



**Project design document form for carbon capture and storage
CDM project activities
(Version 02.0)**

Complete this form in accordance with the Attachment "Instructions for filling out the project design document form for carbon capture and storage CDM project activities" at the end of this form.

PROJECT DESIGN DOCUMENT (PDD)

Title of the project activity	
Version number of the PDD	
Completion date of the PDD	
Project participant(s)	
Host Party	
Sectoral scope and selected methodology(ies)	
Estimated amount of annual average GHG emission reductions	

SECTION A. Description of project activity

A.1. Purpose and general description of project activity

>>

A.2. Location of project activity

A.2.1. Host Party

>>

A.2.2. Region/State/Province etc.

>>

A.2.3. City/Town/Community etc.

>>

A.2.4. Physical/Geographical location and boundaries

>>

A.3. Geographical storage site

>>

A.4. Technologies and measures

>>

A.5. Environmental and socio-economic conditions

>>

A.6. Parties and project participants

Party involved (host) indicates a host Party	Private and/or public entity(ies) project participants (as applicable)	Indicate if the Party involved wishes to be considered as project participant (Yes/No)
Party A (host)	Private entity A Public entity A	
Party B	Private entity B Public entity B	
...	...	

A.7. Public funding of project activity

>>

A.8. Financial provisions

>>

A.9. Provisions for liability

>>

A.10. Applicable laws and regulations

>>

SECTION B. Application of selected approved baseline and monitoring methodology**B.1. Reference of methodology**

>>

B.2. Applicability of methodology

>>

B.3. Project boundary

Source		GHGs	Included?	Justification/Explanation
Baseline scenario	Source 1	CO ₂		
		CH ₄		
		N ₂ O		
		...		
	Source 2	CO ₂		
		CH ₄		
		N ₂ O		
		...		
		
		...		
		...		
		...		
Project scenario	Source 1	CO ₂		
		CH ₄		
		N ₂ O		
		...		
	Source 2	CO ₂		
		CH ₄		
		N ₂ O		
		...		
		
		...		
		...		
		...		

B.4. Establishment and description of baseline scenario

>>

B.5. Demonstration of additionality

>>

B.6. Emission reductions

B.6.1. Explanation of methodological choices

>>

B.6.2. Data and parameters fixed ex ante

(Copy this table for each piece of data and parameter.)

Data/Parameter	
Unit	
Description	
Source of data	
Value(s) applied	
Choice of data or Measurement methods and procedures	
Purpose of data	
Additional comment	

B.6.3. Ex ante calculation of emission reductions

>>

B.6.4. Summary of ex ante estimates of emission reductions

Year	Baseline emissions (t CO ₂ e)	Project emissions (t CO ₂ e)	Leakage (t CO ₂ e)	Emission reductions (t CO ₂ e)
Year A				
Year B				
Year C				
Year ...				
Total				
Total number of crediting years				
Annual average over the crediting period				

B.7. Monitoring plan**B.7.1. Data and parameters to be monitored***(Copy this table for each piece of data and parameter.)*

Data/Parameter	
Unit	
Description	
Source of data	
Value(s) applied	
Measurement methods and procedures	
Monitoring frequency	
QA/QC procedures	
Purpose of data	
Additional comment	

B.7.2. Sampling plan

>>

B.7.3. Other elements of monitoring plan

>>

B.7.4. Date of completion of application of methodology and contact information of responsible persons/ entities

>>

SECTION C. Duration and crediting period

C.1. Duration of project activity

C.1.1. Start date of project activity

>>

C.1.2. Expected operational lifetime and phases of project activity

>>

C.2. Crediting period of project activity

C.2.1. Type of crediting period

>>

C.2.2. Start date of crediting period

>>

C.2.3. Length of crediting period

>>

SECTION D. Risk and safety

>>

SECTION E. Environmental and socio-economic impact assessment

>>

SECTION F. Site development and Management Plan

>>

SECTION G. Local stakeholder consultation

G.1. Solicitation of comments from local stakeholders

>>

G.2. Summary of comments received

>>

G.3. Report on consideration of comments received

>>

SECTION H. Approval and authorization

>>

Appendix 1. Contact information of project participants and responsible persons/ entities

