





Initiative for Climate Action Transparency - ICAT



PROCEDURES MRV SYSTEM FOR RENEWABLE ENERGY POLICY CAMBODIA









Initiative for Climate Action Transparency - ICAT -

MEASUREMENT, REPORTING AND VERIFICATION SYSTEM FOR RENEWABLE ENERGY POLICY IN CAMBODIA

DELIVERABLE 3:1 PROCEDURES FOR THE MRV SYSTEM OF RENEWABLE ENERGY (REVERSE AUCTION) POLICY IN CAMBODIA

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The Royal Government of Cambodia (RGC), being an important player to tackle the adverse effects of climate change and to reduce global warming, ratified the United Nations Framework Convention on Climate Change (UNFCCC) in 1995 and the Paris Agreement in 2017. The country also submitted its Nationally Determined Contributions (NDCs) to UNFCCC in 2017.

Increasing the share of renewable electricity, especially through the introduction of grid-connected solar PV systems, is one of the mitigation actions proposed by RGC in its NDC to UNFCCC. Having an Internationally recognized and transparent system for the Measurement, Reporting and Verification (MRV) to evaluate the Greenhouse Gas (GHG) effect of such mitigation action is an essential requirement.

UNEP DTU Partnership is providing technical assistance to RGC under this ICAT project, which aims to design an MRV system for a selected renewable energy policy in Cambodia, which will support to improve transparency and capacity building in the country. A Team of National Experts, and International Experts of Climate Smart Initiatives (Pvt) Ltd (ClimateSI) was selected to support the Cambodian team with the project.

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General Secretariat of the National Council for Sustainable Development









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1 PROCEDURE for DATA MONITORING at EDC - P1

RE type: Solar

Policy type: Competitive bidding – Reverse Auction policy

Procedure: P1_PRS_EDC

Approved by:

OVERVIEW

Roles and responsibilities of the personnel involved in monitoring and reporting of data required for analysing the GHG effect of reverse auction policy are outlined in this procedure. The procedure shall serve as a manual to describe in the activities to be carried out to ensure comprehensive and accurate monitoring, reporting and verification (MRV) of the project activity.

Measure to be taken only once over the assessment period (2021-2030)

1. MRV focal point of the EDC shall fill the following data tables in monitoring logbook once over the assessment period

Table 1-1 Data monitoring template on auction demand and auction design

Year	Policy implementation		
Name of the policy			
	Stand-alone policy	Description	
Policy type	Systematic auctioning policy	Description	
	Other	Description	
	Technology-neutral auction	Description	
Auction type	Technology-specific auction	Description	
	Other	Description	
Filled by			
Approved by			
Date			









Table 1-2 Data monitoring template on qualification requirement

Longevity of the power purchase			Years		
agreement					
Qualification requirements					
1	Required qualifications to				
	apply for the auction				
2	Required financial				
	qualifications				
3	Resource Availability				
	Feasibility study has	Yes		No	
	conducted				
	Land provided by the EDC	Yes		No	
	Transmission access	Yes		No	
	provided by the EDC	1 00			
5	Instruments to promote				
	local socio-economic				
	development				
Filled by					
Approved by					
Date					

Table 1-3 Data monitoring template on winner selection process

Winner selection process				
1	Name of the project			
2				









	What is the bidding procedure for the auction	
3	What are the requirements of minimal competition	
4	What are the winner selection criteria	
5	What are the clearing mechanism and marginal bids	
6	Payment to the auction winner	
Filled	by	
Appro	oved by	
Date		

Table 1-4 Data monitoring template on contract signed by the seller

Sellers' contractual liability requirements		
Name of the project		
Commitments to the signed contract		
Contract schedule		
Remuneration profiles and financial risks		
Nature of the quantity liabilities		
Settlement rules and underperformance penalties		
Delay and underbuilding penalties		









Filled by	
Approved by	
Date	

Table 1-5 Data Monitoring Templates on Electricity tariff data

Electricity tariff for solar power	
(USD/kwh)	
(Average value for assessment period)	
Filled by	
Approved by	
Date	









