Project Greensand Phase 1

3rd party certification Statement of Feasibility

DNV-GL

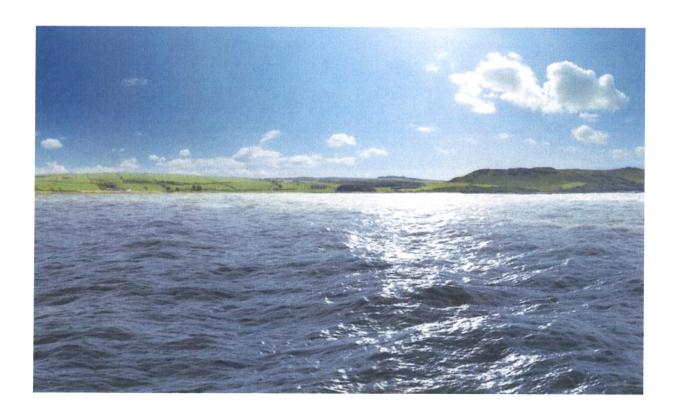
G1.1 GREENSAND FEASIBILITY

Project Greensand Verification Report – Site Feasibility

INEOS E&P A/S

Report No.: 2020-1092, Rev. 1

Document No.: 948661 **Date:** 2020-10-28



Project name:

G1.1 Greensand Feasibility

Report title:

Project Greensand Verification Report - Site

Feasibility

Customer:

INEOS E&P A/S,

Teknikerbyen 5, 1st Floor

2830 Virum

Denmark

Customer contact:

Estela Vazquez Esmerode

Date of issue:

2020-10-28

Project No.:

10254275

Organization unit:

Oil & Gas Denmark

Report No.:

2020-1092, Rev. 1

Document No.:

948661

 $Applicable\ contract(s)\ governing\ the\ provision\ of\ this\ Report:\ Verification\ contract\ EP-090591,\ Purchase$

order 4501065571

Objective:

CO₂ Storage Verification as per scope of work O-ED-202000670 rev. 2 - Feasibility

Prepared by:

Jørg Aarnes

Aarnes, Jørg Jørg Date: 2020.10.28 08:04:19

Global Lead - Low Carbon O&G

Verified by:
Digitally signed by Aarnes,



Digitally signed by Paschke, Peter Date: 2020.10.28 08:44:16+01'00'

Peter Paschke Principal Surveyor

Approved by:



Digitally signed by Jakobsen, Mick Cramer Date: 2020.10.28 13:33:54+01'00'

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Mick Cramer Jakobsen Head of Section, Sales (CAPEX)

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Rev. No.	Date	Reason for Issue	Prepared by	Verified by	Approved by
0	2020-10-28	First issue			

DNV-GL

CERTIFICATE OF CONFORMITY - SITE FEASIBILITY

Statement No: **10254275 - CS 341-1**

Project proponent(s):

INEOS E&P - Contract EP-090591, PO 4501065571, Scope of Work O-ED-202000679 rev. 2.

Prospective storage site(s):

Nini West: The Storage Complex extends stratigraphically from Top Vile Formation to Top Horda Formation. The lateral extent is defined by the up-dip pinch out of the storage unit (Lower Eocene Frigg Member of the Horda Formation) onto the Nini salt structure towards the east and by the outline of the 4/95 license in the down-flank area.

Screening basis:

Site allows injection of 0,45 million tonnes CO2 per annum through one dedicated injector for 10 years. Injected CO2 shall, while in buoyant free-phase form, be contained within the storage complex.

This is to certify:

That site screening and selection has been performed in accordance with /1/. DNV GL considers that /3/ demonstrates that long-term geological storage of 0,45 megatonnes to be injected over a period of 10 years in the prospective storage site(s) is conceptually feasible as defined in /2/, and thereby suited for further site characterization and qualification according to /1/ and /2/.

Certification Involvement:

DNV GL has verified that site screening and selection has been performed in accordance with /1/ and /2/, and checked conformity with the screening basis. The verification report /4/ includes a description of the verification process, conclusions from the evaluations, and deviations, if any, from the screening basis.

Validity:

This statement is valid on the date of issue.

Reference documents:

/1/ ISO 27914:2017 Carbon dioxide capture, transportation and geological storage – Geological storage. /2/ DNVGL-SE-0473 Certification of sites and projects for geological storage of carbon dioxide.

/3/ Screening report - Rev. -, "Project Greensand Phase 1 - Feasibility Report and accompanying appendices (see Section 2.4 of /4/)", September 21st, 2020.

/4/ Verification report 2020-1092 Rev. 1, "Project Greensand Verification Report - Statement of Feasibility", October 27th, 2020.

DNV GL shall not be responsible for not having identified risks or hazards that result in loss or damage or for not having prescribed the qualification activities necessary to avoid the loss or damage.

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Form code: CS 341

Revision: 2020-10

Statement No: 10254275 - CS 341-1

Issued at Esbjerg on 2020-10-27

for **DNV GL**



Digitally signed by Jakobsen, Mick Cramer Date: 2020.10.28 13:31:51+01'00'

Mick Cramer Jakobsen Project Sponsor

Form code: CS 341 Revision: 2020-10 www.dnvgl.com Page 2 of 2

DNV·GL

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Attn: Estela Vázquez Esmerode, Johan Byskov Svendsen

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Tel: +45 79128600 Fax: +45 79128601 http://www.dnval.com CVR No. 89832314

Date:

2020-10-28

Your ref.:

Our ref.:

O-ED-202001555

Init:

File No.: 10254275-G1.1

Project Greensand

ADM-16

PP/JORGA/MCJ/

This letter is only sent by e-mail

VERIFICATION CONTRACT EP-090591 PO 4501065571 NINI - NINI WEST - PROJECT GREENSAND SUBMISSION OF CERTIFICATE OF FEASIBILITY

Dear Estela and Johan,

DNV GL is pleased to hereby submit the Certificate of Conformity for Site Feasibility of Nini West Storage site for injection of 0.45 million tonnes CO₂ per annum through one dedicated injector for 10 years:

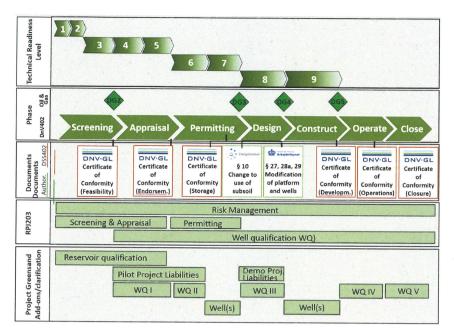
Certificate: CS 341 - CoF - Site Feasibility

This certificate forms an important milestone in the certification process for Project Greensand as per contracted scope of work O-ED-202000679 rev. 2, which is further visualised in the following graphic. The report referred to in our above certificate is also attached to this cover letter (2020-1092, Rev. 1).

We hope that this certificate will be an important part to enable you to further proceed on Project Greensand and DNV GL is looking forward to support INEOS O&G DK and your stakeholders as a competent and reliable partner with certification and regulatory compliance support also in the consecutive phases, leading to authority approval towards the actual injection and storage.

Please see page two, where we have adopted your process along with the required certification process.

Page 2 of 2



Yours faithfully for DNVGL DANMARK A/S



Jørg Aarnes Global Lead – Low Carbon Services Peter Paschke Project Manager - INEOS account manager

Attachment:

- CS 341 CoF Site Feasibility
- > 2020-1092, Rev. 1