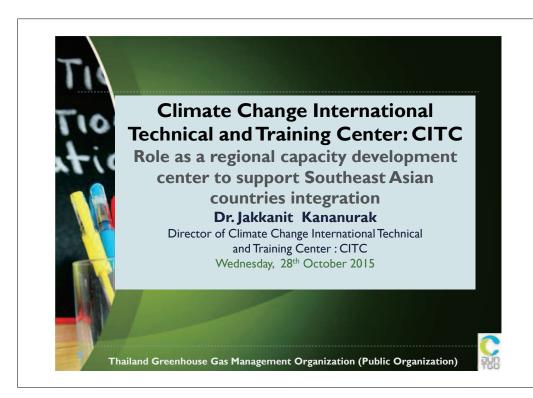
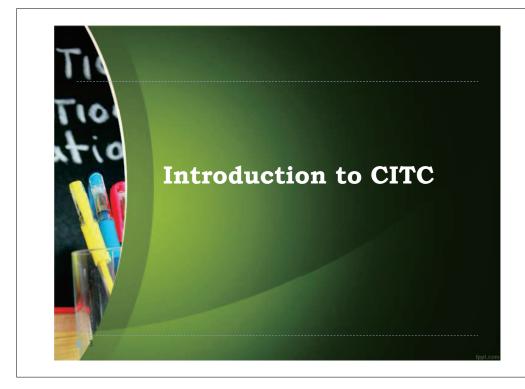
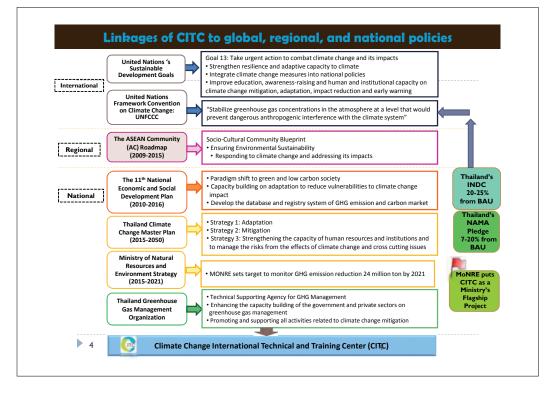
- 6.4 気候ファイナンスワークショップ資料(2015年10月28日)









Introduction to CITC (1/5)

- Climate Change International Technical and Training Center (CITC) is:
 - Established by Thailand Greenhouse Gas Management Organization (TGO)
 - A flagship project by the Ministry of Natural Resources and Environment, Thailand
 - Officially launched on May 8, 2014
 - Supported by Japan International Cooperation Agency (JICA)

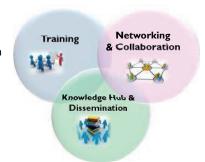
5

Introduction to CITC (2/5)

 "One-stop technical and training center on climate change in order to move towards low carbon & resilient society the region"

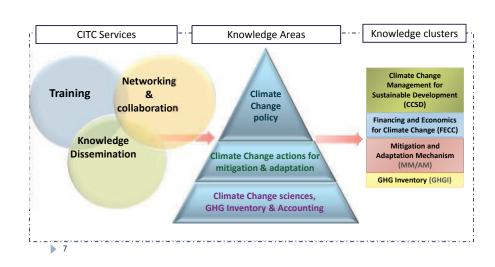
Mission

- Provide capacity development on climate change mitigation and adaptation
- 2. Promote climate change networking platform
- 3. Promote knowledge dissemination on climate change mitigation and adaptation



6

Introduction to CITC (3/5)



Climate Education and Training: Getting Fit to Shape the Future: The Article 6 Dialogue, June 2015, Bonn



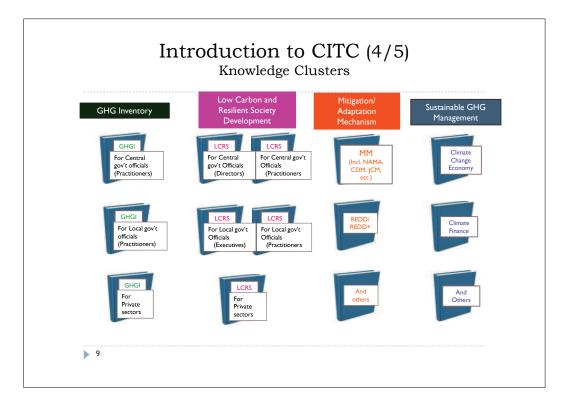
Christiana Figueres, Executive Secretary of the UNFCCC

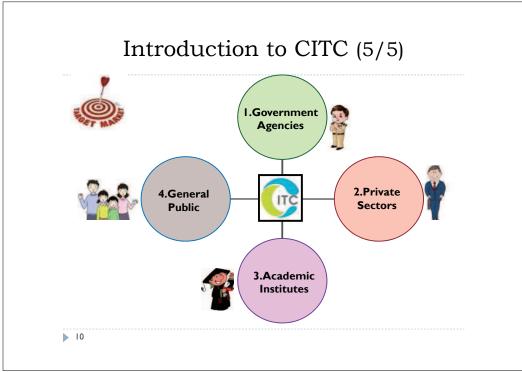
....."It is not only about studying climate change, but also about understanding it. It is critical to include it in curricula, but it needs to be embedded in the DNA of today's very education concept. It is not just another course; it is about how everything else we study or do is affected by climate change.

It is about understanding the transformation to be able to act on it."

Source: http://newsroom.unfccc.int/lima/article-6-climate-education-and-training/

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Achievements & CITC's Training Program (1/9)

Curriculums	Targets	Date	No. Partici _l	
			Trainees	TTT
1. Greenhouse Gas Inventory (GHGI)	Central governments practitioners	Aug, Sep 2014/ May, July 2015	143	19
2. Low Carbon and Resilient Society Development (LCRS)	Local governments practitioners	Dec 2014	38	33
3. Low Carbon and Resilient Society Development (LCRS)	Local governments executives	Mar 2015	59	-
4. Climate Change Economics	Central governments	Mar, May /June 2015	61	13
12				

Achievements & CITC's Training Program (2/9)

Targets	Date		_
		Trainees	TTT
Central governments Executive and practitioners	Sep 2015	37	-
Central governments practitioners	Sep 2015	88	42
Total		426	107
	Central governments Executive and practitioners Central governments practitioners	Central Sep 2015 governments Executive and practitioners Central Sep 2015 governments practitioners	Central Sep 2015 37 governments Executive and practitioners Central Sep 2015 88 governments practitioners

13

Achievements & Progress – Networking (3/9) EPPO RFD NMT STI PCD GISTDA NSTDA ASEAN Countries/ Municipali ties ASEAN International Cooperation cυ ASEAN Country CC focal point METI JICA MOEJ ΚU NIES UNFCCC ERDI

Achievements & Progress (4/9)

participated the **ASEAN Working Group on Climate Change (AWGCC)** for introducing the establishment of CITC and CITC activities from **2012-2015.**







Achievements & Progress (5/9)

The UNFCCC COP 20/ CMP10 Side Event

"Climate Change Capacity Development Activities in Southeast Asia Region: Enhance Capacity through the CITC"

(co-organized with JICA) Lima, Peru (more than 70 participants)



H.E. Mr. Ruengdej Mahasaranond Ambassador of Thailand at Lima, Perú



Mr. Michihiro Oi Director, Office of International Strategies on Climate Change, MOEJ

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Mr. Ichiro Sato Deputy Director, Office for Climate Change, JlCA

Achievements & Progress

The UNFCCC COP 20/ CMPI0 Side Event

"Climate Change Capacity Development Activities in Southeast Asia Region: Enhance Capacity through the CITC"

(co-organized with JICA) Lima, Peru (more than 70 participants)





Achievements & Progress (6/9)

"Regional Workshop for Capacity Development on Low Carbon and Resilient Society in Southeast Asian Countries", 22–24 June 2015, Bangkok, Thailand

(117 participants from ASEAN Secretariat, focal points, cities and academia from ASEAN member countries)





General Ekachai Chansri Advisor to the Minister of Natural



Mr. Hiroyoki Okajima Minister-Counsellor, Embassy of Japan in Thailand

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Achievements & Progress (7/9)

"Regional Workshop for Capacity Development on

Low Carbon and Resilient Society in Southeast Asian Countries", 22-24 June 2015, Bangkok, Thailand



MOC Signing Ceremony



Panel Discussion "Capacity development as a key success factor to achieve Low Carbon and Resilient Society"

Achievements & Progress (8/9) Knowledge Hub & Dissemination

Leaflets and Stand-banners













Achievements & Progress (9/9) Knowledge Hub & Dissemination

CITC website (www.citc.in.th)



Climate Change Channel (movie clips, linked with CITC website)



2I



Upcoming Activities Oct-Dec 2015 Jan-Mar 2016 Apr-Jun 2016 Jul-Sep 2016 Trainings / Workshops Training on Climate change economics (3) Workshop on TNA for Climate Finance Training on Low Carbon & Resilient Society (2) Training on Low Carbon & Resilient Society for central Training on Mitigation Mechanism (2) government (2) peer review meeting for Low Carbon & Resilient Society Training on Climate Finance (1) TTT Course Training on Greenhouse Gas Inventory for central government (5) peer review meeting Mitigation Mechanism Training on Low Carbon & Resilient Society (1) Workshop on Low Carbon & Resilient Society ASEAN Workshop (3) **Knowledge Hub & Dissemination** Publications through media to all targets PR and Networking activities (road shows, participation of domestic & international events) CITC website & E-learning

United Nations Framework Convention on Climate Change

Opportunity to enhance climate mitigation programs by climate finance

Regional Workshop for Capacity Development on Climate Finance in Southeast Asian

28 October 2015, Bangkok



Benita Gurung, Regional Collaboration Center, Bangkok

UNFCCC secretariat

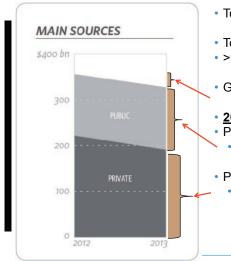
OUTLINE

- 1) Landscape of climate finance -mitigation
- 2) CDM's contribution to climate finance
- 3) Opportunities for CDM projects
- 4) Final remarks



1. Landscape of climate finance

Climate finance - 2013 vs 2012

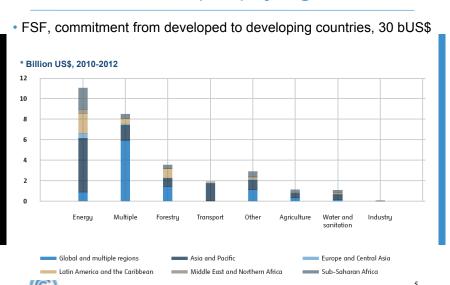


- Total flows, 2013: 331 bn. US\$;
- Total flows, 2012: 359 bn. US\$
- >90% for mitigation
- Gap: 28 bn. US\$ gap, 8% decrease
- 2013:
- Public: 137 bn. US\$; 126 b.US\$ from:
- Development Financial Inst., DFI
- Private: 193 bn. US\$, mainly from:
- Project developers and corporates



Source: The Global Landscape of Climate Finance 2014, Climate Policy Initiative.