Annual Activities

2. MRV focal point of the EDC shall fill the following data tables in monitoring logbook annually.

Table 1-6 Data monitoring template on actual solar installed capacity under the policy

Year	
Installed solar capacity or solar	
capacity addition (MW)	
Filled by	
Approved by	
Date	

Table 1-7 Data monitoring template on net electricity supplied to the grid

Year	
Quantity of electricity exported to the grid	MWh
Quantity of electricity imported from the grid	MWh
Net electricity supplied to the electricity grid from solar	MWh
power plant	
Filled by	
Approved by	
Date	

- 3. Completed data collection templates shall be approved by the officer in charge of the respective department.
- 4. Based on the requirement, completed data collection template/logbook shall be submitted to the data collection team of the existing working group at the Ministry of Mines and Energy









2 PROCEDURE for DATA MONITORING at EAC - P2

RE type: Solar

Policy type: Competitive bidding – Reverse auction policy

Procedure: P2_PRS_EAC

Approved by:

OVERVIEW

Roles and responsibilities of the personnel involved in monitoring and reporting of data required for analysing the GHG effect of reverse auction policy are outlined in this procedure. The procedure shall serve as a manual to describe in details the activities to be carried out to ensure comprehensive and accurate monitoring, reporting and verification (MRV) of the project activity.

Measure only once over the assessment period (2021-2030)

1. MRV focal point of the EAC shall fill the following data tables in monitoring logbook once over the assessment period

Table 2-1Data monitoring template on actual electricity demand and T&D loss

Year ¹			
T&D loss (%)			
Electricity demand (GWh)			
Filled by			
Approved by			
Date			

¹ At least for five years prior to the base year of the assessment



_







Table 2-2 Data monitoring template on electricity generation

Electricity generation	Solar
technology	
Year	
Annual Capacity factor (%)	
Levelized Cost of Electricity	
(USD/kWh)	
Filled by	
Approved by	

Table 2-3 Data monitoring template for consumer tariff

Year			
Consumer tariff of electricity			
(USD/kwh)			
Filled by			
Approved by			

Note: If consumer tariffs are available for the assessment period, officers may use the values directly. If the values are not available, may use past values after studying the fluctuations. Officers may use last available value if the past years values are continuously increasing. If the past values are varies, officer may use an average value.









Annual Activities

2. MRV focal point of the EAC shall fill the following data tables in monitoring logbook annually.

Table 2-4 Dada monitoring template for emission factor

Grid emission factor		tCO ₂ e/MWh
	Generation	GHG emissions
Electricity generation technology	(GWh)	(tCO ₂ e)
Coal		
Hydro power		
Fuel oil		
Solar		
Wind		
Biomass		
Total		
Filled by		
Approved by		
Date		

- 2. Completed data collection templates shall be approved by the officer in charge of the respective department.
- 3. Based on the requirement, completed data collection template/logbook shall be submitted to the data collection team of the existing working group at the Ministry of Mines and Energy









3 PROCEDURE for DATA MONITORING at MME – P3

RE type: Solar

Policy type: Competitive bidding – Reverse auction policy

Procedure: P3_PRS_MME

Approved by:

OVERVIEW

Roles and responsibilities of the personnel involved in monitoring and reporting of data required for analysing the GHG effect of reverse auction policy are outlined in this procedure. The procedure shall serve as a manual to describe in details the activities to be carried out to ensure comprehensive and accurate monitoring, reporting and verification (MRV) of the project activity.

Measure only once over the assessment period (2021-2030)

1. MRV focal point of the MME shall fill the following data tables in monitoring log book

Table 3-1 Data monitoring template for policy cap

Year	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Electricity										
demand _Projected ²										
(GWh)										
Recorded by										
Approved										
by										
Date										

² For the assessment period (e.g.: 2021 -2030)









Table 3-2 Data monitoring template on electricity demand (Projected)

Year ²	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Policy cap (MW)										
Recorded by										
Approved by										
Date										

Table 3-3 Data monitoring template for T&D values (Projected)

Year	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
T&D loss -										
Projected ²										
(%)										
Recorded										
by										
Approved										
by										
Date										

