An Overview of ADB's ADB Climate Change Program

Samuel Tumiwa

Principal Planning and Coordination Specialist Regional and Sustainable Development Department

The views expressed in this presentation are the views of the author/s and do not necessarily reflect the views or policies of the Asian Development Bank, or its Board of Governors, or the governments they represent. ADB does not guarantee the accuracy of the data included in this presentation and accepts no responsibility for any consequence of their use. The countries listed in this presentation do not imply any view on ADB's part as to sovereignty or independent status or necessarily conform to ADB's terminology.



Presentation Outline

- Background/Key Messages
 ADB's Climate Change Program
 Partnerships for Climate Change Action
- Pushing the Frontier

Key Messages

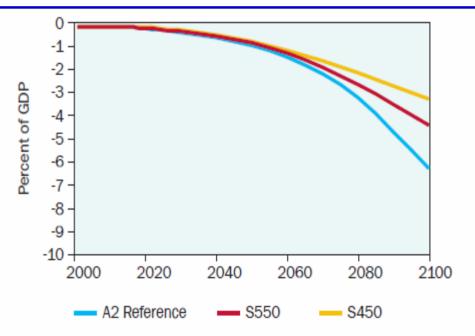
- Addressing <u>climate change is critical to</u> <u>achieving poverty reduction</u>, MDGs and Strategy 2020 objectives
- ADB and partners are <u>responding to immediate</u> <u>climate change demands in the Asia and</u> <u>Pacific Region</u>
- Funds have been efficiently and strategically allocated to meet DMC needs
- <u>Development and climate change plans are</u> <u>being aligned</u> for continued action

Economic Impacts in Asia

 Economic impacts in Asia will be significant – in SE Asia the four major economies stand to lose
 6.7% of GDP annually by 2100

• South, Southeast and East Asia could lose 15% of their land area

• Strong impact on Western Asia, yields of the predominant crops may fall by 15 – 35% once temperature rises by 3-4° C Economic Impacts of Climate Change in Four Southeast Asian Countries





ADB's Climate Change Program



National Strategies to Address Climate Change

CWRD	EARD	PARD	SARD	SERD
ARM**	PRC 2007	KIR* 2007	BAN 2008	CAM* 2007
AZE**		SAM* 2005	BHU* 2006	INO 2007
PAK (in	MON 1999	TUV* 2007	IND 2008	LAO 2009
prep.)		VAN* 2007	MAL* 2008	PHI 2008
KAZ**		Pacific	NEP* 2009	THA 2007
KYG* (in		Regional	(in prep.)	VIE 2008
prep.)		Framework 2005		
TAJ 2003		2005		

*NAPAs, National Adaptation Programmes of Action

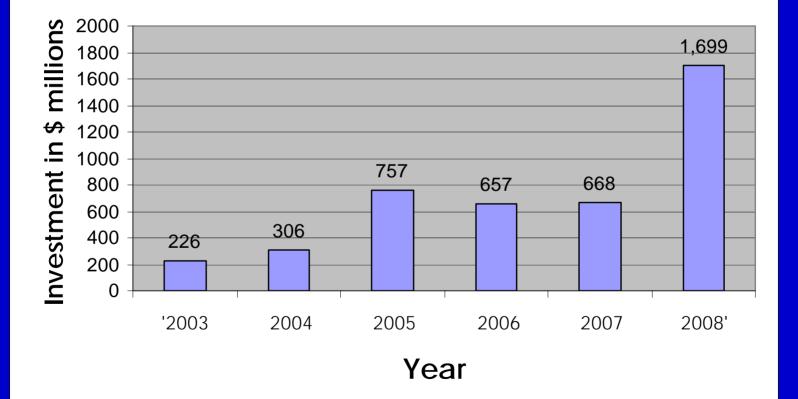
**GHG Abatement Strategy as part of Energy Sector Planning

