Objectives/Results	Indicator	Baseline [a]	Latest Data						Plan Target [b]	Likelihood of Achieving the PDP target	Responsible Agency [c]	Reporting Entity [d]
CHAPTER 20: ENSURING ECOLOGICAL INTEGRITY, CLEAN AND HEALTHY ENVIRONMENT												

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

Objectives/Results	Indicator	Baseline [a]	Latest Data						Plan Target [b]	Likelihood	Responsible Agency [c]	Reporting Entity [d]
Biodiversity and ecosystem services sustained	Forest Cover increased (Million ha, cumulative) [e]	7.01	7.09	7.11	7.18	7.23	7.23	7.44	Increasing	✓	DENR	NAMRIA
		2015	2017	2018	2019	2020	2021	2022	2022			
Aggregate Outputs												
	Area of denuded and degraded forestlands/ Protected Areas (PAs) decreased (M ha, cumulative) [f]	7.6	7.4	7.3	7.2	7.2	7.1	7.1	7.0	✗	DENR	DENR-FMB, DENR-BMB
		2016	2017	2018	2019	2020	2021	2022	2022			
	Area planted with mangroves increased (ha) [g]	18,730	1,861	1,643	649	193	229	140	1,974	✓	DA	DA-BFAR
		2016	2017	2018	2019	2020	2021	2022	2022			
	Area of forestland under effective management increased (M ha, cumulative) [h]	8.2	8.40	8.54	8.57	8.61	8.71	8.72	8.75	✗	DENR	DENR-FMB
		2016	2017	2018	2019	2020	2021	2022	2022			

Area of terrestrial protected areas (including inland wetlands and caves) under National Integrated Protected Areas System (NIPAS) effectively managed increased (in ha, cumulative) [i]

Objectives/Results	Indicator	Baseline [a]	Latest Data						Plan Target [b]	Likelihood	Responsible Agency [c]	Reporting Entity [d]
	Poor	5,402	5,402	5,402	5,402	5,402	0	0	0	✓	DENR	DENR-BMB
		2016	2017	2018	2019	2020	2021	2022	2022			
	Fair	319,995	319,995	319,995	319,995	268,500	73,776	64,168	5,402	✗	DENR	DENR-BMB
		2016	2017	2018	2019	2020	2021	2022	2022			
	Good	1,258,782	1,258,782	1,258,782	901,813	946,778	1,251,083	1,257,050	319,995	✗	DENR	DENR-BMB
		2016	2017	2018	2019	2020	2021	2022	2022			
	Excellent	72,174	72,174	72,174	429,143	435,673	331,493	335,135	1,330,956	✗	DENR	DENR-BMB
		2016	2017	2018	2019	2020	2021	2022	2022			
	Number of free patents issued increased [j]	57,822	70,901	59,459	52,512	48,895	43,095	39,551	360,000	✗	DENR	DENR–LMB
		2016	2017	2018	2019	2020	2021	2022	2022			
	Number of issued Certificate of Ancestral Domain Title (CADTs) increased [k]	208	39	23	30	28	18	3	72	✓	NCIP	NCIP
		2016	2017	2018	2019	2020	2021	2022	2022			
	Number of Ancestral Domain Sustainable Development and Protection Plan (ADSDPP) formulated	150	11	17	11	2	7	24	34	✓	NCIP	NCIP
		2016	2017	2018	2019	2020	2021	2022	2022			

Objectives/Results	Indicator	Baseline a/	Latest Data						Plan Target b/	Likelihood of Achieving the PDP target	Responsible Agency c/	Reporting Entity d/
	Number of groundwater critical areas with management plan and monitoring wells established	4	2	3	2	2	2	2	12	✔	NWRB	NWRB
		2016	*2017*	*2018*	*2019*	*2020*	*2021*	*2022*	*2022*			
	Number of Major River Basins (RB) with Comprehensive Water Assessment increased l/	2	1	1	1	1	1	1	8	✖	NWRB	NWRB
		2016	*2017*	*2018*	*2019*	*2020*	*2021*	*2022*	*2022*			
	Percentage of Declared Minahang Bayan increased	10	22	48	62	76	94	106	100	✔	DENR	DENR-MGB
		2016	*2017*	*2018*	*2019*	*2020*	*2021*	*2022*	*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	76	78	65	59	100	✖	DENR	DENR-MGB
		2016	*2017*	*2018*	*2019*	*2020*	*2021*	*2022*	*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	77	98	98	98	98	98	100	✖	DENR	DENR-MGB
		2016	*2017*	*2018*	*2019*	*2020*	*2021*	*2022*	*2022*			
	Palawan Quicksilver (Phase II)	0			32.5	52.5	72.5	82.5	92.5	✖	DENR	DENR-MGB
		2016	*2017*	*2018*	*2019*	*2020*	*2021*	*2022*	*2022*			

Sub-chapter Outcome 1.1 (Cont.)