Project participant and/or responsible person/entity	<input type="checkbox"/> Project participant <input type="checkbox"/> Responsible person/entity for the application of the selected methodology(ies) to the project activity
Organization name	
Street/P.O. Box	
Building	
City	
State/Region	
Postcode	
Country	
Telephone	
Fax	
E-mail	
Website	
Contact person	
Title	
Salutation	
Last name	
Middle name	
First name	
Department	
Mobile	
Direct fax	
Direct tel.	
Personal e-mail	

Appendix 2. Geological storage site

Appendix 3. Affirmation regarding public funding

Appendix 4. Applicability of methodology

Appendix 5. Further background information on ex ante calculation of emission reductions

Appendix 6. Further background information on monitoring plan

Appendix 7. Risk and safety assessment

Appendix 8. Environmental and socio-economic impact assessments

Appendix 9. Summary of post registration changes

Attachment: Instructions for filling out the project design document form for carbon capture and storage CDM project activities

1. General instructions

1. When designing a project activity and completing the CDM-CCS-PDD-FORM, and in addition to applying the “Clean development mechanism project standard” (Project standard) and the selected approved baseline and monitoring methodology(ies) (hereinafter referred to as the selected methodology(ies)), consult the “Rules and Reference” section of the UNFCCC CDM website <<http://cdm.unfccc.int/>>. This section contains all regulatory documents for the CDM, such as standards (including methodologies and tools), procedures, guidelines, clarifications, forms and the “Glossary of CDM terms”.
2. When documenting changes occurred to the project activity after its registration in accordance with applicable provisions relating to the post registration changes process, prepare two versions of the PDDs using the CDM-CCS-PDD-FORM, one in clean version and the other indicating the changes in track-change.
3. In addition to the provisions in paragraph 2 above, provide a summary of the changes, including the reasons for the changes and any additional information relating to the changes, in Appendix 9 of the CDM-CCS-PDD-FORM.
4. Where a PDD contains information that the project participants wish to be treated as confidential/proprietary, submit documentation in two versions:
 - (a) A version where all parts containing confidential/proprietary information are made illegible (e.g. by masking those parts in black) so that the version can be made publicly available without displaying confidential/proprietary information; and
 - (b) A version containing all information that is to be treated as strictly confidential/proprietary by all parties handling this documentation (designated operational entities (DOEs) and applicant entities (AEs); Board members and alternate members; panel and working group members; external experts requested to consider such documents in support of work for the Board; the secretariat).
5. Information used to: (a) demonstrate additionality; (b) describe the application of the selected methodology(ies); and (c) support the environmental impact assessment; is not considered proprietary or confidential. Any data, values and formulae included in electronic spreadsheets provided are accessible and verifiable.
6. Complete the CDM-CCS-PDD-FORM and all attached documents in English, or attach a full translation of relevant sections into English.
7. Complete the CDM-CCS-PDD-FORM using the same format without modifying its font, headings or logo, and without any other alteration to the form.
8. Do not modify or delete the tables and their columns in the CDM-CCS-PDD-FORM. Add rows of the tables as needed. Add additional appendices as needed.
9. If a section of the CDM-CCS-PDD-FORM is not applicable, explicitly state that the section is left blank intentionally.
10. Use internationally recognized format for presentation of values in the CDM-CCS-PDD-FORM, for example use digits grouping in thousands and mark a decimal point with a dot (.), not with a comma (,).

11. Complete the CDM-CCS-PDD-FORM deleting this attachment “Instructions for filling out the project design document form for carbon capture and storage CDM project activities”.

2. Specific instructions

1. Indicate the following information on the cover page:
 - (a) Title of the project activity;
 - (b) Version number of the PDD;
 - (c) Completion date of the PDD (DD/MM/YYYY);
 - (d) Project participant(s);
 - (e) Host Party;
 - (f) Sectoral scope, and selected methodology(ies);
 - (g) Estimated amount of annual average GHG emission reductions.

SECTION A. Description of project activity

A.1. Purpose and general description of project activity

1. Provide a brief description of the project activity in accordance with applicable provisions related to the description of project activity in the Project standard.
2. Also provide a brief description of (in a couple of paragraphs):
 - (a) The scenario existing prior to the implementation of the project activity including, where applicable, the type of facility where the project activity will take place or replace (e.g. coal-fired power plant, etc.);
 - (b) The baseline scenario, as established in section B.4 below.
3. The full description of the technologies and measures, project boundary and baseline scenario are to be provided in sections A.4, B.3 and B.4 below respectively.
4. If the baseline scenario is the same as the scenario existing prior to the implementation of the project activity, there is no need to repeat the description of the scenarios, but only to state that both are the same.
5. Provide the estimate of annual average and total GHG emission reductions for the chosen crediting period.
6. Include a brief description of how the project activity contributes to sustainable development (not more than one page).

