



**Project design document form  
(carbon capture and storage)  
(Version 04.0)**

*Complete this form in accordance with the instructions attached at the end of this form.*

**BASIC INFORMATION**

|   |  |
|---|--|
| <b>Title of the project activity</b>                              |  |
| <b>Version number of the PDD</b>                                  |  |
| <b>Completion date of the PDD</b>                                 |  |
| <b>Project participants</b>                                       |  |
| <b>Host Party</b>   |  |
| <b>Applied methodologies</b>                                      |  |
| <b>Sectoral scopes linked to the applied methodologies</b>        |  |
| <b>Estimated amount of annual average GHG emission reductions</b> |  |

**SECTION A. Description of project activity**

**A.1. Purpose and general description of project activity**

>>

**A.2. Location of project activity**

>>

**A.3. Geographical storage site**

>>

**A.4. Technologies/measures**

>>

**A.5. Environmental and socio-economic conditions**

>>

**A.6. Parties and project participants**

| Parties involved     | Project participants                       | Indicate if the Party involved wishes to be considered as project participant (Yes/No) |
|----------------------|--|--|
| Party A (host Party) | Private entity A<br>Public entity A<br>... |  |
| Party B              | Private entity B<br>Public entity B<br>... |  |
| ...                  | ...  |  |

**A.7. Public funding of project activity**

>>

**A.8. History of project activity**

>>

**A.9. Financial provisions**

>>

**A.10. Liability**

>>

**A.11. Applicable laws and regulations**

>>

**SECTION B. Application of selected methodologies**

**B.1. Reference to methodologies**

>>

**B.2. Applicability of methodologies**

>>

**B.3. Project boundary, sources and greenhouse gases (GHGs)**

>>

|                         | Source   | GHG              | Included? | Justification/Explanation |
|-------------------------|----------|------------------|-----------|---------------------------|
| <b>Baseline</b>         | Source 1 | CO <sub>2</sub>  |           |                           |
|                         |          | CH <sub>4</sub>  |           |                           |
|                         |          | N <sub>2</sub> O |           |                           |
|                         |          | ---              |           |                           |
|                         | Source 2 | CO <sub>2</sub>  |           |                           |
|                         |          | CH <sub>4</sub>  |           |                           |
|                         |          | N <sub>2</sub> O |           |                           |
|                         |          | ---              |           |                           |
|                         | ---      | ---              |           |                           |
|                         |          | ---              |           |                           |
|                         |          | ---              |           |                           |
|                         |          | ---              |           |                           |
| <b>Project activity</b> | Source 1 | CO <sub>2</sub>  |           |                           |
|                         |          | CH <sub>4</sub>  |           |                           |
|                         |          | N <sub>2</sub> O |           |                           |
|                         |          | ---              |           |                           |
|                         | Source 2 | CO <sub>2</sub>  |           |                           |
|                         |          | CH <sub>4</sub>  |           |                           |
|                         |          | N <sub>2</sub> O |           |                           |
|                         |          | ---              |           |                           |
|                         | ---      | ---              |           |                           |
|                         |          | ---              |           |                           |
|                         |          | ---              |           |                           |
|                         |          | ---              |           |                           |

**B.4. Establishment and description of baseline scenario**

>>

**B.5. Demonstration of additionality**

>>

**B.6. Estimation of 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 or parameter.)*

|  |  |
|--|--|
| <b>Data/Parameter</b>                                |  |
| Data 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**

&gt;&gt;

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

| Year  | Baseline emissions (t CO <sub>2</sub> e) | Project emissions (t CO <sub>2</sub> e) | Leakage (t CO <sub>2</sub> e) | Emission reductions (t CO <sub>2</sub> e) |
|---|--|---|-------------------------------|---|
| Year 1  |  |   |                               |   |
| Year 2  |  |   |                               |   |
| Year 3  |  |   |                               |   |
| Year ...  |  |   |                               |   |
| <b>Total</b>                                    |  |   |                               |   |
| <b>Total number of crediting years</b>          |  |   |                               |   |
| <b>Annual average over the crediting period</b> |  |   |                               |   |

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

|                                    |  |
|------------------------------------|--|
| <b>Data/Parameter</b>              |  |
| Data 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**

