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Verification Report

VS-3365383

Verification of the Greenhouse Gas Declaration

Energy efficiency improvement of the Nimr produced water disposal system

according to

ISO 14064 Part 2 and Austrian 'Kraftstoffverordnung' dated 24/June/2020

implementing

COUNCIL DIRECTIVE (EU) 2015/652 of 20 April 2015 laying down calculation methods and reporting requirements pursuant to Directive 98/70/EC of the European Parliament and of the Council relating to the quality of petrol and diesel fuels

Date: 2021-03-15

Our reference: IS-US1-RGB

Report No. VS-3365383-1

This Document consists of 27 Pages. Page 1 of 27

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TÜV SÜD Industrie Service GmbH.

of

The test results refer exclusively to the units under test.

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Table of contents

1.	Abb	previations3
2.	Sco	pe of the verification4
3.	Pro	ject details4
4.	Ver	ification approach5
4	4.1.	Contract review5
	4.2.	Assessment team5
4	4.3.	Preparation of the assessment5
5.	Mea	ans of Verification8
4	5.1.	Document review
4	5.2.	Remote audits
4	5.3.	Onsite visit8
4	5.4.	Sampling8
:	5.5.	Follow-up of revisions
4	5.6.	Technical review
6.	Obs	servations and findings9
(5.1.	General information9
(6.2.	Legal requirements9
(5.3.	Data quality9
(6.4.	Baseline scenario and additionality9
(6.5.	Monitoring procedures
(6.6.	Social and environmental issues10
(6.7.	Findings10
(5.8.	Recommendations for improvements10
7.	Ver	ification decision10
An	nex	I
	Α.	Checklist of the verification assessment planI
	В.	List of findingsI
	C.	Document listI
	D.	List of interviewed personsII
	Ε.	Accreditation certificate of Verification BodyIV

Page 3 Reference/Date: IS-US1-RGB / 2021-03-15 Report No. VS-3365383-1



1. Abbreviations

CDM CO ₂ DAkkS DIN	Clean Development Mechanism Carbon Dioxide German Accreditation Body (Deutsche Akkreditierungsstelle) German Institute for Standardization (Deutsches Institut für Normung)
EIA	Environmental Impact Assessment
EN	European Norm
FQD	Fuel Quality Directive
GHG	Greenhouse Gas
ISO	International Standard Organisation
KVO	Kraftstoffverordnung
LNG	Liquified Natural Gas
NGL	Natural Gas Liquids
PDD TÜV SÜD	Project Design Document TÜV SÜD Industrie Service GmbH
UER	Upstream Emission Reduction



2. Scope of the verification

TÜV SÜD Industrie Service GmbH (in the following referred to as TÜV SÜD) is an accredited verification body according to German Institute for Standardization (DIN) European Norm (EN) International Standard Organisation (ISO) 14065 for the validation and verification of greenhouse gas assertions according to ISO 14064 Part 1 and ISO 14064 Part 2. TÜV SÜD performed a verification of the Greenhouse Gas (GHG) Declaration for the project: Energy efficiency improvement of the Nimr produced water disposal system in order to confirm compliance of the GHG Declaration with the requirements of ISO 14064 Part 2 Austrian Kraftstoffverordnung (KVO) dated 24/June/2020 implementing COUNCIL DIRECTIVE (EU) 2015/652 of 20 April 2015 laying down calculation methods and reporting requirements pursuant to Directive 98/70/EC of the European Parliament and of the Council relating to the quality of petrol and diesel fuels.

TÜV SÜD included all tasks and aspects as specified in § 19b of KVO and provides all required information through this verification report. The main objective of this activity is the use of the verification report by the client when applying for crediting of certified upstream emission reductions of this project activity at the Austrian authority.

TÜV SÜD nominated a verification team fulfilling the internal qualification criteria based on ISO 14064 Part 3, ISO 14065 and ISO 14066. The specification of the competence criteria according to IAF MD14:2014 is applied here. The verification process involved an in-depth review of the original set of documentation and records as well as background research regarding applied technologies, legislation and benchmarks. The verification process follows the requirements of the accreditation ordinance 2018/2067 (formerly 600/2012). Following a strategic analysis and the determination of assessment risks a detailed audit plan has been developed. Due to travel restrictions in the COVID-19 crisis the verification included two remote audits and further meetings, including all required project participants via Microsoft Teams. Moreover, the project applicant has sought for the approval by the Austrian authority ("BMK" Ministry for Environment) to conduct remote audits for UER validations & verifications until 31st March 2021.

Following the audits, a list with required documents and open points was provided to the client who subsequently revised the documentation and clarified open points. The revised documentation underwent a further review before issuing this final verification report. The final verification report itself has undergone an independent review by a technical reviewer (another TÜV SÜD lead auditor), who has not been part of the verification for final approval of the report.

The verification statement provides a reasonable level of assurance. When verifying baseline data, a 2% materiality threshold has been applied in analogy to the validation assessment of the project.

The verification has been carried out in the period from 15th Jan 2021 until 15th March 2021.

3. Project details

The project Energy efficiency improvement of the Nimr produced water disposal system consists of:

The project is to improve the energy efficiency of the Nimr produced water disposal system by implementing a GHG project located at Oman. The project, an ecological wetland facility solution, allows to treat up to115,000 m³/day (design maximum) from the Nimr production in an energy efficient and environmentally friendly manner.

