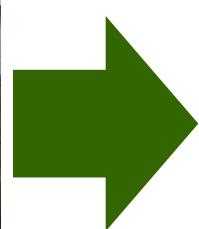


# Climate Mitigation Projects implementation will contribute to SDGs goal achievement

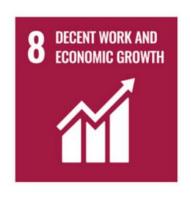




Theoretically climate mitigation projects will contribute to the sustainable development, how to measure it?















# CDM case: we measure SD implementation by 1 step



- Clean development Mechanism (CDM) in Indonesia has been implemented since 2008.
- Number of Indonesian projects registered on UNFCCC:
   156 projects.
- The number of Indonesian projects that have issued carbon credits is 49 projects with a total of 34,345,675 tons of CO2 carbon credits (2021 April status).
- There is **no new project since 2012**.
- Sustainable Development criteria implementation is one of the most important process of CDM implementation in Indonesia.
- Project participant must declare their project plan in front of CDM National Committee (Indonesia Designated National Authority/DNA) meeting.
- The CDM National Committee may assess the project participant implementation directly in the field.

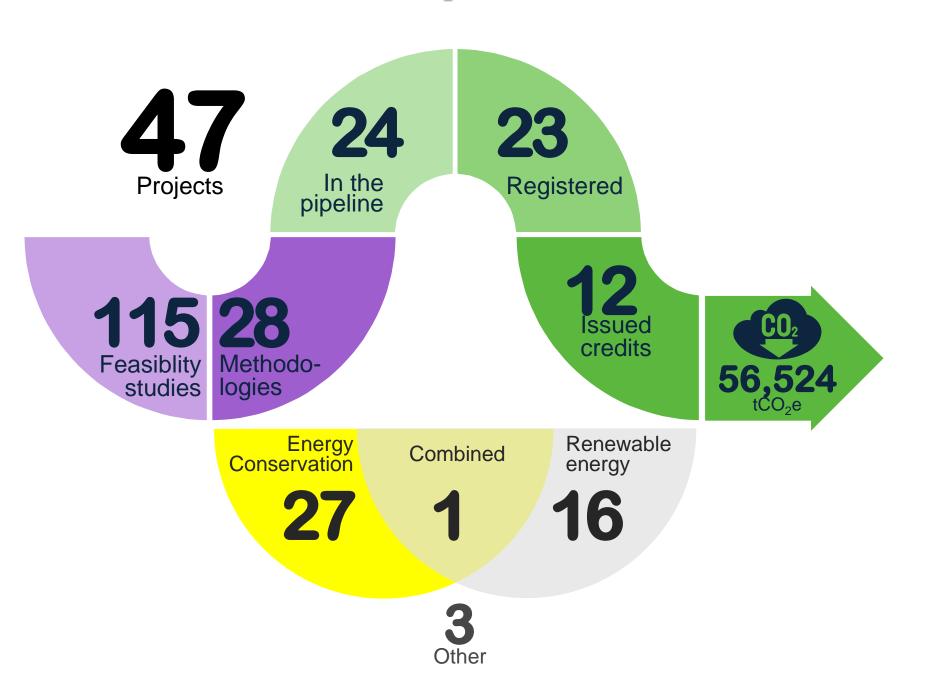
## CDM SD criteria (1)

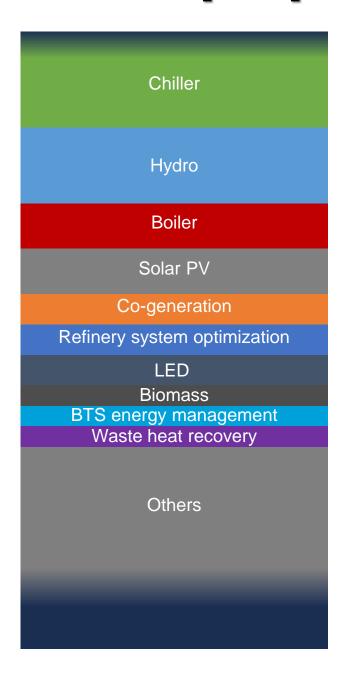
Susta	Assessment Criteria [Values]					
Criteria	Indicator	1	2	3	4	5
L. Environment Sustain	ability					
L. 1 Environmental sustainability by conserving or diversifying the use of natural resources	L.1.1. Local ecology function sustainability  L.1.2. Does not exceed the environmental quality threshold  L.1.3. No genetic contamination  L.1.4.					
L.2 Safety and health of local community	Spatial conformity L.2.1. Does not interfere with health L.2.2. Work safety L.2.3. Accident prevention efforts					
E. Economic Sustainabi	lity	I				
E.1. Local community welfare criteria	E.1.1.  Welfare of the surrounding  community  E.1.2.  Anticipate the decline in people's  income					

