



[Edition 14, March 2015]

WELCOME to the March edition of the AgForce Projects CSG newsletter and the first newsletter of 2015.

In this edition we provide our regular update on CSG company activity across the Surat, Bowen and Galilee Basins, new mining approvals and how these could potentially impact landholders.

We have also provided an update on the situation near Hopeland, summarised the findings in the annual UWIR report and outline the difference between CSG and LNG.

You can access information about our upcoming events as well as presentations online by visiting [www.agforceprojects.org.au/csg](http://www.agforceprojects.org.au/csg).

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## AgForce Projects launches Advanced workshops

Sharing experiences, concerns and triumphs is the focus of new Advanced Coal Seam Gas (CSG) Negotiation Support workshops, which were launched at the beginning of the year.

CSG Project Leader Daniel Phipps said the new workshops are designed for landholders who are negotiating, have negotiated or are renegotiating a Conduct and Compensation Agreement (CCA) or a Make Good agreement with a resource company.

"This new series is about landholders sharing experiences, triumphs and tribulations with each other, as well as being updated on developments in the industry," Mr Phipps said.

"Knowledge is power, and when producers are equipped with the right information and tools, the more confident they will feel negotiating with the CSG companies to obtain the best possible outcome for their property and business."

"The rapid expansion of the industry means a lot of people have signed CCAs, but this doesn't mean producers should sit back and become complacent."

"CCAs and activities can change and landholders need to remain aware of changes within the industry and of their rights as well as learn how to develop more effective conduct provisions from experiences shared."

The team will continue to hold CSG Information Sessions for those landholders that are not at the advanced negotiation stages as well as the community members that are interested in general information about coal seam gas and mining activities.

Producers that are interested in attending any AgForce Projects events should visit [www.agforceprojects.org.au](http://www.agforceprojects.org.au).

## New Minister for Natural Resources and Mines appointed

Dr Anthony Lynham, Member for Stafford, was appointed as Minister for Natural Resources and Mines after Labor won the state election earlier this year. Dr Lynham has also been appointed the Minister for State Development.

The new Minister said the government supports the MyMinesOnline initiative, the Ministerial Advisory Committee on Exploration, and the work of the Geological Survey of Queensland. He also said they plan to create a red tape reduction council and are committed to consulting with the Queensland Resources Council and other peak bodies in the resources sector on legislative and regulatory changes.

To read Dr Lynham's welcome message, please click [here](#).

### In this issue

- Company update 2
- Government update 4
- New Acland Mine approved 4
- Have your say 5
- Hopeland update 6

### Upcoming Events

#### Digital Mapping Workshops

Sessions run from 8.45am to 4pm.

RICHMOND - 24 March

HUGHENDEN - 25 March - **FULL**

CHARTERS TOWERS - 26 March - **FULL**

MOONIE - 21 April

DALBY - 22 April

MILLMERRAN - 23 April

#### CSG & Biosecurity Field Day

Join the CSG team; the Livestock Biosecurity Network; Grazing Best Management Practices program and the CSG Compliance Unit for a field day discussing how keeping biosecurity and baseline records can help deal with CSG companies.

WANDOAN - 14 April, 9am to 4pm

#### Advanced CSG workshops

ROMA - 3 June, 9am to 1pm

CHINCHILLA - 4 June, 9am to 1pm

DALBY - 5 June, 9am to 1pm

#### Agribusiness information session

Designed for agribusiness professionals seeking information regarding CSG and regional planning to help them provide information to their clients.

TOWNSVILLE - 27 March

For more information, or to register for one of our events call 3238 6048 or visit [www.agforceprojects.org.au](http://www.agforceprojects.org.au).

## Company update

The information below provides a brief overview of the key activities and projects currently being undertaken by resource companies in Queensland. If you have any concerns or need further details please contact the CSG Project Team on (07) 3238 6048 or [email](#).

## QGC Update - Curtis Island begins exporting gas

QGC began exporting CSG in December, loading its first ships Methane Rita Andrea and Methane Mickie Harper out of Queensland's Curtis Island Liquid Natural Gas project off Gladstone. QGC is owned by British Gas or BG Group. Both ships were bound for Asia.

