 Jan De Nul G R O U P	CO2 Performance Ladder		3B2 REVISION 8.0
	Energy Management Action Plan		

Date	27/06/2013	05/09/2013	15/12/2014	21/06/2016	26/09/2017	08/06/2018	07/06/2019	26/06/2020
Revision	00	01	02	03	05	06	07	08
Note:	Start	Cancellation of energy atoll project	Update 2014	Update 2016	Update 2017	Update 2018	Update 2019	Update 2020

1. INTRODUCTION

In this Energy Management Action Plan (EMAP), we describe how Jan De Nul Group achieves CO₂ reduction targets and measures, as set by the Management Board, within the framework of its CO₂ performance ladder certification.


The <<Action list CO₂PL>> has been updated with the results of the energy audits (1B2-Energy Audit Report YYYY) and additional energy assessments, such as

- Energy Roadmap: Jan De Nul NV
Reference: 2016-P&S-3000436046 October 2016, which is still representative on the date of revision and can also be applied in the other buildings within the scope of CO₂-PL certification;
- Heating audits on combustion plants conducted in the course of 2018;
- Engie photographic scans are scheduled for the 2020-2021 period.

The results of ship-related assessments include:

- increased awareness of rational energy consumption among sailing and operational personnel, a/o by communicating on actual consumption, optimisations, comparisons with similar vessels;
- technical measures such as the use of alternative fuels, the introduction of the Ship Energy Efficiency Management Plan (SEEMP) launched by IMO and related technical measures.
SEEMP offers a specific action plan for the implementation of energy efficiency measures on board, such as routing and voyage planning, maintenance, oil analysis, bunker management, crew training, etc. Our department responsible for newly built vessels plays an important part in this;
- operational measures to increase productivity without increasing fuel consumption, thus minimising the use of energy per m³ dredged.

The progress with regard to the reduction targets is regularly analysed in periodic progress reports and during the management review.

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For this EMAP, the following ISO50001 elements have served as a basis:

ISO 50001	CO ₂ ladder	Deming	Jan De Nul
§6.3 Energy assessment	2A3	PLAN	Energy flows and CO ₂ emissions can be found in the Carbon Footprint, GHG and progress reports New savings opportunities are discussed within the scope of energy audits and (external) energy assessment studies and laid down in the Management Review and the Energy Action Plan (EMAP)
§6.2 Energy targets, assignments and action plans	B/2C2	PLAN/DO	JDN Policy Statement (--> website) JDN Code of Conduct Energy Management Action Plan List of measures on SKAO website
§6.3 Monitoring, measurements and analysis	3C1, 4B2, (5B2, 5C3)	CHECK	Half-yearly updating of Carbon Footprint, GHG and progress reports. Conducting internal and external (energy) audit, self-assessment, deliberation within steering group, management review. The steering cycle that Jan De Nul NV has set up for its CO ₂ policy includes the periodic measurement of CO ₂ emissions and the periodic analysis of and reporting on our progress in terms of targets and measures. For more information, we refer to the Quality Management Plan and the Periodic Reports.
§ 6.3 Deviations, corrective and preventative measures	Continuous improvement	ACT	If deviations are found during the steering cycle, or if correction is required for any other reason, the CO ₂ PL manager will coordinate adjustments in accordance with the steering cycle and activity description included in the Quality Management Plan

2. REDUCTION TARGETS

2.1 TARGETS AND MEASURES

Within the boundary of the CO₂ performance ladder certificate, Jan De Nul Group sets a number of targets in its annual management review based on feasible reductions identified in internal and external energy audits (including Energy Audit, heating audits, audit by energy suppliers) and also initiates the necessary actions in view of their realisation.


The targets are set annually during the management review (check 2B4-Management Review) and are described in the document <<4B1-Targets>>, which is published on the website and also establishes specific measures. If necessary, details of the measures are listed in the document <<Action list CO₂PL>>.

The progress of the actions is monitored in the relevant work and steering groups.

For projects with an award advantage, separate targets and actions may be formulated within the project. These are documented at project level and bundled in the project file.

2.2 MONITORING AND MEASUREMENTS

In <<4A2-KMP Chain analysis and inventory>> and <<3A1-GHG Report YYYY>, it is stated that CO₂ emissions are measured periodically. The progress in terms of targets and measures is analysed and reported on in periodic reports <3B1-Progress report YYYY>.

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2.3 DEVIATIONS, CORRECTIVE AND PREVENTATIVE MEASURES

If deviations are found during internal or external audits, or if correction is necessary for any other reason, the members of the QHSSE CO₂PL team will coordinate adjustments in consultation with the relevant CO₂PL steering group. If required, adjustments to <<4A2-KMP Chain analysis and inventory>> and/or <<3A1 GHG Report YYYY>> or other relevant documents of the CO₂PL management system are implemented.

3. CO₂-RELATED INITIATIVES

Within the sector, Jan De Nul NV actively participates in work groups and CO₂-related initiatives, thus staying abreast of reduction opportunities. The company not only takes part in initiatives but also initiates initiatives itself. Participation is described in <<CO₂PL-Jan De Nul Overview of Initiatives 2D1-2D2-3D1-4D1-5D1>>.

In addition, the company also subscribes to a wide range of professional literature and social media so as to stay abreast of CO₂-related initiatives.

The status of ongoing initiatives is discussed on a monthly basis within the relevant operational steering groups. Decisions on potential new initiatives are also taken within these steering groups.

4. TASKS AND RESPONSIBILITIES

In order to monitor the above objectives, measures and initiatives, the tasks and responsibilities captured in <<2C2- CO₂PL-Jan De Nul-2C2-R3.0- Steering cycle and responsibilities>>.