

Infrastructure Information

Description: Lincolnshire Offshore Gas Gathering System (LOGGS)

Entry Specification: The entry specification for any future third party production is dependent upon the point at which such production would enter the LOGGS facilities and the composition of production already being processed.

The entry specification will cover areas that affect onward transportation and processing. All gas from LOGGS is processed at the Theddlethorpe Gas Terminal "TGT" (see separate arrangements).

Exit Specification: Liquids – Any liquid hydrocarbons transported via LOGGS would be shipped through the pipeline to TGT. These liquids are then transported by onshore pipeline to the Humber Oil Refinery.

Gas – Any gas transported via LOGGS would be shipped through the pipeline to TGT and onwards to the National Transmission System "NTS" operated by National Grid and the Killingholme Pipeline System "KPS" operated by E.ON UK. The exit specification from the gas terminal is the National Transmission System entry specification at that point.

Outline details of Primary separation processing facilities: The primary separation system on LOGGS is 3-phase. Gas from the separation system is routed to the metering and compression facilities. Water & condensate from the separator is reinjected into the LOGGS pipeline and transported to TGT.

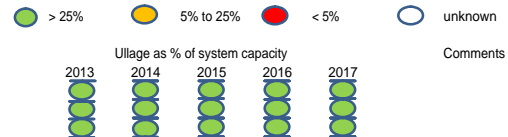
Outline details of gas treatment facilities: The only gas treatment facility on LOGGS comprises the methanol injection system that provides hydrate inhibition and corrosion protection to the field wells and in-field flow lines.

High Level Capacity Information

The basic capacity information is portrayed by colour coded 'traffic lights' that reflect thresholds of availability over the next 5 years

Available Capacities

Description	Capacity
Gas compression capacity	330 mmscf/d
Gas export capacity	1265 mmscf/d
Produced water handling capacity	4800 bbl/d



Contact information

For further enquiries regarding the above please contact UK Commercial Manager - 01224 205000

Last Update: Mar-13

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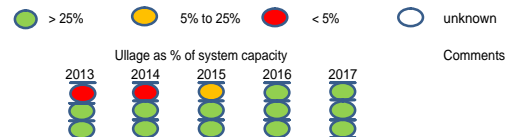
Description:	Theddlethorpe Gas Terminal, Lincolnshire (TGT)
Entry Specification:	The entry specification for any future third party production is dependent upon the point at which such production would enter the Theddlethorpe Gas Terminal and the composition of production.
Exit Specification:	<p>Liquids - Any liquid hydrocarbons processed at the TGT are transported by onshore pipeline to the Humber Oil Refinery.</p> <p>Gas – Any gas processed at the TGT would be redelivered to the National Transmission System ‘NTS’ operated by National Grid and the Killingholme Pipeline System ‘KPS’ operated by E.ON UK. The exit specification from the gas terminal is the National Transmission System entry specification at that point.</p>
Outline details of Primary separation processing facilities:	The primary separation system at TGT is 3-phase. Gas from the separation system is routed to the metering and compression facilities (if applicable). Condensate from the separator is processed and piped to the Humber Oil Refinery. Water is treated and discharged.
Outline details of gas treatment facilities:	This comprises a dehydration system to remove condensate and water by refrigeration. The gas is then restored to the appropriate redelivery temperature. Finally the gas is metered before exiting the terminal. Compression facilities are available if required.

High Level Capacity Information

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Available Capacities

Description	Capacity
Gas compression capacity	80 mmscf/d
Gas export capacity	1200 mmscf/d
Produced water handling capacity	6500 bb/d



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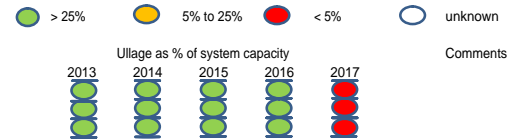
Description:	Viking Transportation System (VTS)
Entry Specification:	<p>The entry specification for any future third party production is dependent upon the point at which such production would enter the VTS facilities and the composition of production already being processed.</p> <p>The entry specification will cover areas that affect onward transportation and processing. All gas from VTS is processed at the Theddlethorpe Gas Terminal "TGT" (see separate arrangements).</p>
Exit Specification:	<p>Liquids – Any liquid hydrocarbons transported via VTS would be shipped through the pipeline to TGT. These liquids are then transported by onshore pipeline to the Humber Oil Refinery.</p> <p>Gas – Any gas transported via VTS would be shipped through the pipeline to TGT and onwards to the National Transmission System "NTS" operated by National Grid and the Killingholme Pipeline System "KPS" operated by E.ON UK. The exit specification from the gas terminal is the National Transmission System entry specification at that point.</p>
Outline details of Primary separation processing facilities:	<p>The primary separation system on VTS is 2-phase. Gas is metered post separation and then routed to the compression facilities.</p> <p>Water & condensate from the separator is reinjected into the VTS pipeline and transported to TGT via Loggs.</p>
Outline details of gas treatment facilities:	<p>The only gas treatment facility on VTS comprises the methanol injection system that provides hydrate inhibition and corrosion protection to the field wells and in-field flow lines.</p>

