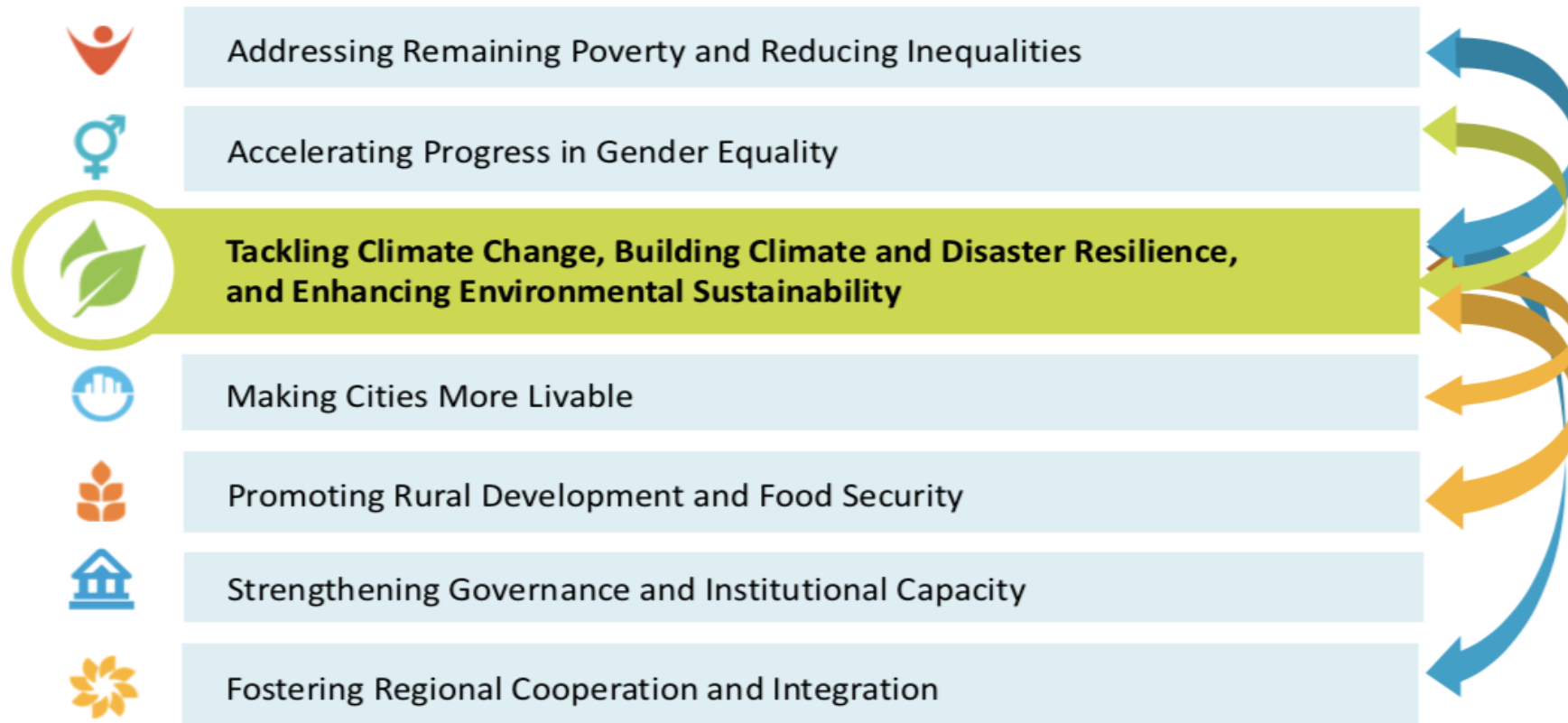
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Priorities of ADB on Climate Change and Disaster Risk Management



Seven Operational Priorities



Target 75% of ADB's of the number of committed operations
(on a 3-year rolling average) will support climate mitigation and adaptation by 2030



Target Climate finance from ADB's own resources reach \$80 billion (2019-2030)

ADB's Climate Finance Target by 2020



Target under the Corporate Results Framework:

ADB-assisted projects that support climate mitigation and/or adaptation: **45% for ADB, 35% for ADF**

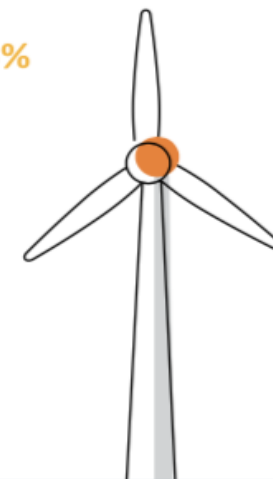


Funding for tackling climate change will rise to **around 30%** of its overall financing



ADB will double its annual climate financing to

\$6
billion



OUT OF THE \$6 BILLION

\$4
billion

will be dedicated to **mitigation** through scaling up support for renewable energy, energy efficiency, sustainable transport, and building smart cities.

\$2
billion

will be **adaptation** through more resilient infrastructure, climate-smart agriculture, and better preparation for climate-related disasters.





Clean Energy

- Expand **demand side** energy efficiency projects (e.g. electrical lighting), requiring new business models
- Increase **cross sectoral projects** (finance, urban, transport, water, agriculture etc.) requiring new financing instruments; integrated approach, e.g. **low carbon cities**



Sustainable urban development

- Promote an integrated approach to address climate risks.
- Knowledge exchange on climate mitigation and adaptation measures.
- Build capacities of cities to utilize climate finance to achieve local environmental improvement objectives.
- Link nationally determined contribution frameworks to city-level greenhouse gas accounting.



Sustainable transport

- Focus on low carbon transport modes (public transport, railways, e-vehicles)
- Ensure climate resilience in project design (additional drainage, raised road levels, storm surge protection)
- Achieving ADB climate change targets in transport sector support