The Curtis Island project is one of three major CSG/LNG export projects, which are all expected to be fully operational by 2017. When the three projects are complete the Port of Gladstone will have a production capacity of 25.3 million tonnes of LNG a year.

The exports continued to go ahead even after Santos announced in November last year it was cutting its capital spending budget by more than \$700 million in response to the fall in oil prices, and other oil and gas explorers are following suit. Oil Search, Beach Energy, Horizon Oil and Senex Energy are also revisiting capital expenditure budgets after the dive in prices.

The Santos GLNG project is expected to deliver its first LNG shipment in the second half of next year, along with Australia Pacific LNG.

Australia exports about 24 million tonnes of LNG worth about \$14 billion from the North West Shelf off Western Australia, but what is happening in Queensland is a world first: converting coal-seam gas to LNG for export.

Combined, the two industries, one off the west coast and the other one the east coast, have the potential to make Australia the world's biggest exporter of LNG.

The federal government has forecast that LNG exports could rise to 80 million tonnes by 2018, valued at \$60bn.

## CSG By Numbers

- **5000 access agreements** have been signed with CSG companies
- **6000+ wells** are in the Western Darling Downs
- **Up to 40,000 wells** are expected to be drilled over the next 20 years.

## CSG industry revenue to increase by 148 per cent in next year

A report from IBISWorld has predicted a strong year for the coal seam gas industry, with revenue expected to increase by 148 per cent, reaching \$1.83 billion.

This predicted substantial industry growth is driven by the development of export capabilities. Supply to Japan, China and South Korea, which are the world's three largest natural gas importers will be boosted in 2015 as the Curtis Island LNG plant becomes operational.

Once fully operational, the Curtis Island LNG plant will be the world's first project to turn coal seam gas into liquefied natural gas. Click [here](#) for more information.

## Blue Energy to supply gas to Gladstone

Blue Energy has announced it will now supply gas to Curtis Island through Arrow Energy's Moranbah Gas Project and its proposed gas development and export pipeline project. The project is currently in the FEED stage, or Front End Engineering and Design.

## APLNG Update

Origin Energy has announced the Australia Pacific LNG project is 88 percent complete and received first gas in early February.

The completion of the pipeline and the arrival of the gas means that the APLNG Project can initiate the commissioning of the power generation facilities on the island.

Origin said the the upstream component of the project is 90 per cent complete, with 1,019 development wells drilled and 666 wells commissioned.

The downstream component is 86 percent complete and the second train module has been set on its permanent foundations.

The project is on track for first LNG in mid-2015.

Origin is the upstream CSG operator and is responsible for construction and operation of the project's gas fields and main gas transmission pipeline. ConocoPhillips is the downstream LNG operator and is responsible for construction and operation of the LNG facility.

More information on the APLNG Project can be found [here](#).

*Company update continued...***QCLNG Project faces writedowns**

BG Group (British Gas), owner of the Curtis Island LNG plant and parent company of QGC, has been forced to write-down the value of its assets by almost \$9 billion, after the price of oil crashed in early January.

As the first of three \$20 billion newly-built LNG plants to come online, QCLNG bore the brunt of the reductions, suffering a \$6.8 billion write-down. The company plans to further reduce spend in 2015 between \$6-7 billion.

BG Group said LNG would remain its focus in 2015 and it remained on track to start production from the second QCLNG production train in the third quarter. It is expected that QCLNG will reach full production of 8 million tonnes per year in the middle of 2016.

**i What does this mean for landholders?**

As some resource and coal seam gas companies face write-downs in the wake of the oil price crash, many landholders are left wondering, 'What does this mean for me?'

When a company suffers 'write-downs' it means that they have reduced the value of a particular asset.

With some companies facing large write-downs this means that some planned construction or activities are being delayed or placed on hold.

This does not mean that activities will cease altogether. Many companies will refocus on gas extraction - meaning they will continue to build wells in the viable Queensland areas.

We urge landholders to remain aware of changes and developments in the industry and please [contact us](#) should you have any questions or concerns.

**CSG vs LNG**

**Coal seam gas (CSG)** is mostly composed of methane and is typically attached to the coal along its natural fractures and cleats underground. This gas is released when pressure on the coal seam is reduced, usually by removing water from the seam. In order to access the gas, wells are drilled into the coal seams, bringing the water from the coal seams to the surface. This process reduces pressure and allows the gas to be released.

