



**NORDIC PARTNERSHIP INITIATIVE PILOT PROGRAMME FOR
SUPPORTING UP- SCALED CLIMATE CHANGE MITIGATION ACTION
IN VIETNAM'S CEMENT SECTOR**



Completion Report

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Submitted to

Ministry of Construction

Department of Science, Technology and Environment (DSTE)



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1 INTRODUCTION

The 27th January 2014 a contract was signed between the Ministry of Construction (MOC) and the Consortium. The consortium consists of 5 companies – NIRAS, South Pole, Perspectives, VNEEC and NIRAS-Vietnam (RCEE-NIRAS). The contract period runs from primo 2014 to first half 2016.

This last quarterly report covers the period of Mid. January 2016 to June 2016. During this period, the Consultant has been working to finalize all remaining deliverables and a successful final workshop held on 17th June 2016 in Hanoi, Vietnam.

This report also serves as the completion report and sections with the evaluation of the project are integrated.

2 OVERVIEW OF OUTPUTS

The figure below illustrates the project outputs achieved from this assignment.

Figure 1: Overview of project outputs



The next sections will provide more details of the project outputs.

2.1 Technical working papers.

A total of 26 technical working papers have been performed. During the project implementation, outputs of several tasks have been merged to be included in some products and sub-products. A list of all technical papers are summarized in the table below.

Table 1: Overview of project outputs			
No.	Task Number	Name of technical working paper	Completion date
1	P-I.1.1-3	Assessment of Legal and Institutional Framework of Cement Sector	23/01/2015
2	P-0.7	Additional Study on low carbon options implemented at Holcim Viet Nam and VICEM Ha Tien Company	09/09/2014
3	P-I.2.1	Emission and Project Boundary	19/01/2015
4	P-I.2.3-4	Assessment of availability and quality of the data and gap analysis	28/01/2015
5	P-I.3.1-4:	Energy and CO2 emission scenario analysis of the Viet Nam cement industry.	14/04/2015
6	P-I.2.2	Data set guidelines and calculation methodology	16/10/2014
7	P-I.3.1-4	Energy and CO2 emission scenario analysis of the Viet Nam cement industry	14/04/2015
8	P-I.7.1	Existing and potential financing sources, instruments and incentives to support mitigation action in Viet Nam's cement sector	10/09/2015
9	P-I.5.1a	Current and planned policies	24/06/2015
10	P-I.5.1.b	Policies in other countries and their applicability in Viet Nam	6/10/2015
11	P-1.8.1	Stakeholder Engagement Plan to support the NAMA for the cement sector in Viet Nam	30/03/2016
12	P-I.2.5-I.2.6	Data collection and database system including first version of database	09/2015
13	P-I.6.1-I.6.2	NAMA Design Options for the Cement Sector in Viet Nam and Supporting Regulatory Framework	30/11/2015
14	P-I.6.3	Institutional requirements for the possible NAMA	30/12/2015
15	P-I.7.4	Programs/projects in Viet Nam relevant for the NAMA Cement project	14/01/2016
16	P-I.4.1-4	Setting up sector-level MRV system of international standard for the cement sector in Viet Nam (a general guiding document for NAMA implementation)	20/01/2016

17	P-I.5.2-4	Low carbon options for the cement sector of Viet Nam	11/04/2015
18	P-I.7.2,3, 5	Definition of NAMA financing needs, analysis of carbon market mechanisms to finance the NAMA and setting up a NAMA financial plan	24/12/2015
19	P-I.9.1	Study on Baseline Scenarios and Mitigation Options for the Cement Sector of Viet Nam	11/01/2016
20	P-I.9.2	Draft Readiness Plan for the Cement Sector in Viet Nam	30/11/2015
21	P-II.1.1,II.1.2, III.1.1	Stakeholder engagement, Capacity building and recommendations	13/04/2016
22	P-III.2.2 & III.2.5	Guide on database development and management at plant level and link to sectoral level	23/02/2016
23	P-III.2.4	Guide on NAMA Design and MRV structure	02/03/2016
24	P-II.2.4	Updating the Financial Plan based on the remarks from two stakeholder consultations	(20/04/2016)
25	P-II.2.1-2	Note on status of consultation meetings and its impact on baseline and options study	(19/04/2016)
26	P-III.3.4	Draft and final Readiness Plan	18/05/2016 and June 2016.

2.2 Consultation meetings/workshops on NAMA financing, MRV and policy

During the project timeline, a total of **29** consultation meetings/workshops on NAMA financing, MRV and policy have been organized.

