

Infrastructure Access Agreement Summary 1

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<p>Provided in relation to the voluntary Industry Infrastructure Code of Practice</p> <p>To be used in summarising construction and tie-in and transportation and processing agreements by the owner/operator for inclusion in the publication of key commercial terms (refer to Paragraph 13 (1))</p>	<p>Ref:</p> <p>The Edvard Grieg TPA</p>
<p>Agreement Title and Date</p> <p>Agreement for the Transportation and Processing of Edvard Grieg Export Gas through the SAGE System dated 18th December 2013</p>	

Scope of Agreement/Responsibilities (Refer to Note 1)

- SAGE North Sea Ltd (as a SAGE owner) will accept, receive, and transport Edvard Grieg export gas in the SAGE main pipeline
- SAGE North Sea Ltd (as a SAGE owner) will process Edvard Grieg export gas at the SAGE terminal
- SAGE North Sea Ltd (as a SAGE owner) will measure, meter, analyse and allocate the entitlement of the Edvard Grieg Owners to sales gas and redeliver Edvard Grieg sales gas at the NTS entry point

Key Provisions (Refer to Note 2)

Commencement Date	Not later than 1st of October 2017
Entry Point	Connection of the Alvheim pipeline to the Beryl pipeline
Redelivery Point (s)	SAGE entry point to the NTS
Capacity/variation rights (Y/N) and timing (refer to Note 3)	"Shippers Reserved Capacity" or "SRC" profile detailed in the agreement. Edvard Grieg operator to provide a full field life capacity booking forecast, including firm quarterly capacity booking for the following contract year and provisional quarterly capacity booking for the contract year thereafter. The firm capacity booking in any contract quarter should be within the lesser of (a) +/- 10 mmscfd, or (b) +/- 25% of the provisional capacity booking made for that contract quarter
Send or Pay/carry forward provisions (Y/N)/Duration	Send or pay obligations of 60% apply No carry forward provisions apply. Minimum contract volume applies

Priority rights during periods when service provision is reduced	All firm bookings to have equal priority
Technical Requirements (refer to Note 4)	Edvard Grieg entry specification into SAGE: cricondenbar pressure less than 106 Bara; water content less than 63ppmv; CO2 less than 7.85 mol%; oxygen content less than 7 ppmv; sulphur content less than or equal to 16.4 ppmv expressed as H2S; carbonyl sulphide (COS) negligible; $\sum(C2 \text{ to } C12 \text{ mol\%}) / (C1 \text{ mol\%})$ max 0.27 / Min 0.19; maximum inlet pressure 173.4 Barg; minimum inlet pressure sufficient to ensure that gas delivered remains in dense phase until reaching the part of the terminal where two-phase flow is first designed to occur; sediment/metals negligible; mercaptans negligible; mercury negligible; duodecans negligible; temperature 13°C max / 4°C min
Payment Structure (Refer to Note 5)	
Tariff range for service provided (refer to Note 6)	Subject to confidentiality restrictions
Range of any separate contribution to capex and opex	None.
Any other payment(s) with range and timing (refer to Note 7)	Opex sharing provisions after October 2024
L&I/Risk Regime fundamentals	<p>Edvard Grieg owners indemnify SAGE North Sea Ltd, the SAGE Owners and SAGE third party shippers against any personal injury or death, property damage, or consequential loss</p> <p>SAGE North Sea Ltd indemnifies the Edvard Grieg owners against any personal injury or death, property damage, or consequential loss incurred by SAGE North Sea Ltd or connection with the SAGE North Sea Ltd share of SAGE</p> <p>No indemnity in place from the other SAGE Owners or any other SAGE third party shippers to the Edvard Grieg owners</p> <p>In respect of off-specification gas delivery, Edvard Grieg owners' liability to the SAGE Owners and third party shippers capped at £130M</p>

Important Additional Data (refer to Note 8) None

Notes:

- (1) Include key provisions and services that have a material impact on risk-reward
- (2) Include any important and unusual elements that materially impact risk-reward
- (3) For each main stream e.g. oil, gas etc
- (4) Should include relevant entry specifications and any important and unusual technical issues.
- (5) The ranges should reflect the type of service provided (price range should be within a 15% band)
- (6) Include summary of indexation principles with floors and ceilings
- (7) Include any fee in kind type payments relating to single component streams, or production deferral in a CTA
- (8) Include any key provisions that materially impact risk-reward not mentioned above (eg hydrocarbon accounting, risk, property, title, extension of terms, assignment (incl. limitations), security provisions, metering, termination, ownership and decommissioning in a CTA etc)

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- (2) Without warranty, implied or express as to its accuracy or relevance of use by any other part.
- (3) Without obligation to provide any further information in respect of the agreement/transaction to which the summary information relates
- (4) Without any obligation to provide access to infrastructure or services on the same terms and conditions

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<p>Agreement Title and Date</p> <p>Construction, Installation and Tie-In Agreement for the SAGE Systems Modifications with respect to the Transportation and Processing of Shippers Export Gas through the SAGE System, dated 27th June 2014</p>	

