



## REPUBLIC OF THE PHILIPPINES

Department of Budget and Management Climate Change Commission Department of the Interior and Local Government

# JOINT MEMORANDUM CIRCULAR No. 2014-01 August 7, 2014

FOR

ALL PROVINCIAL GOVERNORS, CITY AND MUNICIPAL MAYORS, PRESIDING OFFICERS AND MEMBERS OF THE SANGGUNIANS, LOCAL DISASTER RISK REDUCTION AND MANAGEMENT COUNCILS, LOCAL FINANCE COMMITTEES,

AND ALL OTHERS CONCERNED

SUBJECT

TAGGING/TRACKING CLIMATE CHANGE EXPENDITURES IN

THE LOCAL BUDGET

#### 1.0 RATIONALE

Global climate change, a key development issue for the present and the future, has severe consequences, with the majority of human and economic impacts occurring in developing countries. The Philippines, due to its current and future exposure to climate-related risks, compounded by rapid degradation of the environment and unsustainable development practices, is highly vulnerable to existing and future climate change-related risks.

Envisioning a climate resilient Philippines, the government aims to build the adaptive capacities of women and men in their communities, increase the resilience of vulnerable sectors and natural ecosystems to climate change, and optimize mitigation opportunities towards gender-responsive and rights-based sustainable development.

Implementing climate change activities supports sustainable development goals. Adaptation measures will result to a country more resilient to climate impacts by helping achieve development objectives set by the Philippine Development Plans and the Millennium Development Goals. Small-scale sustainable and climate resilient farming and forest management proves potential in creating jobs. Similarly, climate change mitigation activities, which often call for the use of new clean technologies, will drive innovation and promote economic growth. Low-carbon measures that increase renewable energy generation and improve energy efficiency also decrease local pollution.

#### Legal Framework

The main goal of the Philippine Climate Change Act (CCA) of 2009 (Republic Act 9729) is to mainstream climate change in various phases of policy formulation, development plans, poverty reduction strategies and other development tools and techniques by all units of government. Section 14 of the Act recognizes that LGUs are at the frontline for climate change action requiring them to formulate and implement local climate change action plan (LCCAP) for their respective areas, consistent with the national, regional, and provincial frameworks on climate change.

Complementing the CCA, the Philippine Disaster Risk Reduction and Management Act of 2010 (Republic Act 10121) Section 2 (g) provides that disaster risk reduction and climate change needs be mainstreamed in development processes while Sec 12 (c) 6 requires LGUs to formulate and implement a comprehensive and integrated Local Disaster Risk Reduction Management Plan in accordance with the national, regional and provincial framework, and policies on disaster risk reduction.

The DBM issued Local Budget Memorandum No. 68 which asks LGUs to submit, together with the General Annual Budget, their respective Local Disaster Risk Reduction Management Plans (LDRRMP) and Local Climate Change Action Plans (LCCAP) and encourages LGUs to identify, tag and prioritize their respective programs, activities and projects (PAPs) for climate change and to tag and track all climate change expenditures to help ensure transparency and increase effectiveness of climate change expenditures. This JMC, which provides the referenced Guidelines to LGUs, is consistent with National Budget Memorandum 119 aimed at tagging and tracking climate change expenditures in the national budget. It complements parallel efforts by the Government to better track and account for build back better initiative following Typhoon Yolanda.

#### 2.0 PURPOSE

To identify, tag and prioritize climate change programs, activities and projects (PAPs) by all departments and offices of local government units (LGUs);

To take stock of climate change programs, activities and projects and to track and report climate change expenditures of LGUs; and

To clarify and spell out responsibilities among local government units, the Department of Budget and Management (DBM), Climate Change Commission (CCC), and Department of the Interior and Local Government (DILG) relative to the tagging of climate change expenditures in the Annual Investment Program of LGUs.

#### 3.0 DEFINITION OF TERMS

 Climate Change — a change in climate that can be identified by changes in the mean and/or variability of its properties and that persists for an extended period typically, attributed directly or indirectly to human activity that alters the composition of the global atmosphere and is in addition to natural climate variability observed over comparable time periods.<sup>1</sup>

As defined in the United National Framework Convention on Climate Change (UNFCCC)

- 2. Climate Change Adaptation adjustments in human and natural systems in response to actual or expected climate signals or their impacts, that moderate harm or exploit beneficial opportunities.
- 3. Climate Change Mitigation activities that are aimed at reducing greenhouse gas emissions (GHG), directly or indirectly, by avoiding or capturing GHG before they are emitted to the atmosphere or sequestering those already in the atmosphere by enhancing "sinks" such as forests.
- 4. Vulnerability the degree to which geo-physical, biological and socio-economic systems are susceptible to, unable to cope with the adverse impacts of climate change.
- 5. Resilience the ability of social or ecological system to absorb disturbances while retaining the same basic structure and ways of functioning and capacity for self-organization and to adapt to stress and change.
- Risk the concept combines the magnitude of the impact (a specific change in a system caused by its exposure to climate change) with the probability of its occurrence (IPCC 4<sup>th</sup> Assessment Report, Working Group II, Appendix I)
- Preparatory activities shall include but not limited to, vulnerability and impact assessment studies, climate change and variability researches, climate modeling, capacity building, policies, other related activities.
- 8. P/A/Ps refers to programs/activities/projects of the department or office as presented in the respective AIPs.

#### 4.0 GUIDELINES

In minimizing the risks associated with climate change, LGUs are encouraged to intensify efforts in the implementation of programs, activities and projects (PAPs) to improve the resilience of their localities. LGUs are encouraged to increase their budgetary allocations for basic services and facilities responsive to climate change to improve the adaptive capacity of their communities and reduce the adverse impacts of climate change, chargeable to local funds. All climate change related strategies and investments of the LGUs in the Annual Investment Program shall be identified as follows:

# 4.1.1 Adaptation responses

- 4.1.1.1 Measures that address the drivers of vulnerability. Vulnerability is the degree to which people or systems are susceptible to the adverse effects of climate change but are unable to cope with them. It depends both on the exposure to the climate hazard and the sensitivity and coping capacity of the people and systems. Vulnerability can be decreased by reduced exposure (e.g. shifting population or assets to less risky areas through zoning regulations) or by increasing coping capacity (e.g. well targeted poverty reduction, income and livelihood diversification, health programs and dissemination of climate risk information).
- 4.1.1.2 Measures that directly confront climate change impacts. These types of expenditures are those that directly address the

impacts or potential impacts of climate change variability such as infrastructures that incorporate climate change risks in its design or implemented to minimize impacts from climate change risks.

4.1.1.3 Measures that build resilience to current and future climate risks. Building resilience means increasing the capacity of the social or ecological system to reach or maintain an acceptable level of functioning or structuring while undergoing changes. Expenditures on this category shall include but not limited to reducing land degradation, reforestation programs, upgrading of existing roads to climate resilient design standards, climate resilient crop varieties or farming techniques, effective early warning systems and other investments specifically designed to respond to projected climate changes and variability.

## 4.1.2 Mitigation responses

- 4.1.2.1 Measures to reduce greenhouse gases (GHG) emissions such as but not limited to improved energy efficiency, renewable energy, reforestation/ improved forest management, and improved transport systems.
- 4.2 To tag climate change expenditures in the Annual Investment Program, the following shall be undertaken:
  - 4.2.1 Identify P/A/Ps with climate change adaptation and mitigation expenditures;
  - 4.2.2 Identify the components of the P/A/Ps that are adaptation or mitigation responses using the Climate Change Typologies (Annex A);
  - 4.2.3 Specify the amount of climate change component/s consistent with Items 4.2.1 and 4.2.2.
- 4.3 Local government units who do not have any P/A/Ps that can be tagged as climate change adaptation/mitigation can enter `No identified climate change related expenditures' under the column on CC Typology Code.

### 5.0 ROLES AND RESPONSIBILITES

- 5.1 Provinces, cities and municipalities shall:
  - 5.1.1 Ensure that climate change is integrated in the budget call issued by the Local Chief Executive;
  - 5.1.2 Identify climate change expenditures in their Annual Investment Programs (AIPs) using the Climate Change Expenditure Typologies (Annex A);
  - 5.1.3 Tag identified climate expenditures in their Annual Investment Programs using the revised AIP Form (Annex B);
  - 5.1.4 Accomplish and submit to DILG and DBM the list of tagged climate change P/A/Ps during the annual submission of budget proposals;
  - 5.1.5 Ensure the integration of climate change PAPs in the LGU budget proposals of departments during the technical budget hearings of the Local Finance Committee (LFC) and the LCE; and
  - 5.1.6 For PAPs that do not qualify under the Climate Change Typologies listed in Annex A, request CCC to create a new typology
- 5.2 Department of Budget and Management (DBM) shall:
  - 5.2.1 Include in the Local Budget Memorandum the tagging of climate change expenditures in the AIP and changes and developments in related policies;
  - 5.2.2 Provide the CC expenditure tagged AIPs of provinces and highly urbanized cities to the CCC; and
  - 5.2.3 Include the CCET and the revised AIP Form in the updating of the Budget Operations Manual for LGUs.
- 5.3 Climate Change Commission (CCC) shall:
  - 5.3.1 Assess and ensure the quality of the climate tagging of the AIP against the climate change expenditure typology listed in Annex A;
  - 5.3.2 Review and approve LGU requests for new climate typologies; and
  - 5.3.3 Consolidate and review CC tagged AIPs submitted by LGUs and monitor developments in coordination with oversight agencies and stakeholders.
- 5.4 Department of the Interior and Local Government (DILG) shall:
  - 5.4.1 Provide continuous capacity building programs for LGUs to institutionalize and sustain CCET in LGU Annual Investment Programming and budget planning processes, in partnership with DBM and CCC;

- 5.4.2 Provide the CC expenditure tagged AIPs of cities and municipalities to the CCC;
- 5.4.3 Assist CCC in monitoring compliance by LGUs; and
- 5.4.4 Provide a help desk to provide LGUs with information and support related to CCET.
- 6.0 For immediate compliance on a pilot basis for FY 2015. The CCET will be implemented by all LGUs in FY2016. Provinces, cities and municipalities are encouraged to participate in the pilot.