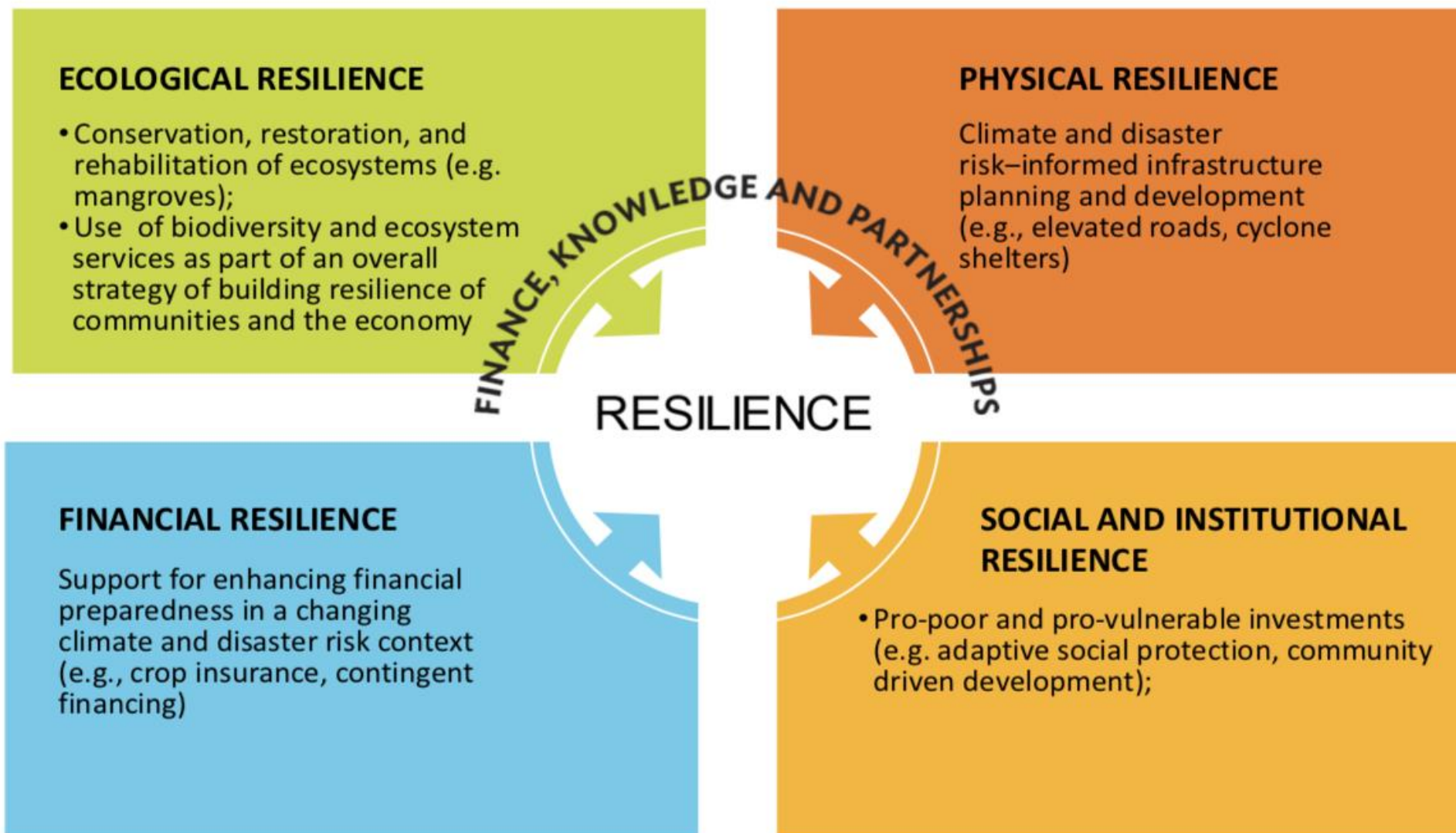


Climate-smart agriculture

- Explore new approaches, innovative ideas, and partnerships to ensure ADB investments are climate-smart by 2030
- Identify adaptation and mitigation measures to integrate in project pipelines
- Prepare guidance notes to track climate finance investments



Comprehensive Approach to Climate and Disaster Resilience



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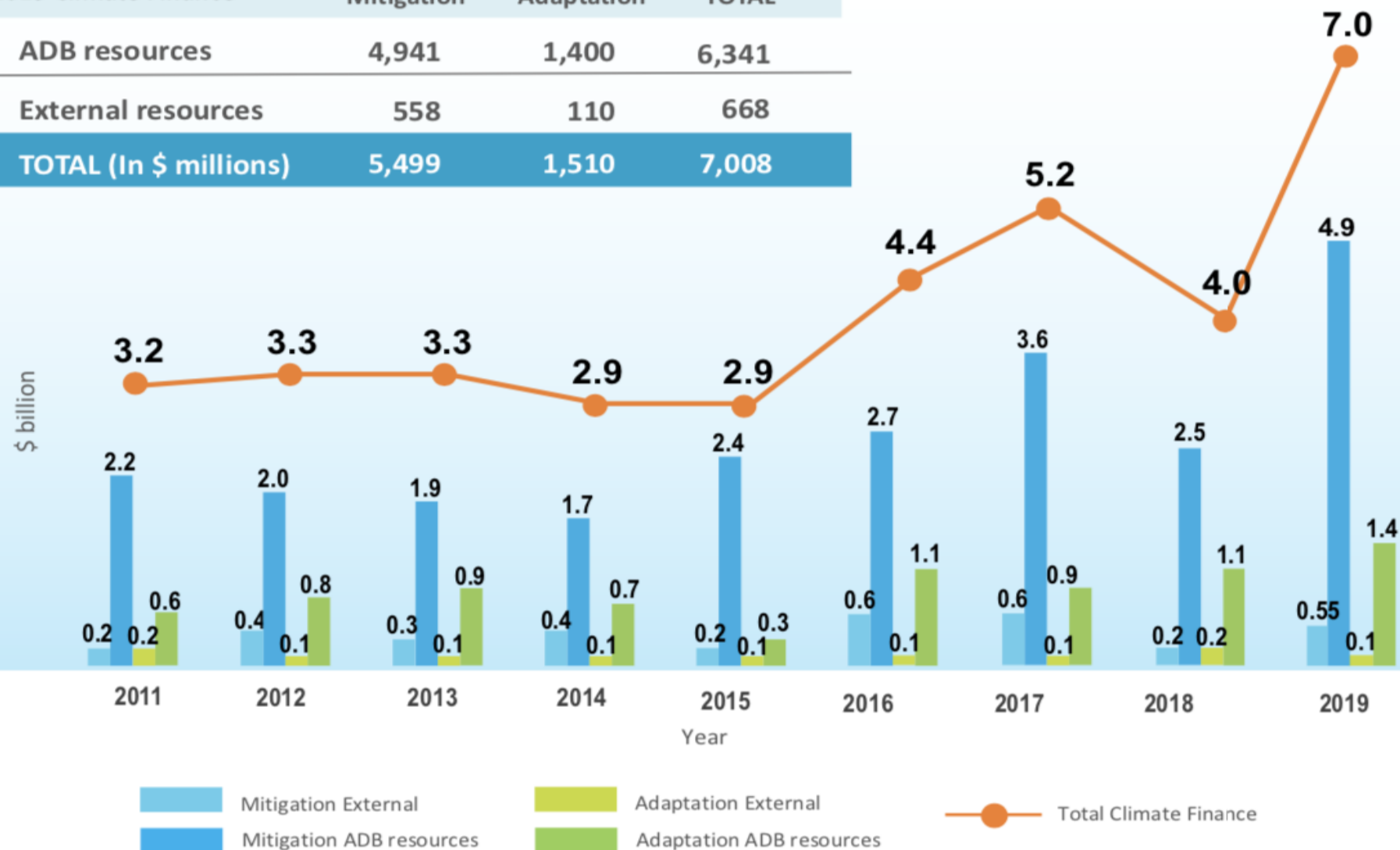
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Climate and Disaster Risk Management Finance