Scope of Agreement/Responsibilities (Refer to Note 1)

SAGE North Sea Ltd (as a SAGE Owners) will shall perform certain modification work at the SAGE terminal which is required prior to the tie-in of the UHGP pipeline to the Beryl pipeline via the Alvheim tie in point

Edvard Grieg owners shall pay to SAGE North Sea Ltd an amount equal to any and all costs properly incurred by SAGE North Sea Ltd in connection with such work; and they shall pay to SAGE North Sea Ltd an uplift on the costs incurred in respect of such work

Key Provisions (Refer to Note 2)

Commencement Date	N/A
Entry Point	N/A
Redelivery Point (s)	N/A
Capacity/variation rights (Y/N) and timing (refer to Note 3)	N/A
Send or Pay/carry forward provisions (Y/N)/Duration	N/A
Priority rights during periods when service provision is reduced	N/A
Technical Requirements (refer to Note 4)	
Payment Structure (refer to Note 5)	

Tariff range for service provided (refer to Note 6)	N/A
Range of any separate contribution to capex and opex	N/A
Any other payment(s) with range and timing (refer to Note 7)	
L&I/Risk Regime fundamentals	<p>Edvard Grieg owners indemnify SAGE North Sea Ltd, the SAGE Owners and SAGE third party shippers against any personal injury or death, property damage, or consequential loss. Edvard Grieg indemnity covers damage to SAGE and consequential loss, up to a maximum limit of £130m per incident</p> <p>SAGE North Sea Ltd indemnifies the Edvard Grieg owners against any personal injury or death incurred by SAGE North Sea Ltd or connection with the SAGE North Sea Ltd share of SAGE</p> <p>No indemnity in place from the other SAGE Owners or any other SAGE third party shippers to the Edvard Grieg owners</p>

Important Additional Data (refer to Note 8) None

Notes:

- (1) Include key provisions and services that have a material impact on risk-reward
- (2) Include any important and unusual elements that materially impact risk-reward
- (3) For each main stream e.g. oil, gas etc
- (4) Should include relevant entry specifications and any important and unusual technical issues
- (5) (5) The ranges should reflect the type of service provided (price range should be within a 15% band)
- (6) Include summary of indexation principles with floors and ceilings
- (7) Include any fee in kind type payments relating to single component streams, or production deferral in a CTA
- (8) Include any key provisions that materially impact risk-reward not mentioned above (e.g. hydrocarbon accounting, risk, property, title, extension of terms, assignment (incl. limitations), security provisions, metering, termination, ownership and decommissioning in a CTA etc)

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<p>Agreement Title and Date</p> <p>Construction, Installation and Tie-In Agreement for the Shippers Additional Facilities for nitrogen Injection into Shippers Sales Gas with respect to the Transportation and Processing of Shippers Export Gas through the SAGE System, dated 27th June 2014</p>	

Scope of Agreement/Responsibilities (Refer to Note 1)

SAGE North Sea Ltd (as a SAGE Owners) will shall perform certain modification, construction, installation and tie-in work at the SAGE terminal to install a nitrogen injection plant which is required prior to the acceptance of Edvard Grieg or Ivar Aasen gas to the SAGE Terminal

Edvard Grieg and Ivar Aasen owners (herein after referred to as the Shippers) shall pay to SAGE North Sea Ltd an amount equal to any and all costs properly incurred by SAGE North Sea Ltd in connection with such work; and they shall pay to SAGE North Sea Ltd an uplift on the costs incurred in respect of such work

Key Provisions (refer to Note 2)

Commencement Date	N/A
Entry Point	N/A
Redelivery Point (s)	N/A
Capacity/variation rights (Y/N) and timing (refer to Note 3)	N/A
Send or Pay/carry forward provisions (Y/N)/Duration	N/A
Priority rights during periods when service provision is reduced	N/A
Technical Requirements (refer to Note 4)	

Payment Structure (refer to Note 5)	N/A
Tariff range for service provided (refer to Note 6)	N/A
Range of any separate contribution to capex and opex	N/A
Any other payment(s) with range and timing (refer to Note 7)	
L&I/Risk Regime fundamentals	<p>The Shippers indemnify SAGE North Sea Ltd, the SAGE Owners and SAGE third party shippers against any personal injury or death, property damage, or consequential loss. Edvard Grieg indemnity covers damage to SAGE and consequential loss, up to a maximum limit of £130m per incident</p> <p>SAGE North Sea Ltd indemnifies the Shippers against any personal injury or death incurred by SAGE North Sea Ltd or connection with the SAGE North Sea share of SAGE</p> <p>No indemnity in place from the other SAGE Owners or any other SAGE third party shippers to the Shippers</p>