Fast Start Finance (FSF) by regions/sectors



Climate finance by MDB, 2012 –US\$ million

MDB	Adaptation	Mitigation	Total
AfDB	445	1,463	1,908
ADB	821	2,001	2,822
EBRD	188	2,812	3,000
EIB	179	3,484	3,663
IFC		1,552	1,552
IDB	139	1,619	1,758
WB	3,813	6,168	9,981
Total	5585	19100	24,685



Source: UNFCCC Biennial assessment and overview of climate finance flows 2014 6

2. CDM's contribution to climate finance 2004-2013



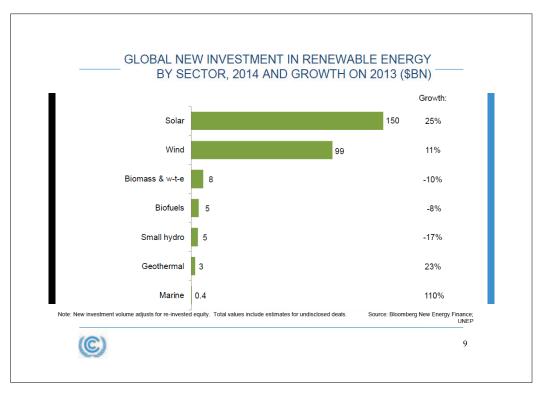
Renewable energy investment, 2004-2013

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
GTREI	39.5	64.5	99.6	145.9	171.2	168.4	226.7	279.4	249.5	214.4
GTREI- Developed	32.0	49.0	74.0	103.0	113.0	106.0	153.0	187.0	142.0	122.0
GTREI- Developing	8.0	16.0	25.0	43.0	58.0	63.0	74.0	92.0	107.0	93.0
CDM	0.0	0.9	9.3	14.1	15.8	31.1	51.8	80.5	197.5	17.9

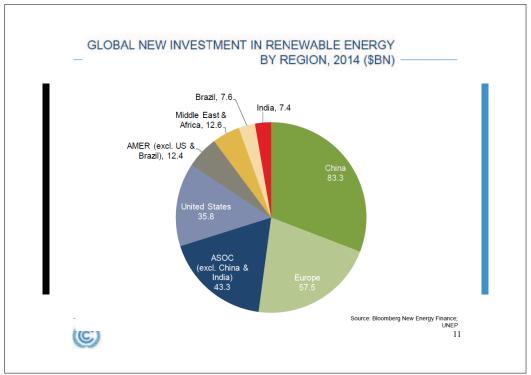
- * GTREI, Global trend in renewable energy investment
 - Renewable energy, RE, investment grew from 39.5 to 214.4 bn.US\$, 2004 to 2013
 - RE investment in developed and developing countries increased ~4 and 12 times, respectively.
 - In 10 years CDM contributed to 418 bn.US\$; In 2012 CDM contributed nearly 80% of the total investment for RE

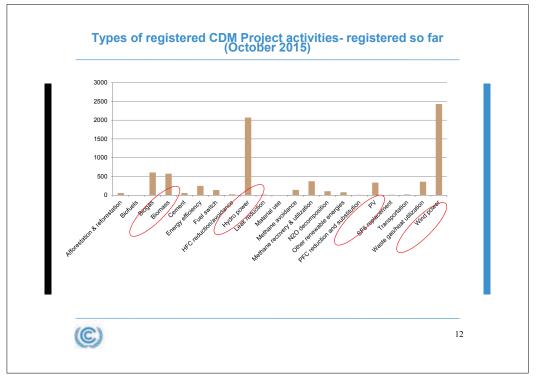


Source: Biennial assessment and overview of climate finance flows 2014

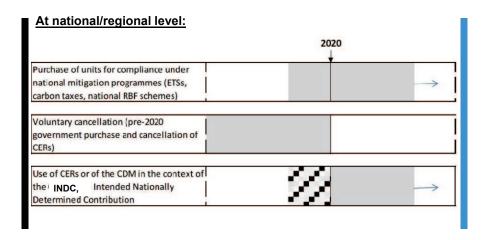




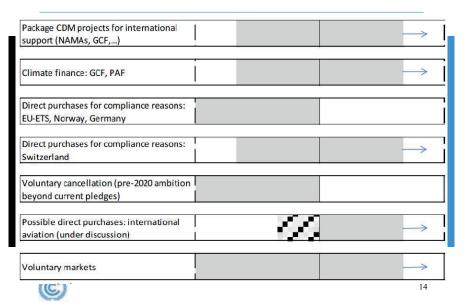




Sources of demand for CERs



Sources of demand for CERs



Current opportunities for CDM

Buyer	Total USD or CER credits	From	Criteria
Foundation for Climate Protection & Carbon Offset, KliK, Swiss Petroleum Association	1 million CERs	11/201	Maximum of 35% of total volume from one country Maximum bid size is 100,000 CERs/transaction RE technology, hydro <20MW Energy efficiency
NEFCO Norwegian Carbon Procurement Facility (NorCap)	30 million CERs	10/201	Vulnerability to carbon prices (stranded, abandoned) Developing country without a cap under Kyoto Wind or hydro projects, LDCs Minimum 300,000 CERs/transaction Excluded: hydro & wind in non-LDCs, HFC/N2O (adipic acid production), coal based production without CCS

Current opportunities for CDM

Agency 10 million CERs 12/201 Focused on Africa/SE Asia Minimum 200,000CERs/transaction RE, energy efficiency and waste management Project should be new or vulnerable projects China excluded Methane from landfill, waste-water, etc. Excludes oil and gas and coal mines Eligible monitoring period start date, Sept. 2014. PAF I: 12 winners @ 2.4 CER price, 8.7 million CERs sold Carbon Market Foundation, KfW, Germany 10 million RE, energy efficiency and waste management Project should be new or vulnerable projects China excluded Methane from landfill, waste-water, etc. Excludes oil and gas and coal mines Eligible monitoring period start date, Sept. 2014. PAF I: 12 winners @ 2.4 CER price, 8.7 million CERs sold Carbon Market Foundation, KfW, Germany 15 Maximum volume for start-up financing no more than 2million EUR/PoA Not limited to LDCs		Total USD or CER credits	From	Criteria
Prototype Auction Facility, PAF In 4 lots of USD25 m Day Day Day Day Day Day Day Da				Minimum 200,000CERs/transaction RE, energy efficiency and waste management
Foundation, KfW, Germany last call Minimum 25,000 CERs/year Maximum volume for start-up financing no more than 2million EUR/PoA	Prototype Auction Facility,	in 4 lots of	PAF I,	Methane from landfill, waste-water, etc. Excludes oil and gas and coal mines Eligible monitoring period start date, Sept. 2014. PAF I: 12 winners @ 2.4 CER price, 8.7 million
	Foundation,		last call 31/08/	Minimum 25,000 CERs/year Maximum volume for start-up financing no more than 2million EUR/PoA



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Current opportunities for CDM

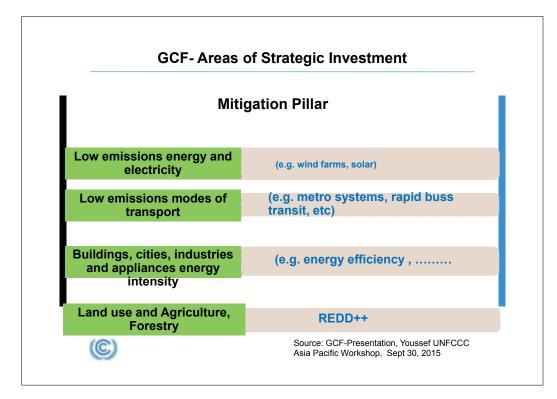
- New Corporate Target for Climate Finance*
- ADB to invest \$6 billion for climate change for Asia-Pacific by 2020
- · Of this, \$4 billion for mitigation and \$2 for adaptation
- · Green Climate Fund
- Operating entity of the financial mechanism of the UNFCCC, CoP16
- Centrepiece of long-term finance under UNFCCC
- · Secretariat December 2013 Songdo;
- Fully operational, staffed and resourced

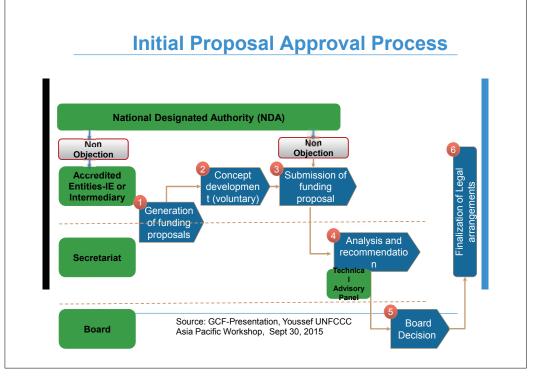
^{*} Source: http://www.adb.org/news/adb-double-annual-climate-financing-6-billion-asia-pacific-2020



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GCF- Resources Allocation • \$10.2 billion in pledges \$5.8 billion in signed Mitigation contributions (50%) • 50/50 split between adaptation & mitigation **ADAPTATION** SIDS, LDCs & Africa SIDS, LDCs, • Geographic balance & AFRICA Adaptation (at least half) (50%) DEVELOPING 50% of adaptation COUNTRIES resources for SIDS, LDCs and African states Source: GCF-Presentation. Dr. Binu Parthan, UNFCCC Asia Pacific Workshop, Sept 30, 2015 18





4. Final remarks



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Final remarks

- 1. Financial flows in the last 5 years are > 300 bn.US\$/year, ; >90% focused on mitigation, renewable energy
- 2. Development financial institutions and corporations are the key actors involved in climate finance. However, **data uncertainty** on reporting sources and destinations of funding remains a challenge.
- 3. CDM has proven to be a market tool that promotes public and private investment. E.g. For RE contributed towards 418 bn.US\$.
- 4. CDM, an enhanced/new market mechanism could support filling up the mitigation gap, 17 GtCO₂, needed to achieve 2oC level.
- 5. Mitigation potential from >1,000 CDM registered projects in the region can be used towards: (i) national commitments; e.g. country/ regional trading schemes; (ii) international initiatives; e.g. PAF II



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THANK You

 ${\bf Email\ address:\ RCCBangkok@unfccc.int}$

Skype: RCC.Bangkok

Definition of climate finance

Capital flows that target mitigation or adaptation objectives or outcomes. These flows include private and public finance; they support project implementation, policy and capacity building

