

Climate Mitigation Financing Indonesia's NDC

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Marrakech, 11 November 2016

Financing Indonesia's Climate Mitigation

CLIMATE CHANGE IN INDONESIA'S DEVELOPMENT CONTEXT



Indonesia's Development Challenges

- □ Indonesia's GHG emission is predicted to increase from 2.1 to 3.3 GtCO₂e between 2005 and 2030 (SNC, 2010)
- □ Indonesia is vulnerable to changing climate. Potential economic loss due to climate change and climate disaster in 2100 is predicted 7% from GDP (WB,2010, ADB,2010)
- □ Indonesia is Mega-biodiversity country.
 Biodiversity is development capital, but
 the full potential is undervalued and it is
 decreasing (MoEF, 2014)

Jeopardizi ng Sustainabl e Developm ent

Indonesia's Commitment in Climate Change Mitigation



Reducing 29% to 41% of GHG Emissions from Business As Usual in year 2030 (Annex to Law No. 16/2016 on Ratification of Paris Agreement)

	Emis	Reduction					
	million tC0	as % of BAU					
Mitigation Sector	BAU total	Target Reduction					
Forestry and peatland	1344	672	50.0%				
Energy and transport	1000	38	3.8%				
	221	40	18.0%				
Agriculture	134	2	1.8%				
Industry Waste water	250	15	5.9%				
Total emission reductions	2950	767	26.0%				

Financing Indonesia's Climate Mitigation



Climate Mitigation Financing Requirement is Large Recent Estimate of NDC is US\$ 68 Billion for 2016-2020

No.	Sources	Mitigation Needs (in USD)	Annual Mitigation Needs (in USD)
1	Mid-Term Development Plan, 2010	3.7 bn (2010-2014)	925 million
2	Second National Communication, 2009	8.3 bn (26%); 16.8 bn (41%)	0.83 bn -1.68 bn
3	NEEDS/ DNPI – McKinsey Cost Curve, 2009	385.2 bn (2010-2030)	19.26 bn
4	Bappenas, 2011	28.07 bn (RAN-GRK 2010-2020)	2.8 bn
5	CPEIR, 2012	70.5 bn (RAN-GRK until 2020)	7.05 bn

INCLUSION OF BUDGET EFFECTIVENESS FOR WIDER CLIMATE FINANCE



BUDGET TAGGING:

Tracking climate change-related direct and indirect activities



Prioritization of climate activity based on cost-effectiveness including poverty and gender benefits.

Monitoring effectiveness & efficiency of expenditure.

GREEN PLANNING & BUDGETING

Issuance of fiscal policies, and mechanisms for financing prioritized and effective climate change activities.

Priorities:

- Forestry, Peat-land & Marine Resources protection
- Agriculture and Irrigation system rehabilitation
- Energy and Industry
- Public Transport, Urban & Regional Infrastructure
- Education and Health
- Disaster Management



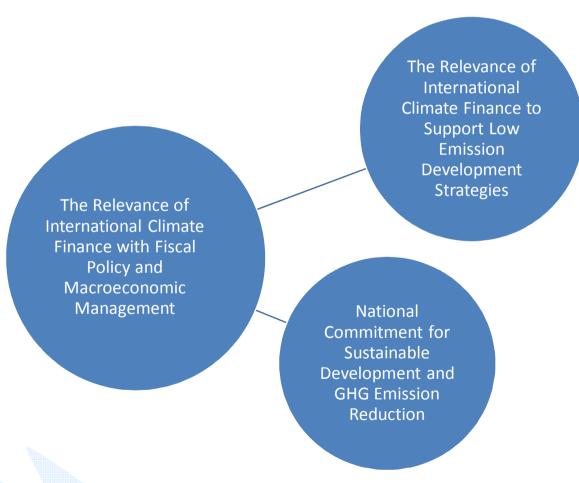


Budgetary Policy Measures for Climate Finance Mobilization

	Instrumen Kebijakan																	
Prioritas	Anggaran Pemerintah untuk Perusahaan, UKM Langsung & LSM			Le	Melal emba euang	Regulasi Pengendalian &							&					
	Anggaran Investasi	Anggaran Berulang	Alokasi Khusus (untuk Prov/Kab)	Hibah/Investasi	Subsidi Operasional	Data/Informasi	Insesntif Pajak	Insentif Suku Bunga	Jaminan Pinjaman	Dana Pinjaman	Perijinan	Pengendalian Harga (termasuk FITs)	Kuota	Kualitas Regulasi	Praktek Regulasi	Tata Kelola Regulasi	CSR	Kejelasan/Kesadaran Masyarakat
Perlindungan Sumber Daya Alam																		
Perlindungan Hutan																		
Rehabilitasi Lahan Gambut																		
Perlindungan Terumbu Karang & Sumber Daya Laut																\square		
Pertanian																ш	\square	Ш
Adaptasi Tanaham Perubahan Iklim																		\square
Tanaman Perkebunan (terutama Kelapa Sawit)																		\Box
Irigasi Pertanian				_							Ш						\square	Ш.
Energi dan Industri	-																	
Energi dan Sumber Daya Efisiensi	-															\square		
Energi Terbarukan	-																	
Efisiensi Sumber Daya	-															ш		
Harga Bahan Bakar	-															Ш	-	
Listrik Skala Besar	-																	
Pertambangan Berkelanjutan Corporate Social Responsibility	-					-												
Transportasi dan Perencanaan Kota	\vdash			\vdash				_			Н							
Transportasi Umum																		
Pengelolaan Limbah/Sampah																		
Infrastruktur Jalan/Jembatan Tahan terhadap Iklim																		\vdash
Infrastruktur Daerah																		
Pendidikan dan Kesehatan		1														М		\Box
Sekolah Hijau												\neg						
Pelayanan Kesehatan yang Sensitif terhadap Perubahan Iklim																		
Kebijakan Pendukung													\Box					\Box
Pengelolaan/Pengurangan Bencana																		
Koordinasi GE dan M&E																		
	= Kementerian Keuangan																	
	= Bappenas																	
	= Kementerian / Lembaga																	
	= Provinsi / Kota / Daerah																	
	= Sektor Swasta & Masyarakat																	