## CDM SD criteria (2)

Sustainable Development		Assessment Criteria [Values]					
Criteria	Indicator	1	2	3	4	5	
	E.1.3. Follow layoff rules						
	E.1.4. Do not reduce public services						
S. Social Sustainability							
S.1.	S.1.1. Public consultation process						
Community participation	S.1.2. Follow up of public consultation comments						
S.2. The project does not damage the integrity social community	S.2.1. Social conflict						
T. Technology Sustaina	bility						
	T.1.1. No dependency						
T.1. Technology transfer	T.1.2. Not experimental technology						
takes place	T.1.3. Capacity building and utilization						

## SD have been implemented in Indonesia JCM projects





## JCM scheme MRV system

Project Participant / Each
Government
Joint Committee

Submission of Proposed Methodology

**Joint Committee** 

Approval of Proposed Methodology

**Project Participant** 

Development of PDD\*

Third Party Entities

**Validation** 

**Joint Committee** 

Registration

**Project Participant** 

Monitoring

Third Party Entities

Verification

Joint Committee decides the amount Each Government issues the credit

Issuance of credits

SD criteria implementation measurement is one of the most important processes

Measurement



Reporting

**V**erification

by the same TF simultaneously conducted conducted be be

\*PDD: Project Design Document

# **ISO 14065 base**

## JCM Indonesia infrastructures development

Since JCM establishment in 2013, it has developed several guidelines, procedure, rules, registry system and methodologies

#### **Guideline:**

- 1. Project Design Document
- 2. Proposed Methodology
- 3. Third Party Entity
- 4. Validation and Verification
- 5. Sustainable
  Development
  Implementation Plan
  and Report
  (Indonesia's specific
  JCM guidelines)

Rules: 1. Rules of Implementation

2. Rules of Procedure for JC

**Procedure:** Project Cycle Procedure

### Methodologies:

22 methodologies of energy efficiencies and renewable energy have been developed

#### Registry System:

We have developed the first climate change mitigation registry system in Indonesia, and it is expected to connect with the National Registry

## Indonesia JCM contribution to SD



SDIP is a set of criteria utilized to assess the contribution of JCM Projects to sustainable development, planned based on ex-ante analysis





Safety & Health



Natural Environment & Biodiversity





**Economy** 

Social Environment &. Community Participation



SDIR is a report on achievement of SDIP implementation for a specific monitoring period, based on ex-post evaluation

## The urgency of SDIP and SDIR implementation

To fulfil the JCM implementation objectives:

- 1. Facilitate diffusion of leading low carbon technologies, products, systems, services, and infrastructure;
- 2. Implementation of mitigation actions;
- 3. Contributing to sustainable development in developing countries.