Important Additional Data (Refer to Note 8) None

Notes

- (1) Include key provisions and services that have a material impact on risk-reward
- (2) Include any important and unusual elements that materially impact risk-reward
- (3) For each main stream eg oil, gas etc
- (4) Should include relevant entry specifications and any important and unusual technical issues.
- (5) The ranges should reflect the type of service provided (price range should be within a 15% band)
- (6) Include summary of indexation principles with floors and ceilings
- (7) Include any fee in kind type payments relating to single component streams, or production deferral in a CTA
- (8) Include any key provisions that materially impact risk-reward not mentioned above (eg hydrocarbon accounting, risk, property, title, extension of terms, assignment (incl. limitations), security provisions, metering, termination, ownership and decommissioning in a CTA etc)

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<p>Agreement Title and Date</p> <p>Construction, Installation and Tie-In Agreement for the Utsira High Gas Pipeline, dated 16th February 2015</p> <p><i>NB: the Edvard Grieg and Ivar Aasen fields will connect to the Utsira High Gas Pipeline (“UHGP”), which will then be tied in to the Beryl pipeline. The UHGP Owners comprise the owners of the Edvard Grieg and Ivar Aasen field</i></p>	

Scope of Agreement/Responsibilities (Refer to Note 1)

The UHGP owners at their own expense shall construct, assemble, mechanically complete and commission the UHGP facilities, tie-in the UHGP pipeline to the Beryl pipeline via the Alvheim tie in point

The UHGP owners shall pay to SAGE North Sea Ltd (as a Beryl Owner) an amount equal to any and all costs properly incurred by SAGE North Sea Ltd in connection with the UHGP facilities and construction work; and they shall pay to SAGE North Sea Ltd an uplift on the costs incurred in respect of project management services provided by SAGE North Sea Ltd

Key Provisions (Refer to Note 2)

Commencement Date	N/A
Entry Point	N/A
Redelivery Point (s)	N/A
Capacity/variation rights (Y/N) and timing (refer to Note 3)	N/A
Send or Pay/carry forward provisions (Y/N)/Duration	N/A

Priority rights during periods when service provision is reduced	N/A
Technical Requirements (refer to Note 4)	
Payment Structure (refer to Note 5)	N/A
Tariff range for service provided (refer to Note 6)	N/A
Range of any separate contribution to capex and opex	N/A
Any other payment(s) with range and timing (refer to Note 7)	
L&I/Risk Regime fundamentals	<p>The UHGP Owners indemnify SAGE North Sea Ltd and the Beryl Owners against any personal injury or death, property damage, or consequential loss. UHGP Owners indemnity covers damage to the Beryl pipeline and consequential loss, up to a maximum limit of £130m per incident</p> <p>SAGE North Sea Ltd indemnifies the UHGP Owners against any personal injury or death incurred by SAGE North Sea Ltd or connection with the SAGE North Sea Ltd share of Beryl</p> <p>No indemnity in place from the other Beryl Owners to the UHGP Owners</p>

Important Additional Data (refer to Note 8) None

Notes:

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- (7) Include any fee in kind type payments relating to single component streams, or production deferral in a CTA

- (8) Include any key provisions that materially impact risk-reward not mentioned above (e.g. hydrocarbon accounting, risk, property, title, extension of terms, assignment (incl. limitations), security provisions, metering, termination, ownership and decommissioning in a CTA etc)

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Infrastructure Access Agreement Summary 2

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Infrastructure Access Summary for: Edvard Grieg Development	

Field Development: Connection of the Edvard Grieg platform to the Beryl pipeline (via UHGP) for gas export

Suite of Main Agreements (Refer to Note 1)

Ref:	Commercial Arrangement/Agreement title
The Edvard Grieg TPA	Agreement for the Transportation and Processing of Edvard Grieg Export Gas through the SAGE System
The SAGE Systems CTA	Construction, Installation and Tie-In Agreement for the SAGE Systems Modifications with respect to the Transportation and Processing of Shippers Export Gas through the SAGE System
The Shippers Additional Facilities CTA	Construction, Installation and Tie-In Agreement for the Shippers Additional Facilities for nitrogen Injection into Shippers Sales Gas with respect to the Transportation and Processing of Shippers Export Gas through the SAGE System
The UHGP CTA	Construction, Installation and Tie-In Agreement for the Utsira High Gas Pipeline

Field Details

Field Name	Edvard Grieg
Licence	PL338 – Norwegian Continental Shelf
Block Number	N/A
Operator	Lundin Norway AS
Partners	OMV (Norge) AS, Wintershall Norge AS, Statoil ASA

Field Streams/Characteristics					
Stream	Crude oil	Gas	Condensate	NGLs	Produced Water
Relevant (Y/N)		Y		Y	
Unique characteristics (refer to Note 2)		N/A			
Reserves		64 BCF			
Initial Rate		0.97 MSm ³ /sd			
Plateau		2 years			
Plateau/Peak production		1.46 MSm ³ /sd			

Notes

- (1) Other agreements may exist e.g. pipeline crossings, confidentiality, but they do not materially impact risk-reward
- (2) For example – low API, high H₂S, High CO₂, significant sand production etc

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