

# HUGS PIPELINE CONSTRUCTION PROCESS



## KEY POINTS

### WHAT'S INVOLVED?

Lochard Energy is developing the Heytesbury Underground Gas Storage (HUGS) Project.

The HUGS Project will develop a new wellsite which can access three depleted gas fields being Mylor, Fenton Creek and Tregony. This site is referred to as the MFCT wellsite. The current plan is to develop the Mylor field with 1-2 new gas storage well(s).

A key component of the HUGS Project is the construction of a new 5.3 km 300mm diameter underground gas pipeline, referred to as the HUGS Pipeline.

This fact sheet provides an overview of each stage of the construction process and is intended to inform landowners and occupiers, stakeholders and the broader public about the potential impact of the proposed HUGS Pipeline.

## HUGS Pipeline Construction Overview

### PIPELINE ROUTE

The selected route for the HUGS Pipeline is shown in the map below.



## LANDOWNER & OCCUPIER ENGAGEMENT

Meetings will be held with landowners, occupiers and other stakeholders who are expected to be directly impacted by the proposed HUGS Pipeline.

The meetings will be held either face-to-face or virtually to negotiate access to private and public property for pipeline construction, operation and maintenance activities.

These meetings will address the impacts the pipeline may have and how these will be managed, as well as access considerations, route optimisation and compensation agreements.

## LAND SURVEYS

Land surveys will be conducted along the selected pipeline route to obtain data and knowledge, including but not limited to, cultural heritage, geotechnical, environmental and social considerations. These surveys will inform the planning for the pipeline's construction, operation and rehabilitation.

Land surveys typically involve a small team (generally up to five people) accessing a property by foot or in a light vehicle. Some equipment may be used as part of the surveys, including surveying and testing equipment (such as probes to measure electrical conductivity of soil or a small drill to collect soil samples).

Some land surveys will also require photography that will be used to map out assets such as fences, dams or other existing service utilities.

Landowners and occupiers will be informed about the land surveys proposed to be conducted on their land and Lochard Energy will seek to reach agreement regarding access to conduct these surveys. The landowners and/or occupiers will have the opportunity to provide feedback on timing and access in order to avoid disruption to a property's operation, or to avoid impact to a certain location of a property. If Lochard Energy is unable to obtain agreement to enter the land for the purposes of a land survey, Lochard Energy may apply to the Minister for Energy and Resources for consent to enter the land under Section 22 of the Act.

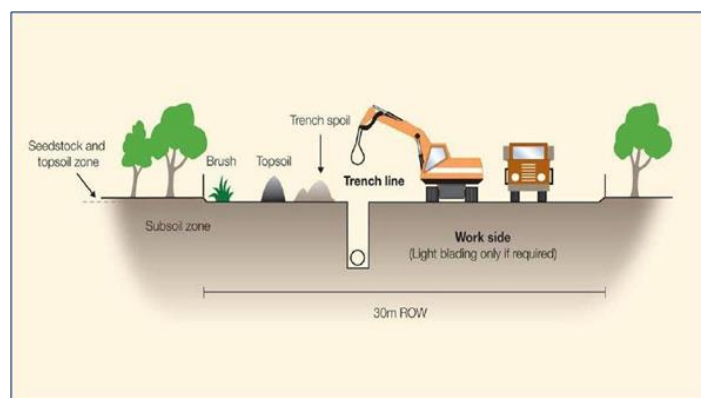
## WORK AREAS

Preparation for the HUGS Pipeline easement and associated work areas, referred to as Right of Way (ROW), will be clearly identified. These work areas, including areas to stockpile lengths of pipeline and other pipeline materials, will be identified in collaboration with impacted landowners and occupiers.

The pipeline corridor comprises of a 12m wide permanent pipeline easement which is consistent along the full extent of the pipeline corridor. For the purpose of construction, there is an additional contiguous temporary work area adjacent to the pipeline easement that varies between 3m wide and 88m wide, although for the majority of the pipeline corridor's length is 13m wide which provides a typical 25m wide construction right of way (ROW).