The produced water is moved through three different process stages (oil separation, reed beds, evaporation ponds) without external energy by gravity, using the vertical gradient of



the local topography, for final disposal. And the expected emission reduction is 122,124 tCO2e annually.

The project is situated at:	N 18.666667°, E 55.759722°
The project applicants are:	OMV Downstream GmbH Trabrennstraße 6-8 A-1020 Wien
The project proponents are:	Bauer Nimr LLC
Contact person:	Tobias Danz phone: +43 1 40440-23735 email: tobias.danz@omv.com

Final version of the project documentation:

Monitoring report, version 02.1, 10/March/2021 (MR4_Nimr_phase1and2_10032021.pdf) Emission reduction calculation, version 01, 14/Jan/2021 (MR4_UER_calculation_Nimr_phase1and2_14012021.xls)

Applied Clean Development Mechanism (CDM) methodology: AM0020 Version 2.

Verified upstream emission reductions: 99,909 tCO2e

4. Verification approach

4.1. Contract review

There is a framework agreement between the client OMV Downstream GmbH and TÜV SÜD Industrie Service GmbH for validation and verification services for upstream emission reduction projects. The framework agreement is based on a time expenditure calculation which ensures that the necessary personnel and time resources are available for the work. The scope of accreditation of TÜV SÜD as accredited validation and verification body covers all relevant scopes (for this project CDM scopes 3) of this project activity and TÜV SÜD has access to auditors covering the required competences in the sectors related to this activity. The client confirmed the independence of the verification team members and TÜV SÜD in writing.

4.2. Assessment team

The assessment team consists of the following team members:

Lead auditor: Jiang Zhe, Eric Scopes: 1, 2, 3, 10, 13

Country expert: Rengaraj, Arun

4.3. Preparation of the assessment

The project developer has been requested to submit the project documentation and scanned copies of relevant evidences before starting the remote audit. By reviewing and evaluating these documents a strategic and risk analysis has been performed.



The audit team assessed the likely nature, scale and complexity of the verification tasks. The audit team considered all preliminary information on the project, such as project boundaries, sources and sinks and the required materiality threshold. It identified and analysed the inherent risks and control risks to develop an assessment plan which allows to reduce all assessment risks and to enable a statement at a reasonable level of assurance that the project complies with the requirement of the referenced standards and regulations. In addition, background information has been collected by internet research and consulting a local expert seeking information regarding Oman specifics on energy generation, its environmental legislation, legislation and common practise regarding flaring, benchmarks, information regarding the project proponents' activities as well as on the project.

The following table presents the areas of concerns, where needs for further investigation beyond the document review have been identified, the associated risks which might result in non-compliance and the initially selected assessment methods. This list has been prepared before drafting a detailed schedule for the first remote audit, which was finally shared with the project proponents and their contracted partners for ensuring appropriate arrangements with regard to the auditing.

Area of concern	Risk	Assessment method
Applicability / boundaries	The project could have been implemented to meet legal requirements Potential physical losses of associated gas (non-CO ₂) to be considered within boundaries	Discussion and review of legal requirements
Start date of the project activity	Non-compliance with Fuel Quality Directive (FQD), i.e. project start before 2011	Type plates, interviews and doc- ument review
Project lifetime; expected reductions	Inappropriate forecasts	Interviews and document review
Double-counting issues / leakage	Measuring of gas quantities at the wrong positions, so that a too high a quantity is counted.	On-site inspection and docu- ment review
Correctness of underlying data	Use of inappropriate measuring devices and analysis methods	On-site inspection and docu- ment review
Baseline scenarios	Data of pre-project scenario Life-time of pre-project equip- ment Remaining evidences Description of alternative scenario as given by the project design document (PDD)	Audit Interviews
Calculations	Mistakes in calculation ap- proach, default values or in excel sheets for calculation	Comparison with requirements and review of the calculations
Emission reduction forecast	Appropriate consideration of the associated amount of gas and the oil production activities	Interviews and comparison with empirical values
Environmental impacts	Compliance with national legislation	Interview and consultation of lo- cal expert
Inclusion of legal requirements	Project is mandatory according to local legal requirements	Interview and consultation of lo- cal expert
Inclusion in national climate change policy	Double-counting	Interviews and document review



Area of concern	Risk	Assessment method
Monitoring plan	Completeness: procedures,	Document review
	measurements, sampling, qual-	
	ity assurance, data storage	
Quality assurance / quality	Data quality of baseline and	Interviews and document review
control	project emissions	
	Risk of data losses by	
	monitoring approach	

For further preparation of the audits the verification checklist of ISO14064 Part 2 activities has been amended by FQD-specific aspects. The checklist is filled with information collected and verified during document reviews as well as audits and indicates any findings. It is attached to this report as Annex A.



5. Means of Verification

5.1. Document review

In the course of the verification, the documents mentioned in the checklist for the individual topics were reviewed and evaluated. The list of documents is compiled in annex C.

5.2. Remote audits

Due to the Covid-19 pandemic a travel of the lead auditor to the location was not possible. For that reason, the audit team in agreement with the project participants decided to have a remote audit via Microsoft Teams and an on-site audit by a local expert. The remote audit took place on 18th Jan and 24th Feb 2021, respectively.

At the end of the remote audits a list with needed evidence documents and open points was provided to the project proponents indicating the need for further clarifications, additional proofs or identified non-compliances which require the revision of documents and calculations.

The proofs (records, databases, documents) that have been checked during the strategic analysis, during and after remote audits and are listed in Annex C.

