

SUB MANAGEMENT PLAN CO2 MANAGEMENT



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SBS	08J-00 - A9 Badhoevedorp - Holendrecht			
WBS	WP-01.08.04 - Environment and Sustainability			

Content Sub Management Plan (SMP) of CO2 Management

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Goal

of SMP of CO2 Management

The goal of SMP of CO2 Management is to obtain the CO2 Certificate Level 5 (according to CO2 Performance Ladder) for FCC Construcción S.A. (NL), aligned with:

- FCC Construcción S.A. policy on CO2 emissions reduction.**
- EPCM Contract requirements, based on DBFM Contract requirements.**

This Certification will be obtained and maintained during the EPCM contract by means of applying specific processes of research, definition and application of reduction measures on CO2 emissions, to be applied in the processes of design, procurement and execution of the works.

Requirements (1/2)

Requirements of the DBFM contract that applies to SMP of CO2 Management

Requirements analysis conducted through procedure “Requirement Analysis”, concluded that there are two requirements for SMP of CO2 Management:

COMPLETE OVERVIEW REQUIREMENT ANALYSIS				
REQUIREMENT CODE	REQUIREMENT TITLE (ENGLISH)	REQUIREMENT DESCRIPTION (ENGLISH)	ID SOURCE DOCUMENT	SOURCE DOCUMENT
AFG-2492	CO2 ambition level	Contractor must realise a CO2-reduction at CO2-ambition level 5 as described in appendix 7.2A of the tender guideline.	DOC-01068	Verklaring omtrent CO2-ambitionniveau
ME_03026	Compliance with the CO2 ambition level	<p>Every year, the Contractor shall demonstrate compliance with at least the CO2 ambition level established in Schedule 8 (Qualitative Part of the Tender), by:</p> <p>(a) submitting a “CO2 Bewust” (CO2 Aware) certificate in keeping with the presented CO2 ambition level, or</p> <p>(b) by submitting project-specific supporting documents showing that the work has been carried out in accordance with the criteria laid down in the tables included in (Public Procurement Guide Version 3.0: The EMAT criterion CO2 performance ladder for contracting authorities</p> <p>If the Contractor is a partnership (joint venture) of companies, each participant in the consortium should, at approach (a), submit a CO2 Bewust certificate that is at least in accordance with the presented CO2 Ambition level.</p> <p>If the Contractor opts for approach (b), the Contractor has to demonstrate that the certifying institution indicated at the tender which will perform the testing is accredited for certification at the level of the ladder certificate corresponding with the ambition level proposed, and that the person implementing the testing on behalf of the certifying institution has verifiable experience with certification of companies at the level of the ladder certificate corresponding with the ambition level proposed.</p> <p>However, if there are companies in the joint venture that will not be performing any design and/or construction and/or maintenance work, e.g. because they are only making a financial contribution, these companies are not required to submit a “CO2 Bewust” certificate and the CO2 ambition level of these companies will not count towards determining the CO2 ambition level of the joint venture. Rather than the “CO2 Bewust” certificate, these companies need to submit a statement to the effect that they will not be carrying out any of the design and/or construction and/or maintenance work referred to above within the framework of the project.</p>	DR ID 10911	Bijlage 9 deel 3 Managementspecificaties

Requirements (2/2)

Requirements of the DBFM contract that applies to objects from DBS within the scope of SMP of CO2 Management

Requirements

AFG-2492 - CO2 ambition level

This requirement will be accomplished by means of the formal communication of the CO2 ambition level, done in the Declaration Statement of CO2 reduction of FCC Construcción S.A. (NL). as EPCM Contractor of VeenIX BaHo B.V.

ME-03026 - Compliance with the CO2 ambition level

This requirement will be accomplished by means of submitting a CO2 Bewust Certificate.

This certificate will be reached and maintained by means of the application of the reduction measures to be defined in the CO2 operative plans and procedures.

Scope

of SMP of CO2 Management

CO2 Management scope include research, calculations, and defining, planning, monitoring-controlling, analysing and reporting on CO2 reduction measures, and this scope is allocated within the WBS of VEENIX project in the work package “WP-01.08.04.01 - CO2 Management”.

The work package WP.01.08.04.01 contains the sub-work packages and, within then, the activities which manage the processes of CO2 Management.

CO2 Management Board, composed by VEENIX-EPCM Project Director and deputy, VEENIX-EPCM Project Control Manager, and CO2 Manager shall lead the management of CO2 Management scope.