**Liquefied natural gas (LNG)** is coal seam gas that has been cooled to the point it becomes a liquid and is able to be safely stored and transported.

The process of extracting gas and converting CSG to LNG is commonly broken into three industry classifications:

- Upstream: the process of surveying, drilling, extracting, processing and compressing coal seam gas.
- Midstream: the pipeline linking gas fields to the LNG plant.
- Downstream: the process of converting the gas into a liquid for shipment and export.

**Shell cancels Arrow LNG Project**

Royal Dutch Shell has withdrawn its plans for a new \$US20 billion+ LNG project at Curtis Island. The decision has been blamed on falling oil prices, with Shell cutting spending by \$15 billion over three years.

Arrow (subsidiary of Royal Dutch Shell) said work would go ahead on the development of the Arrow coal seam gas reserves in the Bowen and Surat Basins.

Shell and PetroChina are now focussing on supplying one or more of the three LNG projects already under construction or operating in Queensland.

QGC's \$US20.4 billion Curtis Island LNG project, which started exports in December, is short of gas feedstock, as is Santos' \$US18.5 billion GLNG project. Arrow gas could potentially feed into Origin Energy's \$24.7 billion Australia Pacific LNG project.

For the full story click [here](#).

**Santos Update**

First gas has been received at Santos' Curtis Island LNG plant and will power the first gas turbine generator to be used for high voltage power generation.

In 2014, Santos GLNG drilled 119 wells along and a 420-kilometre pipeline, including a 4.3-kilometre undersea pipeline tunnel.

The Santos GLNG project is over 90% complete and on track to produce first LNG in the second half of 2015. Santos GLNG is a joint venture between Santos, PETRONAS, Total and KOGAS to supply liquefied natural gas to global markets.

Santos has also announced it will move forward with the potential \$6 billion sale of its GLNG gas pipeline in Queensland. Santos has not ruled out further asset sales, has frozen pay for employees and cut more than 500 jobs after the oil price collapse.

The move to sell the GLNG pipeline follows BG Group's successful \$US5 billion (\$6.4 billion) deal in December to sell a similar line to APA Group.

For further information on the potential sales click [here](#) or for more information on the GLNG Project click [here](#).

## Government update

## DEHP upgrades EA register

The Department of Environment and Heritage Protection (DEHP) has announced upgrades to its public register of environmental authorities (EAs) to include site-specific mining environmental authorities.

This is in addition to the petroleum and gas (including coal seam gas) environmental authorities that are already available through the register.

The Department said the upgrade will provide greater public access to information held by government agencies.

To use the register or for more information click [here](#).

## i Galilee Basin Update

Queensland Premier Anastacia Palaszczuk has announced a new agreement with Adani and GVK that will see dredge spoil dumped in land at T2, adjacent to the Abbot Point Coal Terminal within the Galilee Basin.

Once developed, the Galilee Basin, has the potential to become one of the biggest coal producing regions in Queensland. AgForce Projects encourages landholders in the area to remain aware of changes in industry as well as their rights and responsibilities. Landholders that would like AgForce Projects to hold a free information session in their region can submit an expression of interest [here](#).

For more information on the Galilee Basin click [here](#).

## Bioregional assessment release: Gloucester and Clarence-Moreton regions

The Federal Government has released a range of new products within the Bioregional Assessment Programme including:

1. **Water-dependent asset register and asset list for the Gloucester subregion**

The asset list provides all of the assets identified in the subregion that could potentially be affected by water-related impacts (such as changes in groundwater or surface water due to coal or coal seam gas development). Only the assets that have been assessed to be water dependent have been included. The impacts on water-dependent assets will be considered as part of the bioregional assessments.

2. **Submethodology: Compiling water-dependent assets**

This submethodology outlines the steps involved in creating the water-dependent asset register to ensure a consistent approach for these registers across the Bioregional Assessment Programme.

