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CHAPTER 20: ENSURING ECOLOGICAL INTEGRITY, CLEAN AND HEALTHY ENVIRONMENT											
Societal Goal											
A healthy and resilient Philippines											
Intermediate Goal											
Building a high-trust society, transforming towards equity and resiliency, and increasing growth potential											
Chapter Outcome 1											
Ecological integrity and socioeconomic resilience of resource-dependent communities improved											
Sub-chapter Outcome 1.1											
Biodiversity and ecosystem services sustained	Aggregate Outputs	7.6	7.4	7.3	7.2	7.2	7.1	7.0		DENR	DENR-FMB, DENR-BMB
	Area of denuded and degraded forestlands/ Protected Areas (PAs) decreased (M ha, cumulative) ^{e/}										
		<i>2016</i>	<i>2017</i>	<i>2018</i>	<i>2019</i>	<i>2020</i>	<i>2021</i>	<i>2022</i>			
		18,730	1,295	1,916	649	270		1,974		DA	DA-BFAR
		<i>2016</i>	<i>2017</i>	<i>2018</i>	<i>2019</i>	<i>2020</i>	<i>2021</i>	<i>2022</i>			
	Area of forestland under effective management increased (M ha, cumulative) ^{f/}	8.2	8.4	8.5	8.6	8.6	8.71	8.75		DENR	DENR-FMB
		<i>2016</i>	<i>2017</i>	<i>2018</i>	<i>2019</i>	<i>2020</i>	<i>2021</i>	<i>2022</i>			
	Area of terrestrial protected areas (including inland wetlands and caves) under National Integrated Protected Areas System (NIPAS) effectively managed increased (in ha, cumulative) ^{h/}										
	Poor	5,402	5,402	5,402	5,402	5,402	0	0		DENR	DENR-BMB
		<i>2016</i>	<i>2017</i>	<i>2018</i>	<i>2019</i>	<i>2020</i>	<i>2021</i>	<i>2022</i>			
Fair	319,995	319,995	319,995	319,995	268,500	73,776	5,402		DENR	DENR-BMB	
	<i>2016</i>	<i>2017</i>	<i>2018</i>	<i>2019</i>	<i>2020</i>	<i>2021</i>	<i>2022</i>				
Good	1,258,782	1,258,782	1,258,782	901,813	946,778	1,251,083	319,995		DENR	DENR-BMB	
	<i>2016</i>	<i>2017</i>	<i>2018</i>	<i>2019</i>	<i>2020</i>	<i>2021</i>	<i>2022</i>				
Excellent	72,174	72,174	72,174	429,143	435,673	331,493	1,330,956		DENR	DENR-BMB	
	<i>2016</i>	<i>2017</i>	<i>2018</i>	<i>2019</i>	<i>2020</i>	<i>2021</i>	<i>2022</i>				
Number of free patents issued increased ^{i/}	57,822	70,901	59,459	52,512	48,708	43,261	360,000		DENR	DENR-LMB	
	<i>2016</i>	<i>2017</i>	<i>2018</i>	<i>2019</i>	<i>2020</i>	<i>2021</i>	<i>2022</i>				