>>

**SECTION C. Start date, crediting period type and duration**

**C.1. Start date of project activity**

>>

**C.2. Expected operational lifetime and phases of project activity**

>>

**C.3. Crediting period of project activity**

**C.3.1. Type of crediting period**

>>

**C.3.2. Start date of crediting period**

>>

**C.3.3. Duration of crediting period**

>>

**SECTION D. Risk and safety**

>>

**SECTION E. Environmental and socio-economic impacts**

>>

**SECTION F. Site development and management plan**

>>

**SECTION G. Local stakeholder consultation**

**G.1. Modalities for local stakeholder consultation**

>>

**G.2. Summary of comments received**

>>

**G.3. Consideration of comments received**

>>

**SECTION H. Approval and authorization**

>>

**Appendix 1. Contact information of project participants**

|                          |  |
|--------------------------|--|
| <b>Organization name</b> |  |
| <b>Country</b>           |  |
| <b>Address</b>           |  |
| <b>Telephone</b>         |  |
| <b>Fax</b>               |  |
| <b>E-mail</b>            |  |
| <b>Website</b>           |  |
| <b>Contact person</b>    |  |

**Appendix 2. Affirmation regarding public funding****Appendix 3. Geological storage site****Appendix 4. Applicability of methodologies and standardized baselines****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 report of comments received from local stakeholders**

**Appendix 10. Summary of post-registration changes**



## Attachment. Instructions for completing this form

### 1. General instructions

1. When designing a carbon capture and storage (CCS) project activity and completing this form, in addition to applying the “CDM project standard for project activities” (hereinafter referred to as the project standard) and the applied methodologies, consult the “Rules and Reference” section of the UNFCCC CDM website. This section contains all regulatory documents for the CDM, such as standards (including methodologies), procedures, tools, guidelines, clarifications, forms and the “Glossary: CDM terms”.
2. If the project participants, separately from the monitoring plan referred to in section B.7 below, develop a document describing how they intend to monitor sustainable development co-benefits of the project activity, including the frequency of reporting of monitoring results, and whether they intend to have monitoring results independently verified, attach such document to this form as a separate document.
3. When documenting the changes that occurred to the project activity in accordance with the applicable provisions relating to post-registration changes, prepare two versions of the PDD using this form, one in clean version and the other version indicating the changes to the previously approved PDD (i.e. the PDD at registration, renewal of the crediting period or the last post-registration change, whichever the latest) in track-change. In addition, provide a summary of the changes in Appendix 10 below.
4. Where a PDD contains information that the project participants wish to be treated as confidential/proprietary, submit documentation in two versions:
  - (a) One version where all parts containing confidential/proprietary information are made illegible (e.g. by covering those parts with black ink) so that the version can be made publicly available without displaying confidential/proprietary information;
  - (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), Board members and alternate members, panel and working group members, external experts requested to consider such documents in support of work for the Board, and the secretariat).
5. Information used to demonstrate additionality, to describe the application of the selected methodologies, and to support the environmental impact assessment, is not considered proprietary or confidential. Make any data, values and formulae included in spreadsheets provided accessible and verifiable.
6. Complete this form in English. Prepare all attached documents in English, or if their originals were prepared in other language, provide a full translation of the relevant sections of these documents in English.
7. Complete this 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 tables and their columns in this form. Add rows of the tables as needed. Add additional appendices as needed.
9. If a section of this form is not applicable, explicitly state that the section is left blank intentionally.
10. Use an internationally recognized format for presentation of values. For example, use digits grouping in thousands and mark a decimal point with a dot (.), not with a comma (,).

11. Complete this form deleting this Attachment.

## 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) Names of the project participants;
  - (e) Name of the host Party;
  - (f) Titles and UNFCCC reference numbers of the applied methodologies;
  - (g) Sectoral scopes linked to the applied methodologies, clearly indicating mandatory sectoral scopes and if applicable, conditional sectoral scopes for the project activity;
  - (h) Estimated amount of annual average GHG emission reductions during the crediting period (t CO<sub>2</sub>e).

### SECTION A. Description of project activity

#### A.1. Purpose and general description of project activity

1. Provide the purpose and a general description of the project activity, including a summary of:
  - (a) The location of the project activity;
  - (b) The technologies/measures employed by the project activity;
  - (c) The project boundary;
  - (d) The baseline scenario;
  - (e) The estimates of annual average and total GHG emission reductions for the chosen crediting period.
2. Describe how the project activity contributes to sustainable development (not more than one page).
3. Provide a full description of 1(a)–(e) above in sections A.2, A.4, B.3, B.4 and B.6 below, respectively.

#### A.2. Location of project activity

1. Provide details of the physical/geographical location of the project activity, including physical address (host Party, region/state/province, city/town/community, etc.) and a map showing at least the outer geographical boundaries of the project activity and indicating any borders between countries, and if necessary, other information allowing for the unique identification of the project activity (e.g. geographic coordinates).
2. Do not exceed one page for the description of location.