ADB Climate Finance Approvals

2019 Climate Finance	Mitigation	Adaptation	TOTAL
ADB resources	4,941	1,400	6,341
External resources	558	110	668
TOTAL (In \$ millions)	5,499	1,510	7,008



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

Multilateral funds

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

Maximizing market mechanisms

- **Upfront carbon finance**
 - Asia Pacific Carbon Fund
 - Future Carbon Fund
- **Carbon Market Technical Support Facility**
 - Clean Development Mechanism support
 - domestic emissions trading
- **Japan Fund for the Joint Crediting Mechanism**
- **Green and Climate Bonds**
- Supporting **other market mechanisms** (e.g. renewable energy credits; feed-in tariffs)

Catalyzing private capital

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

Established in **2010** to channel climate finance, with pledges of

\$10.3 billion from 43 state governments*

Green Climate Fund

has so far committed

\$5.6 billion to

124
projects
globally

ADB Project	Total Project Cost (in \$ million)	Type and Approval Date	Total GFC Funding (in \$ million)
Fiji Urban Water Supply and Wastewater Management Project	100 (Tranche 1)	Adaptation November 2015	31 (grant)
Pacific Islands Renewable Energy Investment Program	sum of subprojects	Mitigation November 2016	5 (grant)
Cook Islands Renewable Energy Subproject	14		12 (grant)
Nauru: Sustainable and Climate-Resilient Connectivity Project (formerly Port Development Project)	65	Mitigation and adaptation October 2017	27 (grant)
Tajikistan: Institutional Development of the State Agency for Hydrometeorology	11	Adaptation February 2018	5 (grant)
Cambodia: Climate-Friendly Agribusiness Value Chains Sector Project	140	Mitigation and adaptation February 2018	10 (loan) 30 (grant)
Mongolia: Ulaanbaatar Green Affordable Housing and Resilient Urban Renewal Project (AHURP)	544	Mitigation and adaptation February 2018	95 (loan) 50 (grant)
Kiribati South Tarawa Water Supply Project	58	Mitigation and adaptation October 2018	29 (grant)
Tonga Renewable Energy Project (TREP) under the Pacific Islands Renewable Energy Investment Program	53	Mitigation October 2018	30 (grant)
Pakistan Green Bus Rapid Transit	585	Mitigation October 2018	21 (grant), 29 (loan)
Shandong Green Development Fund	1200	Mitigation and Adaptation November 2019	100 (loan)
Approved Total			473

*First replenishment received \$9.8 billion in pledges from 28 governments including two additional EU member states with pledges during the Replenishment Pledging Conference held in Paris on 24-25 October 2019.

Ireland Trust Fund for Building Climate Change and Disaster Resilience in Small Island Developing States (SIDS)

- established by ADB and the Government of Ireland in May 2019
- committing to an initial 6-year program of funding of **€12 million (\$13.5 million)** for the period 2019 to 2024.
- primarily supports technical assistance and capacity development in the SIDS, through activities such as financing climate-proof infrastructure, helping countries plan for and respond to climate change, and leveraging global climate resources for mitigation and adaptation efforts
- aims to increase the preparedness and resilience of SIDS to disasters caused by natural hazards and to the impact of climate change; expected outcome of the fund is an increased number of investments in climate change and disaster resilience

Three proposals currently under consideration:

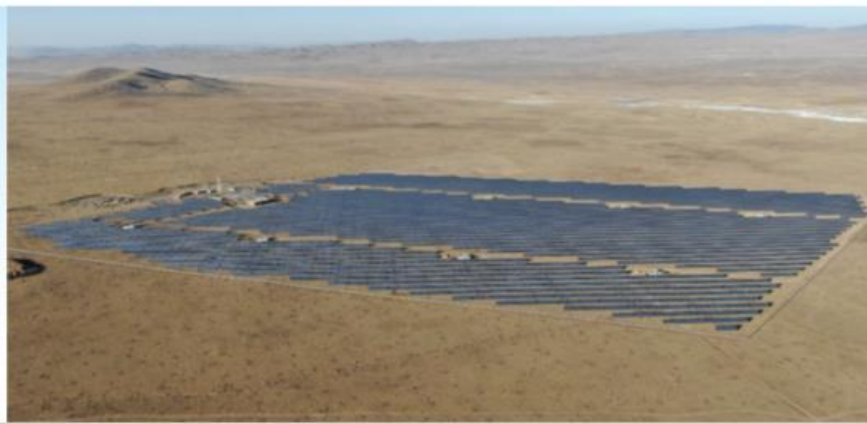
- i. Regional Technical Assistance (TA): Pacific Disaster Resilience Program (8 countries)
- ii. Tonga - Support to the Tonga Climate Change Trust Fund (CCTF) for community adaptation projects
- iii. Vanuatu, Port Vila - Community Action Plans for Strengthening Urban Resilience



- A multi-donor trust fund approved on 28 April 2017 with up to US\$30 million contribution from Germany. The maximum amount of aggregate contributions is envisaged to not exceed \$200 million.
- ADB has initial contribution of US\$1 million towards an accompanying Technical Assistance to support the operationalization of ACliFF.
- ACliFF will support the assessment, development and provision of **financial risk management products** that can help unlock financing for climate investments in clean technologies and practices, which are necessary for climate change mitigation and adaptation; and improve resilience of the poor and vulnerable to the impacts of climate change.
- Total contributions received: **\$19.3 million** as of September 2020.



- established in April 2017 with a **CAD \$200 million contribution (US\$149.5 as of September)**
- designed to support greater **private sector participation** in climate change mitigation and adaptation in low and lower middle income countries and upper middle-income small island developing states in Asia and the Pacific.
- will seek to **promote gender equality and the empowerment of women** and girls in projects supported by the fund.
- will aim to play a key role in helping the private sector **overcome development risks** (including market risks, technology risks, financing risks, regulatory and other risks) by offering financing on **concessional terms** and conditions to projects that would not proceed solely on a commercial basis.



Sermasang Khushig Khundii Solar Project

provided a technical assistance grant to offset first mover costs and to catalyze the financing of ADB's first private sector solar power project in Mongolia

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Innovative Projects and Initiatives



Cambodia: National Solar Park Project



Innovative Project Design

TOTAL FINANCING: \$21.65 million

- \$ 7.64 million COL/ADF
- \$ 11 million
Strategic Climate Fund (loan)
- \$ 3 million
Strategic Climate Fund (grant)

DATE APPROVED 23 May 2019

TA 9736-CAM: Capacity Development
in the Electric Utility Industry
\$500,000 Republic of Korea e-Asia and
Knowledge Partnership Fund (grant)

TOTAL CLIMATE FINANCE \$21.64 million

TOTAL ADAPTATION FINANCE
\$1.17 million

TOTAL MITIGATION FINANCE
\$6.47 million (COL/ADF)
\$14 million (Strategic Climate Fund)

Collaboration between:

- Southeast Asia Department
- Office of Public-Private Partnership
- Private Sector Operations Department

CONTEXT

Project will support the expanded deployment of solar photovoltaic power plants in Cambodia and address the country's need to (i) expand low-cost power generation; (ii) diversify the power generation mix with an increase in the percentage of clean energy, in line with its greenhouse gas emission reduction targets; and (iii) expand the use of competitive tenders and other global best practices in the energy sector.