ADB'S Climate Change Program

Financing Tools	Mobilize Concessional Resources	Catalyze Private Capital	Maximize Market Mechanisms	
Mitigation Core Elements	Advance Energy Efficiency and Low-Carbon Energy Sources			
	Enable Sustainable Transport Policy and Application of Efficient Systems			
	Promote Improved Urban Sanitation and Reduction of Fugitive Methane Emissions			
	Promote Sustainable Land Use and Forest Management			
Adaptation ore Elements	Incorporate Vulnerability Risks into National Development Strategies			
	Increase Climate Resilience of Vulnerable Sectors			
dapt e Ele	"Climate Proof" Projects			
Cor	Address Social Dimensions			

Promoting Low-Carbon Growth

Clean Energy Investment 2003-08



Mainstreaming Adaptation

Development Planning

- Bangladesh
- Lao PDR
- Nepal
- Palau

ADB Operations

- Project interventions (Solomon Islands, Timor-Leste, Viet Nam)
- Portfolio at Risk Assessment
- Climate Impact & Adaptation Screening Tool



Building resilient roads in Solomon Islands

Region-wide Responses

- Assessing ADB strengths to meet country priorities
- Programming ADB responses in each region for 2009– 2015



Understanding and Responding to Climate Change in Developing Asia

Asian Development Bank

Focus of ADB Climate Investment

RD	Priorities	Projects	Composition of the second	
CWRD	 Efficient Water & Energy Management Agriculture Adaptation 	Central Asian Countries Initiative for Land Management		
EARD	 Renewable Energy Development Energy Efficiency (coal and urban) Agriculture Adaptation 	 Tianjin: Integrated Gasification Combined Cycle* Zhangbei Wind Power Ulaanbaatar Building EE Retrofit* 		
PARD	 Adaptation of infrastructure Coastal Protection/Disaster Risk Management 	 Coral Triangle Initiative CC Adaptation Program for the Pacific 		
SARD	 Clean Energy Development Adaptation in Agriculture & Water Protection of Coasts 	 TATA Wind Power* Bangladesh Capacity Building to Address CC Nepal Impacts Adapt. 		
SERD	 Land-use and Forest Mgmt. Coastal Protection/Disaster Risk Management Clean Energy Development 	 Viet Nam Biogas* GMS Biodiversity Corridors Initiative 		

* Project developed with support from carbon market



Partnerships for Climate Change Action



Knowledge Partners

ADB

Building Climate Resilience in the Agriculture Sector of Asia and the Pacific ADB

