

**Arrow's Bowen Projects:  
Bowen Gas Project and Arrow Bowen Pipeline  
Community information sessions  
2 – 5 March, 2015**

***Introduction***

The proposed Arrow Bowen Gas Project involves the construction of wells and infrastructure to extract, treat and compress coal seam gas (CSG) from the Moranbah area. The proposed Arrow Bowen Pipeline would transport the gas to the proposed Gladstone Gas Hub, north-west of Gladstone.

The BGP area is proposed to be developed in three phases: phase one starting from Moranbah and extending north to Glenden, phase two further north, and phase three south of Moranbah.

Phase one entered the define phase in late 2014. This phase is expected to take about 12 months. The proposed project lies near the existing Moranbah Gas Project, owned jointly by Arrow and AGL Energy. One of the largest CSG fields in Australia, it has been producing gas for the domestic market since 2004.

***How to read these notes***

Questions and comments from the audience are in bold type. The responses are from Arrow staff.

In some cases, responses have been summarised. At other times, additional information has been included to provide further context or explanation. This information is italicised, following the answer.

If you have any further questions or comments about the project, please contact the project team:

**Freecall:** 1800 038 856

**Email:** [info@arrowenergy.com.au](mailto:info@arrowenergy.com.au)

<b>Gracemere</b>		
<b>Date:</b>	Thursday 5 March, 2015 5pm – 8pm	
<b>Venue:</b>	Community information session Gracemere Community Hall, Barry Street 25 attendees	
<b>Presenters:</b>	David Wolf, Project Manager Gathering Systems	Arrow Energy
	John Lott, Pipelines Construction Manager	Arrow Energy
<b>Facilitator:</b>	Glenda Viner, General Manager Community Relations	Arrow Energy

**Q. Is the map of the pipeline going up on the website?**

**A.** Yes the map will be up next week.

**Q. How thick is the pipe?**

**A.** Varying thickness – 13-18mm for the wall thickness , which can go up to 23mm in other sections in above ground piping. Some areas are thicker than others e.g. road crossings. Generally the pipe is 13-18mm thick.

**Q. How are you going to guarantee landholders that your contractor will honour contracts between Arrow and their landholders?**

**A.** We are very strict with the management of our contractors. Arrow Energy plans to have a management team in the field at all times. Controls such as approvals, site inspections and penalties conditions are put in the contracts.

**Q. This isn't a question just a statement, I am a lawyer from Weinberg Lawyers. If anyone needs assistance or advice on dealing with these mining and resource companies or legal aid come and see me.**

**Q. What is the life of the project?**

**A.** Design life is 50 years for the pipeline.

**Q. Do you have a sunset clause on your easements?**

**A.** We can't answer that for you right now, we will take that question on notice and come back to you.

*[Clarification: once the project is finished, the pipeline will be decommissioned. Once decommissioning works are complete and Arrow Energy no longer requires access, the easement will be relinquished.]*

**Q. There is a lot of water that flows across our farm which caused erosion, how will you consider the aboveground flow?**

**A.** Erosion control is a serious issue. When we build the pipeline, we consider above and below the ground. We use various measures to control erosion such as:

- we fill in around the pipe and compact the ground
- place sand bags or foam 'trench breakers' which act as a water control in the trench.
- build erosion control banks and drainage lines above ground.

**Q. Will it be pegged and how far?**

**A.** Yes, the pipeline will be pegged for the whole route to indicate the easement. The contractor is required to work within these approved areas. Marker Signs will be placed on top of the pipeline showing the location

and direction of the finished pipeline. You will be able to stand at one sign and see the next, so you can see the direction of the pipeline.