DESCRIPTION

The project will have two outputs: (i) a 100 MW solar power park in Kampong Chhnang Province and a transmission interconnection system to grid substation 6 (GS6) near the Phnom Penh demand center to supply power to the national grid.; and (ii) strengthened capacity of Electricite du Cambodge (EDC) in solar power plant construction and operation, project design and supervision, grid integration, and competitive procurement. EDC with ADB's support has tendered out the first 60 MW of generating capacity at the solar park to the private sector (independent power producer).

UNIQUE FEATURES

- (i) first large-scale solar park in Southeast Asia
- (ii) exhibits **ONE ADB** approach (OPPP, SERD and PSOD working together) in providing end-to end support to the country
- (iii) obtained the lowest solar procurement price in the ASEAN in 2019 at 3.88 cents/kilo watt-hour for the electricity

PRC: Shandong Green Development Fund Project (SGDF)



Innovative Financing

TOTAL FINANCING: \$ 200 million (w/o cofinancing)

- **\$100 million (OCR)**
- **\$100 million**
Green Climate Fund (concessional loan)
- **\$ 84.53 million**
Agence Francaise de Developpement
(Not ADB Administered)
- **\$113.69 million**
KfW Bankengruppe
(Not ADB Administered)

DATE APPROVED 25 September 2019

TOTAL CLIMATE FINANCE: \$200 million

TOTAL ADAPTATION FINANCE

\$25 million (OCR)
\$25 million (GCF)

TOTAL MITIGATION FINANCE

\$75 million (OCR)
\$75 million (GCF)

East Asia Department

CONTEXT

PRC plays a pivotal role in managing the climate change challenge in Asia and the Pacific. Given the country's current level of greenhouse gas (GHG) emissions and climate vulnerability, there is a vast need for climate-related investments going beyond business as usual to underpin its development targets. With high reliance on coal power and heavy industry, Shandong Province is initiating systemic interventions to build climate resilience and decarbonize its economy.

DESCRIPTION

The project will create a "fund" to catalyze private, institutional and commercial (PIC) capital for the development of climate positive infrastructure and business in Shandong Province and will support a portfolio of mitigation and adaptation subprojects assessed against both climate and financial eligibility criteria. It will also enhance knowledge and skills of local governments, civil society, and private sector to prepare climate-positive subprojects

UNIQUE FEATURE

The project will have a leveraging effect with SGDF financing and will be time bound and targeted. It will incentivize subprojects to adopt green procurement standards, as greening a subproject's supply chain such that it shifts from "good practices" to "advanced benefits" will enable access to better financing terms and conditions from the SGDF. The project will also adopt SOURCE, a multilateral digital platform to fast-track the delivery of quality infrastructure projects.

Regional: Legal Readiness for Climate Finance and Climate Investments

TOTAL FINANCING

- **\$0.875 million**
TSAF

DATE APPROVED 16 August 2016
DATE CLOSING 30 June 2020

TOTAL CLIMATE FINANCE
\$0.88 million

TOTAL ADAPTATION FINANCE
\$0.44 million

TOTAL MITIGATION FINANCE
\$0.44 million

Office of the General Counsel

CONTEXT

Legal readiness for climate finance will become increasingly critical as DMCs start to translate their commitments under the Paris Agreement into specific actions on the ground. ADB provides TA to help its DMCs identify legal barriers to accessing climate and disaster finance, find opportunities for legal reform to address legal barriers to finance, and recommend ways to address interlinked regulatory, institutional, and administrative impediments to such finance.

UNIQUE RESULT:

LAO PDR

- ✓ ***Climate change decree enacted*** providing an umbrella framework for climate finance and coordination mechanisms for climate change monitoring and reporting requirements. Currently *developing a national climate change strategy*
- ✓ ***Disaster management law enacted*** setting out coordination mechanisms among the national and sub-national entities involved in disaster prevention, response and recovery efforts. Currently *developing a national disaster risk reduction strategy and related infrastructure*

FIJI

- ✓ ***Climate Change Bill introduced*** providing a comprehensive framework to guide Fiji's response to climate change, including key operative provisions of the Paris Agreement, governance structure and climate finance mechanisms

NAURU

- ✓ ***Legal assessment conducted*** identifying the absence of legal framework to support renewable energy projects and to regulate an energy market in general. Currently *developing a new energy law* to fill the gap.

Myanmar: Resilient Community Development Project



Innovative Project Design

TOTAL FINANCING \$225.58 million

- **\$10 million**
ADF (Grant)
- **\$ 185 million**
COL (Concessional Loan)
- **\$27.58 million**
Asia Investment Facility
- **\$3 million**
Japan Fund for Poverty Reduction

DATE APPROVED 26 November 2019

TOTAL CLIMATE FINANCE: \$59.54 million

TOTAL ADAPTATION FINANCE \$59.54 million

Collaboration between:

- Southeast Asia Department

CONTEXT

Myanmar ranks among the highest in the 2017 Global Climate Risk Index. Almost the entire country is affected by a range of natural hazards. Project areas are particularly prone to landslides, floods, droughts, cyclones and storms depending on their location. Resilience-building measures can support communities in coping with Climate Change and Disaster risk.

DESCRIPTION

The project will improve standard of living and community resilience through: (i) Climate- and disaster-resilient community infrastructure (e.g. cyclone shelters, water harvesting infra, embankment and water management); (ii) Resilient livelihood activities for the poor (e.g. income diversification, adaptive crops); (iii) Institutional and organizational capacity building of communities and government (e.g. climate and disaster information included in Village Development Plans).

UNIQUE FEATURE

1. Builds on TA Strengthening Climate and Disaster Resilience of Myanmar Communities which provided climate and disaster risk modeling information and climate forecasts.
2. Includes a Disaster contingency feature.
3. Uses climate projections and disaster data to select cluster project areas.



Pacific Disaster Resilience Program (Phase 2)



Innovative Financing

TOTAL FINANCING: \$24 million

- \$21 million
ADF
- \$3 million
Concessional OCR

DATE APPROVED 27 September 2019

TOTAL FINANCING: \$9.6 million

TOTAL ADAPTATION FINANCE
\$8.4 million (ADF)
\$1.2 million (Concessional OCR)

Pacific Department

CONTEXT

ADB's Pacific DMCs are highly exposed to many different types of natural hazards, including tropical cyclones, earthquakes, tsunamis, volcanic eruptions, floods, and droughts. The region also experiences a disproportionately high share of global disaster impacts relative to its economic and demographic size. Disaster risk is increasing because of climate change.