A.2. Location of project activity

A.2.1. Host Party

A.2.2. Region/State/Province etc.

A.2.3. City/Town/Community etc.

A.2.4. Physical/Geographical location and boundaries

1. Provide details of the physical/geographical location of the project activity, including information allowing the unique identification of the project activity and a map showing at least the outer geographical boundaries of the project activity and indicating any borders between countries.

A.3. Geological storage site

1. Provide a detailed description of the selection and characterization of the geological storage site(s) in accordance with the Project standard.
2. Describe and reference the data and information used in performing the characterization and selection of the geological storage site. Where relevant, provide additional background information and/or data in Appendix 2 below.

A.4. Technologies and measures

1. Describe the technologies and measures to be employed and/or implemented by the project activity, including a list of the facilities, systems and equipment that will be installed and/or modified by the project activity. This includes:
 - (a) A list and the arrangement of the main manufacturing/production technologies, systems and equipment involved. Include in the description information about the age and average lifetime of the equipment based on the manufacturer’s specifications and industry standards, and existing and forecast installed capacities, load factors and efficiencies. The monitoring equipments and their location in the systems are of particular importance;
 - (b) Energy and mass flows and balances of the systems and equipment included in the project activity;
 - (c) The types and levels of services (normally in terms of mass or energy flows) provided by the systems and equipment that are being modified and/or installed under the project activity and their relation, if any, to other manufacturing/production equipment and systems outside the project boundary. The types and levels of services provided by those manufacturing/production systems and equipment outside the project boundary may also constitute important parameters of the description. Clearly explain how the same types and levels of services provided by the project activity would have been provided in the baseline scenario.
2. Also provide a list of:
 - (a) Facilities, systems and equipment in operation under the existing scenario prior to the implementation of the project activity;
 - (b) Facilities, systems and equipment in the baseline scenario, as established in section B.4 below.
3. If the baseline scenario is a continuation of current practice, thus identical to the scenario existing prior to the implementation of the project activity, there is no need to repeat the description of the scenarios, only state that both are the same.
4. Do not provide information that is not essential to understand the purpose of the project activity and how it reduces GHG emissions. Do not include information related to the equipment, systems and measures that are auxiliary to the main scope of the project activity and do not affect directly or indirectly GHG emissions and/or mass and energy balances of the processes related to the project activity.
5. Include a description of how the technologies and measures and know-how to be used are transferred to the host Party.

A.5. Environmental and socio-economic conditions

1. Describe the present environmental and socio-economic conditions of the area, including:
 - (a) The hydrology, aquifer and groundwater properties, such as acidity and dissolved gases;
 - (b) Where appropriate, the soils and soil gas properties, such as a carbon dioxide isotope analysis and carbon dioxide flux rate;
 - (c) The ecosystems and the possible presence of rare, endangered or sensitive species and their habitats; and
 - (d) Climatic data.

A.6. Party(ies) and project participant(s)

1. List in the table below Party(ies) and project participant(s) involved in the project activity and provide contact information in Appendix 1 below.
2. When the CDM-CCS-PDD-FORM is prepared in support of a proposed new baseline and monitoring methodology, identify at least the host Party and any known project participants (e.g. those proposing a new methodology).

Name of Party involved (host) indicates host Party	Name of private and/or public entity(ies) project participants (as applicable)	Indicate if the Party involved wishes to be considered as project participant (Yes/No)
Name A (host)	Private entity A Public entity A	
Name B	Private entity B Public entity B	
...	...	

A.7. Public funding of project activity

1. Indicate whether the project activity receives public funding from Parties included in Annex I. If so:
 - (a) Provide information on Parties providing public funding;
 - (b) Attach in Appendix 3 below the affirmation obtained from such Parties in accordance with applicable provisions related to official development assistance in the Project standard.
2. When the CDM-CCS-PDD-FORM is completed in support of a proposed new methodology, indicate whether public funding from Parties included in Annex I is likely to be provided, indicating such Parties to the extent possible.