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	Number of issued Certificate of Ancestral Domain Title (CADTs) increased ^{f/}	208	39	23	30	28	18	72		NCIP	NCIP
		2016	2017	2018	2019	2020	2021	2022			
	Number of Ancestral Domain Sustainable Development and Protection Plan (ADSDPP) formulated	150	11	17	11	2	7	34		NCIP	NCIP
		2016	2017	2018	2019	2020	2021	2022			
	Number of groundwater critical areas with management plan and monitoring wells established	4	2	3	2	3	2	12		NWRB	NWRB
		2016	2017	2018	2019	2020	2021	2022			
	Number of Major River Basins (RB) with Comprehensive Water Assessment increased ^{k/}	2	1	1	1	1	1	8		NWRB	NWRB
		2016	2017	2018	2019	2020	2021	2022			
	Percentage of Declared Minahang Bayan increased	10	22	48	62	76	94	100		DENR	DENR-MGB
		2016	2017	2018	2019	2020	2021	2022			
	Percentage of surface metallic mines compliant with the safety and health, environmental, and social development and management programs for the mineral resources development	100	100	100	75.56	77.50	65.00	100		DENR	DENR-MGB
		2016	2017	2018	2019	2020	2021	2022			
	Percentage of interim rehabilitation measures monitored and implemented in the remaining abandoned mine (i.e., Palawan Quicksilver) increased (% cumulative)										
	Palawan Quicksilver (Phase I)	58.33	76.6	97.5	97.5	97.5	97.5	100		DENR	DENR-MGB
		2016	2017	2018	2019	2020	2021	2022			
	Palawan Quicksilver (Phase II)	0			33	53	73	92.5		DENR	DENR-MGB
		2016	2017	2018	2019	2020	2021	2022			
		2016			2019	2020	2021	2022			

Objectives/Results	Indicator	Baseline ^{a/}	Latest Data					Plan Target ^{b/}	Likelihood of Achieving the PDP target	Responsible Agency ^{c/}	Reporting Entity ^{d/}
Quality of coastal and marine habitats under NIPAS marine protected areas (MPAs) and other priority coastal and marine conservation areas improved (cumulative) ^{1/}											
Percentage of hard coral cover (HCC) in MPAs (in number of MPAs):											
	No available baseline data	2	2	1	0	0	0		DENR	DENR-BMB	
		2018	2019	2020	2021	2022					
	0% to 22% hard coral cover (Poor)	12	11	11	8	6			DENR	DENR-BMB	
		2018	2019	2020	2021	2022					
	>22% to 33% hard coral cover (Fair)	11	12	13	13	12			DENR	DENR-BMB	
		2018	2019	2020	2021	2022					
	>33% to 44% hard coral cover (Good)	4	4	3	6	10			DENR	DENR-BMB	
		2018	2019	2020	2021	2022					
	>44% hard coral cover (Excellent)	7	7	8	9	8			DENR	DENR-BMB	
		2018	2019	2020	2021	2022					
Percentage of seagrass cover in MPAs (in number of MPAs):											
	No available baseline data	11	6	6	3	0			DENR	DENR-BMB	
		2018	2019	2020	2021	2022					
	0% to 25% seagrass cover (Poor)	11	11	11	10	15			DENR	DENR-BMB	
		2018	2019	2020	2021	2022					
	26% to 50% seagrass cover (Fair)	10	12	12	11	11			DENR	DENR-BMB	
		2018	2019	2020	2021	2022					
	51% to 75% seagrass cover (Good)	3	6	6	9	7			DENR	DENR-BMB	
		2018	2019	2020	2021	2022					
	76% to 100% seagrass cover (Excellent)	1	1	1	3	3			DENR	DENR-BMB	
		2018	2019	2020	2021	2022					