3. **Coal and coal seam gas resource assessment for Clarence Moreton bioregion**

This bioregion provides information on the spatial distribution of known coal resources, the extent of current coal and coal seam gas extraction, current exploration mining tenements, and proposed future developments. Proposed future developments are at various stages of exploration, pre-development and assessment, and remain subject to approval by relevant government agencies. The companion submethodology to this product *Developing a coal resource development pathway* has already been published and is available [here](#).

Further information on the bioregional assessments can be found [here](#).

## State Government approves New Acland Coal Mine expansion

The Queensland Government approved the New Acland Coal Mine expansion, valued at \$900 million in December last year.

The expansion is subject to 137 environmental conditions, with 26 of these focussed on potential groundwater impacts from the mine. These conditions include establishing 37 aquifer monitoring points across the mine site to monitor groundwater levels and water quality throughout the project.

New Acland Coal is also required to enter into Make Good agreements with potentially affected groundwater users and these agreements must be in place at least three years before any impact is predicted to occur.

Five aquifers are located beneath the site: Quaternary Alluvial, Tertiary Basalt, Walloon Coal Measures, Marburg Sandstone and Helidon Sandstone. A maximum drawdown of 47 metres from the Walloon Coal Measures is expected to occur and it was estimated that drawdowns from this aquifer could cover an area of 21 kilometres in diameter.

The expansion is still subject to approval from the Federal Government and was still to be assessed under the Regional Planning Interests Act.

Concerns have been raised about the disturbance footprint of the New Acland Coal Mine which will be 1466 hectares, 1361ha of which is classified as strategic cropping land.

The New Acland Coal Mine Stage 3 Project is being assessed by the Federal Department of the Environment, under the Environment Protection and Biodiversity Conservation Act 1999. A final decision by the Environment Department was due in early February 2015 but has yet to be announced.

If approval is granted, New Acland Coal will be required to submit a Regional Interests Development Application, a new step in the approval process. The company will also need to seek state government approval for a mining lease under the Mineral Resources Act 1989 and an Environmental Authority under the Environmental Protection Act 1994.

New Acland Coal is the proponent of the coal mine and a subsidiary of the New Hope Corporation.

More information on the New Acland Coal Mine can be found [here](#).

Any landholders with questions can contact the [CSG team](#).

## Research update

### UQ launches onshore gas research directory

The University of Queensland has launched a new online directory that tracks research into onshore natural gas development. The directory, developed by UQ's Centre for Coal Seam Gas (CCSG), compiles recent, current or planned projects in all areas of this growing industry including geology, water, coexistence, social and environmental impacts.

CCSG Director Professor Andrew Garnett said more than 400 research projects on coal seam and other unconventional gas developments are being conducted at more than 50 Australian institutions.

"The pace of development means that keeping track of research has been a challenge," Professor Garnett said.

"Research has been conducted by a range of organisations including universities, government agencies, resource companies and non-profit organisations.

"Until now it has been hard to determine how much research is being done on any particular topic, location or resource."

He said the directory would be a valuable tool for both researchers and the wider community.

"The directory makes it much easier for researchers to coordinate their efforts and maximise the value of their research," he said.

"It also provides community members with a single source to find up-to-date information on topics that they are interested in."

Professor Garnett said the directory focused on research done in Australia, but also included research from overseas that is relevant to the Australian context.

The directory can be found [here](#).

### Have your say on trust in the CSG Industry

The AgForce Projects CSG Project is supporting a UQ-led research study examining Stakeholder Trust in the Queensland Coal Seam Gas Industry.

The results of this survey will provide valuable insight on trust in the CSG companies and the overall industry as well as in government regulation of the sector. The results will identify priority areas and best-practice strategies for strengthening trustworthy conduct in the industry.

We encourage you to take the 15 minutes to complete the anonymous survey. To complete the survey please click [here](#).

If you have any questions about the research or your participation, please contact the Principal Investigator, Dr Nicole Gillespie ([email](#) or 0435 002 715) or Project Researcher, Dr Carol Bond ([email](#)).

*This study has been cleared by the human research ethics committee of the University of Queensland in accordance with the National Health and Medical Research Council's guidelines. If you would like to speak to an officer of the University not involved in the study, you may contact the Ethics Officer on 3365 3924.*

## Annual Surat UWIR Report released

The Office of Groundwater Impact Assessment (OGIA) has released its Annual Surat Underground Water Impact Report (UWIR) for 2014. The comprehensive report outlines the changes in the Immediately Affected Area (IAA) and Long Term Affected Area (LTAA) and also discusses developments in the regional monitoring network which is 90% complete.

