

Transparency in the Energy Sector Philippines

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NICCDIES

National Integrated Climate Change Database Information and Exchange System

Envisioned to be an **integrated climate information portal** to track the actions necessary to address climate change issues.

Aims to consolidate and monitor, among other things, data and information on climate change actions and support.



NICCDIES

National Integrated Climate Change Database Information and Exchange System

NICCDIES platform launched May 2018.

• Other modules are either currently being developed or are yet to start.



STATUS: NICCDIES (modules concerning the energy sector)

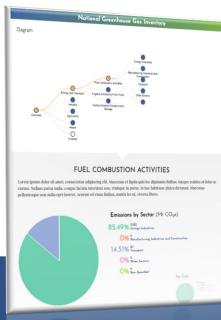
NICCDIES MODULE	STATUS
GHG Inventory	Development is almost finished, with minor revisions
Transparency for NDC Actions (Mitigation & Adaptation)	There is existing tool for MRV of mitigation actions; for enhancement. No framework or tool yet for MRV of adaptation actions.
Transparency of support	No framework yet.
Climate change expenditure tagging	DONE.

NICCDIES

National Integrated Climate Change Database Information and Exchange System

https://www.niccdies.ph







Greenhouse Gas Inventory

Energy and Transport Sector

Executive Order 174 (s. 2014) – Institutionalizing the Philippine Greenhouse Gas Inventory Management and Reporting System

• Established the Philippine GHG Inventory Management and Reporting System in relevant government agencies to enable the country to transition towards a climate-resilient pathway for sustainable development.



Greenhouse Gas Inventory

Energy and Transport Sector

Executive Order 174 (s. 2014) – Institutionalizing the Philippine Greenhouse Gas Inventory Management and Reporting System

The Climate Change Commission (CCC) shall develop a system for the archiving, reporting, monitoring, and evaluating GHG inventories in all key sectors.



Roles

Climate Change Commission – overall lead in the implementation of the executive order

Lead agencies:

- Department of Energy for the energy sector
- Department of Transportation for the transport sector
- Department of Agriculture and the Philippine Statistics Authority for the agriculture sector
- Department of Environment and Natural Resources for the forestry, waste, and industrial processes sectors



Greenhouse Gas Inventory

Energy and Transport Sector

January 2018

• Institutionalization of the GHG Inventory Team of the Transport Sector (Air, Rail, Water, and Road)

March 2018

• Institutionalization of the GHG Inventory Team of the Energy Sector

September 2018

• Self-assessment on the conduct of GHG inventory for the energy sector

October 2018

• Official submission to the CCC of the 2010 GHG Sectoral Inventory for the Energy and Transport Sectors

May 2019

QA/QC workshop with UNFCCC



MRV tool for energy sector mitigation actions

The Philippine Department of Energy has an existing MRV template, which is currently being reviewed and enhanced further.

Formulation of the MRV templates for other sectors including **transport** is ongoing.

Both MRV templates would be reflected eventually in the NICCDIES.



MRV tool

	Annotation	Example 1 (Renewable Energy (RE) > Solar RE)	Sample Notes/Comments from Preparer
Period covered:	State the evaluation period for actual implementation of mitigation action(s)	January 1, 2020 - Dec 31, 2020	TOWN ISPACE.
Title of the Overarching Policy, Plan, or Program:	Name of the main policy, plan, or program that govern the implementation of the GHG mitigation strategy/action	National Renewable Energy Program (NREP), as enshrined in the Renewable Energy Act (RA 9513)	Includes all incentives, actions, plans under RA 9513
Description of the Policy, Plan, or Program	Describe the overall policy or program and its features, including targets, start and end dates, components and/or activities, coordinating/managing agencies/entities, funding, etc.	In accordance with HA 9513, the Department of Energy (DOE) led the formulation of NREP in consultation with energy sector stakeholders. The NREP seeks to increase the RE-based capacity of the country to an estimated 15,304 MW by the year 2030, almost triple its 2010 level. On a per technology basis, the NREP intends to: increase geothermal capacity by 75.0 percent; - norease hydropower capacity by 75.0 percent; - deliver additional 277 MW biomass power capacities; - attain wind power grid parity with the commissioning of 2,345 MW additional capacities; - mainstream an additional 284 MW solar power capacities and work towards achieving the aspirational target of 1,528 MW; - develop the 1st opean energy facility for the country.	Targets based on current NREF which is currently under review. Targets may change in the future.
_evel of Assessment	out across the entire policy/program or delimited to a specific a) Whole Program	b) Specific Component/Action	
Specific Action(s) and/or Technology(ies) being Assessed	b) Specific Component/Action with answer to "cereor Assessment is /a/, state "WA". Otherwise, state which particular action or technology is being	Solar Renewable Energy	
Description of the Specific Action(s) and/or Technology(ies) being Assessed Also describe the particular action assessed. Also describe the this specific actions as the specific action action.		or concentrating solar power (CSP), whether grid- connected or offgrid, or ground-mounted or at rooftops of homes and buildings. Initial incentives provided were FIT	Reference: Annual Report 2020 of DOE- REMB Solar Division
	Also describe the specific target(s) for this specific action or technology, if any.	Per NREP, specific target is to mainstream an additional 284 MW solar power capacities and work towards achieving the aspirational target of 1,528 MW by 2030.	based on records from solar energy developers reconciled with NGCP data
mplementing Entity(ies)	Agency(ies) and organization(s) implementing the action, including the role of sub-national, national, and	DOE, ERC, Solar Energy Developers, Other regulatory agencies issuing permits to solar energy power projects	-recordied with Noor data
Geographical Coverage	State the geographic/administrative area where the technology or action is implemented, promoted, or enforced: a) Nationwide coverage b) Island cluster/orid (Luzon-Visavas.	a) Nationwide coverage	