Annex D to this report provides a list of persons that took place during the remote audits and in additional meetings.

5.3. Onsite visit

Due to travel restrictions in the COVID-19 crisis the verification included two remote audits and further meetings, including all required project participants via Microsoft Teams. Moreover, the project applicant has sought for the approval by the Austrian authority ("BMK" Ministry for Environment) to conduct remote audits for UER validations & verifications until 31st March 2021.

5.4. Sampling

All supporting documents were completely assessed. The raw data from the flow meters of the produced water, daily production reports and monthly production reports have been completely assessed.

5.5. Follow-up of revisions

After the delivery of requested further evidences and the revision of the project documentation addressing the identified non-compliances, a further round of desk reviews has taken place, assessing these submissions. The final assessments regarding the closure of findings is documented under the finding list, attached as Annex B to this report.

5.6. Technical review

Before the report was approved, an internal review had been conducted by a lead auditor assigned to it by the verification body who was not himself a member of the assessment team. The main focus of this process is the assessment of the completeness and traceability of the verification carried out on the basis of the internal and external verification report. If necessary, the assessment team will be asked to catch up on missing test steps or to correct or supplement the test report to increase transparency.



For this project the technical review has been conducted by:

Norbert Kraus Scopes: 1, 3, 4, 5, 7, 8, 9, 10, 11, 12, 16

6. Observations and findings

6.1. General information

All information regarding the project proponent and involved partners, organisational arrangements, the facility, the authorisation and technical features have been proven to be correct. All information in the final version is complete.

The project boundaries are clearly defined within the project document and covered the injection pumps connected with the deep-water wells, on four sites, for final disposal and the wetland facility phase 1 and 2 (controlled and directly attributable to the project) and the PDO power grid (related and directly attributable to the project). Instead of using energy to dispose water in deep geological layers, the oil-contaminated water is treated by a unique wetland solution in an energy-efficient manner. It is clearly related to upstream activities, the project qualifies in principle as upstream emission reduction project.

6.2. Legal requirements

The project itself is in compliance with the host country's legislation. All licenses have been given by the host country environmental authority on the basis of the application which also covered an environmental impact assessment (EIA). There are no specific regulations about taxes or fines with regard to using intensive energy to dispose water in deep geological layers.

6.3. Data quality

Data used to calculate the emission reductions and to fix ex-ante parameter has been verified along this verification. All required data is considered being accurate and complete. The calculation is based on reproducible data.

The requirement on conservativeness is achieved by using approved standards and tools, which ensure a transparent assessment of information provided. Furthermore, the wetland plantation will produce an additional biomass stock and opportunities for further renewable energy projects (e.g. through bio-digester, bio-briquetting and improvement of soil humus etc.), which has not claimed by project in conservative manner.

The project owner calibrated electricity meters and flow meters at per calibration procedures and data is stored electronically. A clear procedure is established that ensure responsibility and accountability for all parameters that are required to be monitored, measured and reported.

Thus, there is a low risk of inappropriate data quality and missing reproducibility.

6.4. Baseline scenario and additionality

The PDD describes correctly the baseline scenario. The continuation of the recent practice of continuously using intensive energy to dispose water in deep geological layers, is the most likely scenario in the absence of the project activity.

The relevant pumping and auxiliary equipment would operate without need for refurbishment beyond 2020 and the wastewater production will not decrease, hence they will continue to treat



oil contaminated water in a similar amount as in the baseline. Thus, the forecasts are deemed reasonable.

The most likely reference case without the implementation of the project (as per the requirement of the KVO) is using intensive energy to dispose water in deep geological layers, which is still applied for any excess produced water. The treatment technologies have not changed to the baseline scenario assumed at validation.

6.5. Monitoring procedures

The monitoring procedures are in compliance with the applied CDM methodologies and enable delivering data at a quality comparable to the requirements under the European Emission Trading Scheme. Where applicable, the requirements of the Monitoring Regulation 2018/2066 (formerly 601/2012) are met. All data which require metering are clearly identified and according arrangements have been made.

6.6. Social and environmental issues

A health, safety and environmental impact assessment has been conducted and provided to the audit team. The assessment concluded that all potential risks associated with the project can be controlled or reduced to non-significant levels. The EIA has been approved by the respective authority.

A stakeholder survey has been conducted for the project and provided to the audit team. There is no negative opinion on the project activity.

6.7. Findings

A detailed finding list is provided as Annex B to this report. Most of the issues were related to the project boundary and data monitoring and analysis.

During this monitoring period, the amount of GHG emission reductions achieved is 99,909 tCO2e is lower than estimates as 122,124 tCO2e from the registered UER PDD. All findings have been closed before finalising the verification.

The PDD version 1.1 from 02/08/2019 was submitted at the beginning of the verification process. The project is implemented according to the project design and no change and deviations have been made during this monitoring period.

6.8. Recommendations for improvements

None

7. Verification decision

TÜV SÜD has undertaken the verification of the GHG declaration the project Energy efficiency improvement of the Nimr produced water disposal system to be implemented by the project proponent Bauer Nimr LLC based on the requirements of ISO 14064-2 "Specification with guidance at the project level for quantification, monitoring and reporting of GHG emissions reductions or removal enhancements" and the KVO.

The project encompassed the energy (electricity) consumption of pumps used by the deep well disposal scheme of Nimr oil field in Oman. Instead of using energy to dispose water in deep well,



the oil-contaminated water is treated by a unique wetland solution with the vertical gradient of the local topography to avoid any electricity consumed.