FLORENCIO B. ABAD

Secretary Department of Budget and Management

MARY ANN LUCILLE L. SERING

Clinate Change Commission

MANUEL A. KOZ

Department of the Interior and Local Government

DILG-OSEC OUTGOING 14-04232

Provin	nce/City/Municipality/	'Barangay:		By Pro As	_ Annual Im gram/Proje s of	ct/Activity	by Sector				÷		
			1	dule of nentation					OUNT and pesos)		AMOUNT Change (in Thouse		
AIP Reference Code (1)	Program/Project/Activity Description [2]	Implementing Office/ Department (3)	Start Date (4)	Completion Date (5)	Expected Outputs (6)	Funding Source (7)	Personal Services (PS) (8)	Maintenan ce and Other Operating Expenses (MOOE) (9)	Capital Outlay (CO) (10)	Total {11} 8+9+10	Climate Change Adaptatio n (12)	Climate Change Mitigatio n (13)	CC Typology Ccde (14)
General Services (1000)	i i	1											
Social Services (3000)			i de la companya de l						1				
Economic Services (8000)	·.												
Other	,		<u> </u>			_			1	1	1		

Prepared by:		Attested by	
Planning Officer	Budget Officer	Local Chief Executive	
Date:	Date:	Date:	

Services (9000)

### Instructions:

	Indicate the reference code for the sector/sub-sector as per UBOM in order to facilitate consolidation of
Column 1	
	requirements  Describe briefly the program/project/activity to be implemented and accomplished by the LGU (i.e. infrastructure)
Column 2	
	projects, programs or activities).
Column 3	Identify the office/department that will implement the program/project/activity.
Column 4 & 5	Specify the targeted starting and completion date.
Column 6	Describe the output or results in quantified terms.
	In particular, for PPAs that are climate tagged, specify the outputs for adaptation or mitigation (e.g. 3 kilometers of climate proofed concrete road, 200 cavans of climate change ready rice variety of seeds distributed, 10 hectares of reforested area planted).
Column 7	Indicate the funding source of the program/project/activity. Specify if:
	Local Disaster Risk Reduction and Management Fund
	Development Fund (20% of IRA)
	General Fund
	Grant/loan from outside sourcing
	Financial assistance/Aid from national government
	Financial assistance from other LGUs
Column 8, 9 & 10	Indicate the estimated amount of the program/project/activity broken down into PS, MOOE and CO.
Column 11	Add up Columns 8, 9 and 10.

Column 12	For Climate Change Adaptation (CCA) PPAs, indicate the estimated amount.  CCA PPAs are responses to actual or expected climate signals or their impacts that moderate harm or exploit
	beneficial opportunities (see JMC for guidelines and Climate Change Typologies for examples of PPAs).
	<ul> <li>The entire cost is included for PPAs, if the Project Profile explicitly includes a direct adaptation response as a primary goal/objective.</li> <li>If direct adaptation response is not a primary PPA goal/objective, only the cost of the specific components of the PPAs that match those listed in the Climate Change Expenditure Typology (Annex A) are included. For instance the primary objective of farm to market roads is to provide transportation services. Since adaptation response is not the primary objective, only the components related to the adaptation response would be included.</li> </ul>
Column 13	For Climate Change Mitigation (CCM) PAPs, indicate the estimated amount.  CCM PAPs are activities that are aimed at reducing greenhouse gas emissions (GHG), directly or indirectly, by avoiding or capturing GHG before they are emitted to the atmosphere or sequestering those already in the atmosphere by enhancing "sinks" such as forests. (see JMC for guidelines and Climate Change Typologies for examples of PAPs)  • The entire cost is included for PPAs, if the Project Profile explicitly includes a direct mitigation response as a primary PPA goal/objective.
	<ul> <li>If direct mitigation response is not a primary PPA goal/objective, only the cost of the specific components of the PPAs that match those listed in the Climate Change Expenditure Typology (Annex A) are included.</li> </ul>
Column 14	<ul> <li>Indicate the CC Typology Code of the PAP as indicated in Annex A.</li> <li>When a PPA qualifies under multiple CC typologies, use the code that accounts for the largest share of expenditures.</li> </ul>

		Strategic Prior	ty 1 ≓ Fo	od Security
es-i escoprime		- 11 - Δ	gricultur	e
Code		Development and Governance	Code	1 Policy Development and Governance
A111-01		ent ordinances that regulate	M140-01	Enact/Implement ordinances to reduce the
	commodity sh	fting and agricultural land		emissions of GHGs, or absorption of GHGs in the
	conversion*			agricultural sector
A111-03	Design and im	plernent climate change risk transfer		
		ection mechanisms for agriculture		
	and fisheries (	e.g. crop insurance)*	ì	
-	3.0	ch, Development and Extension		2 Research, Development and Extension
A1.12-04		te-resilient crop varieties and	M112-01	Develop, test, and introduce practices or
A1.12-04	animal/fishery	breeds, production systems and	11	Lechniques that reduce GHG emissions in crop
i	technologies*	<b>D</b> , CCOD, <b>P</b> , VCCOD, <b>P</b> , VC		production systems, animal husbandry systems,
A112-06		and introduce practices or techniques		forest management systems and aquaculture
		to climate change and climate		management systems
	variability in fa	rming*	M112-02	Develop, test and introduce practices or
A112-08	Research on n	ew threats to agriculture, fishing, and		techniques to sequester CO2 in agriculture,
	,	climate change and climate	- 44 40 05	fishing and forestry
	variability	<u> </u>	M140-05	Sector studies, surveys, assessments on energy and water use efficiency in agriculture
A112-10		istribute climate resilient rice		and water use entitledby in agriculture
	varieties	anic farming methods/advocacy &		
A112-12	introduce orgi	bio-organic fertilizer such as bio-N		
	and vermicast			
A11Z-13		romote soil and cultural practices		
7,110 10		oil carbon storage		
	3 Knowledge	haring and Capacity Building	<u></u>	3 Knowledge Sharing and Capacity Building
A112-11		sing of risks from climate change risks	M140-04	Establish or strengthen institutions, information
	or/and benef	ts of adaptation*		systems and capacity building on energy and water use efficiency in agriculture sector
A113-01	Establish clim	te information systems and database	ļ	Water use emiciency in agriculture sector
	for agriculture	and fisherles sectors* spurce network on climate change	}	
Λ113-04	agriculture*	Sparce decourt ou currace change		1
A113-06	Popularize fai	mers' field school/climate field	ļ	
7110-00	schools to de	monstrate best adaptation practices*		
A113-07	Conduct of no	n-farm entrepreneurial courses		1
A114-03	Conduct Slop	e Agriculture Land Technology (SALT)	ļ.	
	training for fa		1	
A113-08	Improve the	Haptive capacity of farmers and		
	fisherfolk thre	ough the provision of relevant		
	technologies	and information 4 Service Delivery	4	4 Service Delivery
A112-05	Ectablish earl	warning systems for agriculture*	M115-01	Integrated organic and inorganic nutrient
A115-02	Introduce or	expand soil management practices		management
ATIS-VE	that control s	oil erosion, nutrient loss and improve	M115-	Switch to soil management techniques that
	the water res	ime in the soil profile (e.g. contour	02M115-	reduce GHG emissions or increase carbon
	farming)	,	03	sequestration
A115-03	Introduce or	expand use of crops or crop mix more		Lucy 16 down available using
	suited to clim	ate change and climate variability		Intensify or expand farm production using techniques that reduce GHG emissions or
A115-04	Reduce vulne	ability of crop storage facilities and	M122-01 M122-03	Increase carbon sequestration
,		tems to climate change and climate	W1122-05	Increase sequestration capacity and reduce
A115 05	variability*	s water Intensive crops		release of GHG in fodder production and
A115-05 A122-01	Change man	gement practices or techniques to	M122-04	management
A122-01	reduce vulne	rability to climate change and climate	ĺ	Manure management and methane capture in
ļ	variability in	animai health service, pasture	M260-01	animal husbandry
-	managemen	t, fodder production and storage	1	Change forage systems to reduce ruminant
}	practices	i i	M260-02	methane emissions Introduce or expand water pumping for irrigatio
A260-04	Construct w	eter impounding dams, rainwater		using renewable energy sources
1	harvesting fa	ocilities for irrigation, and water storage	M114-01	Replace existing water pumps with more energy
	systems to n	nanage changes in the water cycle due	MITTA-OT	efficient pumps
	to climate cl	nange and climate variability ovative financing mechanisms to	M114-02	Establish of communal school gardens, and other
A111-05	provide see	ovative financing mechanisms to a capital for the implementation of CCA	(	community gardens for local consumption
	among farm	ers and fisherfolks organization*		Promote and distribute seeds to households for
A260-01	Repair and r	eĥabilitate communal irrigation		backyard gardens
	systems (w/	Cic (ens)*		
A330-02	I Implement a	gricultural and fisheries waste	l	- Activities under the NCCAP