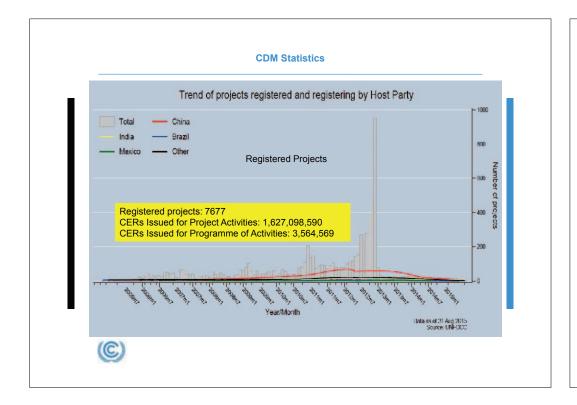
Climate Policy Initiative



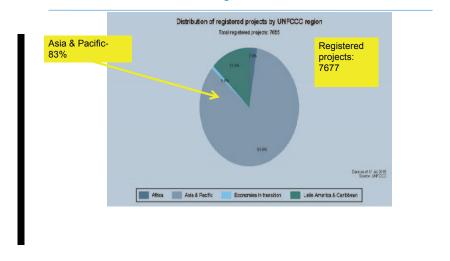
Source: Biennial assessment and overview of climate finance flows 2014

ps://unfccc.int/files/cooperation_and_support/financial_mechanism/standing_committee/application/pdf/201424_ennial_assessment_and_overview

of climate finance flows report web.pdf



CDM Project activities





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Domestic and International Finance

Tomonori SUDO, Ph.D Associate Professor, Ritsumeikan Asia Pacific University

Regional Workshop for Capacity Development on Climate Finance in Southeast Asian countries 28 October 2015 Bangkok, Thailand

Finance needs for Sustainable Development

Investment gap for the world under a business-as-usual scenario is far larger (\$5 trillion/y) than the incremental investments needed to accommodate climate change(\$0.7 trillion/y, 14%).

Climate change considerations must be mainstreamed into such investments!



Source: JICA

Power generation 6,933 347 10,136 507 3,203 160 Power 5,450 272 5,021 251 -429 -21 transmission and development Emergy fotal 12,283 619 15,157 758 2,774 139 Bulldings 7,162 358 13,076 654 5,914 296 Industry 5,100 255 5,900 290 700 35 Bulldings 12,282 613 18,876 944 6,614 331 Industrial total 12,282 613 18,876 944 6,614 331 Road 8,000 400 8,0007 4007 -	
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Transport total 33,008 1,650 36,740 1,637 3,732 187 Water 26,400 1,320 26,4007 1,3007 - Agriculture 2,500 155 2,5007 1227 - Telecommunications 12,000 600 12,0007 6007 - -	OECD
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Telecommunications 12,000 600 12,000? 600?	OECD
	FAO
Forestry 1.280 64 2.080 104 800 40	OECD
	UNEP
Other sectors unknown unknown unknown unknown unknown unknown	
Total investment 99,833 4,991 113,753 5,689 13,934 698	
-\$100tr -\$5 tr -\$114 tr -\$57tr -\$14 tr -\$07tr	

Sources: VECUP**, EAR*, PAP*, UNE**. Listal presented in Loss, 2010 railes. Note: Total investment does not in Loido gynary officies that can occur between other investments beelds energy, buildings and industry and transport. The total amount provided is a proxy of thurse investment, investment in waiter and islocommunications infrastructure covers the OECD and emerging markets only, investment in agriculture covers 93 developing countries only. See

Source: WEF (2013)

Asia's Total Infrastructure Investment Needs by Sector, 2010–2020 (in 2008 US\$ million)

Sector/Subsector	New Capacity	Replacement	Total
Energy (Electricity)	3,176,437	912,202	4,088,639
Telecommunications	325,353	730,304	1,055,657
Mobile phones	181,763	509,151	690,914
Landlines	143,590	221,153	364,743
Transport	1,761,666	704,457	2,466,123
Airports	6,533	4,728	11,260
Ports	50,275	25,416	75,691
Railways	2,692	35,947	38,639
Roads	1,702,166	638,366	2,340,532
Water and Sanitation	155,493	225,797	381,290
Sanitation	107,925	119,573	227,498
Water	47,568	106,224	153,792
Total	5,418,949	2,572,760	7,991,709

\$ = United States dollar. Sources: ADBI (2009); Bhattacharyay (2008).

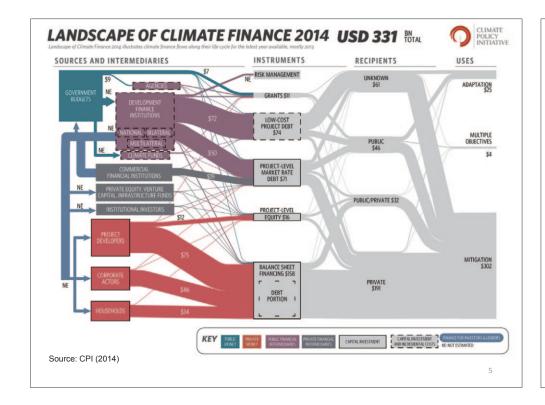
Source: ADB and ADBI (2009)

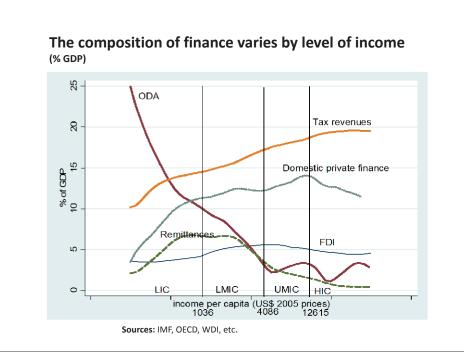
Financial resources for sustainable development

Trends in finance to developing countries

(\$ billion, 2011 prices), 2002-2011 6000 Domestic public resources 5000 4000 3000 Domestic private resources 2000 International private resources 1000 International public resources 2003 2004 2005 2006 2007 2008 2009 2010 2011

Sources: IMF, OECD, WDI, etc.





Knowledge gaps

- Source of finance
 - Domestic vs International
 - Public vs Private
 - Blending and innovative finance
- Characteristics of each finance source
 - Volume, predictability, opportunity and risks
- Enabling environment
 - Policy, regulations and incentives
 - Role of players

Characteristics, potentials and risks of finance

	Characteristics	Potential	Risk
Domestic public finance •Nat'l budget(Nat'l tax) •Municipality budget •Bonds •Domestic DFIs	Most stable and low risk finance source. Good for finance in low profit public projects Contribute to leveraging domestic private finance	Improved governance and financial system lead to increase of domestic finance flows and FDI.	Political difficulty in increase of tax revenue Lack of capacity of appropriate public fiscal management Risk to crowd-out private finance
International Public Finance ODA OOF Multilaterals	Stable and low risk finance but low predictability Limited volume of finance Need to use efficiently and effectively	Leveraging private finance	Risk to crowd-out private finance. Need to appropriate foreign reserve and forex management
Private finance	Largest finance source. Contribute to SD by investing in the project where social benefit will be increased while private benefit will be maximized. Generate employment opportunity and sustainable development impact by expansion of business	Increase of private finance flow into developing countries Increase of finance flows between developing countries	Unstable due to economic situation and sensitive to risks Hard to capture the total flow of private finance Hard to make sure the transparency and accountability due to business confidentiality
Blended finance •ppp •EU Blending mechanism	 Sharing risks and cost by public, private finance will be mobilized and contribute to establish better business environment and market. 	Increase of private sector participation	Risk of market distortion Risk of dependency to public

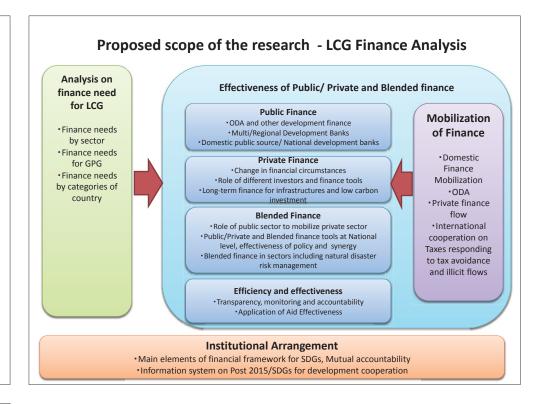
key policy issues involved at national and regional level

- National Level
 - How to mobilize finance for Low-carbon Green Growth?
 - Domestic resource mobilization
 - International Public Finance and GCF
 - Private Sector Finance and Innovative Finance
- Regional Level
 - Can Asian countries manage financial resources within the region?
 - Advanced economy
 - · Emerging economy
 - · Developing economy
- → Incentive and regulation, Market, Enabling environment, Institutions

Thank you for your attention!

Your comments are highly appreciated!

Tomonori Sudo, Ph. D., t-sudo@apu.ac.jp



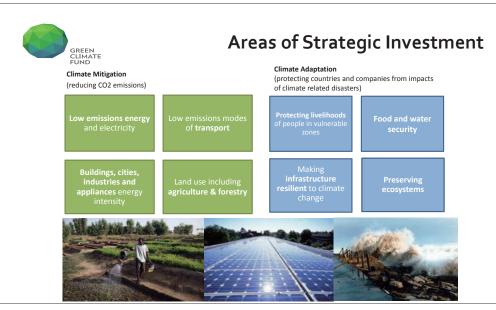


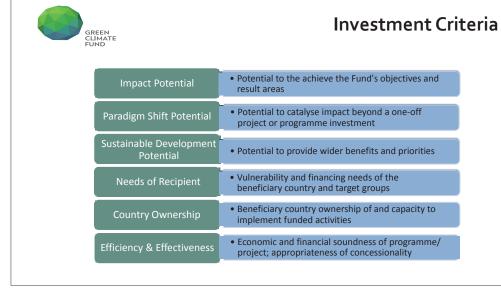


About GCF

- Mandated by the United Nations Framework Convention on Climate Change
- Promoting the paradigm shift toward low-emission and climate-resilient development pathways
- Global community has tasked the GCF to be the world's largest climate fund so as to address the climate change challenges in developing countries









Private Sector Facility Overview

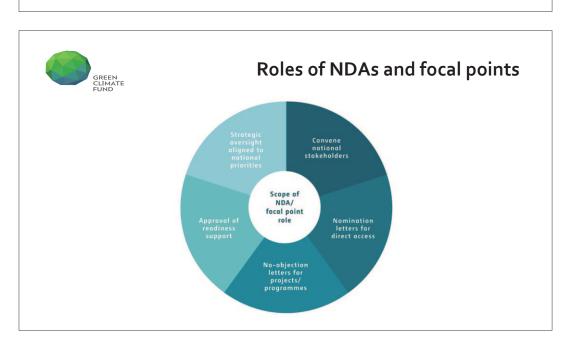
- The GCF's Private Sector Facility (PSF) was created to catalyze and maximize private sector engagement in climate finance throughout developing countries.
- The GCF will allocate a significant proportion of its resources to the PSF.
- The PSF is not an "add on"; it is mainstream component of the GCF.