To arrive at the final verification conclusions and opinion, TÜV SÜD carried out desk reviews, background investigations, two remote audits taking into account the specific requirements of the KVO.

Through the verification process, the verification team identified different clarification requests and two corrective action requests. The project proponents have taken actions to address these findings and submitted to TÜV SÜD the revised GHG declaration, (Monitoring report) version 02.1 dated 10/March/2021 in combination with the emission reduction calculation version 01 dated 14/January/2021 and any other supporting evidences. All findings have been appropriately closed before the issuance of this verification report.

The verification team is of the opinion that the GHG declaration of the project: Energy efficiency improvement of the Nimr produced water disposal system with verified revision is in accordance with all the relevant GHG program requirements as well as the host country's national requirements and achieved the verified upstream emission reduction of

81,409* tCO₂e

in the period from

01/01/2020 to 31/12/2020

and will contribute to the sustainable development of the host country. Therefore, TÜV SÜD hereby certifies that the GHG declaration (Monitoring report) version 02.1 dated 10/March/2021, of the proposed upstream emission reduction project Energy efficiency improvement of the Nimr produced water disposal system of the project proponent Bauer Nimr LLC is in accordance with the above stated requirements.

* To avoid the double-counting and misuse, the verification team declared that the verified upstream emission reductions of 79,909 tCO2e is from the total emission reductions achieved 99,909 tCO2e for the project "Energy efficiency improvement of the Nimr produced water disposal system" in the 4th monitoring period from 01/01/2020 to 31/12/2020.

Report No VS 3365383-1: 81,409 tCO2e (reported here)

Report No VS 3365383-2: 18,500 tCO2e

Nau

Technical Reviewer

Lead Auditor

Verification body



Annex

A. Checklist of the verification assessment plan

Verification	of UER	Project
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Document check - contents of the GHG declaration according to 14064-2

Subject / context	Content - in keywords	Audit result
1) The GHG report contains the	Energy efficiency improvement of the Nimr	ok
name of the project proponent. 2) A brief description of the GHG project, including size, location, du- ration and types of activities	The project purpose is to improve the en- ergy efficiency of the Nimr produced water disposal system by implementing an eco- logical wetland facility solution (= GHG project) located at Oman. The project, an ecological wetland facility solution, allows to treat up to115,000 m³/day (design maxi- mum) from the Nimr production in an en- ergy efficient and environmentally friendly manner. And the expected emission re- duction is 122,124 tCO2e annually. The project was implemented in two phases, where under phase 1 all process stages were established and under phase 2 the reed bed area was extended from 234 ha to 351 ha. The phase 1 was com- pleted on the 15/01/2011 and phase 2 on	ok
3) A GHG statement(s), including a statement of GHG emission reductions and removal enhancements stated in units of CO ₂ e, e.g. tonnes of CO ₂ e	the 07/10/2012, respectively. Amount of GHG emission reductions achieved during this monitoring period 99,909 tCO2e.	ok
4) A statement describing whether the GHG statement has been veri- fied and/or validated, including the type of verification or validation and level of assurance achieved.	The validation report is available. Verifica- tion will be done by TÜV SÜD naming the level of assurance with 2 %.	ok
5) A list of all relevant GHG sources and sinks controlled by the project, as well as those related to or af- fected by the project, including the defined criteria for their selection for inclusion in quantification.	GHG sources include the injection pumps connected with the deep-water wells, on four sites, for final disposal and the wet- land facility phase 1 and 2 (controlled and directly attributable to the project) and the PDO power grid (related and directly at- tributable to the project).	ok



6) A statement of the aggregate	Estimated UERs in 2020: 122,124 t CO2e	ok
GHG emissions and/or removals of GHG for the GHG project that are controlled by the project proponent, stated in unit of CO_2e , e.g. tonnes of CO_2e , for the relevant time period (e.g. annual, cumulative to date, to- tal)		
7) A statement of the aggregate GHG emissions and/or removals by GHG quality assurance system for the GHG baseline scenario, stated in units of CO ₂ e, e.g. tonnes of CO ₂ e, for the relevant time period.	Amount of GHG emission reductions achieved during this monitoring period 99,909 tCO2e.	ok
8) A description of the GHG baseline scenario and demonstration that the GHG emission re-ductions or re- moval enhancements are not over- estimated.	In the baseline scenario, the total pro- duced water is moved into deep water wells via injection pumps for final disposal. These injection pumps consume a high amount of fossil fuel-based grid electricity, which causes a significant amount of CO2 emissions.	ok
	The requirement on conservativeness is achieved by using approved standards and tools, which ensure a transparent as- sessment of information provided. Furthermore, the wetland plantation will produce an additional biomass stock and opportunities for further renewable energy projects (e.g. through biodigesters, bio-bri- quetting and improvement of soil humus etc.), which has not claimed by project as well.	
9) A general description of the crite- ria, procedures or good practice guidance used as a basis for the cal- culation of project GHG emission re- ductions and removal enhance- ments.	The baseline scenario of the project is the same as the scenario existing prior to the start of implementation of the project. The calculation is aligned with the criteria and procedures of the approved UNFCCC CDM methodology AM0020/version 2 "Baseline methodology for water pumping efficiency improvements" and the associated UNFCC CDM tools:Tool 05 V3, Tool 07v7.	ok
10) A statement on uncertainty, how it affects the GHG statement and how it has been addressed to mini- mize misrepresentation.	The project owner calibrated electricity meters and flow meters at per calibration procedures and data is stored electroni- cally. A clear procedure is established that ensure responsibility and accountability for all parameters that are required to be mo- nitored, measured and reported. Thus,	ok