Improving Energy Security and Reducing Carbon Intensity in Asia and the Pacific

ADB

Climate Change and Migration in Asia and the Pacific

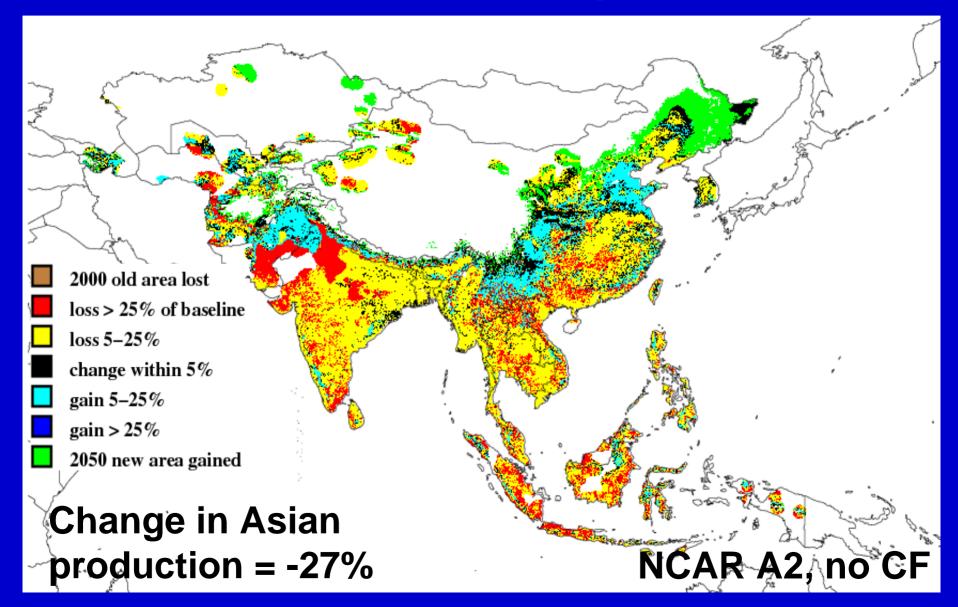


Asian Development Bank

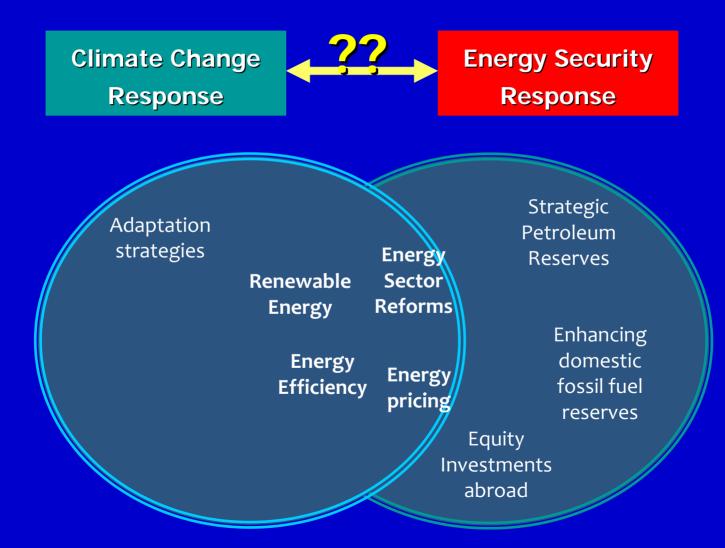
sian Deve<mark>lopment Bank</mark>

Asian Development Bank

Climate induced percentage change in production in 2050: Irrigated Rice



Potential for Policy Convergence



Mainland Asia Hot Spots



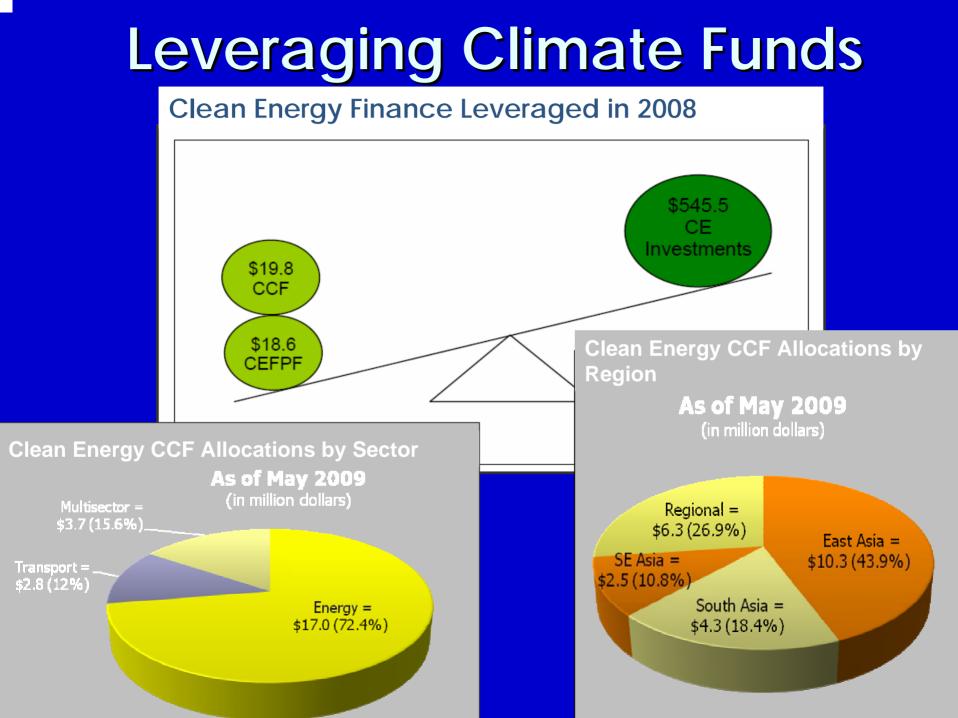
ADB Climate Change Funds: Catalyzing Action