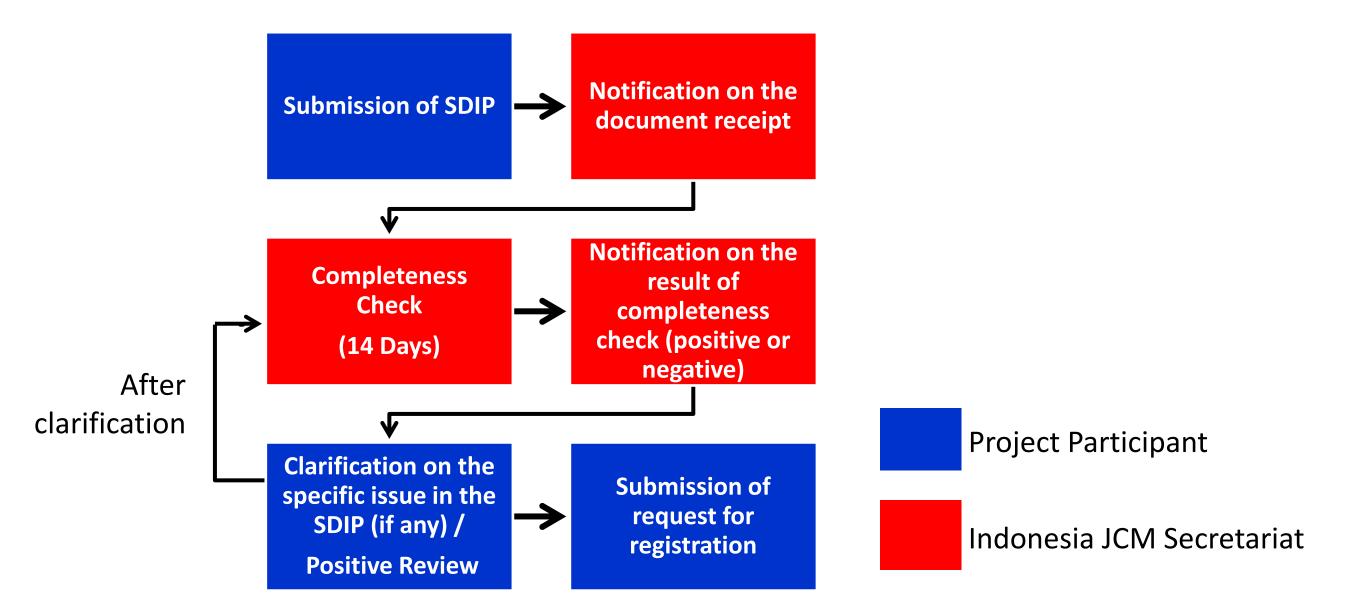


SDIP/SDIR implementation is expected to ensure these objectives are achieved, through:

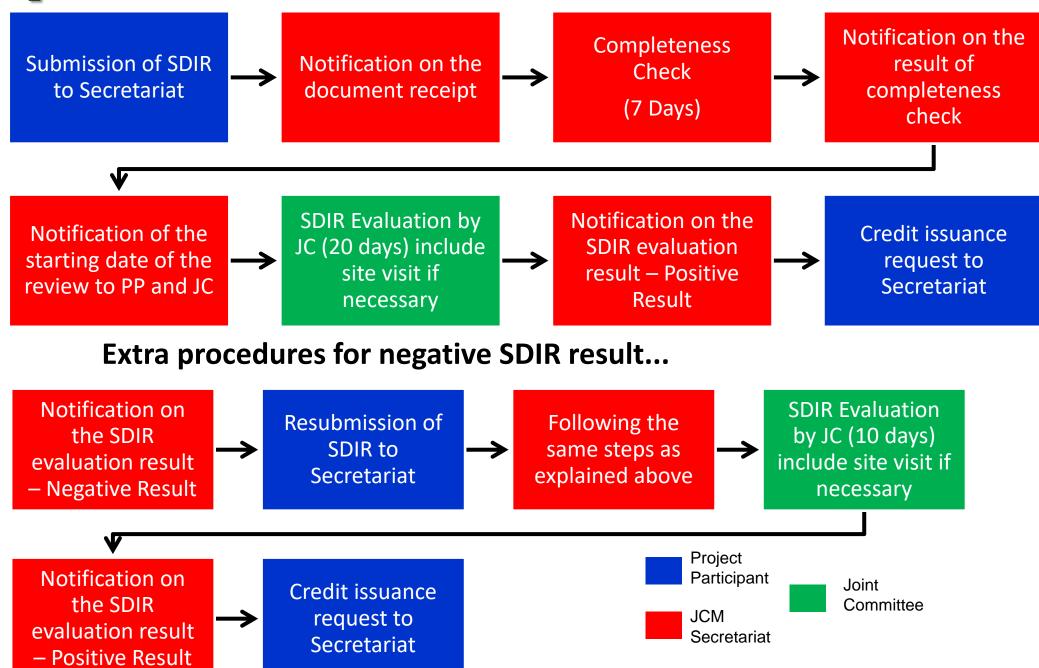
- Technology transfer
- Capacity building
- Increase welfare due to the introduction of new technology
- And eventually reduction of emission.



