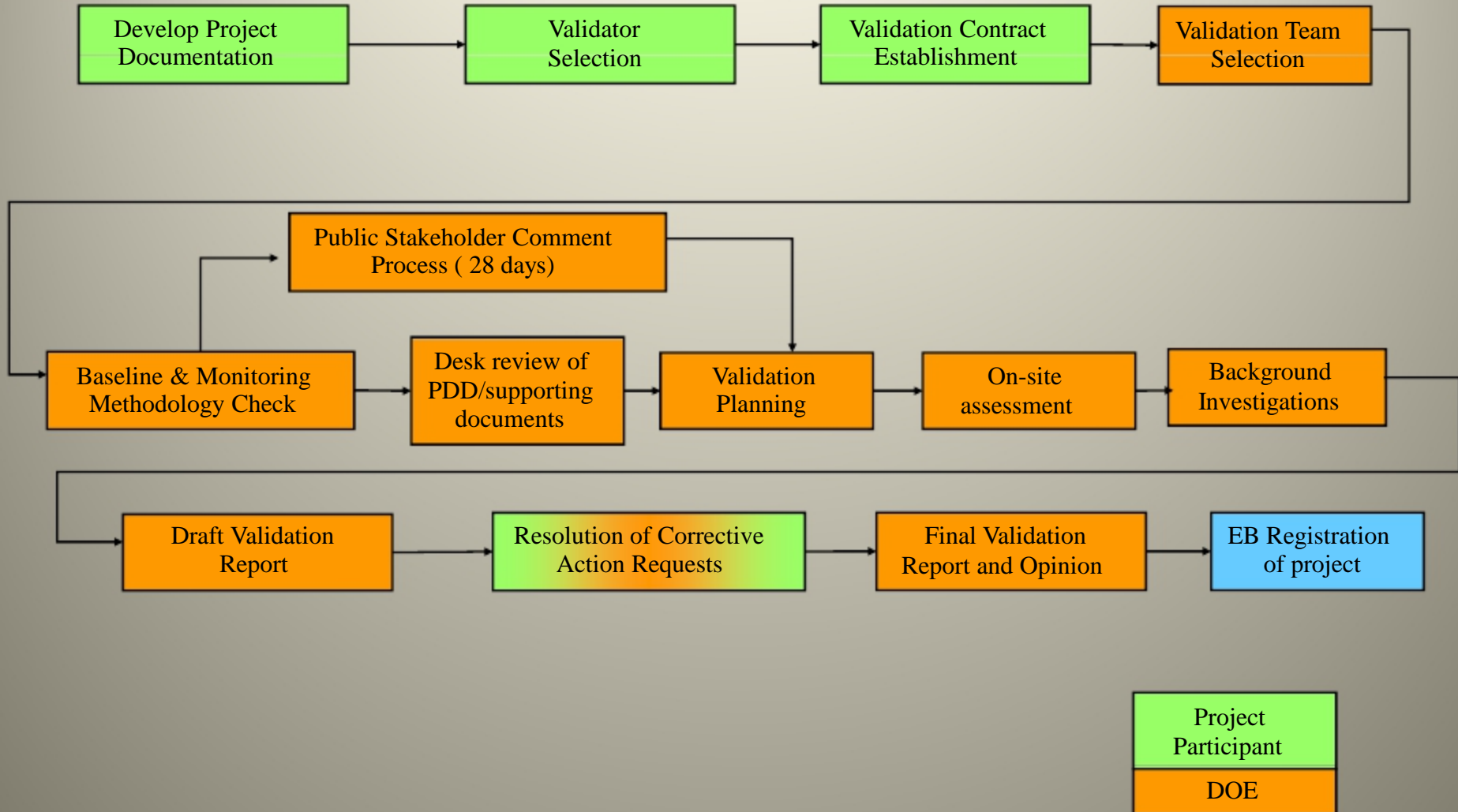


**DOE Validation**  
**objectives, process, and criteria**

# The Validation Process



# What is DOE?

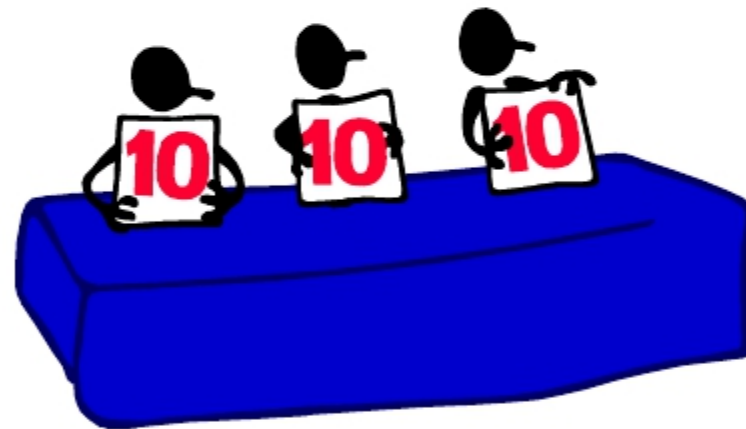
DOE = “Designated Operational Entity”