DESCRIPTION

The project will provide a source of financing for timely disaster response and early recovery and support policy actions to strengthen policy and institutional arrangements for disaster risk management (DRM), improve the disaster and climate resilience of physical infrastructure, and expand disaster risk financing. The program is the second phase of the Pacific Disaster Resilience Program, approved in December 2017 for Samoa, Tonga, and Tuvalu. It will provide a second round of contingent financing for **Tonga** and add three new countries (the **Marshall Islands**, the **Federated States of Micronesia**, and **Solomon Islands**) to the program.

UNIQUE FEATURE

ADB's first use of the new Contingent Disaster Financing option under the policy-based loan modality.

In December 2019, this program was approved for the **Cook Islands**, marking the first time that the CDF option has been applied to a regular OCR-only country. After the occurrence of a qualifying disaster during the term of the program, the government may request one or more loans of up to a total of \$10 million. At that time, ADB and the Cook Islands will enter into a short-form agreement that will specify the actual loan amount requested by the Cook Islands, as well as the lending terms, and only then will ADB commit the requested amount. Upon signing the short-form agreement, there will be a one-time front-end fee of 0.10% of the committed loan amount.

Bangladesh: Dhaka and Western Zone Transmission Grid Expansion Project



Innovative Technology

TOTAL FINANCING: \$500.75 million

- **\$300 million** OCR
- **\$200 million** Asian Infrastructure Investment Bank (AIIB) (loan)
- **\$ 0.75 million** People's Republic of China Poverty Reduction and Regional Cooperation Fund (grant)

DATE APPROVED 8 November 2019

TOTAL CLIMATE FINANCE: \$315 million

TOTAL ADAPTATION FINANCE

\$70.70 million (OCR)

\$47.10 million (AIIB)

TOTAL MITIGATION FINANCE

\$117.20 million (OCR)

\$80 million (AIIB)

South Asia Department

CONTEXT

Despite its economic success, Bangladesh faces major challenges in maintaining growth trends and reducing poverty because of infrastructure deficiencies in the energy sector and elsewhere. To address these deficiencies, the government is prioritizing the provision of modern, reliable, and affordable energy services to those who lack access. The project will contribute to the goal of the Government of Bangladesh to achieve electricity for all by 2021.

DESCRIPTION

The project will help expand and strengthen the transmission networks in the Greater Dhaka area and western zone of Bangladesh, improve financial management in Power Grid Company of Bangladesh Limited (PGCB), and apply best practices in operations and maintenance. It will: (i) construct 40 kilometers (km) of transmission lines and 4,450 megavolt-amperes (MVA) of substations in Greater Dhaka; (ii) construct of 368 km of transmission lines, 3,070 MVA of substations, and 20 bay extensions in the western zone; and (iii) establish an enterprise resource planning (ERP) system and a drone inspection center to strengthen capacity in asset management and operation and maintenance.

UNIQUE FEATURE

The project uses gas insulated substations that will address climate risks; uses low-sag power line conductors to deal with high temperatures drastically cutting systems losses; it will also employ drones that can be operated remotely to monitor transmission lines. Project design also includes capacity building, including promoting women employment in technical positions at the drone inspection center.

Total Cost: \$100 million (OCR)

Status: Proposed

CONTEXT

The Philippines is one of the world's most disaster-prone countries. Urban areas account for a high and increasing share of the country's disaster risk, with 70% of GDP already generated in urban areas. City governments face significant challenges in securing timely financing for rapid early recovery in the event of major disasters.

DESCRIPTION

The proposed Philippine City Disaster Insurance Pool Project (PCDIP) will provide seed capital to establish and capitalize a **pooled** insurance company from which cities can purchase parametric insurance against **typhoons** and **earthquakes**. It will support cities to become self-sustaining in managing disaster risk and rehabilitating their infrastructure. These 10 cities were chosen to pilot PCDIP and are expected to be the first batch of policyholders: Bacolod, Baguio, Butuan, Caloocan, Dagupan, Davao, Iloilo, Marikina, Paranaque and Quezon City. 7 more cities joined consultations.

UNIQUE FEATURE

PCDIP will be the world's first city insurance pool. The risk pooling mechanism will reduce premium costs via risk diversification, economies of scale, and profit retention and provide payouts within 15 business days of qualifying disasters.



Technical Support Facility

Commenced in 2006
Implemented through a series of 5 Technical Assistance projects

TA 6363: Preparing Clean Energy Projects Eligible for the Clean Development Mechanism

TA 6438: Implementation of the Technical Support Facility under the Carbon Market Initiative

TA 8223: Supporting the Use of Carbon Financing to Promote Green Growth in Asia and the Pacific

TA 8654: Supporting the Use of Carbon Financing from New Carbon Market Mechanisms to Promote Green Growth in Asia and the Pacific

TA 9062: Supporting Low-Carbon Development in Asia and the Pacific through Carbon Markets

Asia Pacific Carbon Fund

\$151.8 million Trust Fund to purchase pre-2013 CERs

Commenced in 2007

Fund Participants include seven European Governments

Supported **71 CDM projects in 9 DMCs**

Contracted **15.63 million CERs**

Provided carbon finance to **1.9 GW renewable energy projects**

All contracted CERs received and distributed to Fund Participants

Fund closed in 2014

Future Carbon Fund

\$115 million Trust Fund to purchase post-2012 CERs

Commenced in 2009

Fund Participants include four Governments and two private sector entities from Europe and Asia

Contracted **10.45 million CERs** with an investment of **\$59.5 million**

Supporting **36 CDM projects in 12 DMCs**

Disbursed **\$49.15 million** as of 30 June 2020

Providing carbon finance support to **1.2 GW renewable energy projects**

Fund will close in 2021

Japan Fund for the Joint Crediting Mechanism

\$79.29 million by MOEJ

Commenced in June 2014

JFJCM provides financial incentives for adopting advanced low-carbon technologies in ADB-financed projects

Supports mitigation through the Joint Crediting Mechanism, the first bilateral offset mechanism established by Japan

Grant to sovereign projects (max. \$10 million)

Interest subsidy to non-sovereign projects (max. \$10 million)

\$41.48 million committed to six approved projects in **Maldives, Cambodia, Bangladesh and Mongolia**



MO = mitigation outcome

Article 6 Support Facility

INTRODUCTION

Provides **technical, capacity building, and policy development support** to ADB's developing member countries to **enhance their preparedness to participate in new carbon markets**