The exact width of the ROW for the HUGS Pipeline has been determined by surveys, feedback from landowners and other construction considerations informed by the preparation of impact management plans.

The below diagram demonstrates a typical pipeline Right of Way (ROW):



## CLEAR & GRADE

Pipeline construction activities can commence once all regulatory approvals and landowner agreements are reached.

Clear and grade, the first physical step involved in a pipeline's construction, involves the preparation of the pipeline easement and associated work areas by using excavators, bulldozers and graders. Topsoil and vegetation are stockpiled to assist post-construction rehabilitation works.

## STRINGING

Lengths of steel pipe are stockpiled in work areas before being transported along the ROW. The pipeline lengths are then laid end-to-end next to the pipeline trench in preparation for welding and installation.

## WELDING

Pipe lengths are welded together prior to lowering the pipeline into the prepared trench. Pipeline welds are inspected using x-ray or ultrasonic equipment. Fire restrictions are always observed during welding activities to ensure fire safety.

## TRENCHING

Pipe trenching machines and excavators are used to dig the trench along the proposed pipeline route. Any subsoil is removed and placed on the side of the trench and will be used at a later stage to bury the pipeline.

## TRENCHLESS CONSTRUCTION

Trenchless construction using specialist Horizontal Directional Drilling (HDD) equipment is used when traditional trenching methods are deemed unsuitable and enables the pipeline to navigate away from areas of environmental sensitivity or existing infrastructure.

HDD technology inserts the welded pipeline into a tunnel prepared by HDD equipment.

## PADDING & LOWERING-IN

The trench is padded with sand or existing materials and the pipeline is lowered into the trench using heavy machinery equipment including side-booms. The pipeline is lowered into the trench following a rigorous quality assurance process. This process is shown in the image below.



## BACKFILLING

Open trenches are backfilled with suitable fill material so that the coated pipeline is then completely buried - apart from the two above-ground locations i.e. at the start and end points of the pipeline.

The stockpiled topsoil is then reinstated over the buried pipeline to match the contour of the land and to ensure pastures can be rehabilitated.

## HYDROTESTING

Hydrotesting is the final test of a pipeline to ensure the pipeline is ready for operation. In this process, water is pressure tested through the pipeline to check for leaks and marks the final stage in the quality assurance process.

## REHABILITATION & LAND CARE

Rehabilitation of the ROW is an essential part of a pipeline's lifecycle and a proponent's commitments to regulatory requirements and technical obligations under Australian Standard AS2885.

Any disturbed areas must be reinstated to their former state including erosion control and recontouring to match the existing topography and environment. Topsoil conserved during construction is used to assist in pasture regrowth.

Where necessary, rehabilitated areas can be kept fenced during this period to prevent damage by stock and ensure successful rehabilitation.



## SINAGE

Signage is placed along the pipeline alignment at regular intervals and informs landowners of the location of the underground pipeline.

Contact information for the relevant pipeline owner and Before-You-Dig-Australia is included on the pipeline signage.

## DECOMMISSIONING

A licensed pipeline must be decommissioned in accordance with AS2885, the Australian Pipelines and Gas Association's Environmental Code of Practice and the approved pipeline decommissioning plan.

The Pipelines Act requires this decommissioning plan to be approved by the relevant regulatory authority. An environmental risk assessment process that identifies any potential effect on the environment and other uses or users of the easement should support decommissioning preparation.

If the decommissioned pipeline is left in place, appropriate measures will be taken to prevent contamination of soil or groundwater and to avoid land subsidence impacts.

## ABOUT LOCHARD ENERGY

The proposed HUGS Project is being developed by Lochard Energy.

Lochard Energy are trusted infrastructure specialists that develop, own and operate energy infrastructure, which help facilitate a smoother and more rapid transition toward a lower carbon emitting economy.

We are committed to operational excellence, an outstanding safety culture and being a dependable member of the communities in which we operate.

## MORE INFORMATION

Should you require further information on the pipeline's construction, please contact Lochard Energy or one of the pipeline regulators: the Department of Energy, Environment and Climate Action or Energy Safe Victoria.

### Lochard Energy

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