# SDIP process



## **SDIR** process



## SDIP form (1)

3.7	1 14	O	VAT-	I I	
No.	Items	Questions	Yes/No	If answer is Yes, please describe the	
				action plans.	
1	EIA	Does the proposed project require			
_ •	2111	official/legal process of EIA?			
2		Does the proposed project emit air			
		pollutants?			
	1	Does the proposed project discharge			
3		water pollutants or substances which			
	D 11 4:	influence BOD, COD or ph. etc.?			
	Pollution	Does the proposed project generate			
4	Control	waste?			
	(No need to	Does the proposed project increase			
_	answer if EIA	noise and/or vibration from the current			
5	is required)	level?			
	1	Does the proposed project cause ground			
6		subsidence?			
7	1	Does the proposed project cause odor?			
,		Does the proposed project create			
		dangerous condition for local			
8	Safety and	communities as well as individuals			
	health	involved in the project, during either its			
		construction or its operation?			
		construction of its operation:			
		Is the proposed project site located in			
		protected areas designated by national			
10		laws or international treaties and			
		conventions?			
	Natural	Does the proposed project change land			
	Environment and biodiversity				
11		habitats for endangered species			
		designated by national laws or			
		international treaties and conventions?			
12		Does the proposed project bring foreign			
	]	species?			
13		Does the proposed project include			

## SDIP form (2)

		construction activities considered to
		affect natural environment and
1		biodiversity (e.g., noise, vibrations,
1		turbid water, dust, exhaust gases, and
		wastes)?
14		Does the proposed project use natural
		water resources?
		Does the proposed project have little or
15	F	no contribution to building local
		workforce capacity?
	Economy	Does the proposed project have little
16		contribution to local community's
1		welfare?
12		Does the proposed project cause any
17		resettlement or other types of conflict?
	1	Does the proposed project involve little
1		activities to respond to, and follow up,
		comments and complaints that have
18	Social	been received from local communities,
1	Environment	particularly from the public
1	and	consultation?
	Community	Do the project participants violate any
1	Participation	laws and/or ordinances associated with
1		the working conditions of local
19		communities which the project
1		participants should observe in the
1		project?
		Does the proposed project involve little
20		activities to build capacity of human
20		resources through technology transfer
		and technical assistance?
	Technology	Does the proposed project describe
		little information of technology
		specification that consists of manual
21		book and ways to overcome the
		problems that may occur when being
		operated on the site, at least in English
		and in Bahasa Indonesia as applicable?
		**************************************

## **SDIP** implementation

#### Until now, Indonesia JCM Secretariat has received 26 SDIP documents

No.	Items	Questions	Yes/No	If answer is Yes, please describe the action plans.
1	EIA	Does the proposed project require official/legal process of EIA?	No	
2		Does the proposed project emit air pollutants?	Yes	The proposed project will include the operation of a genset, which will emit air pollution. However, the proposed project will replace existing old genset with new genset which complies environmental standards and emits less air pollutants than old genset, therefore will not produce any negative impact.
3	Pollution Control	Does the proposed project discharge water pollutants or substances which influence BOD, COD or ph, etc.?	No	
4	(No need to answer if EIA is required)	Does the proposed project generate waste?	Yes	The proposed project will generate waste during construction phase of which will be disposed accordingly, and leave no waste at project site.
5		Does the proposed project increase noise and/or vibration from the current level?	No	
6		Does the proposed project cause ground subsidence?	No	
7		Does the proposed project cause odor?	No	
8	Safety and health	Does the proposed project create dangerous condition for local communities as well as individuals involved in the project, during either its construction or its operation?	Yes	The proposed project will involve installation of a solar panel and electrical engineering work. The construction operator will mitigate any dangerous condition for individuals involved in the construction according to its safety manual.
9		Is the proposed project site located in protected areas designated by national laws or international treaties and conventions?	No	
10	Natural Environment and biodiversity	Does the proposed project change land use of the community and protected habitats for endangered species designated by national laws or international treaties and conventions?	No	
11		Does the proposed project bring foreign species?	No	
12		Does the proposed project include construction activities considered to affect natural environment and biodiversity (e.g., noise, vibrations, turbid water, dust, exhaust gases,	No	

## **SDIR** form

No.	Items		Not	Identified		If "Identified" is checked in the box, please
			identified			describe the corrective actions
1	EIA	Project is included in the EIA reporting to				
1	EIA	the Government of Indonesia				
2		Occurence of pollution in ambient air quality				
3		Occurence of pollution in water quality				
4	Pollution Control	Occurence of waste generation				
5	Pollution Control	Occurence of noise and/or vibration				
6		Occurence of ground subsidence				
7		Occurence of ambient odor				
8	0.64 11 10	Occurrence of accident or occupational				
	Safety and health	accident				
10		Change of protected area condition				
11	7	Change of land use change and eoosystem				
	Natural Environment	condition				
12	and biodiversity	Introduction of foreign species				
13		Environmental impact during construction				
14		Use of natural water				
15	P	Improvement of local workforce capacity				
16	Economy	Increase in local community welfare				
17		Occurrence of resettlement or conflict				
18	Social Environment and Community	Satisfactory follow up of comments and complaints				
19	Participation	Underprovision of regulatory working condition				
20		Human and institutional capacity by technology transfer				
21	Technology	Provision of technology specification and manual book at least in English and in Bahasa Indonesia as applicable	ı			