A.8. Financial provisions

1. Describe the financial provision(s) that have been established in accordance with the Project standard.

A.9. Provisions for liability

1. Describe how the liability obligations arising from the proposed CCS project activity or its geological storage site are allocated during the operational phase, closure phase and post-closure phase in accordance with the Project standard.

A.10. Applicable laws and regulations

1. Provide an overview of the laws and regulations related to CCS that are applicable in the region where the CCS project activity is implemented and describe how the laws and regulation address the "Participation requirements of host Party for CCS project activities" set out in the "clean development mechanism project cycle procedure".

SECTION B. Application of selected approved baseline and monitoring methodology**B.1. Reference of methodology**

1. By referring to the UNFCCC CDM website, indicate exact reference (number, title, version) of:
 - (a) The selected methodology(ies) (e.g. ACM0001 "Consolidated baseline and monitoring methodology for landfill gas project activities" (Version 11.0));
 - (b) Any tools and other methodologies to which the selected methodology(ies) refer (e.g. "Tool for demonstration and assessment of additionality" (Version 05.2.1)).

B.2. Applicability of methodology

1. Justify the choice of the selected methodology(ies) by showing that the project activity meets each applicability condition of the methodology(ies). Explain documentation that has been used and provide the references to it or include the documentation in Appendix 4 below.

B.3. Project boundary

1. In addition to the table, present a flow diagram of the project boundary, physically delineating the project activity, based on the description of technologies and measures provided in section A.4 above. Include in the flow diagram the equipment, systems and flows of mass and energy described in that section. In particular, indicate in the diagram the emission sources and GHGs included in the project boundary and the data and parameters to be monitored.
2. Document in a transparent manner the vertical and lateral limits of the carbon dioxide geological storage site that are expected when the carbon dioxide plume stabilizes over the long term during the closure phase and the post-closure phase.

Source		Gas	Included?	Justification/Explanation
Baseline scenario	Source 1	CO ₂		
		CH ₄		
		N ₂ O		
		...		
	Source 2	CO ₂		
		CH ₄		
		N ₂ O		
		...		
	...	CO ₂		
		CH ₄		
		N ₂ O		
		...		
Project scenario	Source 1	CO ₂		
		CH ₄		
		N ₂ O		
		...		
	Source 2	CO ₂		
		CH ₄		
		N ₂ O		
		...		
	...	CO ₂		
		CH ₄		
		N ₂ O		
		...		

B.4. Establishment and description of baseline scenario

1. Explain how the baseline scenario is established in accordance with the selected methodology(ies) and applicable provisions for the establishment and description of baseline scenarios in the Project standard. Where the procedure in the selected methodology(ies) involves several steps, describe how each step is applied and transparently document the outcome of each step. Explain and justify key assumptions and rationales. Provide and explain all data used to establish the baseline scenario (variables, parameters, data sources, etc.). Provide all relevant documentation and/or references.
2. Provide a transparent description of the baseline scenario as established above.
3. The full description of the technologies and measures of the baseline scenario is to be provided in section A.4 above.
4. Note that section B.4 and section B.5 below are complementary. Some of the steps undertaken in one section may overlap with the steps undertaken in the other section depending on the procedures used to establish the baseline and demonstrate the additionality. If the “Combined tool to identify the baseline scenario and demonstrate additionality” is used, the same information does not need to be replicated in both sections. In this case, make a reference to the other section where description is contained.

B.5. Demonstration of additionality

1. Demonstrate that the project activity is additional in accordance with the selected methodology(ies), tool(s) and applicable provisions for the demonstration of additionality in the Project standard. Where the procedure in the selected methodology(ies) and/or tool involves several steps, describe how each step is applied and transparently document the outcome of each step. Indicate clearly the method selected to demonstrate additionality (e.g. investment analysis or barrier analysis). Present in a transparent manner, in the form or in a separate appendix, with all data used (variables, parameters, data sources, etc.), how the additionality of the project activity is demonstrated.
2. Where investment analysis is used, list all relevant assumptions and parameters used in the analysis. Where benchmark analysis is used, clearly indicate the benchmark. Where cost comparison is used, describe the scenarios compared.
3. Where the barriers are involved in demonstrating additionality, only select the most relevant barriers. With key facts and/or assumptions and the rationale, justify the credibility of the barriers. Provide relevant documentation or references.
4. If the start date of the project activity is prior to the date of publication of the PDD for global stakeholder consultation, provide evidence of the prior consideration of the CDM in accordance with applicable provisions in the Project standard.