#### A.3. Geographical 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 3 below.

**A.4. Technologies/measures**

1. Describe the technologies/measures to be employed and/or implemented by the project activity, including:
  - (a) A list of the facilities, systems and equipment that will be installed and/or modified by the project activity;
  - (b) The arrangement of the facilities, systems and equipment;
  - (c) The monitoring equipment and their location in the systems.
2. Describe the types and levels of services (normally in terms of mass or energy flows) provided by the facilities, systems and equipment that are being modified and/or installed under the project activity and their relation, if any, to other facilities, systems and equipment outside the project boundary.
3. For the facilities, systems and equipment that are being modified and/or installed under the project activity, provide information on:
  - (a) The age and average lifetime of the equipment based on the manufacturer's specifications and industry standards;
  - (b) The existing and forecast installed capacities, load factors and efficiencies;
  - (c) The energy and mass flows and balances of the facilities, systems and equipment, if necessary.
4. Provide a short summary of facilities, systems and equipment in the baseline scenario as established in section B.4 below.
5. Do not provide information that is not essential to understanding the purpose of the project activity and how it reduces GHG emissions. Do not include information related to facilities, systems and equipment 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.
6. Describe how the technologies/measures and know-how for their use are transferred to the host Party, where applicable.

**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;
  - (d) Climatic data.

**A.6. Parties and project participants**

1. Using the table, list the Parties and the project participants involved in the project activity, and provide contact information of the project participants in Appendix 1 below.
2. When this form is completed in support of a proposed new methodology, identify at least the host Party and any known project participants (e.g. those proposing the new methodology).

**A.7. Public funding of project activity**

1. Indicate whether the project activity receives public funding from Parties included in Annex I to the Convention. If so:
  - (a) Provide information on Parties providing public funding;
  - (b) Attach in Appendix 2 below, the affirmation obtained from such Parties in accordance with the applicable provisions in the project standard.

**A.8. History of project activity**

1. Confirm that:
  - (a) The proposed CDM project activity is neither registered as a CDM project activity nor included as a component project activity (CPA) in a registered CDM programme of activities (PoA);
  - (b) The proposed CDM project activity is not a project activity that has been deregistered.
2. Declare whether:
  - (a) The proposed CDM project activity was a CPA that has been excluded from a registered CDM PoA;
  - (b) A registered CDM project activity or a CPA under a registered CDM PoA whose crediting period has or has not expired (hereinafter referred to as former project) exists in the same geographical location as the proposed CDM project activity.
3. If the declaration on 2(a) or 2(b) above is positive, demonstrate that the proposed CDM project activity meets all conditions for registration in accordance with the applicable provisions in the project standard relating to registration of an excluded CPA as a CDM project activity or registration of a project activity that is in the same geographical location as a former project.

**A.9. Financial provisions**

1. Describe the financial provisions that have been established in accordance with the applicable provisions in the project standard.

**A.10. 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 applicable provisions in the project standard.

**A.11. 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 "CDM project cycle procedure for project activities".

**SECTION B. Application of selected methodologies****B.1. Reference to methodologies**

1. Indicate the exact reference (number, title, version) of:
  - (a) The selected methodologies (e.g. ACM0001: "Large-scale Consolidated Methodology: Flaring or use of landfill gas" (Version 18.0));
  - (b) Any tools and other methodologies to which the selected methodologies refer (e.g. "Methodological Tool: TOOL07: Tool to calculate the emission factor for an electricity system" (Version 05.0)).
2. Refer to the UNFCCC CDM website for the exact reference of approved methodologies, tools and standardized baselines.

**B.2. Applicability of methodologies**

1. Justify the choice of the selected methodologies by showing that the project activity meets all applicability conditions of the methodologies. Explain documentation that has been used for the justification and provide references to it or include the documentation in Appendix 4 below.
2. Ensure that the project activity complies with all the relevant requirements of the selected methodologies, including the application of any tools, standards or guidelines required by the methodologies.

**B.3. Project boundary, sources and greenhouse gases (GHGs)**

1. Define the project boundary of the project activity, including the physical delineation of the project activity, and which sources and GHGs are included in the project boundary, in accordance with the applied methodologies.
2. Use the table in the form to describe emission sources and GHGs included in the project boundary for the purpose of calculating project emissions, baseline emissions and if applicable, leakage emissions.
3. In addition to the table, where possible, present a flow diagram of the project boundary based on the description provided in section A.4 above. Include in the flow diagram all the facilities, systems and equipment, 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.
4. 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.