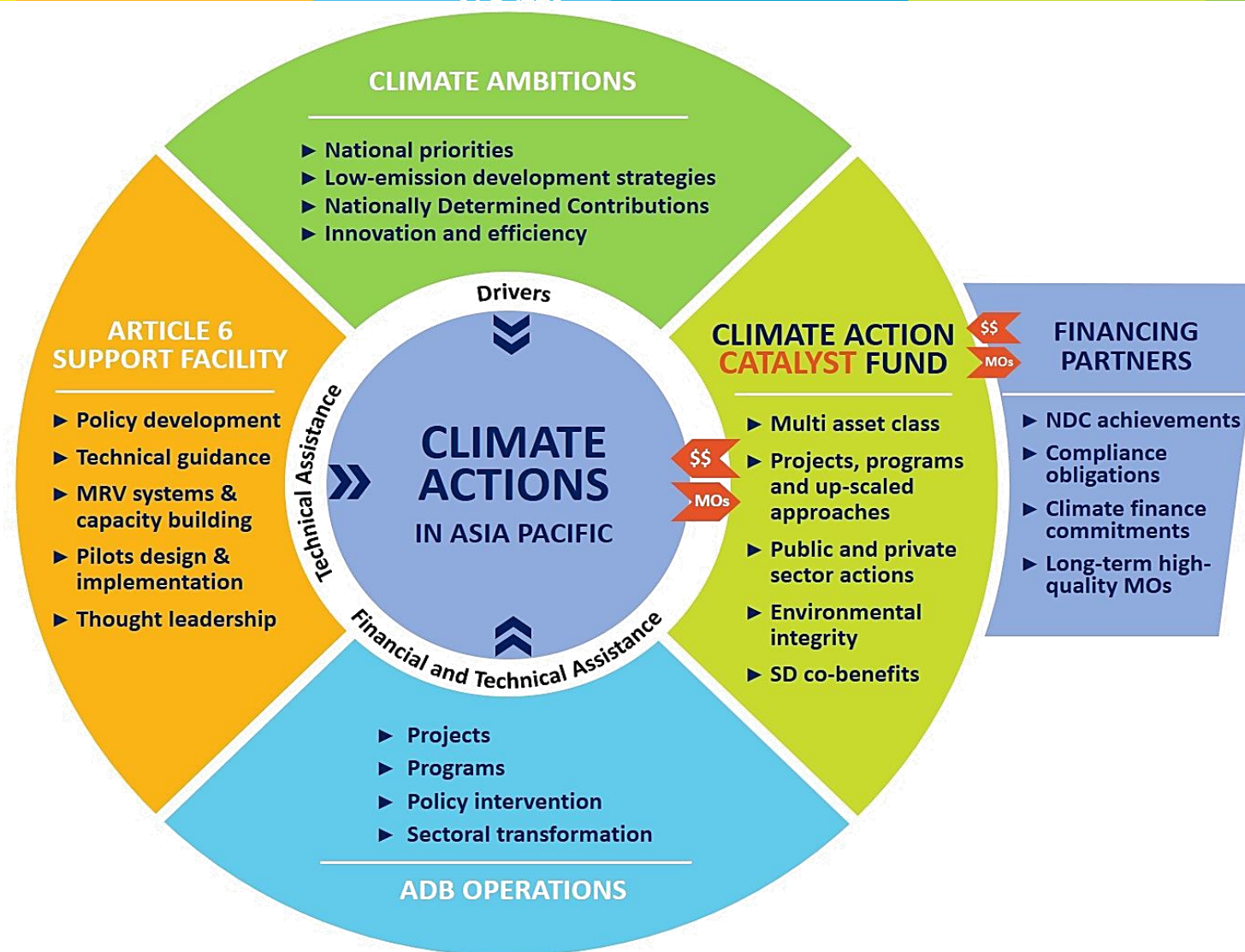
envisaged under the framework of Article 6 of the Paris Agreement.

- ❖ Continuation of ADB's engagement with carbon markets
- ❖ Began operations on 1 January 2019
- ❖ Initial Tenure: 2019 to 2021 (under extension)
- ❖ Current Budget: US\$5 million
- ❖ Funded by ADB, Govt of Germany, and Govt of Sweden
- ❖ Open to all DMCs in the Asia and Pacific region
- ❖ Currently supporting 7 developing member countries

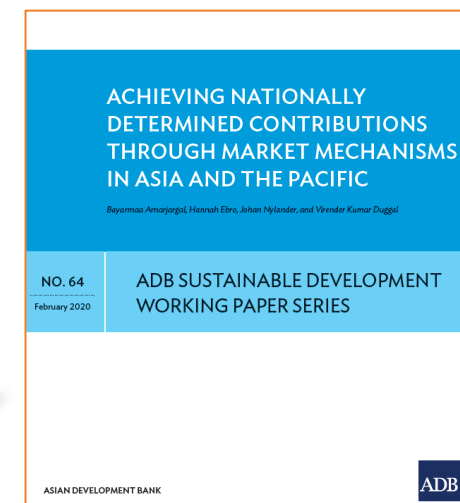
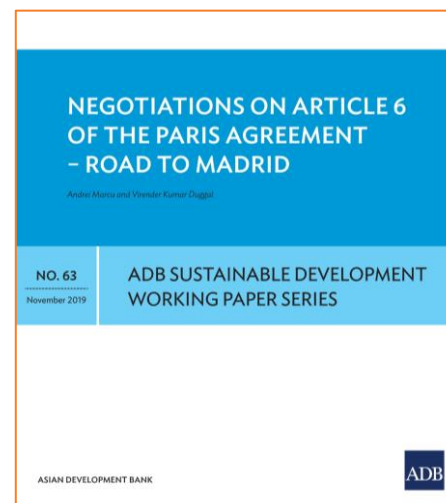
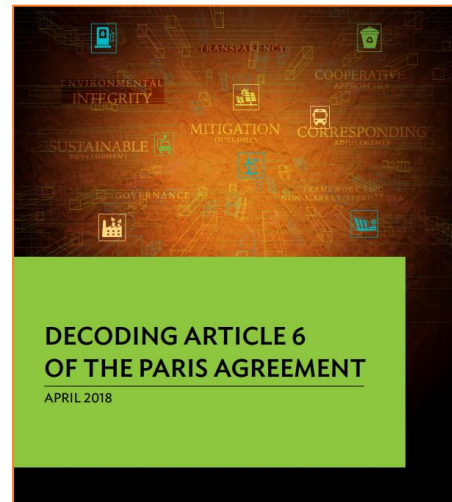
Bhutan, Indonesia, Mongolia, Pakistan, Philippines, Thailand and Viet Nam (at different stages of progress)

Different needs of DMCs, ranging from support to develop national policy/legal framework and MRV for Article 6 implementation to basic capacity-building and pilots

Climate Action Catalyst Fund



MO = mitigation outcome, MRV = monitoring, reporting, and verification, NDC = nationally determined contribution