	there is a low risk of inappropriate data	
	quality and missing reproducibility.	
11) The date of the report and the time period covered	24/02/2021, 01/01/2020-31/12/2020	ok
12) As applicable, an assessment of permanence	The project is planned for 2 years, but ex- tenable	ok
13) An evidence of the appointment of the authorized representative on behalf of the project proponent, if dif- ferent from the proponent.	OMV Downstream GmbH	ok
14) If applicable, the GHG pro- gramme(s) to which the GHG project subscribes.	CDM methodology AM0020v2 and Aus- trian Kraftstoffverordnung 2012/Slovak	ok
15) If required by intended users, changes to the project or monitoring system from the project plan and as- sessment of its conformity to criteria, applicability of methodologies and any other requirements.	In addition to its core market in Austria, OMV Downstream GmbH is also obliged under the FQD in other EU Member States (in particular Germany, Slovakia, Czech Republic, Hungary, Slovenia, Romania & Bulgaria). Since the exact demand of UERs in the individual Member States will only be fully known after the compliance year 2020, OMV Downstream GmbH re- serves the right to submit the UER pro- jects Shaya Saipu Energy partly or entirely in one or more EU Member States.	ok
Checklist Verification of UER Project	ct	
Project documentation	Result of the verification	Audit result
Is the project objective clearly de- fined?	The project purpose is to improve the energy efficiency of the Nimr produced water disposal system by implementing an ecological wetland facility solution (= GHG project) located at Oman. The project, an ecological wetland facility solution, allows	ok
	to treat up to115,000 m ³ /day (design maxi- mum) from the Nimr production in an energy efficient and environmentally friendly manner. And the expected emis- sion reduction is 122,124 tCO2e annually.	
Is the method to be used appropriate for the project?	to treat up to115,000 m ³ /day (design maxi- mum) from the Nimr production in an energy efficient and environmentally friendly manner. And the expected emis-	ok
	to treat up to115,000 m ³ /day (design maxi- mum) from the Nimr production in an energy efficient and environmentally friendly manner. And the expected emis- sion reduction is 122,124 tCO2e annually. CDM AM0020v2, ISO 14064-2 and Aus- trian Kraftstoffverordnung 2012, and An- nual GHG Report to Slovak Hydrometeo- rological Institute (Slovenský	ok ok



Is the plant not part of the European emission trading scheme?	No, the plant is located in Oman.	ok
Are the project boundaries clear?	Project boundary emcompasses the injec- tion pumps connected with the deep-water wells, on four sites, for final disposal and the wetland facility phase 1 and 2 (control- led and directly attributable to the project) and the PDO power grid (related and di- rectly at-tributable to the project).	ok
Periods of practical project imple- mentation	For 4th monitoring period: 01/01/2020- 31/12/2020	ok
Unique location reference (4 digits)	The geographical location of the project (water intake) is N18.6666667, E55.759722.	ok
Is public funding, if so to what ex- tent, used for the project?	According to validation report no.	ok
Are public subsidies for financing used?	According to validation report no.	ok
Is public funding for investment safe- guards used?	According to validation report no.	ok
Does the working environment and site conditions give rise to risks? Are management systems installed at the operator's organization?	For risks see risk analysis. Management systems are in place according to monito- ring report and PDD.	ok
Have control procedures been in- stalled? Is there information on suc- cessful external or internal inspec- tions and audits?	A clear procedure is established that en- sure responsibility and accountability for all parameters that are required to be mo- nitored, measured and reported. Validation was done by Verico.	ok
Is there a conflict between valida- tion/verification depending on the state and implementation of the Up- stream Emission Reduction (UER) Directive?	Validation was done by Verico.	ok
Approvals / Management systems	Result of the verification	Audit result
Legal basis UER to be considered: national regulation in the country of submission	Austrian Kraftstoffverordnung 2012, Slova- kia national legislation Decree No.271/2011 § 9a & Annex 4 Part 2 Art.2 and FQD	ok
Official approval of the plants: are there any requirements for emission reduction or project measures?	The EIA was submitted to the Ministry of Environment and Climate Affairs of the Sultanate of Oman, and environmental ap- proval has been issued.	ok
Have other environmental impacts been considered and described?	Analysis of environmental impacts in PDD	ok
Are there expert reports available on the environmental impacts of the project or parts of the project?	EIA and EIA approval	ok
Expert opinion on EIA	EIA and EIA approval	ok