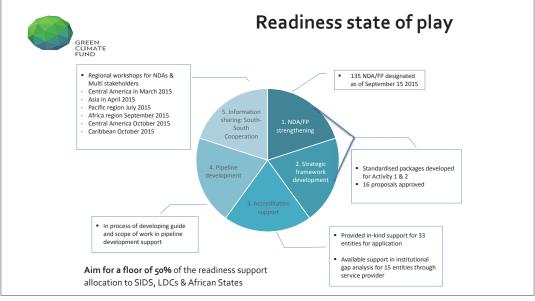


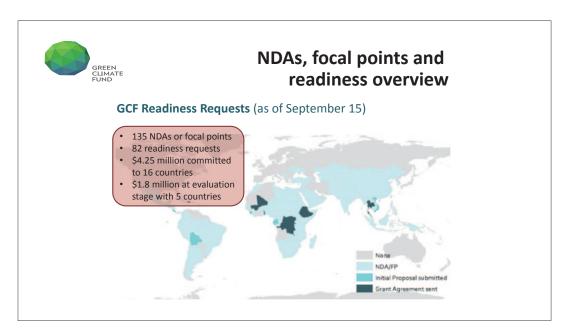


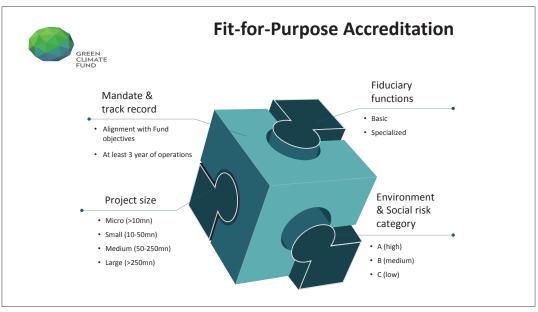
Green Climate Fund- status update

- The Fund reached effectiveness in May 2015 (total of 6 billion USD equivalent)
- Readiness commitments to 16 countries worth 4.25 million USD
- 20 entities accredited
- Strong demand for funding: project ideas, concept notes and funding proposals worth more 7 billion USD received

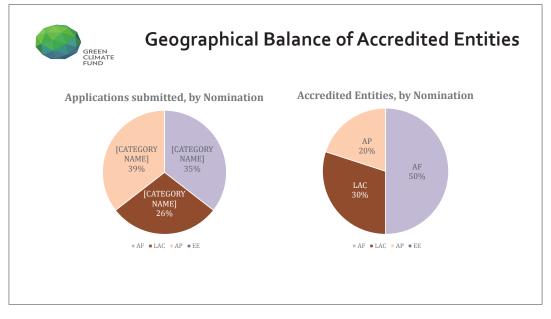








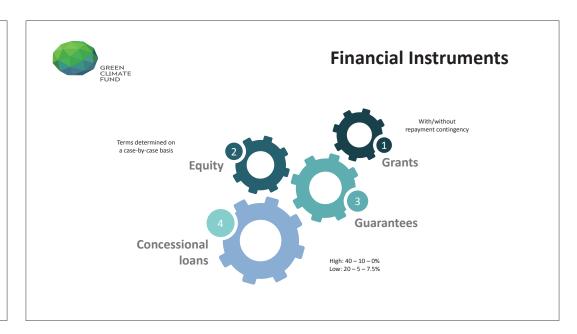


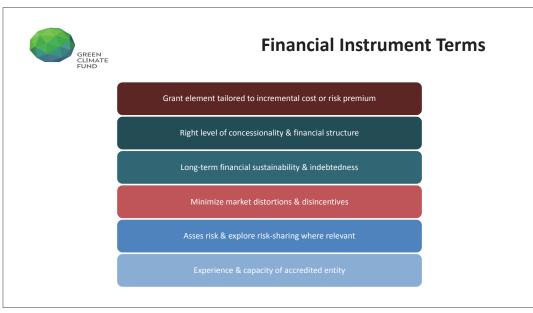


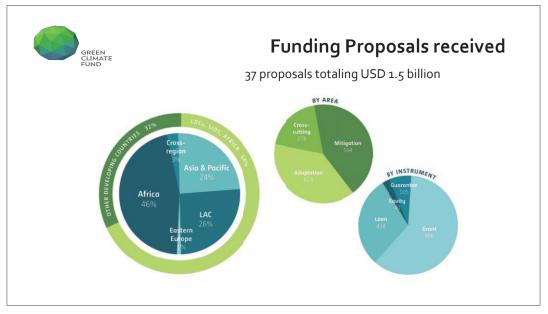


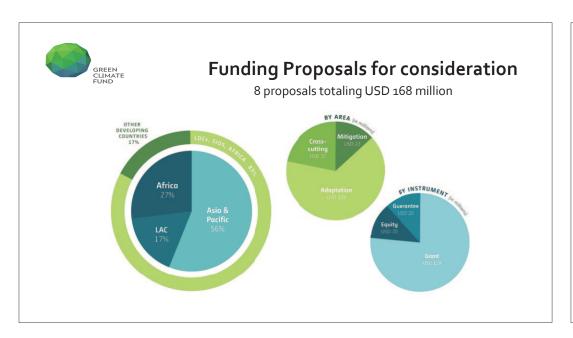
Readiness for Accreditation: supporting direct access entities

- Provided in-kind support for 33 entities for application
- Institutional gap analysis for **6 entities** under way, 9 more entities expected by the end of 2015









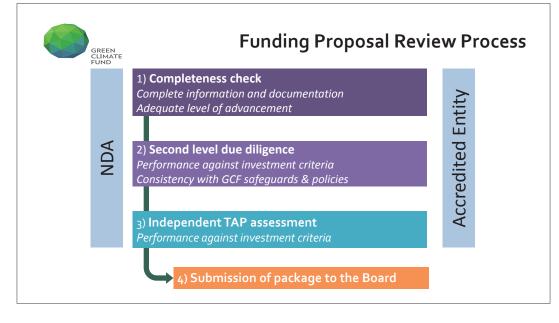


Funding Proposals for consideration

8 proposals totaling USD 168 million

No.	Project name	Accredited entity	Country / Region	Mitigation/ adaptation/ cross-cutting	Public/ private	GCF funding requested (in million USD)
FP 001	Building the Resilience of Wetlands in the Province of Datem del Marañón in Peru	Profonanpe	Peru	Crosscutting	Public	6.2
FP 002	Scaling Up the Use of Modernized Climate Information and Early Warning Systems in Malawi	UNDP	Malawi	Adaptation	Public	12.3
FP 003	Increasing the Resilience of Ecosystems and Communities through the Restoration of the Productive Bases of Salinized Lands in Senegal	CSE	Senegal	Adaptation	Public	7.6
FP 004	Climate Resilient Infrastructure Mainstreaming in Bangladesh	KſW	Bangladesh	Adaptation	Public	40
FP 005	KawiSafi Ventures Fund in Eastern Africa	Acumen	Multiple (Africa)	Crosscutting	Private	25
FP 006	Energy Efficiency Green Bond in Latin America and the Caribbean	IDB	Multiple (Latin America)	Mitigation	Private	22
FP 007	Supporting Vulnerable Communities in Maldives to Manage Climate Change Induced Water Shortages	UNDP	Maldives	Adaptation	Public	23.6
FP 008	Urban Water Supply and Wastewater Management Project in Fiji	ADB	Fiji	Crosscutting	Public	31
		To	tal funding r	equested (in mi	llion USD)	168









Common Gaps Identified in Completeness Check

1) Incomplete information

- Budget breakdown missing
- Disbursement schedule not provided

2) Missing documentation

- Feasibility study not complete
- Environmental and Social Management Plan needed, but not available

3) Not sufficiently advanced

- Resettlement action plan needed but not developed
- Stakeholder consultation not conducted



Strengthening Performance against Investment Criteria

1) Climate impact potential

- Use a robust methodology to calculate emission reductions or number of beneficiaries
- Provide an adaptation rationale based on scientific evidence of climate-related impact

2) Long term sustainability

- Improve financial viability of economic activities, based on the interest of indigenous communities
- Duly consider Operation & Maintenance plans and costs

3) Efficiency and effectiveness

- Identify additional sources of co-financing, crowding-in of funds



Enhancing Consistency with GCF Policies

1) Gender assessment

- Identify differentiated impacts and livelihood opportunities for women
- Disaggregate targets by gender

2) Logic framework

- Strengthen cause-effect relation to effectively tackle barriers
- Narrow down the scope of activities to focus resources

3) Risks

- Solidify risk mitigation measures to minimize risk profile



Scaling up climate finance for Climate Change Adaptation

(Mobilizing the Private Sector)

Puja Sawhney, Ph.D Coordinator of the Regional Hub for Asia Pacific Adaptation Network (APAN), Institute for Global Environmental Strategies 28 October 2015 Bangkok, Thailand

Main Message

- * There is no shortage of money not even for climate change \$360 billion in 2012, but not much for adaptation (\$22 billion);
- * There is a lack of capacity specifically a lack of capability in governments to implement funded projects efficiently and effectively, even if the funds are readily available, so the private sector must be involved;
- * Above all there is a lack of creativity thinking outside the box to create new revenue streams like payment for ecosystem services, debt for climate swaps, or private sector investment in environmental goods and services;
- * Too often the private sector is seen as the cause of environmental problems, including climate change, rather than a potential source of solutions this must change;
- * The private sector will respond when informed and engaged and will often develop their own adaptation strategies, because it is in their own long term interests (e.g. insurance companies and pension funds).

Most Climate Finance is Private but only 6% for Adaptation CLIMATE FINANCE PUBLIC THIRTY-EIGHT PERCENT \$135 BILLION ANNUALLY State Wood Uther Mingelton Efforts Landscapes of Climate Pinance 2013, Climate Policy Including Landscapes of Climate Pinance 2013, Climate Policy Including

Multiple Types of Adaptation Needs



As the boundary between adaptation and sound development is blurred, so are the roles of the private sector and governments in adaptation finance.