Objectives/Results	Indicator	Baseline a/	Latest Data					Plan Target b/	Likelihood of Achieving the PDP target	Responsible Agency c/	Reporting Entity d/
Biodiversity and ecosystem services sustained	Quality of coastal and marine habitats under NIPAS marine protected areas (MPAs) and other priority coastal and marine conservation areas improved (cumulative) m/										
	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*	*2022*			
	0% to 22% hard coral cover (Poor)	12	11	11	8	7	6	✖	DENR	DENR-BMB
		2018	*2019*	*2020*	*2021*	*2022*	*2022*			
	>22% to 33% hard coral cover (Fair)	11	12	13	13	11	12	✖	DENR	DENR-BMB
		2018	*2019*	*2020*	*2021*	*2022*	*2022*			
	>33% to 44% hard coral cover (Good)	4	4	3	6	6	10	✖	DENR	DENR-BMB
		2018	*2019*	*2020*	*2021*	*2022*	*2022*			
	>44% hard coral cover (Excellent)	7	7	8	9	12	8	✔	DENR	DENR-BMB
		2018	*2019*	*2020*	*2021*	*2022*	*2022*			
	Percentage of seagrass cover in MPAs (in number of MPAs):										
	No available baseline data	11	6	6	3	1	0	✖	DENR	DENR-BMB
		2018	*2019*	*2020*	*2021*	*2022*	*2022*			

Objectives/Results	Indicator	Baseline [a/]	Latest Data						Plan Target [b/]	Likelihood of Achieving the PDP target	Responsible Agency [c/]	Reporting Entity [d/]
	0% to 25% seagrass cover (Poor)	11			11	11	10	8	15	✗	DENR	DENR-BMB
		2018			2019	2020	2021	2022	2022			
	26% to 50% seagrass cover (Fair)	10			12	12	11	13	11	✓	DENR	DENR-BMB
		2018			2019	2020	2021	2022	2022			
	51% to 75% seagrass cover (Good)	3			6	6	9	13	7	✓	DENR	DENR-BMB
		2018			2019	2020	2021	2022	2022			
	76% to 100% seagrass cover (Excellent)	1			1	1	3	1	3	✗	DENR	DENR-BMB
		2018			2019	2020	2021	2022	2022			
Aggregate Outputs												
	Coverage of protected areas in relation to marine areas (%) [n/]	0.64	0.64	1.42	1.42	1.42	1.42	1.40	Maintained	✓	DENR	DENR-BMB
		2016	2017	2018	2019	2020	2021	2022	2022			
Area of MPAs under NIPAS effectively managed increased (ha) [o/]												
	Poor	0	0	0	0	0	0	0	0	✓	DENR	DENR-BMB
		2016	2017	2018	2019	2020	2021	2022	2022			
	Fair	1,439,448	1,439,448	1,439,448	1,439,448	1,427,752	460,680	453,387	0	✗	DENR	DENR-BMB
		2016	2017	2018	2019	2020	2021	2022	2022			
	Good	1,270,775	1,270,775	1,270,775	1,052,039	1,062,814	1,064,906	1,044,032	1,439,448	✗	DENR	DENR-BMB
		2016	2017	2018	2019	2020	2021	2022	2022			
	Excellent	16,491	16,491	16,491	235,227	236,148	1,201,129	1,229,295	1,287,266	✗	DENR	DENR-BMB
		2016	2017	2018	2019	2020	2021	2022	2022			
	Number of coastal municipalities and cities with delineated municipal waters increased (annual)	293	80	80	82	82	80	85	480	✓	NAMRIA	NAMRIA
		2016	2017	2018	2019	2020	2021	2022	2022			
	Number of Community Fish Landing Centers (CFLC) established (cumulative) [p/]	132	35	210	371	418	430	417	Maintained	✓	DA	DA-BFAR
		2016	2017	2018	2019	2020	2021	2022	2022			
	Percentage of new and existing CFLC operationalized [q/]	0	5	29	51	58	59	58	100	✗	DA	DA-BFAR
		2016	2017	2018	2019	2020	2021	2022	2022			

Objectives/Results	Indicator	Baseline [a/]	Latest Data							Plan Target [b/]	Likelihood of Achieving the PDP target	Responsible Agency [c/]	Reporting Entity [d/]