High Level Capacity Information

The basic capacity information is portrayed by colour coded 'traffic lights' that reflect thresholds of availability over the next 5 years

Available Capacities

Description	Capacity	Ullage as % of system capacity					Comments
		2013	2014	2015	2016	2017	
Gas compression capacity	116 mmscf/d, 79mmscf/d from mid-2013	●	●	●	●	●	
Gas export capacity	230 mmscf/d	●	●	●	●	●	
Produced water handling capacity	2700 bb/d	●	●	●	●	●	



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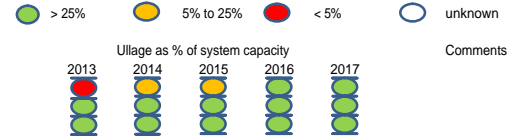
Description:	CMS
Entry Specification:	<p>The entry specification for any future third party production is dependent upon the point at which such production would enter the CMS facilities and the composition of production already being processed.</p> <p>The entry specification will cover areas that affect onward transportation and processing. All gas from CMS is processed at the Theddlethorpe Gas Terminal "TGT" (see separate arrangements).</p>
Exit Specification:	<p>Liquids - Any liquid hydrocarbons transported via CMS would be shipped through the pipeline to TGT. These liquids are then transported by onshore pipeline to the Humber Oil Refinery.</p> <p>Gas - Any gas transported via CMS would be shipped through the pipeline to TGT and onwards to the National Transmission System "NTS" operated by National Grid and the Killingholme Pipeline System "KIPS" operated by E.ON UK. The exit specification from the gas terminal is the National Transmission System entry specification at that point.</p>
Outline details of Primary separation processing facilities:	<p>The primary separation system on CMS is 2-phase. Gas from the separation system is usually routed to the metering and compression facilities.</p> <p>Water & condensate from the separator is reinjected into the CMS pipeline and transported to TGT.</p>
Outline details of gas treatment facilities:	<p>The only gas treatment facility on CMS comprises the methanol injection system that provides hydrate inhibition and corrosion protection to the field wells and in-field flow lines.</p>

High Level Capacity Information

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Available Capacities

Description	Capacity	Ullage as % of system capacity					Comments
		2013	2014	2015	2016	2017	
Gas compression capacity	410 mmscf/d, 215 mmscf/d from mid-2013	●	●	●	●	●	
Gas export capacity	600 mmscf/d	●	●	●	●	●	
Produced water handling capacity	2500 bbl/d	●	●	●	●	●	



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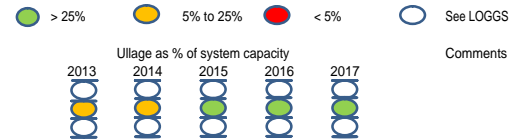
Description:	Normally Unmanned Installation (NUI) tied into the Lincolnshire Offshore Gas Gathering System (LOGGS)
Entry Specification:	<p>The entry specification for any future third party production is dependent upon the point at which such production would enter the LOGGS facilities and the composition of production already being processed.</p> <p>The entry specification will cover areas that affect onward transportation and processing. All gas from LOGGS is processed at the Theddlethorpe Gas Terminal "TGT" (see separate arrangements).</p>
Exit Specification:	<p>Liquids – Any liquid hydrocarbons transported via LOGGS would be shipped through the pipeline to TGT. These liquids are then transported by onshore pipeline to the Humber Oil Refinery.</p> <p>Gas – Any gas transported via LOGGS would be shipped through the pipeline to TGT and onwards to the National Transmission System "NTS" operated by National Grid and the Killingholme Pipeline System "KPS" operated by E.ON UK. The exit specification from the gas terminal is the National Transmission System entry specification at that point.</p>
Outline details of Primary separation processing facilities:	There are no primary separation processing facilities on Saturn/Mimas/Tethys. The primary separation system on LOGGS is 3-phase. Gas from the separation system is routed to the metering and compression facilities. Water & condensate from the separator is reinjected into the LOGGS pipeline and transported to TGT.
Outline details of gas treatment facilities:	There are no gas treatment facilities on Saturn/Mimas/Tethys. The gas treatment facility on LOGGS comprises the methanol injection system that provides hydrate inhibition and corrosion protection to the field wells and in-field flow lines.