# Annex A: Climate Change Typologies (LGUs) 1-FS / 2-WS / 3-EES / 4-HS / 5-CSIS / 6-SE / 7-KCD / 8-Finance /9-Cross Cutting

	recycling and o		,	
A114-01	Construct crop	storage facilities that consider	1	
		e and variability		
<b>A114-02</b>	Promote Agro	forestry such as cacao/coffee/rubber		
	production an	d seedling distribution		
A114-03	Establish Integ	rated Posts Management	1	
A114-04	Establish farm	ers' field school/climate field schools		
		1. The state of th	stock#3/	2 per contribution of the special state of the spec
Çode	2 Research, Do	velopment and Extension	Code	2 Research, Development and Extension
A121-01	Conduct of stu	dies and simulation models on the		
	impacts of clin	hate change on major livestock based		
	on the VA and	climate change scenarios*		
A121-02	Develop clima	te resilient livestock production	•	
	system and te	chnologies		
	4 Service Deliv	ery		4 Service Delivery
A122-01	Change manag	ement practices or techniques to	M122-01	Increase sequestration capacity in fodder
	reduce vulner	ability to CC&CV in animal health	1	production and management
	service, pastu	e management, fodder production	M122-02	Reduce release of GHGs in fodder production and
	and storage pr	<b>.</b>		management
			M122-03	Manure management and methane capture in
	Ì		1	animal husbandry
			M122-0 4	Change forage systems to reduce ruminant
			ļ	methane emissions
	<b>.</b>		M140-02	Development and implementation of sustainable
				land and water management that address land
			ļ	degradation and agro ecological conditions

	57/700-7	heries :	
Code	L Policy and Governance	Code	1 Policy and Governance
A131-01	Formulate/Implement ordinances on protection of	M140-01	Introduce ordinances to reduce the emissions of
	mangroves and reversion of abandoned fishponds		GHGs, or absorption of GHGs in the fishery sector
	back to mangroves*	M122-05.	Develop ordinances to reduce municipal fishing
A131-03	Harmonize climate change adaptation plans in		boats/improve fuel efficiency of municipal fishing
	Jocal resource management and local fisheries		boats
	development		<u></u>
	2 Research, Development and Extension	<u> </u>	<u></u>
A132-01	Conduct vulnerability and risk assessments for	1	
	fisheries*		İ
A132-02	Conduct researches on best practices in fisherles	i ·	<u> </u>
	and coastal climate change adaptation,		į l
	technologies and tools*	ļ	· .
A132-03	Develop and/pr update climate change R&D		!
	agenda for fisheries sectors*		
A132-04	Establish early warning systems for fisheries*	ļ.,	
A132-05	Conduct policy study on allmate change risk.	Ì	,
	transfer and social protection mechanisms for		
	agriculture and fisheries*		
A122-02	Promote fish farming and aquaculture practices or		
	techniques to reduce vulnerability to CC&CV (i.e.		
'	due to changes in water quality or variation in		
L	fishing season).	<b>↓</b>	<del>                                     </del>
	3 Knowledge Sharing and Capacity Building	_	<u> </u>
A133-01	Establish a resource network on climate change		•
	and fisheries		
<b>∧133-</b> 03	Establish climate information systems and		
	database for lisheries sector*	1	
A122-02	Change fish farming and aquaculture practices or		
Į.	techniques to reduce vulnerability to CC&CV	1	<u></u>

	Strategic Priori	y-2 Wat	er Sufficiency
7 .	(21) Water, Sanitation and Flood		(21) Water, Sanitation and Flood
	Protection (Adaptation)		Protection (Mitigation)
A Code	Policy Development and Governance	M Code	
A205-01	Incorporate risks from climate change and climate	M205-01	Sector reform to improve water use efficiency (e.g.
	variability in water, sanitation and flood protection		water pricing)
	planning		
A201-04	Develop ordinances, policies and guidelines for water		
A230-01	conservation, allocation, recycling and reuse*		
AX30-01	Develop and implement guidelines for rain water collection, such small water impoundments, retarding		
	basins, mini dams to address water shortage and		
	flooding*		
A205-02	Establish or strengthen water regulatory institutions		•
	and policies as instruments for adaption to climate		
	change and climate variability		
A201-06	Develop and implement a comprehensive ground		
	water management program that includes		
A206-01	vulnerability assessment*		
A206-01	Review financing, tariffs, and system of incentives to reflect the full cost of providing safe water*		
A201-09	Develop public financing mechanism for water supply		
71201 03	infrastructures rehabilitation and development*		
	Research, Development and Extension		
A202-01	Conduct ground water resource vulnerability and	M205-02	Administration, sector studies, surveys, assessments,
	recharge areas assessment in water stressed cities*		information systems and capacity building for energy
A202-02	Define areas not suitable for large water infrastructure	İ	and water use efficiency in water, sanitation and flood
	development and settlements based on vulnerability		protection, and solid waste management
	assessment*	ļ	
A203-07	Conduct water resource supply and demand analysis under various hydrologic conditions and climate	]	
	scenarios*		
Λ250-02	Identify alternative water sources and demand	]	
	management especially for urbanized areas that rely	'	
	on reservoirs and are prone to recurrent and severe	1	
	drought events*		
A270-02	Incorporate water cycles change from climate change		1
	and climate variability into trans-boundary water basin		
A250-03	planning   Study and adopt centralized wastewater treatment	ł	
M200-00	systems to improve quality in highly urbanized and	1	
	densely populated areas		†
	Knowledge Sharing and Capacity Building	15	
A203-03	Training for community-based water associations to	M715-02	Train managers or workers to improve water or
	managed water supply infrastructures		energy efficiency in business operations
A203-04	Conduct Integrated Water Resource Management and	1	
	climate change adaptation and disaster risk reduction		1
	training for vulnerable communities*		
A203-06	Develop gendered and accessible knowledge products and IEC materials that include local and indigenous		
,1E00-00	knowledge on water resources management, climate		·
	change impacts on water resources and adaptation		
	best practices*		
A210-03	Develop and network government database on water		1
	resources and users*	ļ. <del></del>	Contro Delham
	Service Delivery	<u> </u>	Service Delivery

# Annex A: Climate Change Typologies (LGUs) 1-FS / 2-WS / 3-EES / 4-HS / 5-CSIS / 6-SE / 7-KCD / 8-Finance /9-Cross Cutting