No.	Consultation meetings/workshops	Purpose of the meetings	Date
1	Meeting with Ministry of Construction	Project Workplan	03/2014
2	Meeting with Ministry of Finance	Project Introduction and Engagement	03/2014
3	Meeting with Ministry of Planning and Investment	Project Introduction and Engagement	03/2014

4	Meeting with Ministry of Industry and Trade	Project Introduction and Engagement	03/2014
5	Meeting with Vietnam Cement Industry Corporation	Project Introduction and Engagement	03/2014
6	Meeting with National Cement Association	Project Introduction and Engagement	03/2014
7	Vietnam Association for Building Materials	Project Introduction and Engagement	03/2014
8	Meeting with Vietnam Polysius – Part of ThyssenKrupp	Project Introduction and Engagement	03/2014
9	Meeting with World Bank	Project Introduction and Engagement	03/2014
10	Meeting with ADB	Project Introduction and Engagement	03/2014
11	Meeting with UNDP	Project Introduction and Engagement	03/2014
12	Meeting with Ministry of Industry and Trade	NAMA Financing, MRV and Policy	03/2015
13	Meeting with Vietnam Environment Protection Fund	NAMA Financing	03/2015
14	Meeting with Department of Meteorology, Hydrology and Climate Change/Ministry of Natural Resources and Environment	NAMA Financing, MRV and Policy	03/2015
15	Meeting with VICEM	NAMA Financing, MRV and Policy	03/2015
16	Meeting with Ministry of Planning and Investment	NAMA Financing,	03/2015
17	Meeting with Institute of Building Materials	NAMA MRV and Policy	03/2015
18	Meeting with Vietnam Cement Association	NAMA Financing, MRV and Policy	03/2015
19	Meeting with Legal Department/Ministry of Finance	MA Financing	03/2015
20	Meeting with Institute of Strategy and Policy on Natural Resources and Environment	NAMA MRV and Policy	03/2015
21	Meeting with Department of Building Materials/Ministry of Construction	NAMA MRV and Policy	03/2015

22	Meeting with Vietnam National Energy Efficiency Programme/Ministry of Industry and Trade	NAMA MRV and Policy	03/015
23	Meeting with General Department of Energy/Ministry of Industry and Trade	NAMA MRV and Policy	03/2015
24	Meeting with Industrial Safety Techniques and Environment Agency/Ministry of Industry and Trade	NAMA MRV and Policy	03/2015
25	Meeting with World Bank	NAMA Financing	03/2015
26	Meeting with ADB	NAMA Financing	03/2015
27	Meeting with USAID	NAMA Financing	03/2015
28	Meeting with Energy Saving Company Organization	NAMA Financing	03/2015
29	Meeting with Vietnam Institute of Building Materials	Energy and CO2 Emission Scenario analysis in Vietnam Cement sector	04/2016

2.3 Project progress workshops

Aiming at project progress updates and collection of comments and opinions for project activities consultation, 4 Project progress workshops have been performed and chaired by the Ministry of Construction. These workshops have been attracted a lot of stakeholders relevant and interested.

Table 3: List of project progress workshops

No.	Workshops	Date
1	Inception Workshop	4/2014
2	MRV Workshop	11/2014
3	NAMA in Vietnam's cement sector	10/2015
4	Final workshop	06/2016

2.4 Training workshops on Energy and CO2 reporting

A total of 4 training workshops on *Energy and CO2 Nationally Appropriate Mitigation Action (NAMA) in Vietnam's cement Sector* have been organized with the participants from cement companies. The trainings have been held throughout the country to facilitate the participation of cement companies located in different regions of the country.

No.	Training workshops	Venue	Time
1	Consultation and training workshop # 1	Ho Chi Mnh City	12/2015
2	Consultation and training workshop # 2	Hanoi	01/2016
3	Consultation and training workshop # 3	Ninh Binh province	01/2016
4	Consultation and training workshop # 4	Quang Ninh province	03/2016

2.5 Site-visits to cement plants

In the framework of this assignment, **28** site-visits have been made to different cement plants in Vietnam for assessment of cement production situation and consultation for project activities.