**B.4. Establishment and description of baseline scenario**

1. Describe the baseline scenario for the project activity and explain how it is established in accordance with applicable provisions for the establishment and description of baseline scenarios in the project standard, the applied methodologies, and where applicable, the applied standardized baselines.
2. Where the procedure in the applied methodologies, and where applicable, the applied standardized baselines 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.
3. Describe how the relevant national and/or sectoral policies, regulations and circumstances are taken into account in accordance with the project standard.
4. Provide a list of facilities, systems and equipment in the baseline scenario, and clearly explain how the same types and levels of services provided by the project activity would have been provided in the baseline scenario.
5. Provide a transparent description of the baseline scenario as established above.
6. Note that this section 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 scenario and demonstrate additionality. If the “Methodological tool: Combined tool to identify the baseline scenario and demonstrate additionality” is used, replicate the same information in both sections. In this case, make a reference to the other section where the description is contained.

**B.5. Demonstration of additionality**

1. Demonstrate that the project activity is additional in accordance with the applied methodologies and applicable provisions for demonstration of additionality in the project standard. Where the procedure in the applied methodologies and/or tools 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. 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 related to the demonstration of prior consideration of the CDM in the project standard.
3. 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.
4. Where the barriers are involved in demonstrating additionality, only select the most relevant barriers. With key facts and/or assumptions and rationale, justify the credibility of the barriers. Provide relevant documentation or references.

## B.6. Estimation of emission reductions

### B.6.1. Explanation of methodological choices

1. Explain how the methods or methodological steps in the applied methodologies for calculating baseline emissions, project emissions, leakage emissions and emission reductions are applied to the project activity. Clearly state which equations will be used in calculating emission reductions.
2. Explain and justify all relevant methodological choices, including:
  - (a) Where the applied methodologies include different scenarios or cases, indicate and justify which scenario or case applies to the project activity;
  - (b) Where the applied methodologies provide different options to choose from, indicate and justify which option has been chosen for the project activity;
  - (c) Where the applied methodologies allow different default values, indicate and justify which default value has 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 are not monitored during the crediting period of the project activity but are determined before the registration of the project activity and remain fixed throughout the crediting period. Do not include here data that will only become available with the implementation 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 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 applied methodologies or default values specified in the methodologies in the compilation.
3. For each piece of data or parameter, complete the table, following the instructions below:
  - (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 or parameter, use one table. If necessary, use references to spreadsheets;
  - (b) "Source 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.

### 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 emissions expected during the crediting period of the project activity, applying all relevant equations provided in the applied methodologies. 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 data or parameters not available before the registration of the project activity and monitored during the crediting period of the project activity, 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: 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 spreadsheets.
4. Provide a sample calculation for each equation used.

### 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 of the project activity, using the table in the form.

**B.7. Monitoring plan**

1. Through sections B.7.1–B.7.3 below, provide a detailed description of the monitoring plan for the project activity developed in accordance with the applicable provisions in the project standard and the applied methodologies.
2. If the project participants choose to delay the submission of the monitoring plan in accordance with the applicable provisions in the project standard, clearly state that the submission of the monitoring plan is delayed and that this form does not contain information related to the monitoring plan.

**B.7.1. Data and parameters to be monitored**

1. Include specific information on how the data and parameters that need to be monitored in accordance with the applied methodologies will actually be collected during monitoring. Include here data and parameters that are determined only once for the crediting period of the project activity but that will become available only after the implementation of the project activity.
2. For each piece of data or parameter, complete the table, following the instructions below:
  - (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 or parameter that will be monitored during the crediting period of the project activity, but is used for the purpose of calculating estimated emission reductions in sections B.6.3 and B.6.4 above. To report multiple values referring to the same data or parameter, use one table. If necessary, use references to 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 emissions;
  - (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.

**B.7.2. Sampling plan**

1. Describe the sampling procedure in accordance with the applied methodologies. Where relevant, provide additional information in Appendix 6 below, including relevant spreadsheets and modelling.

**B.7.3. Other elements of monitoring plan**

1. Describe the other elements of the monitoring plan as outlined in the project standard and the applied methodologies, including the operational and management structure for monitoring, provisions for data archiving, and responsibilities and institutional arrangements for data collection and archiving.
2. Describe provisions for history matching and for determining under which exact conditions the monitoring plan shall conclude that a significant deviation occurred during history matching.
3. Describe when the monitoring of the geological storage site begins.
4. Provide any relevant further background information in Appendix 6 below.

**SECTION C. Start date, crediting period type and duration****C.1. Start date of project activity**

1. State the start date of the project activity in the format of dd/mm/yyyy.
2. Describe how the start date has been determined in accordance with the definition of start date provided in the “Glossary: CDM terms”, and provide evidence to support this date.