design standards for flood control and drainage systems Incorporate climate change and climate variability of water supply infrastructure/ Rehabilitate water infrastructure with climate lens (use of climate projections and other relevant climate data)* Expand the establishment of alternative micro-water purification systems especially to areas that cannot be reached by safe water supply* Monitor impact of climate change and climate variability as part of water resource management incorporate changes in design of sanitation systems, wastewater treatment and disposal system in response to extreme weather and flood events arising from climate change and climate variability Mangrove reforestation/rehabilitation of wetlands as protection against floods  A240-01 Treatment of wastewater for conservation/re-use purposes to respond to decilnes in water availability due to climate change and climate variability implement/install water harvesting technologies* (e.g., water impounding systems)  A220-03 River rechanneling, bredging/declogging/ desisting/cleanup of waterways/rivers/canals/creeks and drainage Embankment of flood prone rivers; Protection dykes Slope protection Coastal protection wall embankment /Seawall /Construction of retaining wall; riprap/Vegetation control along roadsides Construction of Flood Control Structure  design standards for climate variability of water supply systems (M220-01)  M220-02  M220-03  Reduce energy intentions (e.g., household water, shower, toile interventions (e.g., househol				
A240-04 Incorporate climate change and climate variability of water supply Infrastructure/ Rehabilitate water infrastructure with climate lens (use of climate projections and other relevant climate data)*  Expand the establishment of alternative micro-water purification systems especially to areas that cannot be reached by safe water supply*  Monitor impact of climate change and climate variability as part of water resource management Incorporate changes in design of sanitation systems, wastewater treatment and disposal system in response to extreme weather and flood events arising from climate change and climate variability Mangrove reforestation/rehabilitation of wetlands as protection against floods  A240-01  Treatment of wastewater for conservation/re-use purposes to respord to decilnes in water availability implement/install water harvesting technologies* (e.g., water impounding systems)  A220-03  A230-05  A240-06  A240-07  A250-01  A260-07  A270-08  A270-09  A270-	Λ240-03		M210-01	Reduce or capture methane emission from ventilated
Incorporate climate change and climate variability of water supply infrastructure with climate lens (use of climate projections and other relevant climate data)*  Expand the establishment of alternative micro-water purification systems especially to areas that cannot be reached by safe water supply*  Monitor impact of climate change and climate variability as part of water resource management incorporate changes in design of sanitation systems, wastewater treatment and disposal system in response to extreme weather and flood events arising from climate change and climate variability Mangrove reforestation/rehabilitation of wetlands as protection against floods  A240-01  A250-01  A220-03  A240-01  A250-01  A260-05  A270-06  A270-06  A270-07  A270-08  A270-09		design standards for flood control and drainage		
water supply infrastructure/ Rehabilitate water infrastructure with climate lens (use of climate projections and other relevant climate data)*  Expand the establishment of alternative micro-water purification systems especially to areas that cannot be reached by safe water supply*  Monitor impact of climate change and climate variability as part of water resource management incorporate changes in design of sanitation systems, wastewater treatment and disposal system in response to extreme weather and flood events arising from climate change and climate variability Mangrove reforestation/rehabilitation of wetlands as protection against floods  A240-01 Treatment of wastewater for conservation/re-use purposes to respond to declines in water availability Implement/install water harvesting technologies* (e.g., water impounding systems)  River rechanneling, Dredging/declogging/ desiliting/cleanup of waterways/rivers/canals/creeks and drainage  Embankment of flood prone rivers; Protection dykes Slope protection Coastal protection wall embankment /Seawall /Construction of retaining wall; riprap/Vegetation control along roadsides Construction of Flood Control Structure  M240-01 Reduce per capita water consumption using demand side interventions (e.g. household water, shower, toilet, and dishwasher).  M250-01 M250-		systems	M220-01	
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treatment (e.g. from activated sludge to up flow anaerobic sludge)  to extreme weather and flood events arising from climate change and climate variability Mangrove reforestation/rehabilitation of wetlands as protection against floods  Treatment of wastewater for conservation/re-use purposes to respond to declines in water availability due to climate change and climate variability implement/install water harvesting technologies* (e.g., water impounding systems)  River rechanneling/ Dredging/declogging/ desilting/cleanup of waterways/rivers/canals/creeks and drainage Embankment of flood prone rivers; Protection dykes Slope protection Coastal protection wall embankment A430-06  //Seawall/Construction of retaining wall; riprap/Vegetation control along roadsides Construction of Flood Control Structure			M250-02	
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A430-05 drainage Embankment of flood prone rivers; Protection dykes Slope protection Coastal protection wall embankment //Seawall /Construction of retaining wall; riprap/Vegetation control along roadsides Construction of Flood Control Structure	NLLU-UJ	silting/cleanup of waterways/rivers/canals/creeks and	}	•
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riprap/Vegetation control along roadsides Construction of Flood Control Structure	A430-06			
Construction of Flood Control Structure	H-130-00			
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0.440.09		Constitution of the Control of the Control		,
	A440-08			

	Strategic Priority 3 Eco	logical an	id Environmental Stability
X	(31) Forestry and Biodiversity		(31) Forestry and Biodiversity
	(Adaptation)		(Mitigation)
aren ediligg		FY 2015	Contraction of the Contraction o
FY 2015	Policy Development and Governance		
A311-02	Design and implement payments for environmental	M311-01	LGU support to REDD+ implementation*
	services and other innovative conservation financing	M311-02	Establish a system of monitoring, reporting and verification of REDD+ related policies and processes*
	mechanisms to support ecosystem-based adaptation		Establish "polluters pay principle" for pollution
	and mitigation"	M311-03	management*
A320-02	Integrated ecosystem management approaches for	M311-04	Formulate and implement ordinances/policies that
	watersheds and wetlands to reduce vulnerability to climate change and climate variability	18/311-04	prevent pollution (e.g. slash and burn farming)
4260.03	Establish zoning guidelines for different ecosystems		prevent panadan (e.g. sast one out and g
Λ260-03	based on the vulneyability and risk assessment		•
	results*	į	
A201-03	Develop guidelines for Implementing Integrated		
A201-03	Water Resources Management and climate change		
	adaptation at the local, watershed and river basin		
•	level*		
A311-03	Formulate ordinances/policies to reduce the human-		
731, 44	related impacts to coral reefs to help lessen the	i	
	reefs' vulnerability to climate change		
	Research, Development and Extension		
4705.00	Study, design and implement financing mechanisms		
A206-02	for IWRM and climate change adaptation		
	Implementation in critical watersheds and river		
	basins*	1	
	Knowledge Sharing and Capacity Building		
4040.05			
A340-05	Establish management information system for		
****	different ecosystems that link various data sources* Document and disseminate best practices, including	İ	
A340-06	climate change responsive indigenous practices*		
<u>.                                      </u>	Service Delivery		Service Delivery
			Re-forestation and afforestation that increases vegetative
A312-01	Delineation/rehabilitation/reforestation of	M312-02	cover or sequesters carbon; (e.g. Mangrove re-
	watershed areas	ļ	forestation/rehabilitation/rehabilitation);
A312-02	Conserve and protect existing watershed and	M312-03	Sustainable peat land/ wetland/forest management and
	protected areas	101312-03	protection
AZ07-07	Improve physical system performance of river basins Identify financing options for rehabilitation activities	M312-04	Avoided deforestation/Bantay Gubat Program/
A312-03	Identify and delineate ecological management	101312-04	Establishment of ENRO-PMRB (Provincial Mining and
A312-04	zones*		Regulatory Board)/ PNP Checkpoints
A312-05	Delineate "ridge-to-reef" ecosystem-based	M312-05	Management and Protection of Tree Parks/Provincial
7014 00	management zones for the ecotowns through multi		Forests and Nursery
	stakeholder process*	M311-03	Prepare for carbon markets or implement carbon finance
A320-01	Update status of Protected Areas and Key	-	market transactions
	Biodiversity Areas from results of vulnerability and	M312-02	Implement the National REDD Plus-Strategy*/LGU
	risk assessment*	·	support
A331-04	Design PES scheme and pilot test Identified	M312-06	Oplan Sagip Kalikasan/Urban greening program;
	ecotowns*	ļ	landscaping and other beautification projects;
A312-10	Seedling production; management of mangrove	A312-12	Community-based Forest Management/Social Forestry
	nursery		
A312-11	Agro-forestry to diversify farmers' incomes and	1	
	provide alternatives livelihood during extreme		1
	weather events (i.g. drought)	1	
A312-13	Integrated Tree planting along riverbanks/ River		
	Bank Rehabilitation / that reduce the risk of flooding	ļ	
A320-03	Establishment of genebank for plant genetic		
	resources	'   · .	
A320-04	Establishment of database network on wildlife,	1	
	genetic biodiversity and biosafety		1
A320-05	Artificial Coral Reef Propagation		
∧320-06	Sea Grass Protection/Sea Cow/ Marine Turtle		1
A 2 2 0 0 7	Conservation		
∧320-07	Estuary Protection	en arrilla seriado	Mining and Solid Waste
- 1.0 mm ( 1.0 mm )	Small (Wilning and Solid Wastes)	Henselman segging	Rehabilitate abandoned mines*
A330-01	incorporate change in design of solid waste	M330-01	Identify and implement a moratorium of mining
	management systems in response to extreme		operations in protected areas pending vulnerability and
	weather and flood events prising from CC&CV.	M330-02	the state of the s
			Close solid waste management sites in environmentally
1			*Activities under the NCCAP

# Annex A: Climate Change Typologies (LGUs) 1-FS / 2-WS / 3-EES / 4-HS / 5-CSIS / 6-SE / 7-KCD / 8-Finance /9-Cross-Cutting

	critical areas
N	A330-03 Compost landfill
	Upgrade existing landfills to capture methane for energy
l I	и330-04 generation or gas flaring for CO2 generation
	A330-05 Monitor illegal mining activities that emit greenhouse
	gasses
i l	4330-06 Formulation of Solid Waste Management Plan
	Waste reduction and diversion program/Intensify waste
, , , , , , , , , , , , , , , , , , ,	A330-08 segregation at source, discard recovery, composting and
	4330-09 recycling*
	Construction of Materials Composting and Recovery
	Facility (MRCF) Building; Buyback Center; Purchase of
	M330-10 MCRF equipment
	Conduct Waste Amount & Composition Study (WACS)
	Construction of Septic Vault
	M330-11 Fabrication of molders for plastics
	Y
	M330-12
<u> </u>	М330-13