Objectives/Results	Indicator	Baseline ^{a/}	Latest Data					Plan Target ^{b/}	Likelihood of Achieving the PDP target	Responsible Agency ^{c/}	Reporting Entity ^{d/}
Aggregate Outputs											
	Coverage of protected areas in relation to marine areas (%) ^{m/}	0.64	0.64	1.42	1.42	1.42	1.42	Maintained		DENR	DENR-BMB
		2016	2017	2018	2019	2020	2021	2022			
	Area of MPAs under NIPAS effectively managed increased (ha) ^{n/}										
	Poor	0	0	0	0	0	0	0		DENR	DENR-BMB
		2016	2017	2018	2019	2020	2021	2022			
	Fair	1,439,448	1,439,448	1,439,448	1,439,448	1,427,752	460,680	0		DENR	DENR-BMB
		2016	2017	2018	2019	2020	2021	2022			
	Good	1,270,775	1,270,775	1,270,775	1,052,039	1,062,814	1,064,906	1,439,448		DENR	DENR-BMB
		2016	2017	2018	2019	2020	2021	2022			
	Excellent	16,491	16,491	16,491	235,227	236,148	1,201,129	1,287,266		DENR	DENR-BMB
		2016	2017	2018	2019	2020	2021	2022			
	Number of coastal municipalities and cities with delineated municipal waters increased (annual)	293	80	80	82	82	80	480		NAMRIA	NAMRIA
		2016	2017	2018	2019	2020	2021	2022			
	Percentage of new and existing CFLC operationalized ^{o/}	0	38	61	51	57		100		DA	DA-BFAR
		2016	2017	2018	2019	2020	2021	2022			
Sub-chapter Outcome 1.2											
Environmental quality improved	Percentage of highly urbanized and other major urban centers within ambient air quality guideline value (i.e., Particulate Matter (PM10) and PM2.5) increased (%) ^{p/ and q/}	55	55	50.0	39.0	24	29	Increasing		DENR	DENR-EMB
		2016	2017	2018	2019	2020	2021	2022			
	Solid waste diversion rate increased (% cumulative)										
	Metro Manila	48	36	41	44	47	53	80		MMDA / DILG, DENR-EMB	MMDA/ DILG, DENR-EMB
		2015	2017	2018	2019	2020	2021	2022			

Objectives/Results	Indicator	Baseline ^{a/}	Latest Data					Plan Target ^{b/}	Likelihood of Achieving the PDP target	Responsible Agency ^{c/}	Reporting Entity ^{d/}
	Outside Metro Manila	46	62	62	65		80		MMDA / DILG, DENR-EMB	MMDA/ DILG, DENR-EMB	
		2015	2017	2018	2019		2022				
	Aggregate Outputs										
	Area of land degradation hotspots decreased (ha)	2,300,000	2,240,000	2,104,177	2,047,175	1,913,832	1,910,478	2,000,000		DA	DA-BSWM
		2016	2017	2018	2019	2020	2021	2022			
	Number of eco-labeled products increased ^{f/}	68	75	75	75	75	79	Increasing		DTI	PCEPSDI
		2016	2017	2018	2019	2020	2021	2022			
Sub-chapter Outcome 1.3											
Resilience of communities and their livelihood increased	Aggregate Outputs										
	Employment from biodiversity-friendly enterprises and other sustainable resource-based industries increased										
	From reforestation and non-timber/agroforestry enterprises (i.e. NGP, Community-Based Forest Management (CBFM)) (cumulative) ^{s/}	114,584	95,542	69,055	50,474	56,334	42,589	Increasing		DENR	DENR-FMB
		2016	2017	2018	2019	2020	2021	2022			
	Percentage of LGUs with climate and disaster risk-informed plans increased (%) ^{v/}										
	Comprehensive Development Plans (CDPs) ^{w/}	0					29.0	Increasing		DILG	DILG
		2016					2021	2022			
	Local Disaster Risk Reduction and Management Plans (LDRRMPs) ^{v/}	0	17	80.3	74.3	85.0		100		OCD-NDRRMC	OCD-NDRRMC
		2016	2017	2018	2019	2020		2022			
	Number of LGUs with fully-functional Disaster Risk Reduction and Management (DRRM) operations centers increased ^{w/}										
	Permanent	775	772	621	890			Increasing		DILG	DILG
		2016	2017	2018	2019			2022			

Objectives/Results	Indicator	Baseline ^{a/}	Latest Data				Plan Target ^{b/}	Likelihood of Achieving the PDP target	Responsible Agency ^{c/}	Reporting Entity ^{d/}
	Temporary	810	868	714	753	Increasing		DILG	DILG	
		2016	2017	2018	2019	2022				

^{a/} Actual data as of 2016 or earlier. May not necessarily be year-end values.

^{b/} May either be the cumulative or incremental target value at the end of the Plan period.

^{c/} Agency accountable for delivering the outputs/outcome

^{d/} Lead agency responsible for reporting progress on indicator targets

^{e/} Annual targets from 2017-2021 were revised to reflect the budget cuts on the Enhanced National Greening Program (ENGP).