Documents on public participation in	Part of the validation report ('OMV Nimr-	ok
the approval process	Water-Treatment_Validation Re-	ÖN
	port_v5.0_20191029.pdf')	
Classification and perception of vali-	Part of the validation report ('OMV_Nimr-	ok
dation or verification by interested	Water-Treatment_Validation Re-	
parties	port_v5.0_20191029.pdf')	
Project documentation	Result of the verification	Audit result
Site plan, system diagram, process	OMV_Nimr-Water-Treat-	ok
sequence	ment_PDD_v1.1_02082019	
technical documentation of the	191216_BNO-11077500-PRO-001 Rev 01	ok
plants	Upstream Emission Reduction Procedure;	
	KROHNE Altometer Calibration Procedure	
Forecast data on input quantities	The project, an ecological wetland facility	ok
and production quantities	solution, allows to treat up to115,000	
	m³/day (design maximum) from the Nimr	
	production in an energy efficient and en-	
	vironmentally friendly manner. And the ex-	
	pected emission reduction is 122,124	
Do the ourrest sporeting conditions	tCO2e annually.	ok
Do the current operating conditions reflect the assumptions, constraints,	In the operational phase, Nimr project is evaluated on a regular basis as per the sti-	OK
procedures and uncertainties of the	pulated requirements therein and reported	
project plan?	as required by law. As for this monitoring	
	period, the project is implemented accord-	
	ing to the project design and no changes	
	have been made during the monitoring pe-	
	riod.	
Comparisons with known or indus-	Additionality in line with the guidance pro-	ok
trial benchmarks	vided under ISO 14064-2, is demonstrated	_
	by the additionality with reference to the	
	project being the "first of its kind" (FOIK)	
	worldwide.	
Data availability of the basic data	OMV_Nimr-Water-Treat-	ok
calculations	ment_PDD_v1.1_02082019	
GHG emissions: intentional and un-	Not identified	ok
intentional omissions of potentially		
significant emission sources		
GHG emissions: significant emis-	As discussed during verification, the wet-	ok
sions outside the operations of the	land plantation will produce an additional	
responsible entity	biomass stock and opportunities for further	
	renewable energy projects (e.g. through	
	biodigesters, bio-briquetting and improve-	
	ment of soil humus etc.), which has not considered intentional, due to technical	
	and conservative consideration.	
Significant regulatory changes	Not identified	ok
Significant economic changes with	Not identified	ok
effects on GHG declaration		
	1	1



Project Methodology	Result of the verification	Audit result
Ist he description of the project activ- ity complete?	The project was implemented in two pha- ses, where under phase 1 all process sta- ges were established and under phase 2 the reed bed area was extended from 234 ha to 351 ha. The phase 1 was completed on the 15/01/2011 and phase 2 on the 07/10/2012, respectively.	ok
Planned credit period	Intended crediting period 01/01/2019 to 31/12/2020	ok
Calculation method defined and applicable	OMV_Nimr-Water-Treat- ment_PDD_v1.1_02082019	ok
Sources and sinks fully identified	In the operational phase, Nimr project is evaluated on a regular basis as per the sti- pulated requirements therein and reported as required by law. As for this monitoring period, the project is implemented accord- ing to the project design and no changes have been made during the monitoring pe- riod.	ok
Is shift of emissions taken into ac- count?	Not identified	ok
Validity of the current baseline sce- nario for the next crediting period: Assess compliance of the current baseline scenario with relevant man- datory national and/or sectoral poli- cies. Assess the impact of circumstances. Assess whether the continuation of use of current baseline equipment(s) or an investment is the most likely scenario for the crediting period for which renewal is requested. Assessment of the validity of the data and parameters.	The continuation of the recent practice of deep well disposal of the consumed water would be the most likely scenario in the absence of the project activity. The instal- led equipment can operate without need for refurbishment beyond 2020 and the oil production activities will not decrease, hence they will continue to produce consu- med water in a similar amount as in the baseline.	ok
Additionality guaranteed	Additionality in line with the guidance pro- vided under ISO 14064-2, is demonstrated by the additionality with reference to the project being the "first of its kind" (FOIK) worldwide.	ok
Is the proposed project activity the first-of-its-kind?	Yes	ok
Identification of alternatives to the project activity is consistent with mandatory laws and regulations	The continuation of the recent practice of deep well disposal of the consumed water would be the most likely scenario in the absence of the project activity, which is compliance to the local laws and regula- tions.	ok



F		-
Do the calculations correspond to the method description?	The calculation is aligned with the criteria and procedures of the approved UNFCCC CDM methodology AM0020/version 2 "Ba- seline methodology for water pumping effi- ciency improvements" and the associated UNFCC CDM tools:Tool 05 V3, Tool 07v7.	ok
Commitment: no double use of the reduction	Self-commitment: no multiple use of the reduction	ok
Monitoring plan	Result of the verification	Audit result
Are sources and sinks for GHG data complete?	GHG sources include the injection pumps connected with the deep-water wells, on four sites, for final disposal and the wetland facility phase 1 and 2 (controlled and di- rectly attributable to the project) and the PDO power grid (related and directly attri- butable to the project). The deep water well disposal (DWD) of the produced water is highly energy intensive and consumes about 5.72 kWh/m ³ of fossil- fuel based electricity and emits 3,519 g of CO2e/m ³ at the same time. Grid emission factor refer to the UNFCCC Methodological tool Tool to calculate the emission factor for an electricity system Version 07.0, as 0.62 CO2e/MWh	ok
Detailed levels of available docu- mentation (proofs, evidence)	All required evidence was submitted and is consistent.	ok
Are measuring instruments de- scribed completely?	UER monitoring procedures, technical data and calibration certificates were submitted.	ok
Is the data acquisition described completely?	UER monitoring procedures and clarifica- tion has been done during the remote au- dits	ok
Is the data evaluation described completely?	Yes	ok
Is the data storage described com- pletely	Yes	ok
Is the derivation of not measured pa- rameters complete?	It is in line with the parameter at validation stage.	ok
Is the calculation procedure docu- mented?	As per 191216_BNO-11077500-PRO-001 Rev 01 Upstream Emission Reduction Procedure;	ok
Are there possible sources and sinks outside the project boundary?	The wetland plantation will produce an ad- ditional biomass stock and opportunities for further renewable energy projects (e.g. through biodigesters, bio-briquetting and improvement of soil humus etc.), which is not claimed as conservative manner	ok