Climate Change and Disaster Risk Management Technical Assistance Portfolio

TAs	APPROVAL – CLOSING DATES	MISSION LEADER	KEY ACTIVITIES
TA 9191: Building Climate Change Resilience in Asia's Critical Infrastructure (https://www.adb.org/projects/49158-001/main)	30 SEP 2016 – 31 DEC 2020	Arghya Sinha Roy	This proposed TA aims to increase knowledge, promote innovation and good practice, and identify priorities for scaling up climate resilient investments in the Asia and Pacific region.
TA 9395: Support for Implementation of the Asia-Pacific Climate Finance Fund (https://www.adb.org/projects/51163-001/main)	29 SEP 2017 – 28 SEP 2022	Charlotte Benson	ACliFF will support the assessment, development and provision of financial risk management products that can help unlock financing for climate investments and improve resilience to the impacts of climate change.
TA 9414: Supporting Adaptation Decision Making for Climate Resilient Investments (https://www.adb.org/projects/50121-001/main)	02 NOV 2017 – 31 DEC 2021	Arghya Sinha Roy	The TA aims to improve the understanding by DMCs on how to make effective use of climate information and services to facilitate planning and decision-making under climate uncertainty.
TA 9513: Advancing Inclusive and Resilient Urban Development Targeted at the Urban Poor (https://www.adb.org/projects/51325-001/main)	06 APR 2018 – 31 DEC 2021	Arghya Sinha Roy	The proposed knowledge and support TA will support selected DMCs of the ADB Bangladesh, Indonesia, and the Philippines to strengthen its capacity to design and implement investment projects that strengthen resilience of the urban poor, thereby advancing inclusive urban development.
TA 9695: Establishing a Support Facility for Article 6 of the Paris Agreement (https://www.adb.org/projects/50404-001/main)	07 DEC 2018 – 31 DEC 2021	Virender Duggal	The Support Facility will provide capacity building and technical support to DMCs to help them to identify, develop and test mitigation actions under the framework of Article 6 of the Paris Agreement.



Climate Change and Disaster Risk Management Technical Assistance Portfolio



TAAs	APPROVAL – CLOSING DATES	MISSION LEADER	KEY ACTIVITIES
TA 9716: Supporting Ambitious Climate Action through Implementation of Developing Member Countries' Nationally Determined Contributions (Subproject 1) (https://www.adb.org/projects/52004-002/main)	01 MAR 2019 – 30 NOV 2023	Malte Maass	The TA subproject 1 will have the following outcome: capacities of selected DMCs to implement NDCs enhanced.
TA 9720: Supporting the Implementation of ADB's Climate Change Operational Framework 2017–2030 - Establishing Mechanisms to Measure, Monitor, and Report on Commitments made under the Paris Agreement (Subproject 3) (https://www.adb.org/projects/52004-005/main)	19 MAR 2019 – 28 FEB 2021	Esmyra Javier	KSTA Cluster Subproject 3 will support establishment of mechanisms to measure, monitor, and report on commitments made under the Paris Agreement.
TA 9728: Scoping of Community Resilience Partnership Program (https://www.adb.org/projects/53142-001/main)	23 APR 2019 – 30 SEP 2020	Arghya Sinha Roy	The implementation of CRPP will support DMCs in achieving their commitments to global agreements: the 2030 Agenda for Sustainable Development, the Paris Agreement of Climate Change, and the Sendai Framework for Disaster Risk Reduction.
TA 9728: Scoping of Community Resilience Partnership Program (Supplementary)	24 MAR 20 – 30 SEP 2020		
TA 9744: Supporting the Implementation of ADB's Climate Change Operational Framework 2017 2030 - Enhancing Financial Mechanisms to Develop Climate Actions of Developing Member Countries (Subproject 2) (https://www.adb.org/projects/52004-004/main)	29 MAY 2019 – 31 MAR 2022	Frederic Asseline	Subproject 2 will support enhancement of financial mechanisms for developing climate actions of DMCs.





Climate Change and Disaster Risk Management Technical Assistance Portfolio



TAs	APPROVAL – CLOSING DATES	MISSION LEADER	KEY ACTIVITIES
TA 9748: Establishing a Platform for Climate-Resilient and Low-Carbon Urban Development (https://www.adb.org/projects/52304-001/main)	17 JUN 2019 – 31 DEC 2022	Frederic Asseline	The Platform aims to establish a collaborative process among key stakeholders at ADB and the DMCs, which will result in the production of a knowledge base on climate-informed urban development.
TA 9822: Integrated Disaster Risk Management Fund: Sharing Lessons, Achievements, and Best Practices (https://www.adb.org/projects/53350-001/main)	11 OCT 2019 – 30 NOV 2020	Steven Goldfinch	Given the broad scope of projects, activities, and knowledge generated across the seven DMCs, including the support for ASEAN, the TA will facilitate the identification and consolidation of lessons, achievements, and best practices to contribute to a potential scaling-up of sustainable investments.
TA 9944: Understanding Disaster Displacement in Asia and the Pacific (https://www.adb.org/projects/53124-001/main)	04 FEB 2020 – 31 DEC 2022	Steven Goldfinch	The knowledge and support TA aims to support DMCs prepare and respond to disasters through an enhanced understanding of disaster displacement.
TA 9955: Building Disaster-Resilient Infrastructure through Enhanced Knowledge (https://www.adb.org/projects/52251-001/main)	09 MAR 2020 – 28 FEB 2022	Steven Goldfinch	The TA aims to strengthen action-oriented DRM knowledge for disaster-resilient infrastructure in DMCs through the (i) development of upstream disaster-resilient infrastructure know-how, (ii) review of existing infrastructure investment design processes at the preparatory phase in selected DMCs, and (iii) capacity building of selected DMCs to incorporate disaster-resilient measures in post-disaster reconstruction processes, documented for the benefit of all DMCs.
TA 6539: Investing in Climate Change Adaptation through Agroecological Landscape Restoration: A Nature-Based Solution for Climate Resilience (https://www.adb.org/projects/53348-001/main)	06 JUL 20 – 30 JUN 2023	Yosuke Fukushima	The knowledge and support TA will support selected DMCs of the ADB in (i) elaborating, evaluating, and promoting innovative ways to scale up climate change adaptation interventions through agroecological landscape restoration; and (ii) strengthening the capacity of communities to restore and manage their climate-resilient landscapes for food and nutrition security.