B.6. Emission reductions**B.6.1. Explanation of methodological choices**

1. Explain how the methods or methodological steps in the selected methodology(ies), for calculating baseline emissions, project emissions, leakage and emission reductions are applied. Clearly state which equations will be used in calculating emission reductions.
2. Explain and justify all relevant methodological choices, including:
 - (a) Where the methodology(ies) include different scenarios or cases, indicate and justify which scenario or case applies to the project activity;
 - (b) Where the methodology(ies) provide different options to choose from, indicate and justify which option is chosen for the project activity;
 - (c) Where the methodology(ies) allow different default values, indicate and justify which of the default values have been chosen for the project activity.

B.6.2. Data and parameters fixed ex ante

1. Include a compilation of information on the data and parameters that will not be monitored during the crediting period but are determined before the registration of the project activity and remain fixed throughout the crediting period. Do not include here data that become available only after the registration of the project activity (e.g. measurements after the implementation of the project activity) but include them in the table in section B.7.1 below.
2. The compilation of information may include the data that are measured or sampled, and data that are collected from other sources (e.g. official statistics, expert judgment, proprietary data, IPCC, commercial and scientific literature, etc.). Do not include data that are calculated with equations provided in the selected methodology(ies) or default values specified in the methodology(ies) in the compilation.
3. For each piece of data or parameter, complete the table below, following these instructions:
 - (a) "Value(s) applied": Provide the value applied. Where a time series of data is used, where several measurements are undertaken or where surveys have been conducted, provide detailed information in Appendix 5 below. To report multiple values referring to the same data and parameter, use one table. If necessary, use reference(s) to electronic spreadsheets;
 - (b) "Choice of data": Indicate and justify the choice of data source. Provide clear and valid references and, where applicable, additional documentation in Appendix 5 below;
 - (c) "Measurement methods and procedures": Where values are based on measurement, include a description of the measurement methods and procedures applied (e.g. which standards have been used), indicate the responsible person/entity that undertook the measurement, the date of the measurement and the measurement results. More detailed information can be provided in Appendix 5 below;
 - (d) "Purpose of data": Choose one of the following:
 - (i) Calculation of baseline emissions;
 - (ii) Calculation of project emissions;
 - (iii) Calculation of leakage.

(Copy this table for each piece of data and parameter.)

Data/Parameter	
Unit	
Description	
Source of data	
Value(s) applied	
Choice of data or Measurement methods and procedures	
Purpose of data	
Additional comment	

B.6.3. Ex ante calculation of emission reductions

1. Provide a transparent ex ante calculation of baseline emissions, project emissions (or, where applicable, direct calculation of emission reductions) and leakage expected during the crediting period, applying all relevant equations provided in the selected methodology(ies). For data or parameters available before the registration of the project activity, use values contained in the table in section B.6.2 above.
2. For the data/parameters that are not available before the registration of the project activity but will be monitored during the crediting period, use estimates contained in the table in section B.7.1 below. If any of these estimates has been determined by a sampling approach, provide a description of the sampling efforts undertaken in accordance with the “Standard for sampling and surveys for CDM project activities and programme of activities”.
3. Document how each equation is applied, in a manner that enables the reader to reproduce the calculation. Where relevant, provide additional background information and/or data in Appendix 5 below, including relevant electronic spreadsheets.
4. Provide a sample calculation for each equation used, substituting the values used in the equations.

B.6.4. Summary of ex ante estimates of emission reductions

1. Summarize the results of the ex ante calculation of emission reductions for all years of the crediting period, using the table below.

Year	Baseline emissions (t CO ₂ e)	Project emissions (t CO ₂ e)	Leakage (t CO ₂ e)	Emission reductions (t CO ₂ e)
Year A				
Year B				
Year C				
Year ...				
Total				
Total number of crediting years				
Annual average over the crediting period				

B.7. Monitoring plan

1. Through sections B.7.1, B.7.2 and B.7.3 below provide a detailed description of the monitoring plan of the project activity developed in accordance with the monitoring requirements of the selected methodology(ies) and the applicable provisions in the Project standard’.