Organizational structures for moni- toring (responsibilities)	O-chart is available	ok
Is a quality assurance procedure es- tablished?	191216_BNO-11077500-PRO-001 Rev 01 Upstream Emission Reduction Procedure; KROHNE Altometer Calibration Procedure	ok
Risk assessment of the operator	Explained during audits. Not included in detail in the monitoring report.	ok
Characteristics and performance of controls used for monitoring and re- porting by the responsible body	Cross checks are implemented.	ok
Effectiveness of the control system of the responsible body, identifica- tion of errors or omissions	Data are correct.	ok
Experience, skills and qualifications of the personnel involved	As per introduction PPT was shown and training records available	ok
appropriate training is planned or carried out	As per introduction PPT was shown and training records available	ok

Page I Reference/Date: IS-US1-RGB / 2021-03-15 Report No. VS-3365383-1

B. List of findings



Documentation Audit closure				
Reporting period	01.01.2020 - 31.12.2020			
Company	Bauer Nimr LCC			
Address	Beach one, Shatti Al Qurum, 2nd floor, office: 210, Muscat Postbox 1186 P.C. 114 Al Mina, Sultanate of Oman			
Contact person	Mr. Younis Al-Rawahi			
Date of the audit	18/01/2021 & 24/02/2021 PM (Remote audit)			
Basis of audit / Standard	DIN EN ISO 14064-2, DIN EN ISO 14064-3, KVO, FQD, CDM AM0020			
TÜV SÜD Order number (ITAS):	3356383			
Lead Auditor	Jiang Zhe			
additional examiners				
Independent reviewer	Norbert Kraus			
External observer (DAkkS)				

SN	Audit result/determination	Classification	Planned/appropriate corrective action documents to be submitted.	Responsibility	Date	Compliance	Materiality	effectivity
1	Project owner shall further describe the project boundary, facilities and all DWD sites invoved for Phase 1&2 in the Monitoring report.	NC	Monitoring Report is updated accordingly 'MR4_Nimr_phase1and2_24022021'	Bauer	24.02.2020	ok	no	yes

Page II Reference/Date: IS-US1-RGB / 2021-03-15 Report No. VS-3365383-1



Industrie Service

2	It was found the calibration for master flow meters and duty meters was done on 23/07/2020, 14/10/2020, respectively. but calibration period is over 2 years, which is not in line with PDO requirement. Please further clarify the internal procedure how to handle this situation for calibration activity.	NC	Each of our metering skids has a Duty and a Master Meter. Both Duty and Master flow meters are continuously measuring the water flow with calibrated equipment. The Master meters were sent to the Netherlands, were KROHNE is located, in June 2020 (Calibrated till 28th of June 2020), the calibration process takes up to one month and a half, while because of the COVID-19 it took longer this time and it was for two months. During the calibration period of the Master meter, the Duty meters (Calibrated till 6th of September 2020) were taking the measurements of the water flow. Same thing happens while the Duty meters were sent to the Netherlands, the Master meters were already online and taking the water flow measurements.	Bauer	24.02.2020	ok	yes	yes
3	Please provide the following document, 1, Bauer commercial register 2, Nimr project presentation 3, Maintenance explanation, June, Dec2020 4, Video overview for Nimr phase1&2	Docu	Document is attached in the attached as following: 1- Bauer Commercial Register 2- '210118aed_Produced Water with the Power of Nature' 3- '210225_awy_Maintenance Info 4- NWTP Phase I & II link	Bauer	24.02.2020	ok	no	yes



C. Document list

2 OMV_Nimr-Water-Treatment_Validation Report_v5.0_20191029.pdf 3 1 ^{str} Monitoring Period_Verification report_Nimr_phase1 and2 by Verico 4 2 ^{ndt} Monitoring Period_Verification report_Nimr_phase1 and2 by Verico 5 3 ^{ndt} Monitoring Period_Verification report_Nimr_phase1 and2 by Verico 6 1 ^{str} Monitoring Period_Verification report_Nimr Phase3 (LMKF)_TUV Rheinland pdf 2 ^{ndt} Monitoring Period_Verification report_Nimr Phase3 (LMKF)_TUV Rheinland pdf 7 MR4_Nimr_phase1 and2_V2_24022021 MR4_Nimr_phase1 and2_V2_21_10032021 8 MR4_UER_calculation_Nimr_phase1 and2_14012021 9 OMV Email Notice of UER application for Austria and Slovakia_24022021.pdf 11 EIA approval.pdf 12 Bauer Commercial Registration (Bauer Nimr LLC) 13 190926aed_Confirmation Statement - UER Regulation 14 NWTP and DWD location 15 110314_Nimr_Water_Treatment_Plant_Phase1_Completion_Certificate 16 120912_Nimr_Water_Treatment_Plant_Phase1_Completion_Certificate 17 210118aed_Produced Water with the Power of Nature 19 Remote site video taken by drone_18012021 11 List of Participants_1st Remote audit_24022021 121 List of Participant	1	OMV_Nimr-Water-Treatment_PDD_v1.1_02082019.pdf
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D. List of interviewed persons