Sinea	StrategicRrior	ity 4≔ H	uman Security
	(41) Health (Adaptation)		(41) Health (Mitigation)
Code	1 Policy Development and Governance	Code	Policy Development and Governance
A411-01	Develop guidelines on treatment of climate related		
	health issues in newly exposed areas due to climate	-	
	change and climate variability		
A414-01	Include climate related diseases in basic benefits of		
	insurance policies		
A411-02	Develop policy requiring integration of climate change		
	and disaster risk reduction concepts and approaches in		
	medical and allied health training courses*		
A411-03	Develop and implement monitoring health infrastructure		
	damage and rehabilitation plan*		
A411-05	Develop and implement post disaster epidemic outbreak		
	management and discase surveillance system (ex. Water-		
	borne diseses and other health risks due to climate		
	change*		•
A440-02	Development of proving and taxing policies supporting		
	Implementation of adaptation measures		
A411-06	Planning for Climate Change Adaptation for health sector		
A840-01	Include climate related diseases under the basic benefit		
	packages of health insurance policies		
A840-02	Expand insurance eligibility to populations vulnerable to		
	climate related diseases		
	2 Research, Development and Extension		
A413-01	Assess changes in risk, exposure or sensitivity to climate		
	change and climate variability related diseases for		'
	vulnerable groups		
A440-01	Assess impact of climate change and climate variability		•
	on livelihoods and poverty with focus on vulnerable		· ·
	groups	1	,
A411-07	Vulnerability and risk assessment for government		
	infrastructure (e.g. hospitals, health centers, and		
	barangay health units)		_
A411-08	Risk Assessment for barangays		<u> </u>
	3 Knowledge Sharing and Capacity Building	•	
A412-02	Training and education of health personnel on treatment,	ļ	
	monitoring and surveillance of climate change and		
	climate variability related health issues*		
A412-05	Training for health emergency preparedness and	Ļ	
	response*	1	
A413-04	Strengthen health management information		· ·
	management		
A413-02	Incorporate climate related health risks into clinical		
	practice guidelines, and curricula for continuous medical	ł	
	education	<u></u>	4·10
	Service Delivery :		Link Lawrence
A412-01	Develop and introduce health surveillance and rapid	M412-01	Interventions that reduce air pollution (e.g. Anti-smoke
	response system that reduces the health impacts of		belching campaign)
	climate change and climate variability (e.g. heat-watch)*		
A413-07	Implement program for community health emergency		
	preparedness and response*		
A440-04	Development of social protection strategies to respond		
	to climate change and climate variability		
A440-06	Develop food safety measures that take account of new		
	conditions caused by dlimate change	1	I .