**C.2. Expected operational lifetime and phases of project activity**

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

**C.3. Crediting period of project activity****C.3.1. Type of crediting period**

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

**C.3.2. Start date of crediting period**

1. State the start date of the crediting period of the project activity in the format of dd/mm/yyyy. Do not attach any qualifications to the start date, such as "expected".

**C.3.3. Duration of crediting period**

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

**SECTION D. Risk and safety**

1. Describe the comprehensive and thorough risk and safety assessment that was undertaken in accordance with the applicable provisions in 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 impacts**

1. Describe the comprehensive analysis of the environmental and socio-economic impacts of the project activity in accordance with the applicable provisions in 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 applicable provisions in the project standard.
2. 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. Modalities for local stakeholder consultation

1. If there are host Party rules on local stakeholder consultations applicable to the project activity, provide a summary of the consultations carried out under the host Party rules, including the direct positive and negative impacts identified and how the negative impacts identified will be addressed. If such host Party rules do not exist, follow the instructions in 2–4 below.
2. Describe the process of the local stakeholder consultation undertaken for the project activity and demonstrate how the process complies with the relevant requirements in the project standard regarding:
  - (a) The scope of local stakeholder consultation;
  - (b) The minimum group of stakeholders to be involved;
  - (c) The means for inviting stakeholders' participation;
  - (d) The information to be made available to stakeholders;
  - (e) The conduct of consultation.
3. For 2(b) above, provide evidence that invitations were sent to the relevant stakeholders and that their comments were invited. If any of the relevant stakeholders were not invited, provide an appropriate justification.
4. For 2(c) above, describe the steps/actions taken to invite comments, taking into account local and national circumstances.

### G.2. Summary of comments received

1. Prepare a summary report of the comments received during the local stakeholder consultation and attach the report as Appendix 7 belowAppendix 9 below.
2. Provide an executive summary of the comments in this section.
3. Describe complaints from local stakeholders, if any, submitted to the DNA of the host Party and forwarded through the DOE on the handling of the outcome of the local stakeholder consultation.

### G.3. Consideration of comments received

1. Describe how the comments and, where applicable, complaints provided by local stakeholders have been taken into account in the PDD or in the revised PDD, including a justification if any comments were not incorporated.

## SECTION H. Approval and authorization

1. Indicate whether the letters of approval from Parties that wish to be involved in the project activity are available at the time of submitting the PDD to the DOE for validation. If so, provide the letters.
2. Indicate whether each project participant listed in the PDD is authorized by at least one Party involved in the project activity in the respective letter of approval or in a separate authorization letter. If there are separate authorization letters, provide the letters.

## Appendix 1. Contact information of project participants

1. For each project participant listed in section A.6 above, complete the table. Copy and paste the table as needed.

## Appendix 2. Affirmation regarding public funding

1. If applicable, attach the affirmation obtained from Parties included in Annex I to the Convention providing public funding to the project activity.

## Appendix 3. Geological storage site

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

#### **Appendix 4. Applicability of methodologies and standardized baselines**

1. Provide any further background information on the applicability of the selected methodologies.

#### **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 on 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 on the environmental and socio-economic impact assessments.

#### **Appendix 9. Summary report of comments received from local stakeholders**

1. Provide a summary report of comments received from local stakeholders on the project activity during and, if any, after the local stakeholder consultation. In the report, also identify stakeholders who have made comments, including comments forwarded by the DNA of the host Party.

#### **Appendix 10. Summary of post-registration changes**

1. Provide a summary of the post-registration changes being proposed in this version of the PDD, and where applicable, the history of all post-registration changes to the project activity that have been approved by the Board after its registration. For all post-registration changes, include reasons for the changes and any additional information relating to the changes.

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## Document information

| <i>Version</i> | <i>Date</i>   | <i>Description</i>  |
|----------------|---------------|---|
| 04.0           | 4 July 2017   | Revision to: <ul style="list-style-type: none"> <li>• Ensure consistency with the “CDM project standard for project activities” (CDM-EB93-A04-STAN) (version 01.0);</li> <li>• Make editorial improvement.</li> </ul>   |
| 03.0           | 15 April 2016 | Revision to ensure consistency with the “Standard: Applicability of sectoral scopes” (CDM-EB88-A04-STAN) (version 01.0).  |
| 02.0           | 2 May 2014    | Revisions to: <ul style="list-style-type: none"> <li>• 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;</li> <li>• 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");</li> <li>• Change the reference number from F-CDM-CCS-PDD to CDM-CCS-PDD-FORM.</li> </ul> |
| 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