Traditional Financing Sources Already Involve the Private Sector

- * Official development assistance globally around \$150 billion per year (proportion for climate change adaptation is uncertain, as adaptation funding is supposed to be "new and additional");
- * Multilateral Development Banks World Bank Group around \$80 billion per year (active portfolio in East Asia and the Pacific \$30 billion; natural resources management and environment \$20 billion);
- * Asian Development Bank around \$13 billion per year (From 2001-2012 a total of \$30 billion on environmental sustainability projects);
- * Private sector is already engaged as contractors, suppliers, and consultants and often as co-financiers.

Traditional Financing Sources Already Involve the Private Sector

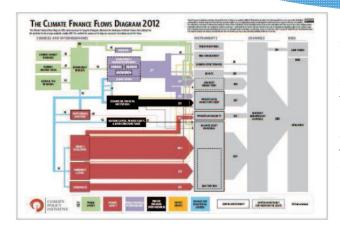
- * The same goes for other traditional sources of finance:
- * Food and Agriculture Organisation \$500 million
- * International Fund for Agricultural Development \$1 billion
- * United Nations Development Programme \$5.7 billion
- * United Nations Environment Programme \$217 million
- * World Health Organization \$2 billion
- * United Nations Office of Sustainable Development
- * United Nations Framework Convention on Climate Change
- * Etc.

Plus – Multiple sources of bilateral finance and their specific reporting and accounting requirements

New Sources of Finance



Climate Funds are coming from Multiple Sources



Let's just say it is complicated! But the private sector is not tracked by CPI as providing any adaptation finance – is this a mistaken view?

Main Sources of Dedicated Adaptation Finance in Asia-Pacific

Funds managed by national governments

- * Global Climate Change Alliance (GCCA) European Union
- * Nordic Development Fund (NDF)
- * Nordic Climate Facility (NCF)
- * International Climate Initiative (ICI) Germany
- * Japan's Fast Start Finance (FSF)
- International Climate Fund (ICF) United Kingdom
- * International Climate Change Adaptation Initiative (ICCAI) Australia
- * Etc.

Funds managed by multilateral institutions

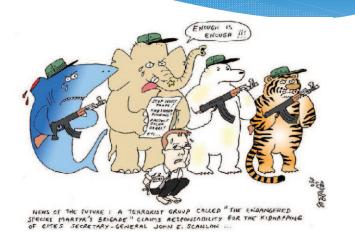
- Adaptation Fund (AF)
- Least Developed Countries Fund (LDCF) (GEF)
- Special Climate Change Fund (SCCF) (GEF)
- Pilot Program for Climate Resilience (PPCR) – 5 MDBs

Green Climate Fund: A Game Changer for the Private Sector?

- * The Green Climate Fund (GCF) was adopted as a financial mechanism of the UN Framework Convention on Climate Change (UNFCCC) at the end of 2011.
- * It aims to make an ambitious contribution to attaining the mitigation and adaptation goals of the international community.
- Over time it is expected to become the main multilateral financing mechanism to support climate action in developing countries.
- * It will have a Private Sector window, but no details yet.

- Raising \$15 billion by end
- Half for climate change adaptation
- Half of adaptation funds for Africa, LDCs and SIDs.
- Direct access through National Implementing Entity (NIE) accreditation and a Designated National Authority (DNA)
- How will the private sector be engaged?

What Additional Motivation is needed for the Private Sector?



Private Sector Funds for Adaptation?

Green Transition Scorecard - \$5.3 trillion since 2007 Green Bonds (about \$50 billion)

- * Climate Bonds Initiative is mobilizing the \$80 trillion bond market for climate change solutions can it turn to adaptation?
- Global Environment Fund (GEF) global alternative asset manager with approximately \$1 billion in assets under management, investing in energy, environmental, and natural resources sectors - needs good adaptation investments;

Corporate social responsibility of companies (ISO 26000) - \$484 billion in water sector alone since 2007;

Divestment in the \$674 billion/yr investment in fossil fuels – so far about \$50 billion (can adaptation be included);

Pension funds - \$32 trillion (2013) (remind your fund about CC); Insurance and re-insurance companies - \$4.6 trillion (2011)

Innovative Uses of Adaptation Financing?

Can governments and others create the enabling environment for private sector investment in:

Reducing Emissions from Deforestation and Forest Degradation (REDD+) (with adaptation co-benefits) – Palm oil and forest companies

- Payment for Ecosystem Services (PES)
 Water supply companies, tourism, hotels, private parks
- Debt for Nature (or Climate) Swaps –
 Commercial banks and bond markets
- Climate Change Trust Funds



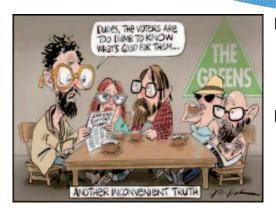
Where to from here?

How Can Governments Mobilise Private Sector Interest in Adaptation?

- Tax penalties and concessions;
- Green procurement;
- Public-private partnerships in adaptation projects;
- Insurance of public assets against climate change damage;
- Issuance of climate change bonds;
- Creation of a climate change "index" in the stock exchange; and
- Subsidies for investment in adaptation measures.



Final Words



- Governments and the private sector need to work more closely together for adaptation.
- ☐ Ultimately you and I are also the private sector and equally responsible for investing in climate change adaptation.



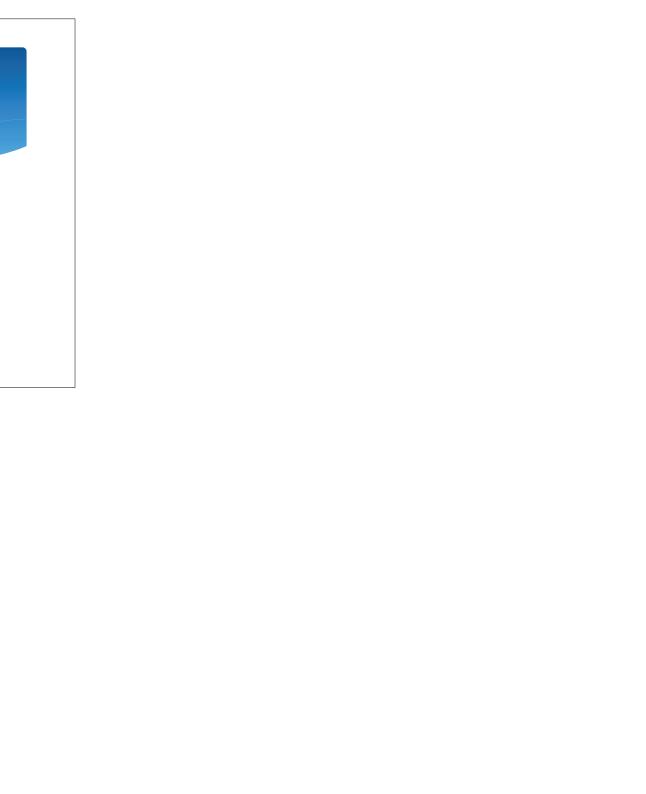
Thank you

http://www.economist.com/news/briefing/21618680-our-guide-actions-have-done-most-slow-global-warming-deepest-cuts

	Cumulative emissions	Period	Annual emissions*	
Montreal protocol ¹	135.0bn	1989-2013	5.6bn	
Hydropower worldwide ²	2.9bn	2010	2.8bn	6
Nuclear power worldwide ²	2.2bn	2010	2.2bn	
China one-child policy ³	1.3bn	2005	1.3bn	
Other renewables worldwide ²	600m	2010	600m	
US vehicle emissions & fuel economy standards !*	6.0bn	2012-25	460m	
Brazil forest preservation	3.2bn	2005-13	400m	
India land-use change ⁶	177m	2007	177m	
Clean Development Mechanism	7 1.5bn	2004-14	150m	
US building 8 appliances endes	6 3.0bn	2008-30	136m	
China SOE officiency targets*	1.9bn	2005-20	126m	
Collapse of USSR ⁹	709m	1992-98	118m	
Global Environment Facility ²⁰	2.3bn	1991-2014	100m	
EU energy efficiency ¹¹	230m	2008 12	58m	
US vehicle emissions & fuel economy standards‡4	270m	2014-18	54m	CATEGORIES:
EU renewables11	117m	2008-12	29m	Energy production
US building codes (2013) ¹²	230m	2014-30	10m	Transport Other regulations
US appliances (2013) 12	158m	2014-30	10m	Global treaties
Clean technology fund 13	1.7bn	project lifetime	no	Land & forests
EU vehicle emission standards	14 140m	2020	na	Other

See following panel for

*Annual entirel ris are comulative entirelors divided by the relevant period. The extinate for the current entirelors avoided under the Montrout protocol is eight fallian formes of Cop. The annual figure for the collapse of the USSR refers to the years 2002-98. "Can and light tracks "Newy tracks





BUILDING READINESS FOR CLIMATE FINANCE:

into Sectoral Planning and Budgeting
in Thailand

Pawin Talerngsr Inclusive Green Growth and Sustainable Developmen UNDP Thailand

Background

The concept of 'climate finance' has gained interest following commitments from developed countries and international agencies to provide new and additional funding for actions on climate change....

Background

BUT....

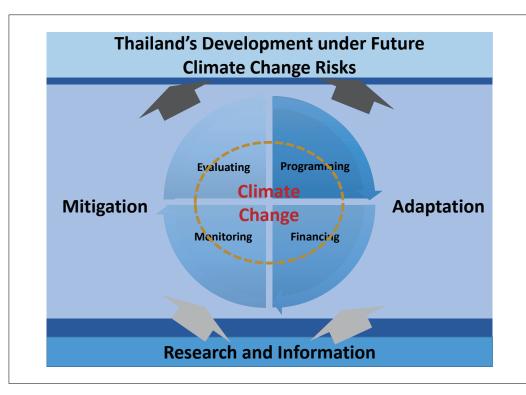
More important issue is "How the recipient countries build 'READINESS' to plan for, access, deliver, and monitor climate finance?"

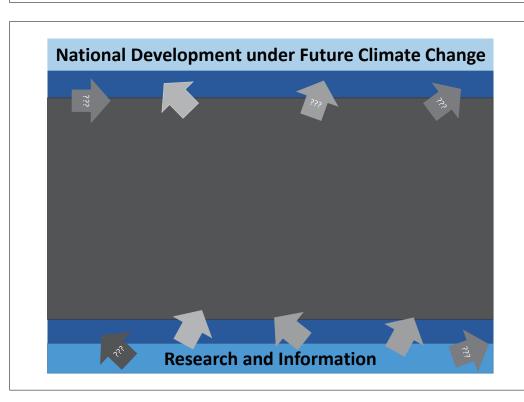
Background

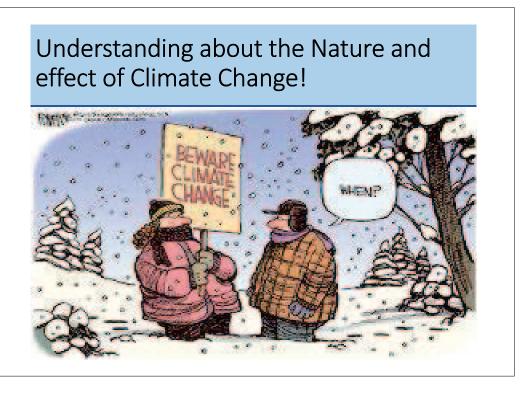
Getting more money for climate change related investments is essential....