B.7.1. Data and parameters to be monitored

1. Include specific information on how the data and parameters that need to be monitored will actually be collected during monitoring. Include here data that are determined only once for the crediting period but that will become available only after the registration of the project activity (e.g. measurements after the implementation of the project activity).
2. For each piece of data or parameter, complete the table below, following these instructions:
 - (a) "Source of data": Indicate the source(s) of data that will be used for the project activity (e.g. which exact national statistics). Where several sources are used, justify which data sources should be preferred;
 - (b) "Value(s) applied": The value applied is an estimate of the data/parameter that will be monitored during the crediting period, but is used for the purpose of calculating estimated emission reductions in section B.6.3 above. To report multiple values referring to the same data and parameter, use one table. If necessary, use reference(s) to electronic spreadsheets;
 - (c) "Measurement methods and procedures": Where data or parameters are to be monitored, specify the measurement methods and procedures, standards to be applied, accuracy of the measurements, person/entity responsible for the measurements, and, in case of periodic measurements, the measurement intervals;
 - (d) "QA/QC procedures": Describe the Quality Assurance (QA)/Quality Control (QC) procedures to be applied, including the calibration procedures, where applicable;
 - (e) "Purpose of data": Choose one of the following:
 - (i) Calculation of baseline emissions;
 - (ii) Calculation of project emissions;
 - (iii) Calculation of leakage.
 - (f) "Additional comment": State if the data or parameter is monitored during and/or beyond the crediting period(s) of the proposed project activity.
3. Provide any relevant further background documentation in Appendix 6 below.

(Copy this table for each piece of data and parameter.)

Data/Parameter	
Unit	
Description	
Source of data	
Value(s) applied	
Measurement methods and procedures	
Monitoring frequency	
QA/QC procedures	
Purpose of data	
Additional comment	

B.7.2. Sampling plan

1. Describe the sampling procedure in accordance with the selected methodology(ies). Where relevant, provide additional information in Appendix 6 below, including relevant electronic spreadsheets and modelling.

B.7.3. Other elements of monitoring plan

1. Describe:
 - (a) The operational and management structure that the project operator will implement in order to monitor emission reductions and leakage generated by the project activity. Clearly indicate the responsibilities and institutional arrangements for data collection and archiving;
 - (b) Provisions for history matching and for determining under which exact conditions the monitoring plan shall conclude that a significant deviation occurred during history matching;
 - (c) When the monitoring of the geological storage site begins.
2. Provide relevant background information in Appendix 6 below.

B.7.4. Date of completion of application of methodology and contact information of responsible persons/ entities

1. Provide the date of completion of study on application of the selected methodology(ies) to the project activity in the format of DD/MM/YYYY.
2. Provide contact information of the person(s)/entity(ies) responsible for the application of the selected methodology(ies) to the project activity and indicate if the person(s)/entity(ies) is also a project participant(s) in Appendix 1 below.

SECTION C. Duration and crediting period**C.1. Duration of project activity****C.1.1. Start date of project activity**

1. State the start date of the project activity, in the format of DD/MM/YYYY, describe how this date has been determined, and provide evidence to support this date.

C.1.2. Expected operational lifetime and phases of project activity

1. State the expected operational lifetime of the project activity in years and months. Describe the timing of the expected operational, closure and post-closure phases of the project, in accordance with the definitions given in the Project standard.

C.2. Crediting period of project activity**C.2.1. Type of crediting period**

1. State the type of crediting period chosen for the project activity (renewable or fixed).
2. For a renewable crediting period, indicate whether it is the first, second or third.

C.2.2. Start date of crediting period

1. State the start date of crediting period of the project activity in the format of DD/MM/YYYY.

C.2.3. Length of crediting period

1. State the length of the crediting period of the project activity in years and months.

SECTION D. Risk and safety assessment

1. Describe the comprehensive and thorough risk and safety assessment that was undertaken in accordance with the Project standard, including:
 - (a) The approaches used to conduct the steps outlined in section "risk and safety assessment" in the Project standard and the results of the steps;
 - (b) A description of all identified potential risks associated with the proposed CCS project activity, including the capture, transportation and storage of carbon dioxide in a geological storage site, and an assessment of these risks;
 - (c) A description of how the risk and safety assessment provides a basis for:
 - (i) Developing remedial measures, including plans for responses that can stop or control any unintended emissions from surface CCS installations and seepage carbon dioxide, restore the integrity of a geological storage site, and restore long-term environmental quality significantly affected by the CCS project activity (accompany monitoring plans for such measures and plans);
 - (ii) Prioritizing locations and approaches for enhanced monitoring activities;
 - (iii) Determining operational data for the application of the Site Development and Management Plan;
 - (iv) Conducting environmental and socio-economic impact assessments.
2. Include the communication plan and contingency plan, comprising all the necessary plans to be put in place in case of large incidents, in Appendix 7 below.