Table 3-4 Data monitoring template to analyze the technical barriers to promote RE technologies

Type of RE technology	Solar					
Barrier category	Technical barriers					
Note Severity – 1 for lowest im	pact, 5 for h	ighest impact				
Barrier	Existence of the barrier	Description about the barrier	Severity of the barrier to policy according to expert judgment	Severity of the barrier to policy according to other stakeholders	Availability of policies that may help to overcome barriers	









Technical standards (e.g., uniform engineering or technical criteria, methods, processes and practices) are lacking for some RE technologies			
Lack of sufficient technology providers			
Insufficient transmission and distribution infrastructure to connect new RE capacity to the grid, especially where RE resource potential is highest			
Other			
Filled by		_	_
Approved by			
Date			

Table 3-5 Data monitoring template to analyze the regulatory and policy barriers to promote RE technologies

Type of RE technology	Solar									
Barrier	Regulatory	Regulatory and policy uncertainty								
category										
Note										
Severity – 1 for	r lowest imp	act, 5 for highe	est impact							
Barrier category	Existenc e of the barrier	Descriptio n about the barrier	Severity of the barrier to policy according to expert judgment	Severity of the barrier to policy according to other stakeholders	Availability of policies that may help to overcome barrier					
Insufficient										
clarity of										
policies										
(existing /										
under										
development										









Insufficient			
transparency			
of			
regulations			
(Existing /I			
under			
development			
)			
Other			
Filled by			
Approved			
by			
Date			

Table 3-6 Data monitoring template to analyze the Institutional and administrative barriers to promote RE technologies

Type of RE technology	Solar								
Barrier category	Institutiona	Institutional and administrative							
Note Severity – 1 for lowest impact, 5 for highest impact									
Barrier	Existence of the barrier of the barrier to policy according to expert judgment of the barrier or policies that may help to overcome barrier								
Lack of strong and dedicated institutions to carry out policies									
Permits for new RE plants are difficult to obtain									
Approval procedures are lengthy and cumbersome									
Lack of spatial planning for RE									









Unclear			
procedures and			
responsibilities			
and/or complex			
interactions and			
lack of			
coordination			
between various			
authorities			
involved			
Other barriers in			
the energy			
system, such as			
existing			
industry,			
infrastructure			
and energy			
market			
regulation/			
intellectual			
property rights/			
tariffs on			
international			
trade/ allocation			
of government			
financial support			
Filled by			
Approved by			
Date			

Table 3-7 Data monitoring template to analyze the Market barriers to promote RE technologies

Type of the RE technology	Solar				
Barrier category	Market bar	riers			
Note Severity – 1 for lowest im	pact, 5 for h	ighest impact			
Barrier	Existenc e of the barrier	Descriptio n about the barrier	Severity of the barrier to policy according to expert judgment	Severity of the barrier to policy according to other stakeholders	Availability of policies that may help to overcome barrier
Inconsistent pricing structures that put renewables at a disadvantage					
Asymmetrical information between market actors					









Market power and subsidies for fossil			
fuels			
Blockage of incumbent			
actors and limited			
access of new actors to			
the market			
Import tariffs and			
technical barriers that			
impede trade in			
renewables			
Access to market			
Other			
Filled by			
Approved by			
Date			

Table 3-8 Data monitoring template to analyze the financial/ budgetary barriers to promote RE technologies

Type of RE technology	Solar				
Barrier category	Financial/ I	Financial/ Budgetary			
Note Severity – 1 for lowest im	pact, 5 for hi	ighest impact			
Barrier category	Existenc e of the barrier	Descriptio n about the barrier	Severity of the barrier to policy according to expert judgment	Severity of the barrier to policy according to other stakeholders	Availabilit y of policies that may help to overcome barrier
Absence of adequate funding opportunities and financing products for RE					
Financing is unreasonably costly for RE technologies					
Concerns about possible devaluation of assets					
Disproportionately high transaction costs in relative terms					
Available Total budget					
Other					









Filled by	
Approved by	
Date	

Table 3-9 Data monitoring template to analyze the Infrastructure barriers to promote RE technologies