But more essentially is "How the money spent IMPACT climate change!!!"

Project: Strengthening Thailand's Capacity to Link Climate Policy and Public Finance Climate Change, not treated as a separated policy agenda, BUT mainstreamed into policy review, planning, and budgeting processes Aim is to strengthen efficiency and effectiveness of Climate Change related expenditure, based on the existing national system

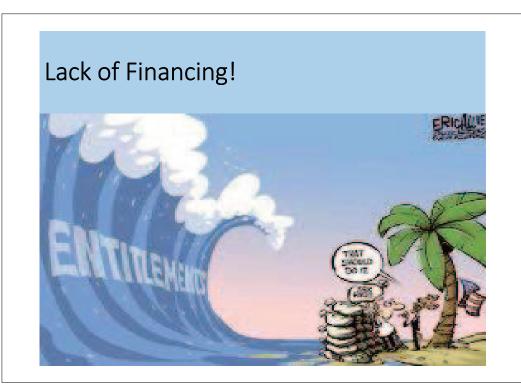






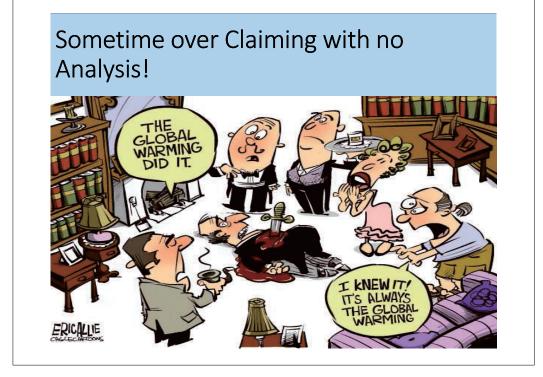
Imperfection and Uncertainty of Climate Change Modeling!

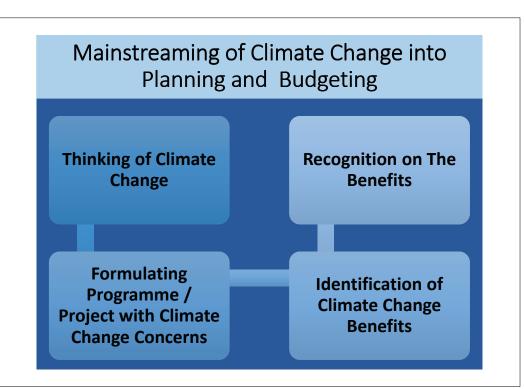


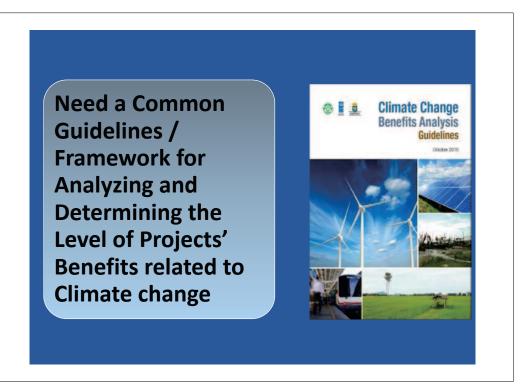


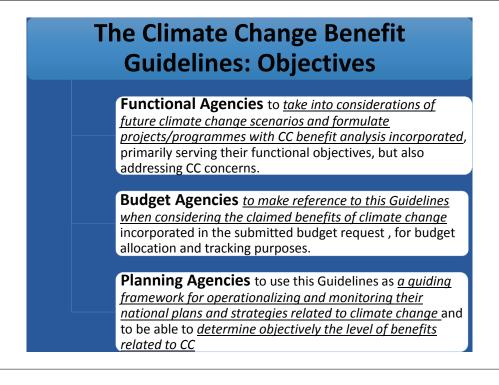
CC Considered as Secondary Issue!

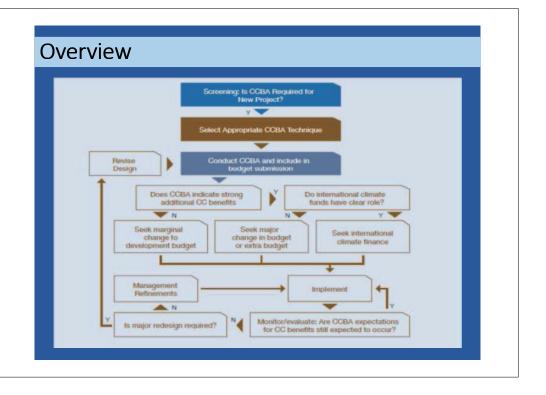


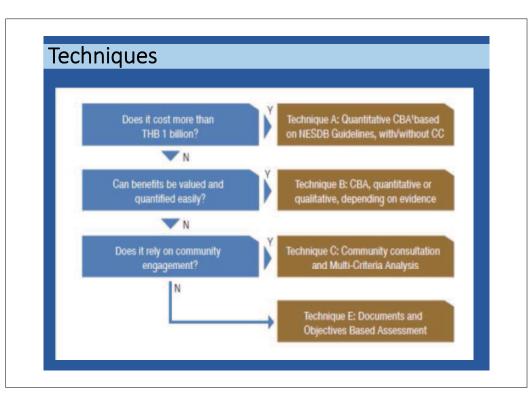




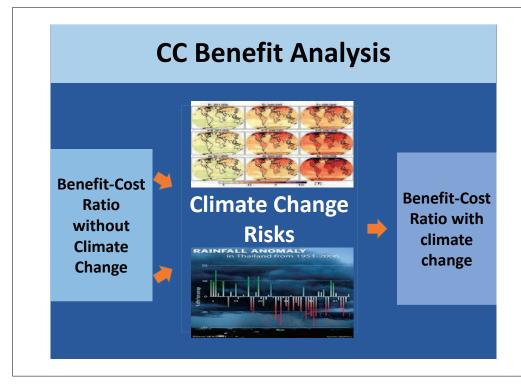




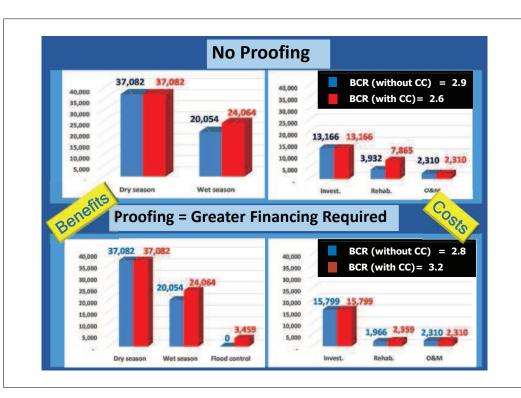


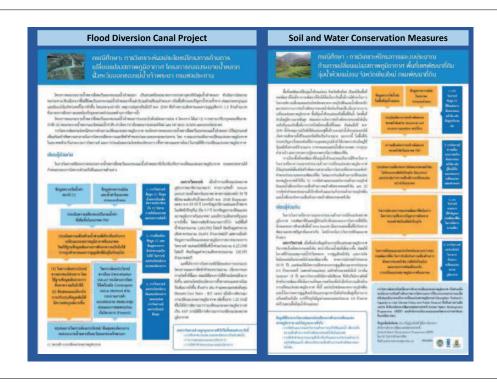


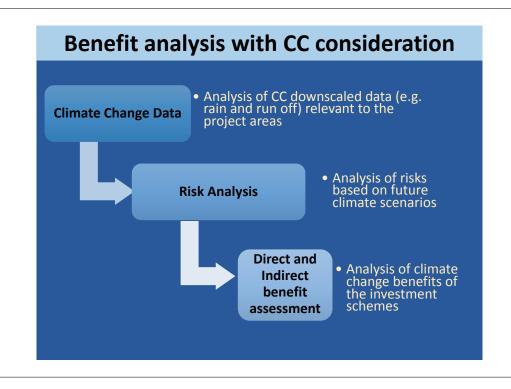
Pilot Analysis: Agricultural Sector

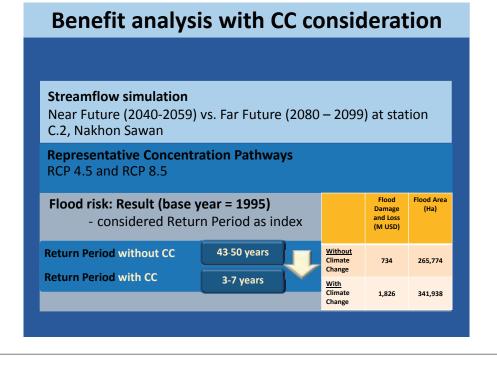


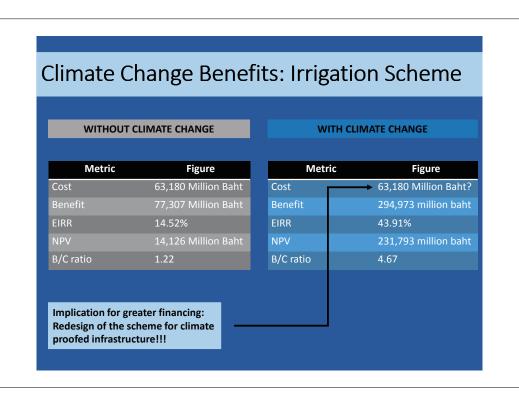
Project	BCR Without CC	BCR With CC	CC%
Irrigation	2.8	3.2	10%
Integrated Pest Management	4.8	6.2	22%
Shrimp	1.7	2.2	21%
Biogas from pig waste	1.5	2.0	23%
Vetiver Grass	2.2	2.7	20%