High Level Capacity Information

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Available Capacities

Description	Capacity
Gas compression capacity	see LOGGS
Gas export capacity	160 mmscfd
Produced water handling capacity	see LOGGS



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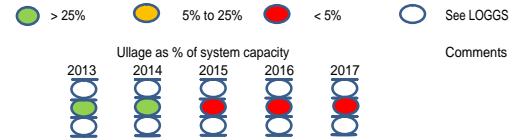
Description:	Normally Unmanned Installation (NUI) tied into the Lincolnshire Offshore Gas Gathering System (LOGGS)
Entry Specification:	<p>The entry specification for any future third party production is dependent upon the point at which such production would enter the LOGGS facilities and the composition of production already being processed.</p> <p>The entry specification will cover areas that affect onward transportation and processing. All gas from LOGGS is processed at the Theddlethorpe Gas Terminal "TGT" (see separate arrangements).</p>
Exit Specification:	<p>Liquids – Any liquid hydrocarbons transported via LOGGS would be shipped through the pipeline to TGT. These liquids are then transported by onshore pipeline to the Humber Oil Refinery.</p> <p>Gas – Any gas transported via LOGGS would be shipped through the pipeline to TGT and onwards to the National Transmission System "NTS" operated by National Grid and the Killingholme Pipeline System "KPS" operated by E.ON UK. The exit specification from the gas terminal is the National Transmission System entry specification at that point.</p>
Outline details of Primary separation processing facilities:	There are no primary separation processing facilities on Vampire/Viscount. The primary separation system on LOGGS is 3-phase. Gas from the separation system is routed to the metering and compression facilities. Water & condensate from the separator is reinjected into the LOGGS pipeline and transported to TGT.
Outline details of gas treatment facilities:	There are no gas treatment facilities on Vampire/Viscount. The gas treatment facility on LOGGS comprises the methanol injection system that provides hydrate inhibition and corrosion protection to the field wells and in-field flow lines.

High Level Capacity Information

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Available Capacities

Description	Capacity
Gas compression capacity	see LOGGS
Gas export capacity	40 mmscf/d
Produced water handling capacity	see LOGGS



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Infrastructure Information

Description:	Normally Unmanned Installation (NUI) tied into the Lincolnshire Offshore Gas Gathering System (LOGGS)
Entry Specification:	<p>The entry specification for any future third party production is dependent upon the point at which such production would enter the LOGGS facilities and the composition of production already being processed.</p> <p>The entry specification will cover areas that affect onward transportation and processing. All gas from LOGGS is processed at the Theddlethorpe Gas Terminal "TGT" (see separate arrangements).</p>
Exit Specification:	<p>Liquids – Any liquid hydrocarbons transported via LOGGS would be shipped through the pipeline to TGT. These liquids are then transported by onshore pipeline to the Humber Oil Refinery.</p> <p>Gas – Any gas transported via LOGGS would be shipped through the pipeline to TGT and onwards to the National Transmission System "NTS" operated by National Grid and the Killingholme Pipeline System "KIPS" operated by E.ON UK. The exit specification from the gas terminal is the National Transmission System entry specification at that point.</p>
Outline details of Primary separation processing facilities:	There are no primary separation processing facilities on Ganymede/Europa. The primary separation system on LOGGS is 3-phase. Gas from the separation system is routed to the metering and compression facilities. Water & condensate from the separator is reinjected into the LOGGS pipeline and transported to TGT.
Outline details of gas treatment facilities:	There are no gas treatment facilities on Ganymede/Europa. The gas treatment facility on LOGGS comprises the methanol injection system that provides hydrate inhibition and corrosion protection to the field wells and in-field flow lines.

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Available Capacities		> 25% 5% to 25% < 5% See LOGGS	Comments
Description	Capacity	Ullage as % of system capacity	
Gas compression capacity	see LOGGS	2013	2014
Gas export capacity	120 mmscf/d		
Produced water handling capacity	see LOGGS		
		2015	2016
		2017	

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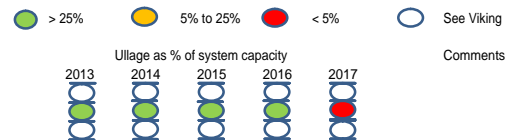
Description:	Normally Unmanned Installation (NUI) tied into the Viking Transportation System (VTS)
Entry Specification:	<p>The entry specification for any future third party production is dependent upon the point at which such production would enter the VTS facilities and the composition of production already being processed.</p> <p>The entry specification will cover areas that affect onward transportation and processing. All gas from VTS is processed at the Theddlethorpe Gas Terminal "TGT" (see separate arrangements).</p>
Exit Specification:	<p>Liquids – Any liquid hydrocarbons transported via VTS would be shipped through the pipeline to TGT. These liquids are then transported by onshore pipeline to the Humber Oil Refinery.</p> <p>Gas – Any gas transported via VTS would be shipped through the pipeline to TGT and onwards to the National Transmission System "NTS" operated by National Grid and the Killingholme Pipeline System "KPS" operated by E.ON UK. The exit specification from the gas terminal is the National Transmission System entry specification at that point.</p>
Outline details of Primary separation processing facilities:	The primary separation system on VTS is 2-phase. Gas is metered post separation and then routed to the compression facilities. Water & condensate from the separator is reinjected into the VTS pipeline and transported to TGT via Loggs.
Outline details of gas treatment facilities:	The only gas treatment facility on VTS comprises the methanol injection system that provides hydrate inhibition and corrosion protection to the field wells and in-field flow lines.

High Level Capacity Information

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Available Capacities

Description	Capacity
Gas compression capacity	see Viking
Gas export capacity	56 mmscf/d
Produced water handling capacity	see Viking



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