c) Selected areas

MRV tool

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GHG Impacts:	MRV Template: Implemented /	hitigation Actions		
Gases Covered	State whether gases covered in the evaluation include CO2, CH4, and/or	Fuzmele 1/F	CO2	mens Quarter DE) 5
EFg , Luz-Vis grid	Combined grid emission factor used,	0.5535	5 tCO2e/MW	Reference: Combined grid EF i
EFg, Min grid	tCO2e/MWh			/ tCO₂/MWh, for 2009-2011
EG, Luz-Vis grid	Annual electricity generation of RE	ation of mitigation action(s) 920,851		r Reference: Dependable
EG, Min grid	projects per year, per grid, MWh/yr	he main policy, plan, or program ar		r capacity, MW * Capacity Factor
BE, Luz-Vis grid	Baseline emissions, per grid,	the implementation of the 509,691,10		r Using DOE's MA assessment
BE, Min grid	tCO2e/yr	ston strategy/action 23,577.20		r Using DOE's MA assessment
BE, Total	Total baseline emissions tCO2e/yr	533,268.30	WITH OUT OF U	LL: DOC! MA
PE, Luz-Vis grid	Project emissions, per grid,	0	1 tCO2e/yr	r Using DOE's MA assessment
PE, Min grid	tCO2e/yr	0		r Using DOE's MA assessment
ER, Luz-Vis grid	Emission reduction, per grid,	509,691.10		r Using DOE's MA assessment
ER, Min grid	tCO2e/vr	23.577.20		r Using DOE's MA assessment
	Total emission reduction			Harander-MA
ER, Total	tCO2e/yr	stes, components and/or 533,268.30	tCO2elyr	Using DUE's IMA assessment tool
Non-6H6 Benents:	agencies/			ith the commissioning of
Employment	Itemize jobs created, supported (quantify and disaggregated according to contstruction/O&M, if possible)	34,000 green job		Based on IRENA Report (Neri 2018)
Resilience	Itemize impacts on resilience of energy infrastructures/systems to climate change (quantify if possible)	Solar energy is used whenever there is a need provision of electricity in typhoon-hit areas who eing rehabilitated.	Metrics on the impact of solar RE on resilience is still being developed.	
Air Quality	Itemize the contributions of the action(s) to ambient and/or indoor air quality improvement	ComponentiAction ### University #955950/################################	Metrics on the impact of solar A RE on air quality is still being developed.	
Others (Flease specify):	Itemize and/or quantify other applicable co-benefits to the program or action.		N/A	To be determined as soon as more information becomes
lssues/Challenges		Data from NGCP more accurately represents electricity supplied by solar RE projects; In lieu Solar Division has information on dependable		
	Enumerate further support required (needed), requested, and received for			
Further Support:		Use of blockchain for ease in reporting and submission earnesting or action to the proposed or enforced.		
_	Coverage a) Nationw			
Crosscutting or	Mention/identify other policies, plans,	adaras	Lareas	
Related Policies, Programs, or	programs, actions or technologies that may interact or cut across the specific	The action/strategy may interact with plans/projects of the Transport Sector to promote solar-powered vehicles.		Need to cross-check specific interventions/targets of DOTr



Strategies

Climate Change Expenditure Tagging

Policy context: Department of Budget and Management – Climate Change Commission (DBM-CCC) Joint Memorandum Circular 2015-01 – Revised guidelines for Climate Change Expenditure Tagging

Institutionalizing climate change expenditure tagging in the various stages of budgeting process.

To track, monitor and report climate change programs, projects and activities to enable oversight and department line managers to monitor climate change-related expenditures.

National and subnational climate change expenditure tagging are also components of the NICCDIES.



Climate Change Expenditure Tagging

Department of Energy: 2016 Data



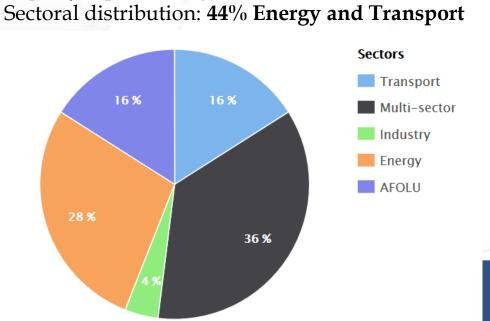
Climate Change Expenditure Tagging

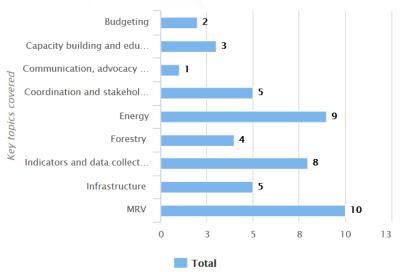
Department of Energy: 2016 Data



NDC Partnership Philippines Request for Support

25 requests 48% mitigation; 40% cross-cutting; 12% adaptation Top key topics: **Energy and MRV**





Thank You!

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