			MINISTER CHICAGO
A STANKE	(42) Human Settlements (Adaptation)		(42) Human Settlements (Mitigation)
A Code	Policy Development and Governance	M Code	Policy Development and Governance
A420-01	Develop and implement plan to secure and manage	M522-01	Develop policies that encourage passive cooling and lighting
į	conflict-affected resettlements*		designs
A522-02	Incorporate vulnerability to climate change and	M\$22-02	Develop integrated transport and land use plans
1	climate variability in housing design standards		
A420-10	Regulate settlements in areas vulnerable to CC&CV		
A420-11	Localization of Project NOAH		
A522-04	Meterological hazard Identification and Emergency		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Response Planning	,	
A Code	Research, Development and Extension	M Code	Research, Development and Extension
			.,,
A430-01	Risk Mapping/Identify, map and profile highly		
	disaster prone areas and communities*		·
A420-01	Conduct a study on population carrying capacity of		
	areas and CC adaptive capacity of various		
1	communities*		
A430-03	Identify most CC vulnerable sectors and population*		
	Knowledge Sharing and Capacity Building		
Λ423-01	Develop and implement knowledge management on	M522-03	Promote energy efficient housing
ļ	climate change and disaster risks for local		
1	government units and communities*		
Λ423-02	Increase local cagacity for forecasting, early warning		
	and disaster risk communication*	Ì	
A42-42	Identify indigenous early warning systems on		
	disasters for potential replication in other areas*		
A4Z-43	Conduct training of trainers to respond to the needs	}	
172-73	of communities for climate change adaptation*		
A440-11	l. Advocacy on climbte change adaptation	1	
A440-11	Advocacy on climate change adaptation		Service Delivery
	Service Delivery	M522-01	Service Delivery  Install new heating and conling systems using renewable
	Service Delivery Identify and implement gender-responsive	M522-01	Install new heating and cooling systems using renewable
	Service Delivery Identify and implement gender-responsive sustainable livelihood and social protection		Install new heating and cooling systems using renewable energy
A420-02	Service Delivery Identify and implement gender-responsive sustainable livelihood and social protection programs for resettled and vulnerable poor families*	M522-01	Install new heating and cooling systems using renewable energy Retrofit heating and cooling systems in existing housing unit.
A420-02	Service Delivery Identify and implement gender-responsive sustainable livelihood and social protection programs for resettled and vulnerable poor families* Develop and implement post-disaster resettlement		Install new heating and cooling systems using renewable energy
A440-11 A420-02 A413-08	Service Delivery Identify and implement gender-responsive sustainable livelihood and social protection programs for resettled and vulnerable poor families* Develop and implement post-disaster resettlement and counselling of displaced families and		Install new heating and cooling systems using renewable energy Retrofit heating and cooling systems in existing housing unit.
A4Z0-0Z A413-08	Service Delivery Identify and implement gender-responsive sustainable livelihood and social protection programs for resettled and vulnerable poor families* Develop and implement post-disaster resettlement and counselling of displaced families and communities*		Install new heating and cooling systems using renewable energy Retrofit heating and cooling systems in existing housing unit.
A4Z0-0Z A413-08	Service Delivery Identify and implement gender-responsive sustainable livelihood and social protection programs for resettled and vulnerable poor families* Develop and implement post-disaster resettlement and counselling of displaced families and communities*  Develop and implement a settlement adaptation and		Install new heating and cooling systems using renewable energy Retrofit heating and cooling systems in existing housing unit.
A4Z0-0Z A413-08	Service Delivery Identify and implement gender-responsive sustainable livelihood and social protection programs for resettled and vulnerable poor families* Develop and implement post-disaster resettlement and counselling of displaced families and communities*  Develop and implement a settlement adaptation and resettlement plan in consultation with affected		Install new heating and cooling systems using renewable energy Retrofit heating and cooling systems in existing housing unit.
A4Z0-0Z A413-08	Service Delivery  Identify and implement gender-responsive sustainable livelihood and social protection programs for resettled and vulnerable poor families* Develop and implement post-disaster resettlement and counselling of displaced families and communities*  Develop and implement a settlement adaptation and resettlement plan in consultation with affected communities, private sector, and civil society		Install new heating and cooling systems using renewable energy Retrofit heating and cooling systems in existing housing unit.
A420-02 A413-08 A430-02	Service Delivery Identify and implement gender-responsive sustainable livelihood and social protection programs for resettled and vulnerable poor families* Develop and implement post-disaster resettlement and counselling of displaced families and communities*  Develop and implement a settlement adaptation and resettlement plan in consultation with affected communities, private sector, and civil society organization		Install new heating and cooling systems using renewable energy Retrofit heating and cooling systems in existing housing unit.
A420-02 A413-08 A430-02	Service Delivery  Identify and implement gender-responsive sustainable livelihood and social protection programs for resettled and vulnerable poor families* Develop and implement post-disaster resettlement and counselling of displaced families and communities*  Develop and implement a settlement adaptation and resettlement plan in consultation with affected communities, private sector, and civil society organization  Construct new low-cost housing, relocation, and		Install new heating and cooling systems using renewable energy Retrofit heating and cooling systems in existing housing unit
A420-02 A413-08 A430-02	Service Delivery Identify and implement gender-responsive sustainable livelihood and social protection programs for resettled and vulnerable poor families* Develop and implement post-disaster resettlement and counselling of displaced families and communities*  Develop and implement a settlement adaptation and resettlement plan in consultation with affected communities, private sector, and civil society organization		Install new heating and cooling systems using renewable energy Retrofit heating and cooling systems in existing housing unit
A420-02 A413-08 A430-02	Service Delivery  Identify and implement gender-responsive sustainable livelihood and social protection programs for resettled and vulnerable poor families* Develop and implement post-disaster resettlement and counselling of displaced families and communities*  Develop and implement a settlement adaptation and resettlement plan in consultation with affected communities, private sector, and civil society organization  Construct new low-cost housing, relocation, and other mass dwellings to climate resilient design standards		Install new heating and cooling systems using renewable energy Retrofit heating and cooling systems in existing housing unit
A420-02 A413-08 A430-02	Service Delivery  Identify and implement gender-responsive sustainable livelihood and social protection programs for resettled and vulnerable poor families* Develop and implement post-disaster resettlement and counselling of displaced families and communities*  Develop and implement a settlement adaptation and resettlement plan in consultation with affected communities, private sector, and civil society organization  Construct new low-cost housing, relocation, and other mass dwellings to climate resilient design standards  Reconstruction of housing projects damaged by		Install new heating and cooling systems using renewable energy Retrofit heating and cooling systems in existing housing unit.
A420-02 A413-08 A430-02 A420-07	Service Delivery  Identify and implement gender-responsive sustainable livelihood and social protection programs for resettled and vulnerable poor families* Develop and implement post-disaster resettlement and counselling of displaced families and communities*  Develop and implement a settlement adaptation and resettlement plan in consultation with affected communities, private sector, and civil society organization  Construct new low-cost housing, relocation, and other mass dwellings to climate resilient design standards		Install new heating and cooling systems using renewable energy Retrofit heating and cooling systems in existing housing unit
A420-02 A413-08 A430-02 A420-07	Service Delivery  Identify and implement gender-responsive sustainable livelihood and social protection programs for resettled and vulnerable poor families* Develop and implement post-disaster resettlement and counselling of displaced families and communities*  Develop and implement a settlement adaptation and resettlement plan in consultation with affected communities, private sector, and civil society organization  Construct new low-cost housing, relocation, and other mass dwellings to climate resilient design standards  Reconstruction of housing projects damaged by		Install new heating and cooling systems using renewable energy Retrofit heating and cooling systems in existing housing unit
A420-02 A413-08 A430-02 A420-07	Service Delivery  Identify and implement gender-responsive sustainable livelihood and social protection programs for resettled and vulnerable poor families* Develop and implement post-disaster resettlement and counselling of displaced families and communities*  Develop and implement a settlement adaptation and resettlement plan in consultation with affected communities, private sector, and civil society organization  Construct new low-cost housing, relocation, and other mass dwellings to climate resilient design standards  Reconstruction of housing projects damaged by calamities (Building Back Better)		Install new heating and cooling systems using renewable energy Retrofit heating and cooling systems in existing housing unit
A420-02 A413-08 A430-02 A420-07 A420-08	Service Delivery  Identify and implement gender-responsive sustainable livelihood and social protection programs for resettled and vulnerable poor families* Develop and implement post-disaster resettlement and counselling of displaced families and communities*  Develop and implement a settlement adaptation and resettlement plan in consultation with affected communities, private sector, and civil society organization  Construct new low-cost housing, relocation, and other mass dwellings to climate resilient design standards  Reconstruction of housing projects damaged by calamities (Building Back Better)  Relocating disaster prone communities and		Install new heating and cooling systems using renewable energy Retrofit heating and cooling systems in existing housing unit
A420-02 A413-08 A430-02 A420-07 A420-08 A430-04 A430-07	Service Delivery  Identify and implement gender-responsive sustainable livelihood and social protection programs for resettled and vulnerable poor families* Develop and implement post-disaster resettlement and counselling of displaced families and communities*  Develop and implement a settlement adaptation and resettlement plan in consultation with affected communities, private sector, and civil society organization  Construct new low-cost housing, relocation, and other mass dwellings to climate resilient design standards  Reconstruction of housing projects damaged by calamitics (Building Back Better)  Relocating disaster prone communities and commercial centers to safer areas  Disaster and Climate Risk Monitoring System		Install new heating and cooling systems using renewable energy Retrofit heating and cooling systems in existing housing unit
A420-02 A413-08 A430-02 A420-07 A420-08 A430-04 A430-07	Service Delivery  Identify and implement gender-responsive sustainable livelihood and social protection programs for resettled and vulnerable poor families* Develop and implement post-disaster resettlement and counselling of displaced families and communities*  Develop and implement a settlement adaptation and resettlement plan in consultation with affected communities, private sector, and civil society organization  Construct new low-cost housing, relocation, and other mass dwellings to climate resilient design standards  Reconstruction of housing projects damaged by calamities (Building Back Better)  Relocating disaster prone communities and commercial centers to safer areas		Install new heating and cooling systems using renewable energy Retrofit heating and cooling systems in existing housing unit
A420-02 A413-08 A430-02 A420-07 A420-08 A430-04 A430-07 A430-08	Service Delivery  Identify and implement gender-responsive sustainable livelihood and social protection programs for resettled and vulnerable poor families* Develop and implement post-disaster resettlement and counselling of displaced families and communities*  Develop and implement a settlement adaptation and resettlement plan in consultation with affected communities, private sector, and civil society organization  Construct new low-cost housing, relocation, and other mass dwellings to climate resilient design standards  Reconstruction of housing projects damaged by calamitics (Building Back Better)  Relocating disaster prone communities and commercial centers to safer areas  Disaster and Climate Risk Monitoring System Install Early Warning Systems  Construction of cimate resilient elementary and		Install new heating and cooling systems using renewable energy Retrofit heating and cooling systems in existing housing unit
A420-02 A413-08 A430-02 A420-07 A420-08 A430-04 A430-07 A430-08	Service Delivery  Identify and implement gender-responsive sustainable livelihood and social protection programs for resettled and vulnerable poor families* Develop and implement post-disaster resettlement and counselling of displaced families and communities* Develop and implement a settlement adaptation and resettlement plan in consultation with affected communities, private sector, and civil society organization  Construct new low-cost housing, relocation, and other mass dwellings to climate resilient design standards  Reconstruction or housing projects damaged by calamities (Building Back Better)  Relocating disaster prone communities and commercial centers to safer areas  Disaster and Climate Risk Monitoring System Install Early Warning Systems  Construction of climate resilient elementary and secondary school buildings (safe from climate		Install new heating and cooling systems using renewable energy Retrofit heating and cooling systems in existing housing unit
A420-02 A413-08 A430-02 A420-07 A420-08 A430-04 A430-07 A430-08 A440-08	Identify and implement gender-responsive sustainable livelihood and social protection programs for resettled and vulnerable poor families* Develop and implement post-disaster resettlement and counselling of displaced families and communities* Develop and implement a settlement adaptation and resettlement plan in consultation with affected communities, private sector, and civil society organization Construct new low-cost housing, relocation, and other mass dwellings to climate resilient design standards  Reconstruction of housing projects damaged by calamities (Building Back Better)  Relocating disaster prone communities and commercial centers to safer areas  Disaster and Climate Risk Monitoring System Install Early Warring Systems  Construction of climate resilient elementary and secondary school buildings (safe from climate hazards; considers climate risks)		Install new heating and cooling systems using renewable energy Retrofit heating and cooling systems in existing housing unit
A420-02 A413-08 A430-02 A420-07 A420-08 A430-04 A430-07 A430-08 A440-08	Identify and implement gender-responsive sustainable livelihood and social protection programs for resettled and vulnerable poor families* Develop and implement post-disaster resettlement and counselling of displaced families and communities* Develop and implement a settlement adaptation and resettlement plan in consultation with affected communities, private sector, and civil society organization Construct new low-cost housing, relocation, and other mass dwellings to climate resilient design standards  Reconstruction of housing projects damaged by calamities (Building Back Better)  Relocating disaster prone communities and commercial centers to safer areas  Disaster and Climate Risk Monitoring System  Install Early Warning Systems  Construction of cimate resilient elementary and secondary school buildings (safe from climate hazards; considers climate risks)  Climate proofing retrofitting or relocating of		Install new heating and cooling systems using renewable energy Retrofit heating and cooling systems in existing housing unit
A420-02 A413-08 A430-02 A420-07 A420-08 A430-04 A430-07 A430-08 A440-08	Identify and implement gender-responsive sustainable livelihood and social protection programs for resettled and vulnerable poor families* Develop and implement post-disaster resettlement and counselling of displaced families and communities* Develop and implement a settlement adaptation and resettlement plan in consultation with affected communities, private sector, and civil society organization Construct new low-cost housing, relocation, and other mass dwellings to climate resilient design standards Reconstruction or housing projects damaged by calamitics (Building Back Better) Relocating disaster prone communities and commercial centers to safer areas Disaster and Climate Risk Monitoring System Install Early Warning Systems Construction of climate resilient elementary and secondary school buildings (safe from climate hazards; considers climate risks) Climate proofing retrofitting or relocating of government infrastructure (i.e. schools and		Install new heating and cooling systems using renewable energy Retrofit heating and cooling systems in existing housing unit
A420-02 A413-08 A430-02 A420-07 A420-08 A430-04 A430-07 A430-08	Identify and implement gender-responsive sustainable livelihood and social protection programs for resettled and vulnerable poor families* Develop and implement post-disaster resettlement and counselling of displaced families and communities* Develop and implement a settlement adaptation and resettlement plan in consultation with affected communities, private sector, and civil society organization Construct new low-cost housing, relocation, and other mass dwellings to climate resilient design standards Reconstruction or housing projects damaged by calamities (Building Back Better) Relocating disaster prone communities and commercial centers to safer areas Disaster and Climate Risk Monitoring System Install Early Warning Systems Construction of climate resilient elementary and secondary school buildings (safe from climate hazards; considers climate risks) Climate proofing retrofitting or relocating of government infrastructure (i.e. schools and government hospitals, health centers, rural health		Install new heating and cooling systems using renewable energy Retrofit heating and cooling systems in existing housing unit
A420-02 A413-08 A430-02 A420-07 A420-08 A430-04 A430-08 A440-08	Identify and implement gender-responsive sustainable livelihood and social protection programs for resettled and vulnerable poor families* Develop and implement post-disaster resettlement and counselling of displaced families and communities* Develop and implement a settlement adaptation and resettlement plan in consultation with affected communities, private sector, and civil society organization Construct new low-cost housing, relocation, and other mass dwellings to climate resilient design standards Reconstruction of housing projects damaged by calamities (Building Back Better) Relocating disaster prone communities and commercial centers to safer areas Disaster and Climate Risk Monitoring System Install Early Warning Systems Construction of climate resilient elementary and secondary school buildings (safe from climate hazards; considers climate risks) Climate proofing retrofitting or relocating of government infrastructure (i.e. schools and government hospitals, health centers, rural health units, teen centers)		Install new heating and cooling systems using renewable energy Retrofit heating and cooling systems in existing housing unit
A420-02 A413-08 A430-02 A420-07 A420-08 A430-04 A430-07 A430-08 A440-08	Identify and implement gender-responsive sustainable livelihood and social protection programs for resettled and vulnerable poor families* Develop and implement post-disaster resettlement and counselling of displaced families and communities* Develop and implement a settlement adaptation and resettlement plan in consultation with affected communities, private sector, and civil society organization Construct new low-cost housing, relocation, and other mass dwellings to climate resilient design standards Reconstruction of housing projects damaged by calamities (Building Back Better) Relocating disaster prone communities and commercial centers to safer areas Disaster and Climate Risk Monitoring System Install Early Warning Systems Construction of climate resilient elementary and secondary school buildings (safe from climate hazards; considers climate risks) Climate proofing retrofitting or relocating of government infrastructure (i.e. schools and government hospitals, health centers, rural health units, teen centers) Relocation of schools and government hospitals,		Install new heating and cooling systems using renewable energy Retrofit heating and cooling systems in existing housing unit
A420-02 A413-08 A430-02 A420-07 A420-08 A430-04 A430-08 A440-08	Identify and implement gender-responsive sustainable livelihood and social protection programs for resettled and vulnerable poor families* Develop and implement post-disaster resettlement and counselling of displaced families and communities* Develop and implement a settlement adaptation and resettlement plan in consultation with affected communities, private sector, and civil society organization Construct new low-cost housing, relocation, and other mass dwellings to climate resilient design standards Reconstruction of housing projects damaged by calamities (Building Back Better) Relocating disaster prone communities and commercial centers to safer areas Disaster and Climate Risk Monitoring System Install Early Warning Systems Construction of cimate resilient elementary and secondary school buildings (safe from climate hazards; considers climate risks) Climate proofing retrofitting or relocating of government infrastructure (i.e. schools and government hospitals, health centers, rural health units, from climate		Install new heating and cooling systems using renewable energy Retrofit heating and cooling systems in existing housing unit
A420-02 A413-08 A430-02 A420-07 A420-08 A430-04 A430-07 A440-08 A440-09	Identify and implement gender-responsive sustainable livelihood and social protection programs for resettled and vulnerable poor families* Develop and implement post-disaster resettlement and counselling of displaced families and communities* Develop and implement a settlement adaptation and resettlement plan in consultation with affected communities, private sector, and civil society organization Construct new low-cost housing, relocation, and other mass dwellings to climate resilient design standards Reconstruction or housing projects damaged by calamities (Building Back Better) Relocating disaster prone communities and commercial centers to safer areas Disaster and Climate Risk Monitoring Systems Install Early Warning Systems Construction of cimate resilient elementary and secondary school buildings (safe from climate hazards; considers climate risks) Climate proofing retrofitting or relocating of government infrastructure (i.e. schools and government hospitals, health centers, rural health units, from climate hazards		Install new heating and cooling systems using renewable energy Retrofit heating and cooling systems in existing housing unit
A420-02 A413-08 A430-02 A420-07 A420-08 A430-04 A430-08 A440-08	Identify and implement gender-responsive sustainable livelihood and social protection programs for resettled and vulnerable poor families* Develop and implement post-disaster resettlement and counselling of displaced families and communities* Develop and implement a settlement adaptation and resettlement plan in consultation with affected communities, private sector, and civil society organization Construct new low-cost housing, relocation, and other mass dwellings to climate resilient design standards Reconstruction or housing projects damaged by calamities (Building Back Better) Relocating disaster prone communities and commercial centers to safer areas Disaster and Climate Risk Monitoring System Install Early Warning Systems Construction of climate resilient elementary and secondary school buildings (safe from climate hazards; considers climate risks) Climate proofing retrofitting or relocating of government infrastructure (i.e. schools and government hospitals, health centers, rural health units, teen centers) Relocation of schools and government hospitals, health centers, rural health units, from climate hazards  Demolition of illegal structures occupied by informal		Install new heating and cooling systems using renewable energy Retrofit heating and cooling systems in existing housing units
A420-02 A413-08 A430-02 A420-07 A420-08 A430-04 A430-07 A440-08 A440-09	Identify and implement gender-responsive sustainable livelihood and social protection programs for resettled and vulnerable poor families* Develop and implement post-disaster resettlement and counselling of displaced families and communities* Develop and implement a settlement adaptation and resettlement plan in consultation with affected communities, private sector, and civil society organization Construct new low-cost housing, relocation, and other mass dwellings to climate resilient design standards Reconstruction or housing projects damaged by calamities (Building Back Better) Relocating disaster prone communities and commercial centers to safer areas Disaster and Climate Risk Monitoring Systems Install Early Warning Systems Construction of cimate resilient elementary and secondary school buildings (safe from climate hazards; considers climate risks) Climate proofing retrofitting or relocating of government infrastructure (i.e. schools and government hospitals, health centers, rural health units, from climate hazards		Install new heating and cooling systems using renewable energy Retrofit heating and cooling systems in existing housing units