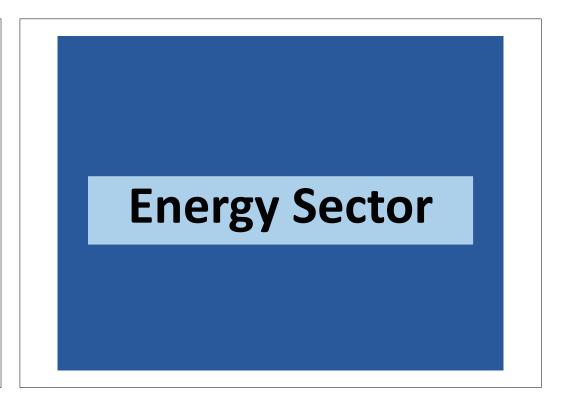


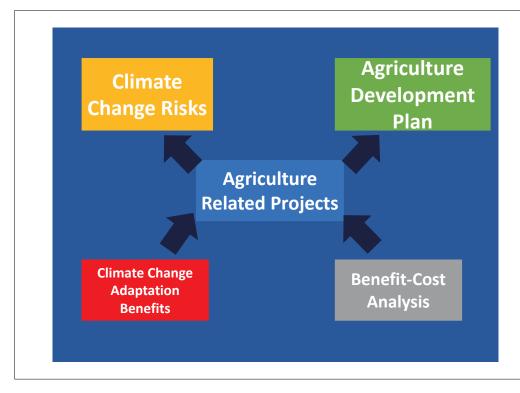


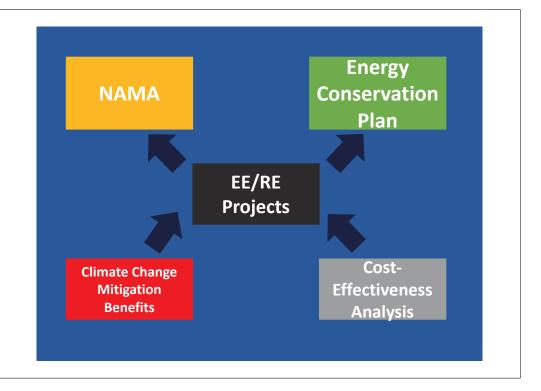


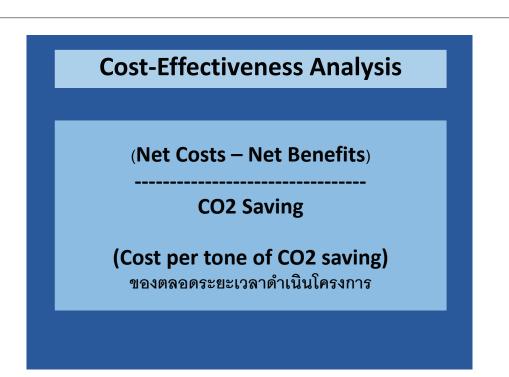












Marginal Abatement Costs = MAC
Indicator for Cost-Effectiveness!!



COSTS = Investment, Operation, Opportunity Costs BENEFITS = Firewood Replacement, Digestible, Clean Water, Reduced pollution, Reduced GHG from avoided emission of Methane

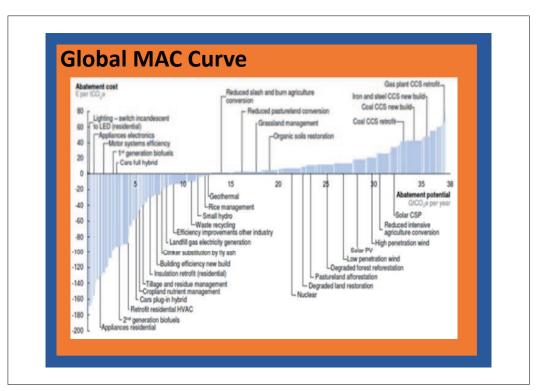
COSTS = Investment, Maintenance Costs

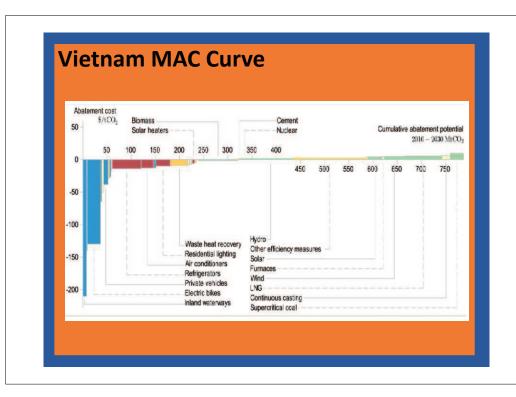
BIO GAS PROJECT

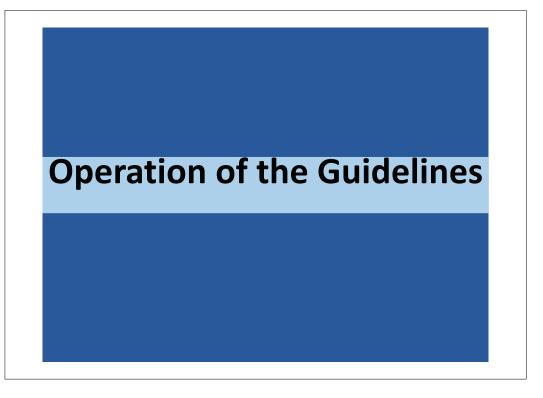
CNG

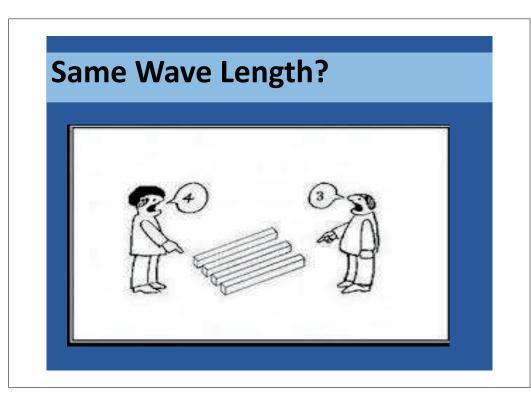
BENEFITS = Reduced Fuel Costs, Reduced pollution, Reduced GHG

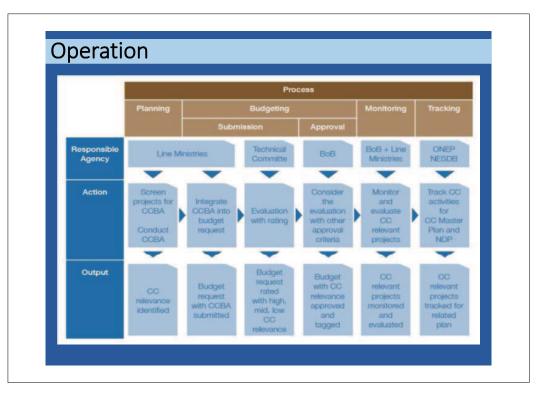
Estimated Results BIO GAS CNG Net Cost (20 year) (NPV-Baht) 18,079,000 771,000,000 Net Benefit (20 year)(NPV-baht) (including wider econ benefit, but excluding carbon) (only firewood, not electricity) 18,273,000 1,625,000,000 (tCO₂e/20 year) 1,837,000 15,000 MAC (baht/tCO2e) -3.2 -55,223

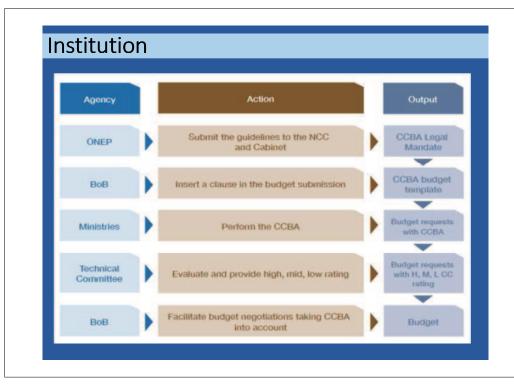


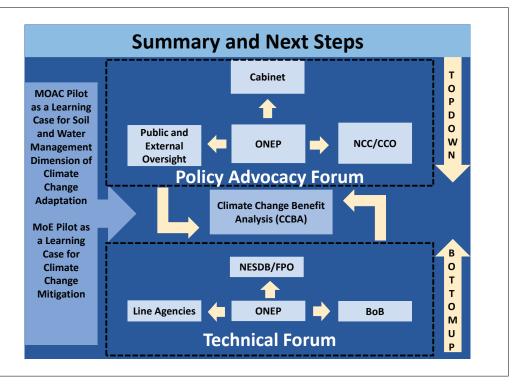














Role of CITC

Strong Need for Strengthening Institutional Capacity, both at the sectoral and policy levels, for CCBA!!!

Climate Finance Capacity Development Introducing a new CITC course on Climate Finance

CITC Regional Workshop for Capacity Development on Climate Finance in SE Asian Countries Pullman King Power Hotel, Bangkok, Thailand 28th October 2015



Global Environmental Strategies



Contents of Presentation

- 1. Background
- 2. Capacity Needs for Climate Finance
- 3. Target Audience of Training Course
- 4. Course Objectives
- 5. Course Structure and Length
- 6. Course Modules and Contents
- 7. Consideration of 1 day or 2 day agenda

2

Background

Climate finance offers countries, and particularly developing countries, with a financing mechanism to pursue low-carbon development and infrastructure options.

Development projects and activities supported by climate finance have the overarching goal to support countries in their efforts to respond to both climate change mitigation and adaptation needs.

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Climate Finance Challenges

- Some experts comment on the lack of necessary climate finance funds globally, i.e. a projected USD 400 billion per year additional investment will be required by 2030 to stay below 2°C.
- However, other experts comment that the key barrier to climate financing is a lack of "investable projects".
- Furthermore, investable projects require the support of institutional infrastructures to ensure the suitability, accountability and appropriate implementation of these projects.

4

Capacity Needs for CF

In order to strengthen the capacity of national governments and project managers to deliver "investable projects" relevant under the available climate finance programmes, significant training is needed to better understand:

- ✓ The shifting investment patterns of climate finance, as well as the
 possibilities to scale up projects and activities under climate
 financing.
- ✓ The efficient levers to mobilize private investment and its potential in any country.
- ✓ The numerous difficulties in accessing, utilising and reporting on use
 of climate finance that exist due to lack of clarity and skills on these
 issues.

Accessing, Managing, Delivering, Monitoring & Evaluating
Climate Finance Projects at international, regional, national and local levels.

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Target Audience

This course targets those persons who are responsible for supporting, planning, managing and implementing climate mitigation and adaptation related projects, and who require further understanding of the current mechanisms and procedures for Climate Financing.

Specifically:

- ✓ **National government officers** (from Southeast Asia) who are in charge of mitigation related activities, development planning, and infrastructure development/investment.
- ✓ Project managers and implementers from both private and public sectors (including project developers, development finance consultants and managers, plant operators and manufacturers, advisory professionals, etc.).

t

Course Objective

This course aims to provide a general understanding of the current nature and variety of climate financing opportunities and the types of climate mitigation and adaptation projects that they can support.

Participants in this course should gain specific knowledge on how to apply for, access, utilise and provide accountability for the use of climate financing.

- ✓ Government officers should gain the capacities to build supportive institutions and infrastructure for use of climate finance and to mobilize multi-stakeholder involvement in relevant projects.
- ✓ **Project developers** should gain the capacities to effectively access, utilise and report on the use of climate finance funds.