DOE is authorized by COP/MOP

DOE’s organization structure, qualification criteria of auditors,  
management procedures are strictly set out in

**Accreditation Standard for Operational Entities**

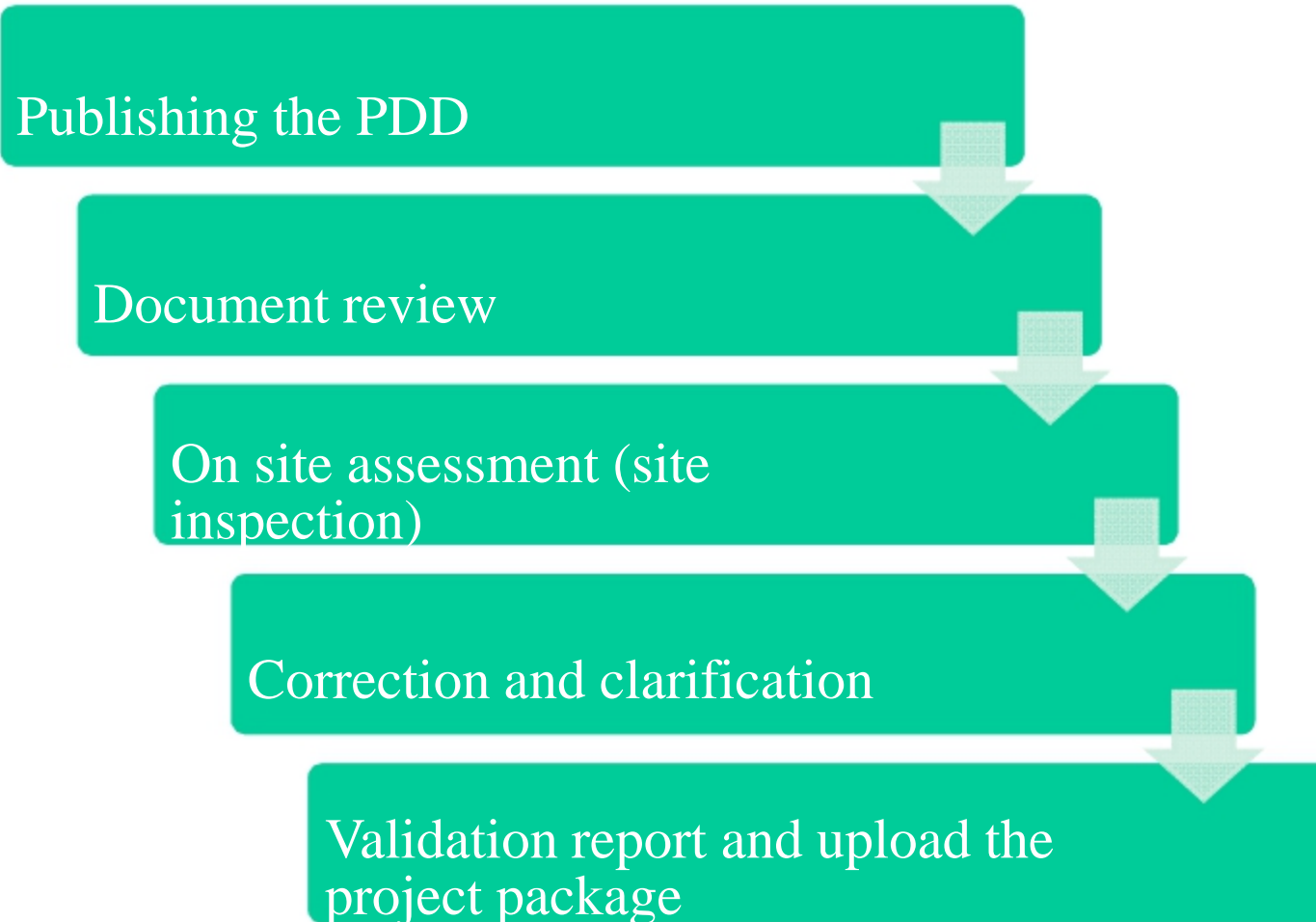
Validation is the process of independent evaluation of a project activity by a designated operational entity against requirements of the CDM ...on the basis of the project design document...” (Marrakech accords)



Can DOE accept any deviation from CDM requirement?