WP-01.08 - Project Controls

WP-01.08.04 – Managing Environment & Sustainability

WP-01.08.04.01 – CO2 Management

WP-01.08.04.01.01 – CO2 Insight

WP-01.08.04.01.02 – CO2 Reduction

WP-01.08.04.01.03 – CO2 Transparency “Communication”

WP-01.08.04.01.04 – CO2 Participation

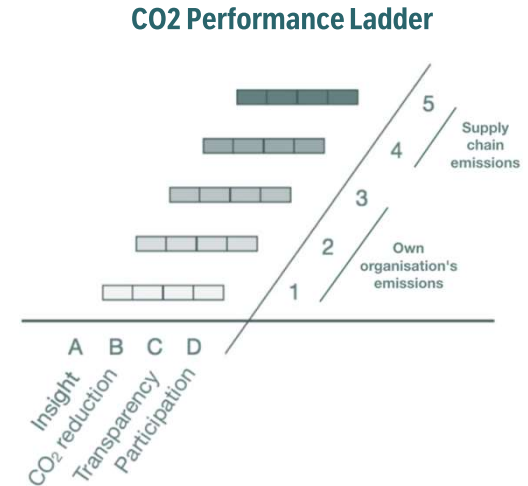
Approach (1/3)

The CO2 Performance Ladder; instrument and CO2 certification system in The Netherlands.

CO2 Management uses the CO2 Performance Ladder which is a sustainability tool to gain insight into and reduce our CO2 emissions, but it is also about CO2 conscious, behavior and decisions in our own business operations and execution of our project.

The CO2 Performance Ladder has five levels, rising from 1 to 5. Requirements are defined per level that apply to the CO2 performance of the company and its projects. These requirements arise from four perspectives: insight, reduction of emissions, transparency (“communication”) and participation. The location of the project on the CO2 Performance Ladder is determined by the highest level at which the project meets all requirements.

The CO2 Performance Ladder helps VEENIX-EPCM to structure internal project processes around energy savings and CO2 reduction and to set up sustainability reporting with a focus on CO2.



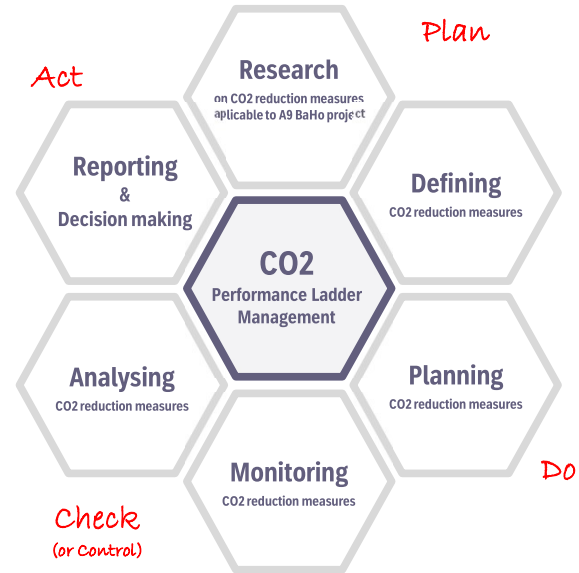
Approach (2/3)

The approach describes how we achieve our goal within our scope.

In addition, CO2 Management also applies the PDCA approach (Plan, Do, Check, Act) by means of developing and deploying the processes of research-calculations, defining, planning, monitoring-controlling, analysing and reporting on CO2 emissions reduction measures, in a continuous cycle that ensures that the goal of certification Level 5 in CO2 Performance Ladder is always “on track” and “in control”.

These processes are developed by means of operative plans and procedures.

Decision making on CO2 Performance Ladder scope shall be done in the CO2 Management Board monthly meetings.



Approach (3/3)

The approach describes how we achieve our goal within our scope.

Twice per year the CO2 Management Board reviews the CO2 management system to achieve continuous suitability, adequacy, efficacy and alignment with the strategic direction of the organisation. The listed input and output are mandatory for each review of the CO2 Management system, as part of requirement **ME-03026 - Compliance with the CO2 ambition level**. [CO2 PerformanceLadder Handbook 6.1.1.2]

Input - Agenda	Output - Minutes
Status of actions from previous reviews & audits	Decisions for changes to the CO2 Management System
Efficacy of actions taken to address reduction opportunities	Probability of achieving reduction objectives
Performance and efficacy of the CO2 management system	Efficacy of the CO2 management system, including an explicit statement about the extent to which the CO2 Performance Ladder functions as intended
Adequacy of resources	Need for resources
Opportunities to improve	Selected opportunities to improve
Proposed changes in external and internal key points	

Deliverables

The product breakdown below shows the deliverables of SMP of CO2 Management.

CO2 Management goal is in the essence getting Certification Level 5 on CO2 Performance Ladder, but also reporting to CO2 Management Board on CO2 management and CO2 reduction measures status for decision making.

This information and analysis must be precise but simple, to show at once sight the real status of the project on CO2 to the CO2 Management Board members.

Monthly Factsheet of CO2 Management, (Quarterly and yearly reports on CO2 Performance Ladder), provide in time this information to CO2 Management Board for decision making headed to reach and maintain the CO2 Certificate Level 5.