Type of RE technology	Solar				
Barrier category	Infrastructure barriers				
Note Severity – 1 for lowest in	ipact, 5 for higi	hest impact			
Barrier category	Existence of the barrier	Description about the barrier	Severity of the barrier to policy according to expert judgment	Severity of the barrier to policy according to other stakeholders	Availability of policies that may help to overcome barrier
Lack of flexibility of the energy system (i.e., of the electricity grid to integrate or absorb RE)					
Energy markets are not prepared for RE (i.e., integration of intermittent energy sources, grid connection and access is not fairly provided)					
Higher grid connection costs for RE					
Other					
Filled by					
Approved by					
Date					









Table 3-10 Data monitoring template to analyze the impact of lack of awareness and skilled personnel to promote RE technologies

Type of RE technology	Solar				
Barrier category	Lack of awareness of RE and skilled personnel				
Note Severity – 1 for lowest im	pact, 5 for h	ighest impact			
Barrier category	Existenc e of the barrier	Descriptio n about the barrier	Severity of the barrier to policy according to expert judgment	Severity of the barrier to policy according to other stakeholders	Availability of policies that may help to overcome barrier
Insufficient knowledge about availability, benefits and performance of renewables					
Insufficient numbers of skilled workers and lack of training and education					
Lack of general information and access to data relevant to RE deployment (i.e., deficient data about natural resources)					
Lack of experience and expertise among the relevant stakeholders, including project sponsors and power producers, investors and financiers, and regulators and authorities					
Other					
Filled by					
Approved by Date					









Table 3-11 Data monitoring template to analyze the impact of Public acceptance and environmental barriers to promote RE technologies

Type of RE technology	Solar				
Barrier category	Public accept	Public acceptance and environmental barriers			
Note Severity – 1 for lowest in	npact, 5 for hig	ghest impact			
Barrier category	Existence of the barriers	Descriptio n about the barrier	Severity of the barrier to policy according to expert judgment	Severity of the barrier to policy according to other stakeholders	Availability of policies that may help to overcome barrier
Lack of research into the more complex interactions between RE technologies and the environment Competition with other interests in the geographic area, such as fishing, shipping and aviation, recreational use of land, archaeological and historical heritage interests, civil and military airport interests					
Other					
Filled by					
Approved by					
Date					









Table 3-12 Data monitoring template to analyze the global trends in cost of different technologies

Year		
Electricity generation technology		Levelized Cost of Electricity (LCOE) (USD/kWh)
Coal		
	Diesel	
Petroleum fuel	HFO	
1 choleani fuei	Furnace oil	
	Other	
Solar		
Hydro		
Wind		
Biomass		
LNG		
Filled by		
Approved by		
Date		

Table 3-13 Data monitoring template to analyze the public perspective on the proposed technology

Past years yr	(At least 5 s.)				
Electricity generation technology	Project name	Previous electricity source of the targeted customers (Grid, off grid solar, off grid hydro, etc.)	Number of applicants for the tender	Any reported protest against the project	Any reported court cases against the project
T.					
Coal					
Wn					
Petroleum fuel					
Pe					
ar					
Solar					









2			
Hydro			
H			
pu			
Wind			
lass			
Biomass			
Bi			
Filled by			
Approved			
by			
Date			

Table 3-14 Data monitoring template to analyze effect of policies (existing & proposed) on promoting RE technologies

Policies that have in	Policies that have impact on assessment period					
Policy	Availability	Applicability to the RE technology	Description			
Emission trading programmes						
Tax (Energy or carbon)						
Subsidies for electricity generation technology or for fuel						
Filled by						
Approved by						
Date						









Table 3-15 Data monitoring template to collect data on energy regulations

Name of the policy/law	Affected period	Objective of the policy/law	Description (effect of the policy/law, such as mandatory closing of inefficient plants, quotas for fuel,
Filled by			
Approved by			
Date			

Table 3-16 Data monitoring template to analyze the national energy generation potential