	Strategic Priority 5- CIII	mate Sm	art industries and Services
		et a self a self-a self-a	(51) Trade, Industries and Tourism
	(51) Trade Industries and Tourish		(Mitigation)
的中国特	(Adaptation)	FY 2015	Policy Development and Governance
FY 2015	Policy Development and Governance	FY.2015	
A201-05	Integrate in the National Building Code a	M511-02	Marketing/ trade policies that reduce energy consumption
	requirement for all water-intensive facilities to	M271-05	per unit of product
	have water recovery system*	M511-03	Introduce a system of incentives to encourage the use of
A511-01	Develop a nationally acceptable operational	1013.1.1-03	climate-smart technologies and practices
1	definition of "green jobs"+	M511-04	Integrate monitoring of existing and new-climate smart
A511-02	Create an enabling policy for the development and implementation of climate-smart industries and	Wi311 V	industries and services within existing business registration
	services*		system*
	Develop tourism plans, policies and strategies to	M551-02	Implement a system of collection, analysis and reporting of
A541-0Z	promote green tourism*		baseline and new data on green jobs and employment*
A 0 7 0 7	Introduce regulations and programs to support	M511-06	Develop ordinances and policies on the use of reusable
A830-01	climate resilient investments		bags and containers*
A420-12	Develop green building ordinance/ rating scheme,		
M420-12	specifications and criteria*		
	Research, Development and Extension		Research, Development and Extension
A542-01	Establish the carrying capacity of tourism areas*	M512-02	Baseline data on GHG emissions from industry and other
A542-02	Aquasilviculture Demo Farm to rehabilitate		sources
710-12-02	mangroves and address climate change and	M512-03	Forge partnerships with industry, academe, and research
	provide livelihood	Į.	organizations on R&D of climate-smart technologies and
A542-03	Demo Farm on Integrated Farming on Brackish		products in the locality
	Water	<u></u>	we have a second of the second
-	Knowledge Sharing and Copacity Building		Knowledge Sharing and Capacity Building
A513-01	Promote public-private partnership to increase	M513-01	Trainings on environmental compliance monitoring
	investments in the development of climate-smart	M513-02	Develop and Implement training program on GHG
	technologies, products and services*	1	emissions inventory and carbon footprint* Review and develop integrated Loolkit packages and
A513-02	Assist SMEs in developing capacity for eco-efficient	t   M513-03	identify training providers/ knowledge partners
	production*	.	identify training providers/ knowledge parallers
A541-03	Festivals and events which advocate the protection	n	•
	and preservation of nature	<b></b> }	Service Delivery
	Service Delivery	M515-01	
<b>A515-01</b>	Marketing and trade support for changing	101313-01	emissions per unit of output
	agricultural product mix in response to climate	M515-02	
	change and climate variability	.   101.515 02	products that use inputs with lower GHG emission
A515-02	Support new income generating opportunities utilizing natural resource better adapted to	M515-03	Marketing and trade support for agricultural products that
	climate change and climate variability	1	use integrated organic and inorganic nutrient managemen
	Support industries that are better adapted to	M515-04	
A516-01	climate change and climate variability (e.g. Tiger-		
	grass production)		
A516-02	Retrofit assets and capital to protect against		
A510-04	climate change and climate variability	:	
A516-03	Incorporate new climate change and climate		
W210-03	variability resilient design standards		
ZANCHE IN THE WAY	52) information seconology and the		(52) Intermation Technology and
			Telecommunication (Mitigation)
	Communication (Adaptation)	M Code	THE PARTY OF THE P
A Code	Service Dolivery	M720-0	The state of the s
A720-01	Develop emergency response systems for use	141/20-0	T Improve energy distances in the second
<u></u>	during extreme weather events	re M731-0	Improve energy efficiency in telecommunications
A731-01	Development of telecommunications infrastructu		information technologies.
	for use as part of an emergency response system		
I	during extreme weather events	—_ı——	