## **SDIR** implementation

#### Until now, Indonesia JCM Secretariat has received 12 SDIR documents.

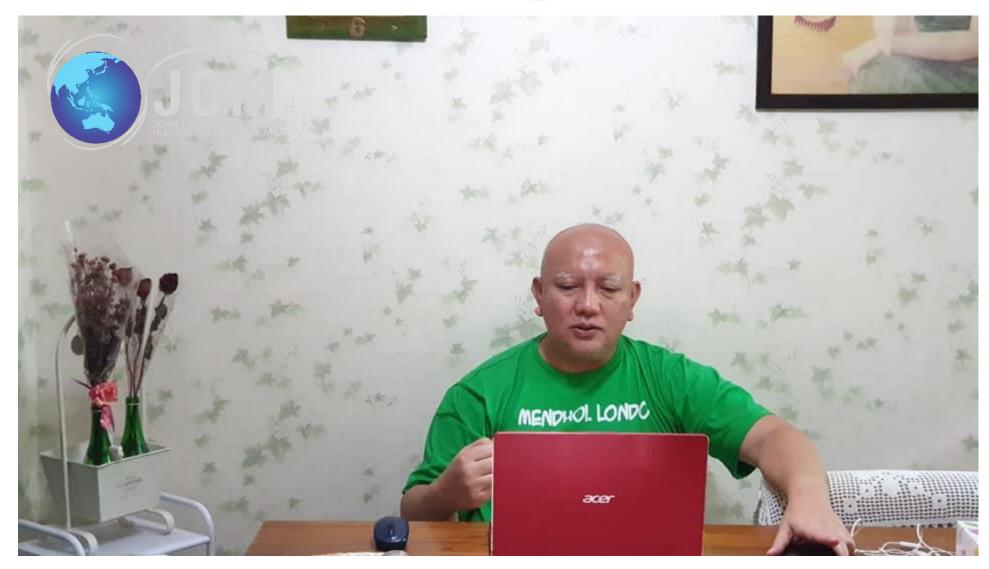
No.	Items		Not	Identified	If "Identified" is checked in the box, please
		Desired in its 1-1-1 in the DIA constitute the	identified		describe the corrective actions
1	EIA	Project is included in the EIA reporting to the Government of Indonesia	<b>√</b>		
2		Occurence of pollution in ambient air quality	<b>√</b>		
3		Occurence of pollution in water quality	<b>✓</b>		
4		Occurence of waste generation	<u> </u>		
5	Pollution Control	Occurence of noise and/or vibration	<u> </u>		
6		Occurence of ground subsidence	<b>✓</b>		
7		Occurence of ambient odor	<u> </u>		
8	C-f-4 1 1141-	Occurrence of accident or occupational accident	<u> </u>		
	Safety and health	-			
9		Change of protected area condition	<b>V</b>		
10		Change of land use change and eoosystem condition	<b>V</b>		
11		Introduction of foreign species	V		
12		Environmental impact during construction	<b>✓</b>		
13	Natural Environment and biodiversity	Use of surface water, ground water and/or deep ground water		V	Necessary water use permission had been obtained, i.e., (i) Groundwater utilization license (SIPA) (No. 503/794/A/2010, issued by Dept. of Energy and Mineral Resources, The provincial government of Central Java) and (ii) water service agreement (No.697/104/2014, Agreement with Batan District Water Service) for river water and industrial water usage, and the factory has operated accordingly.
14	Feonomy	Decrease in local workforce capacity	<b>✓</b>		
15		Declination of local community welfare	<b>√</b>		
16	Social Environment	Occurrence of resettlement or conflict	<b>7</b>		
17	and Community Participation	Failure to follow up comments and complaints successfully	V		

## Lesson learn from SD implementation



- 1. It makes Indonesia mitigation projects more transparent and accountable, these experiences are very valuable for Indonesia climate change mitigation programs.
- 2. The implementation of SDIP and SDIR can be used as a benchmark and linkages to the Paris regimes.
- 3. The utilization of SDIP and SDIR ensures that JCM projects contribute positive impacts nationally.

# Thank you!!!!!!



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