SECTION E. Environmental and socio-economic impact assessments

1. Describe the comprehensive analysis of the environmental and socio-economic impacts of the project activity in accordance with the Project standard, including an assessment of potential transboundary impacts, a description of the planned monitoring and remedial measures to address any environmental and socio-economic impacts identified and conclusions from the overall assessment. Draw upon the results of the risk and safety assessment.
2. Provide references to all documentation related to the environmental and socio-economic impact assessments. Provide relevant background information in Appendix 8 below.

SECTION F. Site Development and Management Plan

1. Describe the proposed conditions of use for the geological storage site, in accordance with the Project standard. Explain how the geological storage site will be operated and managed, drawing on the information gained from characterizing the geological storage site and the risk and safety assessment.

SECTION G. Local stakeholder consultation**G.1. Solicitation of comments from local stakeholders**

1. Describe the process by which comments from local stakeholders have been invited for the project activity.

G.2. Summary of comments received

1. Identify stakeholders that have made comments and provide a summary of these comments.

G.3. Report on consideration of comments received

1. Provide information demonstrating that all comments received have been considered.

SECTION H. Approval and authorization

1. Indicate whether the letter(s) of approval from Party(ies) for the project activity is available at the time of submitting the PDD to the validating DOE.
2. If so, provide the letter(s) of approval along with the PDD.

Appendix 1. Contact information of project participants and responsible persons/entities

1. For each organisation listed in sections A.6 and B.7.4 above, complete the table below, with the following mandatory fields: Project participant and/or responsible person/ entity, Organization name, Street/P.O. Box, City, Postcode, Country, Telephone, Fax, E-mail and Name of contact person. Copy and paste the table as needed.

Project participant and/or responsible person/entity	<input type="checkbox"/> Project participant <input type="checkbox"/> Responsible person/entity for the application of the selected methodology(ies) to the project activity
Organization name	
Street/P.O. Box	
Building	
City	
State/Region	
Postcode	
Country	
Telephone	
Fax	
E-mail	
Website	
Contact person	
Title	
Salutation	
Last name	
Middle name	
First name	
Department	
Mobile	
Direct fax	
Direct tel.	
Personal e-mail	

Appendix 2. Geological storage site

1. Provide any further background information related to the selection and characterization of the geological storage site.

Appendix 3. Affirmation regarding public funding

1. If applicable, attach the affirmation obtained from Parties providing public funding to the project activity.

Appendix 4. Applicability of methodology

1. Provide any further background information on the applicability of the selected methodology(ies).

Appendix 5. Further background information on ex ante calculation of emission reductions

1. Provide any further background information on the ex ante calculation of emission reductions. This may include data, measurement results, data sources, etc.

Appendix 6. Further background information on monitoring plan

1. Provide any further background information used in the development of the monitoring plan. This may include tables with time series data, additional documentation of measurement equipment, procedures, etc.

Appendix 7. Risk and safety assessment

1. Provide any further background information to the thorough and comprehensive risk and safety assessment and include here the communication and contingency plan.

Appendix 8. Environmental and socio-economic impact assessments

1. Provide any further background information to the environmental and socio-economic impact assessments.

Appendix 9. Summary of post registration changes

1. Provide a summary of the post registration changes.

- - - - -

Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
02.0	2 May 2014	Revisions to: <ul style="list-style-type: none"> • Add contact information on a responsible person(s)/entity(ies) for the application of the methodology(ies) to the project activity in B.7.4 and appendix 1; • Include the attachment: Instructions for filling out the project design document form (these instructions supersede: "Guidelines for completing the project design document form for carbon capture and storage CDM project activities"); • Change the reference number from <i>F-CDM-CCS-PDD</i> to <i>CDM-CCS-PDD-FORM</i>.
01.0	24 May 2012	Initial publication.

Decision Class: Regulatory
 Document Type: Form
 Business Function: Registration
 Keywords: carbon capture and storage, project activities, project design document