er and and so	Strategic Priority		
	(61) General Energy (Adaptation)		(61) General Energy (Mitigation)
Code	Policy Development and Governance	Code	Policy Development and Governance
AG11-04	Develop a local renewable energy program*	M513-03	Develop/implement ordinances and policies to improve
A611-01	Mandatory implementation of AO110 and AO126		energy efficiency – in buildings, agriculture, industry and
	directing the institutionalization of Government		city/municipal services
1	Energy Management Program*		(e.g. public building maintenance program to improve
A613-01	Design and implement system of incentives for		energy efficiency; use of more energy efficient street
	renewable energy for host communities and local		lighting such as LED).
	government units that can be used for sustainable	M613-13	Develop a certification system/incentives for voluntary
	livelihood programs and climate change		adoption of energy efficiency labelling, green building
	adaptation measures*	,	rating, and ISO 50001 certification
	Research and Development and Extension		
A611-03	Conduct sustainable and renewable energy	M613-12	Conduct study on energy efficiency and conservation to
	resource assessments (e.g. hydro, geothermal,		determine the energy use reduction potential and
	biomass, wind, odean and solar)*		identify appropriate interventions and policies to
			encourage and sustain EE&C adoption*
	Knowledge Sharing and Capacity Bullding		
A611-06	Conduct capacity building of community-based	M613-07	Strengthen capacity of Institutions to plan for low-carbon
	renewable energy organizations/cooperatives on		growth and environmentally sustainable energy supply
	system maintenance, energy efficiency and conservation, organizational development, tariff		
	setting and management systems*		
	Service Delivery		Service Delivery
A6110-01	Wind energy using improved design of turbines to	M613-10	Development of renewable energy( i.e. Establishment of
70210 04	withstand higher wind speeds as a result of	111020 20	Solar Panels/Installation of Wind Mill/Bio-Gas)
	extreme weather events	M613-11	Clean Cities Initiatives or those that promote/increase
A6110-02	Solar energy using Improved design of solar panels		utilization of alternative/clean fuels for transport sector
	to withstand higher intensity storms resulting from	<u> </u>	(tricycle, jeepney, bus, private and government vehicles)
	climate change and climate variability	M6110-01	Construct or rehabilitate energy generation capacity from
A6110-03	Secure access to water for crops used as bloenergy		renewable sources other than hydropower including
	source	1	demonstration and pliots
		M6110-02	Strengthen regulatory and institutional framework to
'			support expansion of renewable energy production and
			use
		M6110-05	Develop RE project-based and service contracts-based
		Į.	portfolios to encourage potential investors in identified
	'	MAGAZO OF	sites Conduct curvey of RE potential in off-grid areas
	1	M6110-06	Conduct survey of RE potential in off-grid areas Conduct capacity building of community-based RE
		MOTIO-0/	organizations on RE system maintenance, EE&C
			organizational development, tariff setting and
			management systems
	· ·	M6110-08	Design and implement system of incentives for RE host
			communities and LGUs that can be used for sustainable
l	i l	i	
		1	livelihood programs and CCA measures
		M6110-09	Green charcoal briquetting facility

	63) Transpor	tation (Adaptation)	相位引起	(62) Transportation (Mitigation)
Code	Policy Developms	nt and Governance	Code	Policy Development and Governance
A621-01	Incorporate risks planning	from CC&CV in transportation	M621-07	Formulate ordinances/programs to implement the provisions of the Philippine Clean Air Act
4621-02		environmental or social impact and climate variability on	M623-04 M623-04 M623-05 M623-06	Develop ordinances/policies to encourage shift from higher carbon to lower carbon transport modes in the transport sector (i.e. pedestrianization, bicycle lanes) improve vehicle emission standards improve fuel efficiency standards. Strengthen vehicle inspection systems on emissions and fuel efficiency.
	Research, Develo	pment and Extension		Research, Development and Extension
			M625-03	Research and development in low-carbon or non-fossil fuel transport technologies Research and development of lower-carbon modes of urban transport

	Knowledge Sharing and Capacity Building		Knowledge Sharing and Capacity Building
		M621-02	Capacity building related to energy efficiency in the
			transport sector
	Service Delivery		
A623-02	Investments specifically responding to new climate	M623-03	Substitution of high carbon by lower carbon or non-fossil
1	resilient criteria		fuel thereby reducing carbon intensity per kilometre
A623-03	Protection of transport infrastructure against	ĺ	travelled
į	extreme weather events (especially floods and		
1	storms) becoming more frequent and violent due		
ľ	to climate change and climate variability		
	Establishment of emergency services designed to		
A623-04	cope with climate change and climate variability	1	
	related emergencies in the transport sector		
1 1 1 1 1 1	(64) Other Transportation		(62) Other Transportation (Mitigation)
	的。1915年,1915年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年,1916年	<b>非常性数据</b>	
2005-0256	(Adaptation)	il-careflyaning 10	The state of the s
∧ Code	Provincial/City/Municipal/ Farm-to-Market	M Code	Provincial/City/Municipal/Farm-to-Market Roads
	Roads/Bridges		/Bridges
A624-01	Adopt design standards that take account of	M624-01	Investment in roads to Improve traffic flow and reduce
1	climate change and climate variability-impacts	1	GHG emissions per unit transported
A624-02	Construct new roads and bridges to climate	M625-01	Urban traffic management to reduce GHG emissions per
	resilient design standards	1	unit transported
	Upgrade existing loads and bridges to climate		
A624-03	resilient design standards		
	Enhance road maintenance to respond to climate		·
A624-04	change and climate variability		
	Ports and Waterways		Ports and Waterways
Λ626-02	Construct/Upgrade ports to climate resilient	M626-02	Improve waterways and port facilities to reduce the
	design standards		carbon intensity per unit transported
A626-04	Enhanced waterway maintenance to respond to		
	climate change and climate variability	1	
A626-05	Setup new waterways or change existing		,
	waterways in response to climate change and	1	
	climate variability		·

	Strategic Priority 7 Knowl	edge and	l-Capacity:Development
	(71) Education (Adaptation)		(71) Education (Mitigation)
A Code	Policy Development and Governance	M Code	Policy Development and Governance
A711-02	Review of curricula to take account of climate aspects in basic education, vocational training and other forms of follow-up training and education	M711-01	Development of curricula or programs focused on reducing GHG emissions, energy and water consumption
Λ711-03	Review and revise, as necessary, current textbooks, modules and exemplars for pre- elementary, elementary, high school and alternative learning system for climate change content and gender-sensitivity*		
A Çode	Knowledge Sharing and Capacity Development	M Code	
A711-01	Capacity building to address vulnerability to climate change and climate variability		
Λ712-01	Awareness raising programs on climate change and climate variability		
A712-02	Training for pre-elementary, elementary, high school on integrating climate change in curriculum*		
A712-03	Climate Change 101 (for private sector and civil society)		
A712 <del>-</del> 04	Support to international campaigns that promote climate change adaptation and mitigation (e.g. Earth month)		• * .
Çode	Service Delivery		Service Delivery
A713-01	Development of climate change adaptation focused curriculal or programs for elementary and high school*	M713-01	Development of curricula or programs focused on reducing GHG emissions, energy consumption or water consumption for elementary and high school

Strategic Priority 8 - Finance			
	(81) Finance (Adaptation)	<b>多湖北区放</b>	(81) Finance (Mitigation)
A Code	Policy Development and Governance	M Code	Policy Development and Governance
Λ850-03	Regulate or provide incentives in housing finance to encourage upgrading of existing real estate that	M830-01	Introduce ordinances/pollcies/financial instruments to support GHG reducing activities
	reduces vulnerability to climate change and climate variability	M850-01	Develop ordinances or provide incentives in housing finance to support energy saving designs and standards
A860-01	Develop and introduce weather or climate indexed Insurance programs (e.g. crop insurance)		
	Knowledge Sharing and Capacity Development	———·	
A711-04 M330-06	Carbon financing capacity building Strengthen institution in developing policies to mobilize carbon finance		
A Code	Service Delivery	M Code .	Service Delivery
A870-01	Ease access to finance targeting adaptation to climate change and climate variability by	M870-01	Provide lines of credit for investments in reduction of GHG emissions and/or absorption of GHGs
	microfinance institutions	M870-03	Support to access carbon markets
A890-01	Introduce green bonds or other securities specifically targeted at adaptation to climate	M880-01	Credit lines for investments in reduction of GHG emissions and/or absorption of GHGs
	change and climate variability	M890-01	Introduce green bonds or other securities specifically targeted at reducing GHG emission or sequestering GHGs

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	Cross-C	utting Pri	orities in the second second
A Code	Policy Development and Governance	M Code	Policy Development and Governance
A900-01	Formulation/Mainstreaming of climate change in policies, codes, ordinances, plans (CLUP, CDP, ELA)	M900-01	Formulation of codes/ordinances/policies to reduce GHG emissions or absorb GHG
	and institutions	M140-03	Monitor carbon sequestration
A900-02	Conduct of CBMS with DRRM/CCA	}	
V300-03	Creation of offices with a mandate for climate	ļ	
	change adaptation and mitigation		
Λ900-04	Development of legislation on CCA		
A900-05	Develop local memoranda that promote		1'
	awareness on CCA		
A Code	Research, Development and Extension		
A90Z-01	Greenhouse gas accounting and inventory		
A902-02	Conduct vulnerability and risk assessment studies	Ì	
	and generate maps*(including agricultural;		
	ecosystem VRA; VRA for government		•
	infrastructure (e.g. hospitals, health centers, and		
	barangay health units)		
	Knowledge Sharing and Capacity Building	- 1	
A903-01	Training on vulnerability and risk assessments*	1	, , , , , , , , , , , , , , , , , , , ,
A114-01	Develop formal and non-formal training programs on CCA and DRR*		