WP-01.08.04.01 - CO2 Management

**Factsheet for CO2
Management**

**Quarterly report
on CO2 Performance
Ladder**

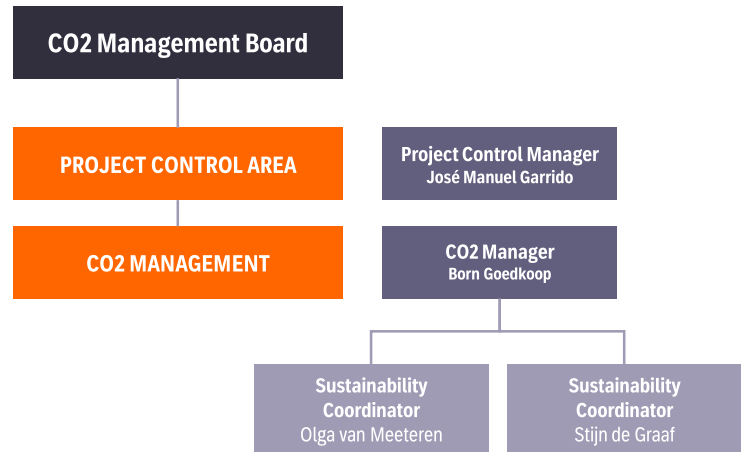
**Yearly report
on CO2 Performance
Ladder**

Organization (1/2)

Organization of SMP of CO2 Management

CO2 Manager: Responsible for: Managing CO2 team; validation of SMP, OP and PRC; preparation of CO2 team-task-planning; validation of CO2 communications; validation of Monthly Factsheet of CO2 Management, Quarterly and yearly reports on CO2 Performance Ladder, and reporting to CO2 Management Board and RWS on CO2 Performance Ladder.

Sustainability Coordinator: Responsible for application of CO2 procedures (research, calculations, monitoring-controlling and analysing), preparation of draft CO2 Communications, preparation of Monthly Factsheet of CO2 Management, Quarterly and yearly reports on CO2 Performance Ladder.



Organization (2/2)

Organization of SMP of CO2 Management

Name Role	Description Role	Competences	Knowledge Level	Work Experience	Certificates
CO2 Manager	Team Manager	Managing, Planning and Reporting	EQF5 (or similar)	> 5 years	EQF5 (or similar)
Sustainability Coordinator (2)	Analyst & Coordinator	Research, data analysis and reporting.	EQF5 (or similar)	> 2 years	EQF5 (or similar)

Name Report	Frecuency	Goal	Responsible Role	Responsible Name	Recipients	Results
Factsheet of CO2 Reduction Measures	Monthly	Provide insight to the CO2 Management Board on CO2 KPIs.	CO2 Manager	Born Goedkoop	CO2 Management Board	Board monitoring and decision making.
Quarterly Report on CO2 Performance Ladder	Quarterly (Est. April, August and December)	Provide insight to the CO2 Management Board on CO2 Performance Ladder	CO2 Manager Project Control Manager	Born Goedkoop José Manuel Garrido	CO2 Management Board	Board decision making.
Yearly Report on CO2 Performance Ladder	Yearly (Est. March)	Provide insight to the CO2 Management Board on CO2 Performance Ladder	CO2 Manager Project Control Manager	Born Goedkoop José Manuel Garrido	CO2 Management Board	Board decision making.

Name Meeting	Frecuency	Goal	Result	Attendees
CO2 Weekly Meeting	Weekly	Briefing on CO2 Performance Ladder status and CO2 team and procedures performance.	MoM	Project Control Manager CO2 Manager; Sustainability Coordinators and Project Controller
CO2 Management Board Meeting	Monthly	Report the CO2 Management Board on CO2 Performance Ladder status and monitoring on CO2 Reduction Measures for decision making addressed to reach the Certification level 5 on CO2 Performance Ladder.	MoM Decisions approved	EPCM Project Director & Deputy Project Control Manager CO2 Manager

Planning

Implementation plan and planning of WP execution.

Preparation – Insight - Reduction

2022



Tranparency – Participation

2022



D –Internal& externalAudit

2022 2023



Operative Plans

Detailed operative plans within SMP of CO2 Management

CO2 Management Operative Plan

The operative plan for obtaining and maintaining during the project life the CO2 Performance Ladder Certificate Level 5.

CO2 Implementation Plan

The operative plan to deploy the full implementation of the SMP of CO2 Management in the organization of the project.

Energy Management Operative Plan (ISO-50001)

The operative plan for developing and controlling the scope 1 and 2 of the CO2 Performance Ladder Certification.

CO2 Communication Operative Plan

The operative plan for developing and deploying the internal and external communication of VEENIX-EPCM on CO2, subdued and aligned with FCC Construction S.A. communication policy on environment and CO2.

CO2 Chain Initiative Operative Plan

- E-Driver (energy consumption - transport)
- Re-usage Beams (concrete & steel)
- t.b.d.