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Course Structure and Length

- Structure: 5 thematic modules covering
 1) Science and Policy, 2) CF Mechanisms,
 3) CF project/cases, 4) Accessing and
 - 3) CF project/cases, 4) Accessing and Managing CF Projects, and 5) Establishing a Supportive Infrastructure for CF
- Length: To be discussed here
 - -1 day = 6.5 hours class time OR
 - -2 day = 13.5 hours class time

7

Course Modules - Outline

- Introduction
- i. Climate Change Science and Policy
- ii. Climate Finance Policy and Mechanisms
- iii. Case Studies of Climate Finance Projects
- iv. Accessing Climate Financing and Managing Projects
- v. Developing Supportive Infrastructures for Climate Finance
- Closing

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Course Introduction

- ✓ Participant Arrival and Registration
- ✓ Course Background, Overview and Objectives
- ✓ Self-Introductions of Participants

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10

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Module 1: CC Science and Policy

- ✓ Climate Change science and the 2°C Target
- ✓ Climate Negotiations and Key Findings from IPCC AR5 WGIII
- ✓ Climate Finance negotiations under the UNFCCC process
- ✓ Introducing the Energy Economy
- ✓ Introducing Mitigation Investments
- ✓ Mitigation Investments and their impact on the Energy Economy

Module 2: Climate Finance – Policy and Mechanisms

- ✓ Climate Finance negotiations under the UNFCCC process
- ✓ Climate Finance mechanisms and Institutional Landscape (international, multi-lateral, bi-lateral, private)
- ✓ Typologies of Climate Finance:
 - Mitigation Finance and CDM
 - Adaptation Finance
 - o REDD+ Finance
 - o Results-based Finance
 - o Project Types eligible for use of Climate Finance
- ✓ Climate Finance trends in Asia

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Module 3: Case Studies of Climate Finance Projects

- ✓ A set of Case Studies will be prepared as part of the learning materials/course book.
- ✓ Exploring several Climate Finance projects related to the different typologies of climate finance, i.e. mitigation and CDM, adaptation, REDD+, results-based, etc.
- ✓ Highlights from these cases will be presented and discussed
- ✓ Group activity examining cases

Module 4:

Accessing Climate Financing and Managing Projects

- ✓ Effective Project Development and Management
- ✓ Application processes and project criteria/requirements
- ✓ Working with national climate finance focal points
- ✓ Domestic management of Climate Finance
- ✓ Monitoring and Evaluation, Reporting Criteria and MRV

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Module 5:

Developing Supportive Infrastructures for Climate Finance

- ✓ Assessing domestic needs and priorities for climate finance
- ✓ Policy Instruments for Financing Climate Activities
- ✓ Public development of supportive institutions & infrastructures
- ✓ Securing Multi-Stakeholder Cooperation and Expertise in projects
- ✓ Strategies for enhanced delivery of international support
- Cooperation mechanisms and South-South
 Collaboration 15

Closing

- ✓ Participant Reflections
- ✓ Discussion on Future Actions
- ✓ Certificate Award Ceremony?

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Course Length Options

ONE DAY COURSE option

- 1 day = 6.5 hours class time
- 5 modules (primarily includes lectures)
- Each Module in 1 session:
 - Introduction = 30 mins.
 - Module 1 = 75 mins.
 - Module 2 = 75 mins.
 - Module 3 = 60 mins.
 - Module 4 = 60 mins.
 - Module 5 = 60 mins.
 - Closing = 30 mins.

TWO DAY COURSE option

- 2 day = 13.5 hours class time
- 5 modules in 8 sessions
- Modules may include lectures, practical, and/or group work:
 - Introduction = 60 mins.
 - Module 1 = 150 mins.
 - Module 2 = 120 mins.
 - Module 3 = 150 mins.
 - Module 4 = 195 mins.
 - Module 5 = 90 mins.
 - Closing = 45 mins.

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Thank You,

For your kind attention!



Contact:
Dr. Robert J. Didham

Email: didham@iges.or.jp

Website: www.iges.or.jp

Institute for Global Environmental Strategies 2108-11 Kamiyamaguchi, Hayama, Kanagawa 240-0115, JAPAN

Institute for Global Environmental Strategies

TGO-CITC ◆ Climate Finance Training

Course Outline

Background:

Climate finance offers countries, and particularly developing countries, with a financing mechanism to pursue low-carbon development and infrastructure options. Development projects and activities supported by climate finance also have the overarching goal to support countries in their efforts to respond to both climate change mitigation and adaptation needs.

Some experts comment on the lack of necessary climate finance funds globally, i.e. a projected USD 400 billion per year additional investment will be required by 2030 to stay below 2°C. However, other experts also comment that the key barrier to climate financing is a lack of "investable projects" and the institutional infrastructures to ensure the suitability, accountability and appropriate implementation of these projects.

In order to strengthen the capacity of national governments and project managers to deliver "investable projects" relevant under the available climate finance programmes, significant training is needed to better understand:

- The shifting investment patterns of climate finance, as well as the possibilities to scale up projects and activities under climate financing.
- ✓ The efficient levers to mobilize private investment and its potential in any country.
- The numerous difficulties in accessing, utilising and reporting on use of climate finance exist due to lack of clarity and skills on these issues.

Target Audience:

This course targets those persons who are responsible for supporting, planning, managing and implementing climate mitigation and adaptation related projects, and who require further understanding of the current mechanisms and procedures for Climate Financing.

- National government officers (from ASEAN countries) who mitigation related activities, development planning, and infrastructure development/investment.
- Project managers and implementers from both private and public sectors (including project developers, development finance consultants and managers, plant operators and manufacturers, advisory professionals, etc.).

Course Objectives:

This course aims to provide a general understanding of the current nature and variety of climate financing opportunities and the types of climate mitigation and adaptation projects that they can support. Participants in this course should gain specific knowledge on how to apply for, access, utilise and provide accountability for the use of climate financing.

- ✓ Government officers should gain the capacities to build supportive institutions and
 infrastructure for use of climate finance and to mobilize multi-stakeholder involvement in
 relevant projects.
- Project developers should gain the capacities to effectively access, utilise and report on the
 use of climate finance funds.

Course Length and Structure:

1 day / 6.5 hours class time / 5 modules (primarily includes lectures)

OR

2 day / 13.5 hours class time / 5 modules in 8 sessions (includes lectures, practical and group work)

Certification (on completion of course):

Xxxxxx?

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Curriculum Outline/Agenda - One Day Training Option

Module	Time Allocation	Possible Schedule	Topic and Contents
Registration		8:30-9:00	Participant Arrival and Registration
Introduction	30 minutes	9:00-9:30	Course Background and Overview Self-Introductions
1	75 minutes	9:30-10:45	- Climate Change Science and Policy - Climate Change science and the 2°C Target - Climate Negotiations and Key Findings from IPCC AR5 WGIII - Mitigation Investments and the Energy Economy
break	30 minutes	10:45-11:15	Coffee Break
2	75 minutes	11:15-12:30	Climate Finance – Policy and Mechanisms - Climate Finance negotiations under the UNFCCC process - Climate Finance mechanisms and Institutional Landscape (international, multi-lateral, bi-lateral, private) - Typologies of Climate Finance: O Mitigation Finance and CDM O Adaptation Finance O REDD+ Finance O Results Finance O Project Types eligible for use of Climate Finance - Climate Finance trends in Asia
lunch	90 minutes	12:30-14:00	Lunch
3	60 minutes	14:00-15:00	- Exploring several Climate Finance projects - Exploring several Climate Finance projects related to the different typologies of climate finance, i.e. mitigation and CDM, adaptation, REDD+, results-based, etc.
4	60 minutes	15:00-16:00	Accessing Climate Financing and Managing Projects - Effective Project Development and Management - Application processes and project criteria/requirements - Working with national climate finance focal points - Domestic management of Climate Finance - Monitoring and Evaluation, Reporting Criteria and MRV
break	30 minutes	16:00-16:30	Coffee Break
5	60 minutes	16:30-17:30	Developing Supportive Infrastructures for Climate Finance
Closing	30 minutes	17:30-18:00	- Participant Reflections - Award Ceremony

Curriculum Outline/Agenda - Two Day Training Option

DAY ONE – Climate Finance Training					
Session	Time Allocation	Possible Schedule	Topic and Contents		
Registration		8:00 - 8:30	Participant Arrival and Registration		
Introduction	60 minutes	8:30 – 9:30	 Course Background, Overview and Objectives Self-Introductions of Participants 		
1 [module 1]	90 minutes	9:30 – 11:00	- Climate Change Science and Policy - Climate Change science and the 2°C Target - Climate Negotiations and Key Findings from IPCC AR5 WGIII - Climate Finance negotiations under the UNFCCC process		
break	30 minutes	11:00 -11:30	Coffee Break		
2 [module 1]	60 minutes	11:30 – 12:30	The Role of Climate Finance in the Energy Economy - Introducing the Energy Economy - Introducing mitigation investments - Mitigation Investments and the Energy Economy		
lunch	90 minutes	12:30 -14:00	Lunch		
3 [module 2]	120 minutes	14:00 -16:00	Climate Finance Mechanisms - Climate Finance mechanisms and Institutional Landscape (international, multi-lateral, bi-lateral, private) - Typologies of Climate Finance:		
break	30 minutes	16:00 -16:30	Coffee Break		
4 [module 3]	60 minutes	16:30 – 17:30	Case Studies of Climate Finance Projects – Presentations - Exploring several Climate Finance projects related to the different typologies of climate finance, i.e. mitigation and CDM, adaptation, REDD+, results-based, etc. - Introduction of Case Studies and Group Work		

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DAY Two – Climate Finance Training						
Session	Session	Session	Session			
5 [module 3]	90 minutes	8:30 – 10:00	Case Studies of Climate Finance Projects – Group Activity * with morning coffee			
6 [module 4]	60 minutes	10:00 - 11:00	Accessing Climate Financing - Effective Project Development and Management - Application processes and project criteria/requirements			
break	30 minutes	11:00 – 11:30	Coffee Break			
8 [module 4]	60 minutes	11:30 – 12:30	Managing Climate Finance Projects Working with national climate finance focal points Domestic management of Climate Finance Monitoring and Evaluation, Reporting Criteria and MRV			
lunch	90 minutes	12:30 -14:00	Lunch			
7 [module 4]	75 minutes	14:00 -15:15	Practical on Accessing and Managing Climate Financing			
break	30 minutes	15:15 – 15:45	Coffee Break			
8 [module 5]	90 minutes	15:45 – 17:15	Developing Supportive Infrastructures for Climate Finance			
Closing	45 minutes	17:15 – 18:00	- Participant Reflections - Award Ceremony			