Answer: NO

# Basic process of validation



# What's in the PDD?

## CONTENTS

- A. General description of project activity
- B. Application of a baseline and monitoring methodology
- C. Duration of the project activity / crediting period
- D. Environmental impacts
- E. Stakeholders' comments

## Annexes

- Annex 1: Contact information on participants in the project activity
- Annex 2: Information regarding public funding
- Annex 3: Baseline information
- Annex 4: Monitoring plan

# What will DOE check on the PDD

General requirement to a PDD:

**The Project Design Document (PDD) should give an accurate picture and information in each section. The documentation should follow the structure and criteria given in the PDD template and the guideline to PDD template [guideline to PDD template](#).**

**Pay attention on each word in the guideline to PDD template.**

# What's in the PDD?

## CONTENTS

- A. **General description of project activity**
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# Description of project activity

- What's the input and output of project activity
- Location of project activity
- Applied technology
- Enfolded description of the current situation and the future situation
- Who is involved in
- Estimated emission reduction

Example: different output will lead to using different methodology

Utilizing biomass for electricity generation only

Methodology: ACM0018

Utilizing biomass for electricity generation and heat supply

Methodology: ACM0006

# What's in the PDD?

## CONTENTS

- A. General description of project activity
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## What's in the PDD?

Whether the start date of the project activity is correct?

### ~~Example:~~ A Hydropower Project

April 1st, 2010	have a plan to build up a hydropower plant
July 1st, 2011	start construction
July 31st, 2011	signing the purchasing contract of turbines

Which date is the start date?

**July 1st, 2011**

**DOE will check all the related documents to confirm the date.**

# What's in the PDD?

## CONTENTS

- A. General description of project activity
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- D. **Environmental impacts**
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# What's in the PDD?

What DOE shall, at least, do:

1. Document review (Environmental Impact Assessment)
2. Interview with local expertise
3. Visiting the project site and the area which might be affected


# What's in the PDD?

## CONTENTS

- A. General description of project activity
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- 
- The local stakeholder consultation needs to be done **before publishing the PDD on the UNFCCC webpage.**
  - Whether the approach of inviting the local stakeholders is correct?

Example:

the local stakeholders live in the area where no internet is available.... However, the invitation for comments was only available at the webpage of the project company.

- Whether the received comments are considered by project participants and described in the PDD?

# What's in the PDD?

## CONTENTS

- A. General description of project activity
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# What's in Section B of PDD?

**B.1. Title and reference of the Approved baseline and monitoring Methodology applied to the project activity:**

Which methodology is used?

DOE needs to confirm that no expired methodology or tools are used.

**B2 Justification of the choice of The methodology and why it is Applicable to the project activity:**

What is the correct methodology for The project activity?

DOE :Each criteria mentioned in the section of “applicability” of the said methodology Will be checked with evidence or confirmed on site. The footnote will be checked as well

**B.3.3 Description of the sources and Gases included in the project boundary:**

Whether the project boundary is correct??

DOE: no project emission or leakage is overseen.



Sample of Project Boundary:

In order to collect biomass for energy use, the project owner of a power plant has built up 6 biomass collection stations where the biomass will be cut into little piece with machines.

Considering that these stations are out of the power plant site, they are not included in the project boundary.

Is it correct?

Answer: NO!

The electricity consumed due to cutting the biomass shall be considered as project emission and the stations shall be in the boundary.

# What's in the PDD?

**B.4. Description of how the Baseline scenario is identified and Description of the identified baseline scenario:**


Whether the baseline scenario is correct?

DOE: All the possible scenarios are considered? Whether the local regulations are fully considered?

**B.5. Description of how the Anthropogenic emissions of GHG by Sources are reduced below those that Would have occurred in the absence of The registered CDM project activity (assessment and demonstration of additionality):**

Whether without CDM support, there will Be no such project activity in the region?

DOE: whether the financial calculation is correct? Or whether the barrier is supported With reliable document?



## Scenario of B.5 – Financial barrier

A Windfarm project could not get any bank loan because the investment return is too low.

The letter issued by y the local bank was submitted to DOE.

However....

The DOE figured out that the project owner has built up several similar wind farm nearby and got the bank loan without any problem.

?? Whether the 3<sup>rd</sup> party evidence is always reliable??

**B.6.Emission reductions:**

Calculation of emission reduction:  
$$\text{Emission reduction} = \text{baseline emission} - \text{project emission} - \text{leakage}$$

DOE: whether the formula in the methodology are correctly used? Whether The data used for calculation are correct?

**B.7.Application of the Monitoring methodology and Description of the monitoring plan:**

How the output is measured and recorded?

DOE: whether the measuring equipment is correct? Whether the national Regulation or industry standard is considered? Whether the system is practical? Whether all the potential project emission is considered?



Question to B.7:

At a hydropower power plant site, a diesel generator is found which will only be used for the emergency situation. Whether the emission due to using diesel shall be considered as project emission?

Answer is YES.

The consumption of diesel shall be measured and recorded.

## Data/Information in the PDD

- **all data/information has to be sourced**
- **only official sources (e. g. IPCC) can be accepted**
- **give references for all used data**
- **consider all aspects (e. g. in the financial analysis)**
- **do not work with speculations/un-sourced information and fictions**
- **all calculations have to be conservative try (and this has to be demonstrated)**

**THANK YOU!**