CHAPTER 20: ENSURING ECOLOGICAL INTEGRITY, CLEAN AND HEALTHY ENVIRONMENT

Sub-chapter Outcome 1.2

Objectives/Results	Indicator	Baseline	Latest Data							Plan Target	Likelihood	Responsible Agency	Reporting Entity
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 (%) [r/ and s/]	55	55	50	39	24	29	32		Increasing	⊗	DENR	DENR-EMB
		2016	2017	2018	2019	2020	2021	2022		2022			

Solid waste diversion rate increased (%, cumulative)

	Metro Manila	48	40	45	49	50	52	48		80	⊗	MMDA / DILG, DENR-EMB	MMDA/ DILG, DENR EMB
		2015	2017	2018	2019	2020	2021	2022		2022			
	Outside Metro Manila	46	62	62	69	68	49			80	☹	MMDA / DILG, DENR-EMB	MMDA/ DILG, DENR EMB
		2015	2017	2018	2019	2020	2021	2022		2022			

Aggregate Outputs

Number of public utility vehicles that converted to cleaner fuels increased

	Electric/Hybrid	10	10	10	17	17	17	17		261	⊗	DOTr	LTFRB
		2016	2017	2018	2019	2020	2021	2022		2022			
	Area assessed and mapped for soil fertility status and soil fertility management increased (ha)	1,000,000	1,780,000	286,004	138,520	56,610	184,030			2,700,000	🙂	DA	DA-BSWM
		2016	2017	2018	2019	2020	2021	2022		2022			
	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		2022			
	Number of eco-labeled products increased [t/]	68	75	75	75	75	79	109		Increasing	✔	DTI	PCEPSDI
		2016	2017	2018	2019	2020	2021	2022		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) [u/]	114,584	95,542	69,055	50,474	56,334	42,589	51,220		Increasing	✔	DENR	DENR-FMB
		2016	2017	2018	2019	2020	2021	2022		2022			

Percentage of LGUs with climate and disaster risk-informed plans increased (%) [v/]

	Comprehensive Development Plans (CDPs) [w/]	0					29	27		Increasing	✔	DILG	DILG
		2016	2017	2018	2019	2020	2021	2022		2022			

Objectives/Results	Indicator	Baseline a/	Latest Data							Plan Target b/	Likelihood of Achieving the PDP target	Responsible Agency c/	Reporting Entity d/
CHAPTER 20: ENSURING ECOLOGICAL INTEGRITY, CLEAN AND HEALTHY ENVIRONMENT												
	Local Disaster Risk Reduction and Management Plans (LDRRMPs) x/	0	17	80	74	85	80	80		100	❌	OCD-NDRRMC	OCD-NDRRMC
			2016	*2017*	*2018*	*2019*	*2020*	*2021*	*2022*	*2022*			
	Number of LGUs with fully-functional Disaster Risk Reduction and Management (DRRM) operations centers increased y/												
	Permanent	775	772	633	890			1,162		Increasing	✔️	DILG	DILG
			2016	*2017*	*2018*	*2019*	*2020*	*2021*	*2022*	*2022*			
	Temporary	810	868	674	789			439		Increasing	❌	DILG	DILG
			2016	*2017*	*2018*	*2019*	*2020*	*2021*	*2022*	*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/ No numerical targets provided. The value of the indicator is targetted to increase until the end of Plan.

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

g/ 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).

h/ 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.

i/ 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.

j/ Baseline and targets were revised to reflect change in scope to include agricultural free patents.

k/ Annual targets for 2018-2022 were increased given the recent accomplishments on the issuance of CADTs.

l/ Annual targets for 2021-2022 were increased taking into account recent accomplishments.

m/ 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.

n/ 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.

o/ 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.

p/ The indicator statement was revised to monitor the cumulative value over the years instead of incremental changes. Annual targets were revised to reflect the adjusted and extended implementation period for the establishment of CFLCs.

q/ 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.

r/ No numerical targets provided. The value of the indicator is targetted to increase until the End-of-Plan.

s/ 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.

t/ 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.

u/ The baseline was changed from 3.29 million to 114,584 due to database cleaning.

v/ 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.

w/ 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.

x/ 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.

y/ 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 - Department of Agriculture - Bureau of Soils and Water Management
DENR - Department of Environement and Natural Resources
DENR-BMB - DENR-Biodiversity Management Bureau
DENR-EMB - DENR-Environment 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

DOTr - Department of Transportation
DTI - Department of Trade and Industry
LTFRB - Land Transportation Franchising and Regulatory Board
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 the Civil Defense-National Disaster Risk Reduction and Management Council
PCEPSDI - Philippine Center for Environmental Protection and Sustainable Development, Inc.