National energy generation potential (Trends for the assessment period)										
Energy generation potential (MW) of natural resource	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Coal										
Hydro										
Solar										
Wind										
Biomass										
Filled by										
Approved by										
Date										









Annual Activities

2. MRV focal point of the MME shall fill the following data tables in monitoring log book annually

Table 3-17 Data monitoring template to collect historical and projected fuel price

Year					
Oil price					
(USD/ton)					
Coal price					
(USD/ton)					
Biomass price					
(USD/ton)					
Filled by					
Approved by					
Date					

Table 3-18 Data monitoring template to analyze the investment in electricity generation technologies

Year			
Electricity generation technology	Project Name	Generation Capacity (MW)	Investment (USD)
Coal	Total		
Petroleum fuel	Total		
Solar	Total		
Hydro	Total		









p		
Wind		
>		
	Total	
Biomass		
Ä		
Bic		
	Total	
Filled by		
Filled by Approved		
by		
Date		

Table 3-19 Data monitoring template to analyze the status of abundance of natural resources

Year		
Natural resource	Energy generation potential (MW)	Description (Availability of the resource)
Coal		
Hydro		
Solar		
Wind		
Biomass		
Filled by		
Approved by		
Date		

Table 3-20 Data monitoring template to analyze the current natural resource consumption of the country

Year		
Name of the power plant	Type of the power plant (Fossil fuel/solar/hydro/etc.)	Description









Filled by	
Approved by	
Date	

Table 3-21 Data monitoring template to analyze the system changes to accommodate higher share of variable renewable

Year		
System changes	Availability	Description
Demand-side management		
Energy efficiency and demand reduction policies		
T&D infrastructure (Including interconnection)		
VRE in grid codes		
Electricity markets (Capacity market mechanisms, and market-based measures for energy storage and demand-side management)		
Filled by		
Approved by		
Date		

- 3. Annual average capacity factor (Planned) of solar technology?
- 4. Completed data collection templates shall be approved by the officer in charge of the respective department.
- 5. Based on the requirement, completed data collection template/logbook shall be submitted to the data collection team of the existing working group at the Ministry of Mines and Energy









4 PROCEDURE for DATA MONITORING at POWER PLANT/IPPs (RE TECHNOLOGIES) – P4

RE type: Solar

Policy type: Competitive bidding – Reverse auction policy

Procedure: P4 PRS PD RE

Approved by:

OVERVIEW

Roles and responsibilities of the personnel involved in monitoring and reporting of data required for analysing the GHG effect of reverse auction policy are outlined in this procedure. The procedure shall serve as a manual to describe in details the activities to be carried out to ensure comprehensive and accurate monitoring, reporting and verification (MRV) of the project activity.

Measure only once over the assessment period (2021-2030)

1. MRV focal point/environment officer of the power plant/project shall fill the following data tables in the monitoring log book

Table 4-1 Data monitoring template on financial and technical characteristic of power plant

Year		
RE technology		Solar
Project/Plant name		
Parameter	Value	Unit
Number of working hours of the power plant		Per day
Annual average operational days of the power plant		Days
Filled by		
Approved by		
Date		









If Levelized Cost of Electricity (LCOE) is not available, please fill the following table

Table 4-2 Data monitoring template on LCOE

Year	
RE technology	
Project /plant name	
Investment expenditure	USD
Annual O&M cost	USD
Electricity generation	MWh
Economic lifetime of the	
system	Years
Power generation capacity of the system	MW
Capacity factor	%
Discount rate/Weighted Average Cost of Capital	
(WACC)	%
Filled by	
Approved by	
Date	

If discount rate or weighted average cost of capital (WACC) is not available, please fill the following table

Table 4-3 Data monitoring template on WACC

Year	
RE technology	
Project /plant name	
Cost of equity	
Percentage of financing that is equity	
Cost of debt	
Percentage of financing that is debt	
Corporate tax rate	
Filled by	
Approved by	
Date	









- 2. Completed data collection templates shall be approved by the officer in charge of the power plant/project.
- 3. Based on the requirement, completed data collection template/logbook shall be submitted to the data collection team of the existing working group at the Ministry of Mines and Energy