Verification of UER Project

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List of participants	
Company	Bauer Nimr LCC Industrie Service
Information on activities of the company	water pumping efficientcy improvement, energy demand (scope 3)
Date of the audits and meetings	18.01.2021 (1st Remote)
TÜV SÜD Order number (ITAS):	3365383
Lead Auditor	Jiang Zhe, Eric
additional examiners	-
The below named participan	ts took part in different constellations in the audits and meetings.
Name, first name	Area of responsibility / department
Dennis Alexandersen	Business Development Manager
Younis Al-Rawahi	UER Project Manager
Wolfgang Wetzer	Technical Consultant
Yudi Arismadinata	Operation Manager
Kudzai Tibugare	Plant Manager
Pravin Arockia Kallipas	Lead Mechanical Engineer



Verification of UER Project

Verification of UER Proje	Ct
List of participants	
Company	Bauer Nimr LCC Industrie Service
Information on activities of the company	water pumping efficientcy improvement, energy demand (scope 3)
Date of the audits and meetings	24.02.2021 (2nd Remote)
TÜV SÜD Order number (ITAS):	3365383
Lead Auditor	Jiang Zhe, Eric
additional examiners	-
The below named participant	ts took part in different constellations in the audits and meetings.
Name, first name	Area of responsibility / department
Dennis Alexandersen	Business Development Manager
Younis Al-Rawahi	UER Project Manager
Wolfgang Wetzer	Technical Consultant



E. Accreditation certificate of Verification Body



Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-VS-14153-01-00 according to DIN EN ISO 14065:2013

Period of validity: 27.01.2020 to 13.12.2023

Date of issue: 27.01.2020

Holder of certificate:

TÜV SÜD Industrie Service GmbH Westendstraße 199, 80686 München, GERMANY

Verification of Greenhouse Gases Emissions Reports and Tonne-kilometres Reports according to DIN EN ISO 14065:2013 and Regulation (EU) No. 2018/2067, EU (NO) 601/2012 and (EU) No. 2018/2066 in the following group of activities according to Annex I of directive 2003/87/EG and other activities according to Art. 10a and Art. 24 of subject directive:

No.	Scope of Accreditation
1a	Combustion of fuels in installations, where only commercial standard fuels as defined in Regulation (EU) No. 601/2012 are used, or where natural gas is used in category A or B installations
1b	Combustion of fuels in installations, without restrictions
2	Refining of mineral oil
3	Production of coke Metal ore (including sulphide ore) roasting or sintering, including pelletisation Production of pig iron or steel (primary or secondary fusion) including continuous casting
4	Production of processing of ferrous metals (including ferroalloys) Production of secondary aluminium Production or processing of non-ferrous metals, including production of alloys
5	Production of primary aluminium (CO2 and PFC emissions)
6	Production of cement clinker Production of lime or calcinations of dolomite or magnesite Manufacture of glass including glass fibre Manufacture of ceramic products by firing Manufacture of mineral wool insulation material Drying or calcination of gypsum or production of plaster boards and other gypsum products

This document is a translation. The definitive version is the original German annex to the accreditation certificate.

1/3





Annex to the Accreditation Certificate D-VS-14153-01-00

No.	Scope of Accreditation
7	Production of pulp from timber or other fibrous materials
	Production of paper or cardboard
8	Production of black carbon
	Production of ammonia
	Production of bulk organic chemicals by cracking, reforming, partial or full oxidation by similar processes
	Production of hydrogen (H ₂) and synthesis gas by reforming or partial oxidation
	Production of soda ash (Na ₂ CO ₃) and sodium bicarbonate (NaHCO ₃)
9	Production of nitric acid (CO ₂ and N ₂ O emissions)
	Production of adipic acid (CO2 and N2O emissions)
	Production of glyoxal and glyoxylic acid (CO2 and N2O emissions)
	Production of caprolactam
10	Capture of greenhouse gases from installations covered by Directive 2003/87/EC for the purpose of transport and geological storage in a storage site permitted under Directive 2009/31/EC
	Transport of greenhouse gases by pipelines for geological storage in a storage site permitted under Directive 2009/31/EC
11	Geological storage of greenhouse gases
	in a storage site permitted under Directive 2009/31/EC
12	Aviation activities (emissions and tonne-kilometre data)
98	Other activities pursuant to Article 10a of Directive 2003/87/EC

Verification and Validation according to DIN EN ISO 14065:2013 for Non-Regulated Greenhousegas Schemes according to the following standards:

EN ISO 14064-1	Greenhouse gases - Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals (ISO 14064-1:2006)
EN ISO 14064-2	Greenhouse gases - Part 2: Specification with guidance at the project level for quantification, monitoring and reporting of greenhouse gas emission reductions or removal enhancements
EN ISO 14064-3	Greenhouse gases - Part 3: Specification with guidance for the validation and verification of greenhouse gas assertions (ISO 14064-3:2006); German and English version EN ISO 14064-3:2012

Period of validity: 27.01.2020 to 13.12.2023 Date of issue: 27.01.2020 - Translation -

Page VI Reference/Date: IS-US1-RGB / 2021-03-15 Report No. VS-3365383-1





Annex to the Accreditation Certificate D-VS-14153-01-00

Abbreviations used:

- DIN Deutsches Institut für Normung e.V.
- EN European Standard
- EU European Union
- ISO International Organization for Standardization

Period of validity: 27.01.2020 to 13.12.2023 Date of issue: 27.01.2020 - Translation -

3/3