No.	Name of cement plants to be visited	Time
1	Visit But Son cement plant	08/2014
2	Visit Bim Son cement plant	08/2014
3	Visit Duyen Ha cement plant	08/2014
4	Visit Nghi Son cement plant	08/2014
5	Visit Vicem Ha Tien cement Plant	07/2014
6	Visit Hon Chong cement Plant	07/2014
7	Visit Tam Diep cement plant	03/2015
8	Visit Song Da Cao Cuong Company	03/2015
9	Visit Hoang Thach cement plant	03/2015
10	Visit Nghi Son cement plant	03/2015
11	Visit Duyen Ha cement Plant	03/2015
12	Visit He Duong cement plant	03/2015
13	Visit Tam Diep cement plant	03/2015
14	Visit Visai 3 cement plant	04/2015
15	Visit Thanh Thang cement plant	04/2015

16	Visit Huong Duong cement plant	04/2015
17	Visit Song Gianh cement plant	04/2015
18	Van Hoa cement plant	04/2015
19	Visit Ang Son cement plant	04/2015
20	Visit Huu Nghi cement plant	04/2015
21	Visit Song Thao cement plant	04/2015
22	Visit Vinh Phu cement plant	04/2015
23	Visit Chinfon cement plant	04/2015
24	Visit Thang Long cement plant	04/2015
25	Visit Cam Pha cement plant	04/2015
26	Visit Ha Tien 1 cement plant	12/2015
27	Visit FICO Tay Ninh cement plant	12/2015
28	Visit Tay Do cement plant	12/2015

2.6 Study tours to Europe

For capacity building to Ministry of Construction 's officials, 2 study tours to Europe have been organized with participants from different department of Ministry of Construction. The participants highly appreciated the study tours where they have good opportunities to learn and share experience and knowledge how to develop the cement sector sustainably.

No.	Study tour	Time
1	Study tour to Switzerland and Sweden	09/2014
2	Study tour to France and Sweden	11/2015

2.7 Progress report

7 progress reports have been prepared by the Consultant and submitted to NDF and MOC on a quarterly basic. The progress reports have included the project progress and achievement during the period, emerging ideas and opportunities as well as administrative issues if have and proposal for improvement.

No.	Progress Report	Submission date
1	Q1 Progress Report	06/2014

2	Q2 Progress Report	08/2014
3	Q3 Progress Report	12/2014
4	Q4 Progress Report	01/2015
5	Q5 Progress Report	04/2015
6	Q6 Progress Report	08/2015
7	Q7 Progress Report	01/2016

3 PRESENTATION OF ADMINISTRATIVE ISSUES.



Photo: Final workshop on 17 June 2016 in Hanoi.

The final workshop was managed and chaired by MOC. NDF was represented by the Swedish Embassy and NOAK was represented by the Swedish Energy Agency. Ministries, cement companies, investors and as well as other stakeholders joined the workshop. The Final workshop was very successful and the stakeholders appreciated the efforts done to develop the Readiness plan for the NAMA cement.

The project has been successfully administrated and the project administration can be considered finalised and the final invoice has been forwarded.

All the equipment financed by the project budget has been formally handed over to MOC. Representative of Consultant, NIRAS A/S and representative of MOC has signed the minutes of equipment delivery.

4 LESSONS LEARNED.

The project has been very successfully implemented. It has been observed that the careful preparation of the project and tender for this assignment by NDF and MOC, is a cornerstone for the successful implementation.

Also, the peer-review process initiated by MOC has been important to secure active involvement of key stakeholders. Despite the fact that it has been extra time-consuming and slightly delayed for the project progress, the results of peer-review has been huge advantage for the project with many valuable comments and contribution.

We have overlooked the need to translate all documents into Vietnamese, but it is also important to secure the national involvement. It is a very time-consuming effort and it delayed the response for some products. As lesson learnt, requirement for deliverables in both English and local language- Vietnamese should be include in future tenders.

The project is complex and many sub-tasks have been developed in parallel. The overall original time-schedule for the project was too optimistic and we have noted this before. However, the Consultant team was done its utmost to keep the progress and developing several reports in parallel to try to recover some of the incurred delays. For doing this it has been important that MOC and NDF have been flexible to adjusting the time-schedule for several tasks, so we could be them in parallel.

Most products and sub-products are interlinked and the support from MOC and NDF to merge and incorporate the outputs of some sub-tasks into one integrated report were fundamental to increase the quality and overview of the outputs. One of the reasons to the success of the project has requested that MOC requested the consultant to perform a significant number of site visits and workshops in the regions to meet and involve the cement plants

Maybe it is also advisable to include a task to link a potential follow-up phase with this assignment to avoid a potential delay in the implementation of the project.

5 CONCLUSIONS AND RECOMMENDATIONS

The project has been very successfully implemented.

In case NDF has any opportunity to support MOC in attracting further international funding it will be very helpful for MOC to continue the real implementation of the Readiness Plan of the NAMA for the cement sector in Viet Nam.