



Jemena Gas Port Kembla Lateral Looping Pipeline Project



Construction Update

Jemena is proposing to upgrade its existing Port Kembla Lateral pipeline to strengthen the security of gas supply for New South Wales and the east coast gas market.

The proposed Port Kembla Lateral Looping Project will connect Australian Industrial Energy (AIE), a Squadron Energy company, proposed Port Kembla Energy Terminal at Spring Hill and transport gas from there to local customers via Jemena's Eastern Gas Pipeline. The Port Kembla Lateral Looping Project involves the construction of a 7.8 kilometre long, buried gas pipeline from Spring Hill to Kembla Grange in Wollongong City Council region. The project will also see Jemena's Kembla Grange facility upgraded to include a metering station.

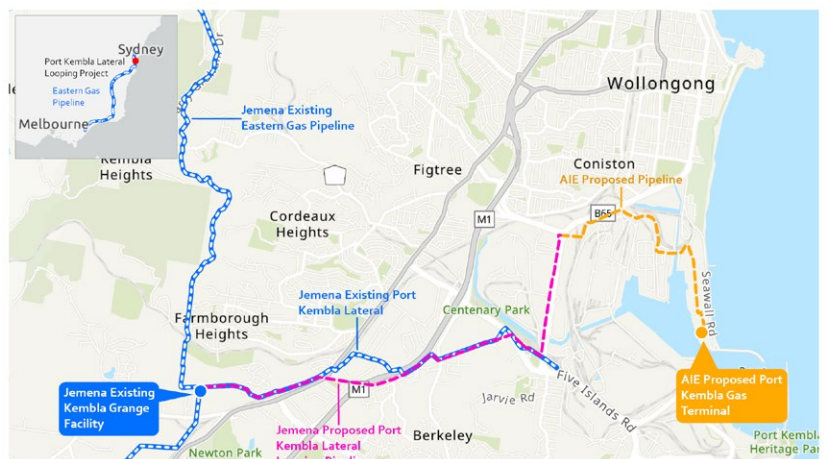
The Port Kembla Lateral Looping Project complements Jemena's efforts across northern Australia and New South Wales to make more gas available to Australian gas users including the 500 heavy industrial users and 33,000 NSW businesses which rely on natural gas for their operations.

Jemena will work closely with the local community to keep them informed as the project progresses.

Pipeline construction

Jemena has chosen Nacap Australia as its pipeline construction contractor.

The gas pipeline will be constructed using standard techniques which involve a combination of open trenching and horizontal directional drilling. The majority of the pipeline will be constructed by open trenching (see Figure 2 for the construction method). Horizontal directional drilling is employed in areas to avoid impacts to roads, railways and significant built development.



Open trenching

The open trenching method of pipeline construction is used where the pipeline is able to be installed typically 1 – 2m below the natural ground level. This technique involves the use of trucks, excavators, graders and

pipeline specific machinery such as sidebooms. Importantly, the ground surface is restored after the pipeline has been constructed and marker posts are put in place at regular intervals to indicate the location of the pipeline.

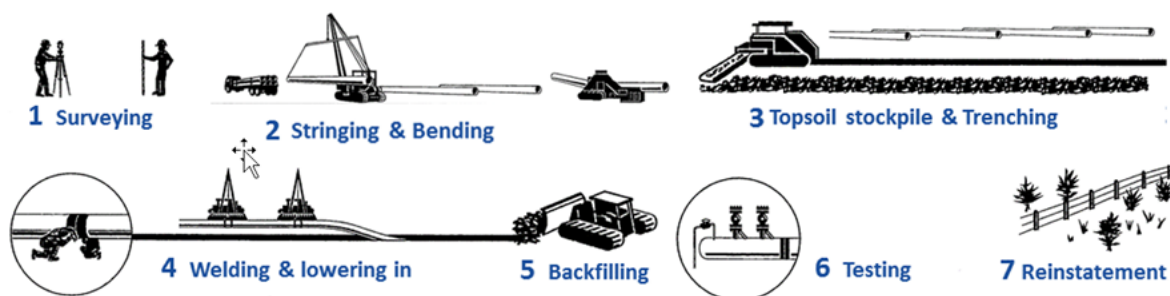


Figure 2: Open trenching method of pipeline construction

Horizontal directional drilling

The horizontal directional drilling technique involves the use of a machine to drill between two locations so that the pipe can be installed beneath the ground at depths up to 25 metres. This technique allows the pipeline to be installed without significant disturbance to major buildings, other infrastructure or natural environments of particular significance. Drilling involves the creation of an underground annulus which the welded pipe is then pulled through to install it at the desired depth. Each end of the drilled section of pipeline is then joined to the adjacent pipeline installed using the trenching technique - to create a continuous pipeline.

Kembla Grange Metering Station

Jemena has chosen Wasco Australia to build the Kembla Grange Metering Station. Construction of the metering station will be confined to the Wyllie Road location in a relatively small defined area.

Timing of Works

Construction is planned to commence in December 2022, with commissioning of the project expected by the end of 2023. This timeframe encompasses construction of both the Jemena and AIE gas pipelines in combination, extending between Kembla Grange and the Port Kembla Gas Terminal.

Most work will be carried out during standard construction hours of 7 am to 6 pm Monday to Friday

and 8 am to 1 pm Saturday. However, horizontal directional drilling is typically a 24 hour operation once the drilling process has commenced.

When working in the vicinity of residences, adjoining businesses or other sensitive locations Jemena and our contractors will put in place necessary controls and management measures to reduce the construction impact to neighbours, such as noise, dust and construction traffic.

During the construction phase we will be in regular contact with directly affected landowners and those nearby to our works, to keep the community up to date about works progress in your area.

Preparing for a Renewable Gas Future

The Port Kembla Lateral Looping project is designed to not only help alleviate forecast gas shortages across Australia's east coast but with the future in mind. To do this, the project will be developed using material which can transport renewable gases such as hydrogen and biomethane in the event they become commercially available.

Further Information

For further information please visit our project webpage at <https://jemena.com.au/pipelines/eastern-gas-pipeline/port-kembla-lateral-looping>

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