^{f/} The targets will be accomplished through the implementation of BFAR's Aquasilviculture Program. Annual target areas were based on the result of field validation (i.e., if these areas can be planted with mangroves).

^{g/} Annual targets for 2018-2022 were revised consistent with decreased targets in area of denuded/degraded forestlands to be rehabilitated/reforested as these areas are subjected to management interventions.

^{h/} Indicator statement, baseline value, and annual targets were revised given that the separate indicators for priority inland wetlands and caves were abolished and subsumed under this indicator to avoid double counting.

^{i/} Baseline and targets were revised to reflect change in scope to include agricultural free patents.

^{j/} Annual targets for 2018-2022 were increased given the recent accomplishments on the issuance of CADTs.

^{k/} Annual targets for 2021-2022 were increased taking into account recent accomplishments.

^{l/} Baseline and targets were revised to reflect the change in metric used to monitor the status of coral reefs (from live coral cover to hard coral cover) in legislated NIPAS-MPAs and other priority coastal and marine conservation areas (i.e., Verde Island Passage and Philippine Rise Marine Resource Reserve) following new DENR-BMB issuances. The scope of monitoring also expanded to cover seagrass beds.

^{m/} The value of the indicator includes both National Integrated Protected Areas System (NIPAS) and the Philippine Rise Marine Resource Reserve. The universe/total area of marine waters is 220,644,600 hectares.

^{n/} Indicator statement, baseline and targets were revised to focus on the 34 legislated NIPAS-MPAs. The baseline and target values reflect the recalibrated and updated figures from Geographic Information System (GIS) mapping conducted by the DENR-BMB.

^{o/} Vis-à-vis the actual number of CFLCs established in the previous year. Annual targets are updated to ensure consistency with the cumulative targets for establishing CFLCs.

^{p/} No numerical targets provided. The value of the indicator is targetted to increase until the End-of-Plan.

^{q/} The baseline value was revised from 47 to 55 percent to reflect verified air quality data. The total number of highly urbanized and other major urban centers is 38.

^{r/} The baseline and 2017 accomplishments were corrected given some inconsistencies in the methodology of counting the total number of eco-labeled products. The annual targets were revised to specify that the plan is to "increase" the number of eco-labeled products.

^{s/} The baseline was changed from 3.29 million to 114,584 due to database cleaning.

^{t/} No numerical targets provided. The rate of increase of the value of the indicator is targetted to increase until the End-of-Plan. Plans reviewed by responsible agencies.

^{u/} Based on the revisited baseline provided by DILG due to lack of tools to mainstream CC/DRR and review CC/DRR-enhanced CDP from 2017-2019. Reporting of CC/DRRM-enhanced CDPs began in 2020.

^{v/} Based on the revisited baseline provided by OCD brought about by change in methodology. From "Increasing", 2020 to 2022 targets were revised to 100 percent. Reporting of reviewed LDRRMPs began in 2018.

^{w/} No numerical targets provided. The value of the indicator is targetted to increase until the end of Plan.

List of Acronyms:

DA - Department of Agriculture

DA-BFAR - DA-Bureau of Fisheries and Aquatic Resources

DA-BSWM - DA-Bureau of Soils and Water Management

DENR - Department Of Environment And Natural Resources

DENR-BMB - DENR-Biodiversity Management Bureau

DENR-EMB - DENR-Environmental Management Bureau

DENR-FMB - DENR-Forest Management Bureau

DENR-LMB - DENR-Land Management Bureau

DENR-MGB - DENR-Mines and Geosciences Bureau

DILG - Department of the Interior and Local Government

DTI - Department of Trade and Industry

MMDA - Metropolitan Manila Development Authority

NAMRIA - National Mapping and Resource Information Authority

NCIP - National Commission on Indigenous Peoples

NWRB - National Water Resources Board

OCD-NDRRMC - Office of Civil Defense - National Disaster Risk Reduction and Management Council

PCEPSDI - Philippine Center for Environmental Protection and Sustainable Development, Inc.