Clean Energy Financing Partnership Facility (2008)	Climate Change Fund (2009)
\$18.6 million	\$40 million
19 Clean Energy	42 Projects
Projects	■18 Clean Energy
	20 Adaptation
	4 Land use/REDD

*Climate Change Funds enabled the number of clean energy activities to double

Climate Change Projects

REG: Clean Energy and Access Improvement	BAN: Strengthening Resilience of Water Sector in Khulna
PRC: Capacity Building for	NEP: Community-based Vulnerability
Implementation of Efficiency	Assessment, Risk Mapping &
Power Plant	Adaptation Planning
VIE: Renewable Energy	REG: Addressing Climate Change-
Development and Network	Induced Migration in Asia & Pacific
Expansion and Rehabilitation for Remote Communes Sector Project	PRC: Study on Public Expenditure in Agricultural Production
SRI: Clean Energy and Access Improvement Project	INO: Climate Change Adaptation in the 6 Ci's River Basin Territory
PRC: Utilization of Foreign Capital to	PARD: Strengthening the Capacity of
Promote Energy Conservation	Pacific Developing Member
and Energy Efficient Power	Countries (PDMCs) to Respond to
Generation Scheduling	Climate Change
Regional: Expanding the	REG: Preparing the Central Asia
Implementation of the Energy	South Asia Regional Electricity
Efficiency Initiative in DMCs	Market Project





Pushing the Frontier



Transition toward Low-Carbon Growth: Planned Actions

Energy sector: \$2 billion target Energy for All Technology Transfer & Diffusion Sustainable Transport Initiative Land and Forest Management/REDD

Building Climate Resilient Economies

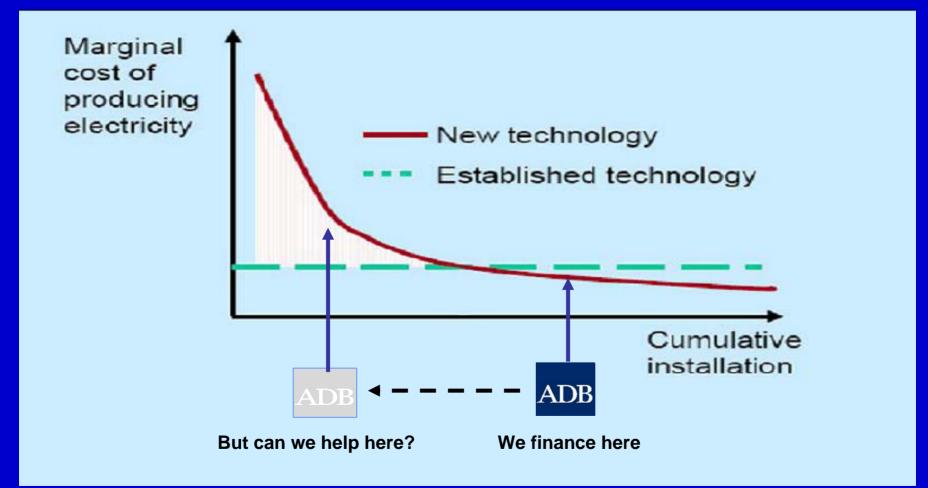
Integrating climate considerations in development planning Insurance and Climate Risk Water Security **Food Security Disaster Risk Management**

Emerging Environmental and Social Areas of Support

- Biodiversity conservation climate change greatest threat; focus of October 2010 COP, Aichi-Nagoya, Japan
- Land degradation adaptation now central to combating drought and desertification; mitigation, soil carbon sequestration
- Deforestation carbon market financing offers last best chance to save rainforests
- Urban co-benefits linking local air and water quality improvement to reduced GHG emissions
- Social dimensions anticipating & responding to emerging risks:
 - Migration
 - Gender
 - Governance
 - Health



The obvious ... the not so obvious



Business Unusual

ADB has been and will continue to be a <u>catalyst for climate-friendly development</u>

Demand from DMC partners is growing to support climate change responses

ADB is <u>experienced and well positioned</u> to handle new climate change funds