Role of Ministry of Finance in the International Climate Finance

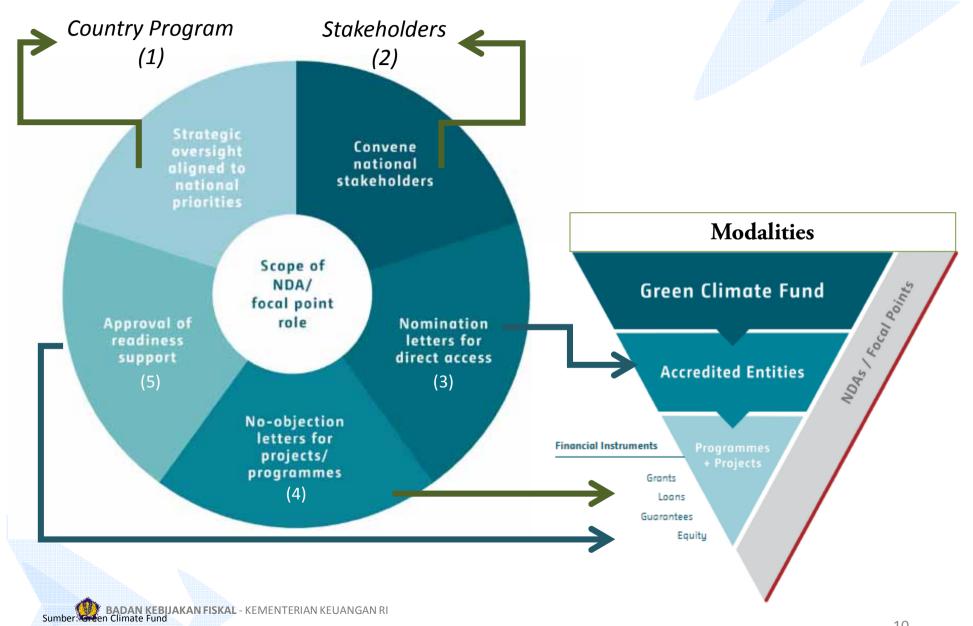


GCF In International Climate Landscape

Paris Agreement:

- "59. Decides that the **Green Climate Fund** and the **Global Environment Facility**, the entities entrusted with the operation of the Financial Mechanism of the Convention, as well as the Least Developed Countries Fund and the Special Climate Change Fund, administered by the Global Environment Facility, shall serve the Agreement" "60. *Recognizes* that the **Adaptation Fund** may serve the Agreement, subject to...";
- "54. Prior to 2025 the Conference of the Parties serving as the meeting of the Parties to the Paris Agreement shall set a new collective quantified goal from a floor of **USD 100** billion per year, taking into account the needs and priorities of developing countries;"
- "115. strongly urges developed country Parties to scale up their level of financial support, with a concrete roadmap to achieve the goal of jointly providing USD 100 billion annually by 2020 for mitigation and adaptation while significantly increasing adaptation finance from current levels and to further provide appropriate technology and capacity-building support;"

Ministry of Finance as the Indonesian NDA of GCF



Indonesian Country Concept Note 2016

Sector	Main Program / Activities								
Forestry and Peat Land	 Development of forest management unit Planning for use and improvement of forest estate use. Development of environmental service utilization The enactment of forest estate Rehabilitation and reclamation of forests and lands in priority watersheds 	 Social forestry development Forest fire control Investigation and guarding of forest Development of conservation areas, essential ecosystem& protected forest development program Improvement of plantation forest business. 							
Agriculture	 Land optimization Application of Crop Production Technologies Use of organic fertilizers and bio pesticide Estate crops area development (oil palm, rubber, cacao) in non-forest land/abandoned land/degraded land/ Other Use Areas (APL) 	 Use of animal manure/urine and agricultural waste for biogas Peat land management for sustainable agriculture Development of farming land management in abandoned & degraded peat lands to support plantation, livestock and horticulture sub-sectors 							
Energy and Transportation	 Energy conservation partnership program New and renewable energy supply and management Biogas utilization Use of natural gas as fuel for urban public transport 	 Use of connections to houses supplied with natural gas through pipes. Post-mining land reclamation Bio-diesel utilization 							
Industry	 Application of process & technology modification in cement industry Energy conservation and audit to form industrial management system in 8 industry sectors, namely: cement, steel, pulp and paper, glass and ceramics, fertilizers, petrochemicals, food and drinks, textile, textile products as well as basic chemicals industries. Elimination of Ozone Depleting Substances in refrigerants, chillers, and fire extinguishers 								
Waste Management	 Waste management in TPS (temporary transfer station) 3R (Reduce, Reuse, Recycle) & TPA (final disposal) Urban waste water management 								





Thank You