Climate Change and Disaster Risk Management Consultant Openings



PROJECT / TA	OPENINGS	BRIEF DESCRIPTION OF THE ROLE
KSTA: 6561 Strengthening the Enabling Environment for Disaster Risk Financing (Phase 2)	Lead and Insurance Specialist	Lead the conduct of four country enabling environment assessments; and assess insurance, reinsurance and insurance-linked securities aspects.
	Public Financial Management Specialist	Assess public financial management aspects of the enabling environment for DRF in four focus countries.
	Agricultural Insurance Specialist	Assess agricultural and micro insurance aspects of the enabling environment for risk financing in four focus countries
	Health Insurance Specialist	Assess health insurance aspects of the enabling environment for risk financing in four focus countries, with a particular focus on insurance for epidemics and pandemics.
[In Process] REG: Building Institutional Capacity: Delivering Climate and Resilient Solutions under Operational Priority 3 of S2030	Climate Finance Specialists	Responsible for the development of 5 regional climate finance landscape scoping papers and provide support in delivering capacity building workshops on climate finance.
	Climate Adaptation Specialists	Lead the development of an approach/framework paper on scaling up adaptation investments in the private sector.
	Climate Policy/Strategy Specialists	Responsible for developing a methodology and guidance note for the preparation of long-term strategies (LTS) for DMCs.
	Pool of expert consultants (Climate Finance Specialist, Strategy/Policy Specialist, and Climate Change Specialists)	The international experts in the following thematic areas: strategy/policy, climate finance, economics and other related discipline will be drawn as resource persons or short-term consultants to provide technical expertise and capacity building support for ongoing and ensuing programs/projects, assessments, and policy dialogue, as needed.





Climate Change and Disaster Risk Management Consultant Openings



PROJECT / TA	OPENINGS	BRIEF DESCRIPTION OF THE ROLE
TA 9720: Establishing Mechanisms to Measure, Monitor, and Report on Commitments made under the Paris Agreement	Energy Specialist	Review relevant monitoring reports of the sector and identify issues in relation to the implementation of CCOF 2017-2030 and recommend solutions to address these; propose recommendations on how DMCs will improve on these sectors in relation to achieving their NDCs.
	Transport Specialist	Review relevant monitoring reports of the sector and identify issues in relation to the implementation of CCOF 2017-2030 and recommend solutions to address these; propose recommendations on how DMCs will improve on these sectors in relation to achieving their NDCs.
	Agriculture Specialist	Review relevant monitoring reports of the sector and identify issues in relation to the implementation of CCOF 2017-2030 and recommend solutions to address these; propose recommendations on how DMCs will improve on these sectors in relation to achieving their NDCs.
	Econometric Modeling Specialist	Lead in identifying the appropriate models to contribute to successful implementation of countries' NDCs; contribute to technical and analytical work, including advice on building the database for results indicators under CCOF2030; assist in the development of results framework and related indicators
	Senior Country Researcher	Provide technical and analytical support, including background work and data collection and analysis of assigned topics and provide coordination support and ensure smooth flow of documents and communications; assist in knowledge products preparation; and assist in organizing consultations, meetings and workshops
TA 9395: Support for Implementation of the Asia-Pacific Climate Finance Fund (ACliFF)	Risk Management Specialists	Undertake gap analyses to scope out opportunities and barriers for implementation of financial risk management products; support development of financial risk management product concepts; and engage with external parties who could help ACliFF to achieve its objective, including industry experts with relevant technical know-how and experience.
	Multi-media content writers (with climate change mitigation and/or adaptation expertise).	Develop and create content around ACliFF impact and innovations related to financial risk management products addressing climate mitigation and adaptation.



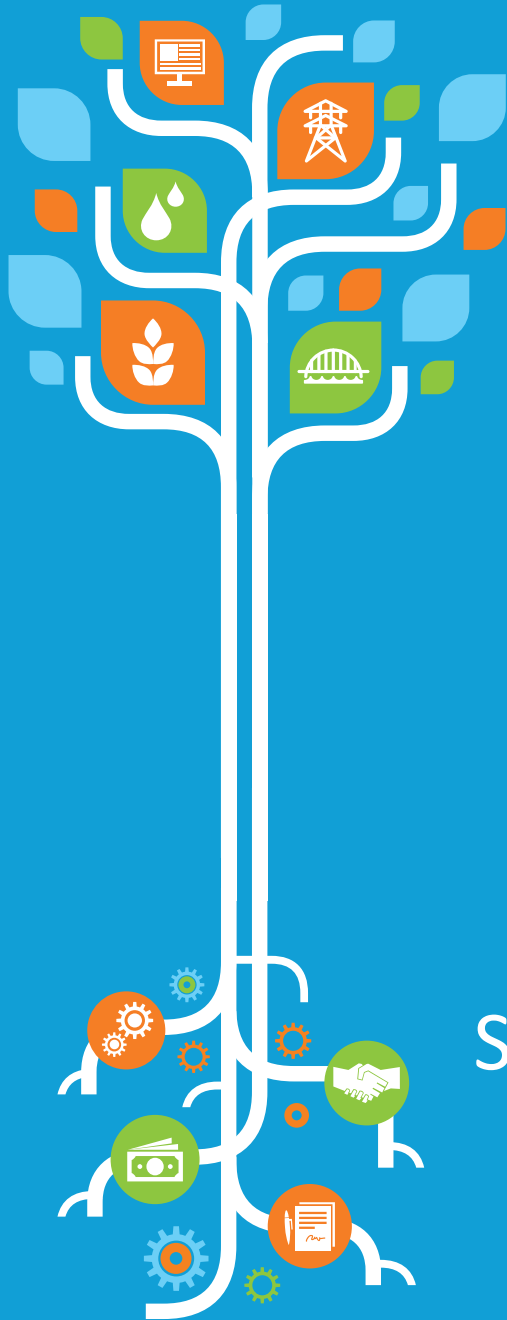
Climate Change and Disaster Risk Management Consultant Openings

PROJECT / TA	OPENINGS	BRIEF DESCRIPTION OF THE ROLE
TA 9695: Establishing a Support Facility for Article 6 of the Paris Agreement	Carbon Market Expert(s)	Consult with ADB operations department on capacity building and technical support that could be provided to participating DMCs in the TA; develop the detailed scope of technical assistance for each participating DMC based on consultation with DMCs, ADB operations departments, assessment of capacity deficits and considering relevant developments in the international climate regime.
	Project Manager(s) [Mitigation Actions]	Support DMCs to identify mitigation actions for piloting under Article 6 in consultation with ADB operational departments; design the scope and form of support to be offered to the activity owner(s), considering the outcomes of the Paris Rulebook, the consequent guidance, modalities and procedures for its implementation and any other relevant developments in the international climate regime.
	GHG Accounting Expert(s)	Conduct a baseline assessment of GHG emission MRV and accounting capacity and institutional arrangements in participating DMCs within the context of the operationalization of the Paris Agreement; provide support to participating DMCs in line with scope agreed.
	Technical Expert(s) [Mitigation Actions]	Support DMCs to identify mitigation actions for piloting under Article 6 in consultation with ADB operational departments; provide direct support to the activity owner(s) to design and implement the mitigation action(s) and undertake monitoring, recording and verification activities as required.

For further information:

<https://www.adb.org/themes/climate-change-disaster-risk-management/main>

<https://www.adb.org/climate-change-financing>



THANK YOU!

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Department

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