The report has said that short-term predicted impacts will be smaller than first thought due to the commencement of some planned developments being delayed. Long-term predicted impacts remain unchanged, excepting for a slight contraction of the long-term impact footprint also due to the change in the timing of developments being later than previously modelled.

The full report includes updates specific to Santos/GLNG; Origin APLNG; QGC and Arrow Energy. The number of bores within the IAA were reduced from 85 to 70 in the last report. The number of constructed wells has increased from approximately 4100 to 6400 since December 2013.

OGIA said in the report that they are undertaking a number of technical research projects in conjunction with other organisations, which will be incorporated into a revised groundwater flow model to be used in UWIR's 2015 report. These projects include a revised geological model for the Surat and southern Bowen Basins and improved groundwater flow modelling.

Landholders should use the CSG Globe to identify their bore and [contact us](#) with questions about Make Good and baseline testing.

More information on these projects or to read the full report click [here](#).

## In other news...

## IESC recommends caution: Santos LNG expansion

The Independent Expert Scientific Committee has flagged concerns about the proposed Santos LNG expansion - highlighting a lack of information in project documents and says more work needs to be done on the proposal.

The proposed expansion covers 10,676 square kilometres and has an expected operational life of 30 years. The project is located near the towns of Injune, Miles, Rolleston, Roma, Surat, Taroom and Wandoan. Santos have proposed up to 6,100 wells to be installed - in addition to the 2,650 already approved.

"The scale, the early stage and the geographic extent of the proposed project development, together with other significant coal seam gas projects in the region, creates considerable scientific uncertainty about impacts on surface water and groundwater and associated ecosystems," the IESC report said.

According to the report, the potential impacts include:

- Reduced water supply to Groundwater Dependent Ecosystems, including Great Artesian Basin discharge, watercourse springs, endangered ecological communities and groundwater users.
- Cumulative impacts of Surat and Bowen basin activities, particularly coal seam gas and coal mining, on groundwater pressures and lag-time effects on water.
- Hydrological and ecological consequences of surface water discharge into the tributary gully, waterhole and Dawson River potentially impacting the surface water flow regime, geomorphology, water quality and instream biota.
- Changes to groundwater and surface water quality due to direct project activities and management of co-produced water.

The IESC report went on to say that it was concerned that some available data had not been incorporated into the documentation.

"IESC is concerned that relevant data and information from investigations and monitoring from the GLNG Project and Joint Industry Programmes have not been incorporated into the project assessment documentation."

The IESC also expressed concerns over the methodologies used for the proposal.

"Methods applied are appropriate to understand regional impacts, particularly cumulative water drawdown," the Committee said.

"However, the methods used are not sufficient for understanding local-scale impacts, particularly to ecological assets.

"Recognising the considerable information provided in the project assessment documentation, the IESC is concerned that relevant data and information from investigations and monitoring from the GLNG Project and Joint Industry Programmes have not been incorporated in the project assessment documentation for the GFD Project."

The IESC acknowledged that conditions placed on the existing project were not considered in its report.

This expansion request is currently being looked at by the Queensland Department of State Development, Infrastructure and Planning.

The full IESC Report can be found [here](#).

## Gases present in soil near Hopeland

The Department of Environment and Heritage Protection (EHP) has announced it is continuing testing in response to the presence of gases in soil below the surface at private properties in the vicinity of Hopeland.

Investigations began when routine soil testing on 9 February showed gases including carbon monoxide, hydrogen and hydrogen sulphide at depths between two and six metres.

EHP said the gases discovered are commonly those produced through combustion and are not gases associated with coal seam gas development. EHP also said the department has mobilised significant resources and will continue rapid sampling to determine the extent of these gases in the soil profile and the source or sources of these gases. At present 40-plus staff and specialist consultants are involved. Queensland Health has assessed the information from the preliminary tests and has determined that there are no health risks to landowners at this stage.

Information will be available on the EHP website, or provided directly to affected landholders where appropriate.

As the gases were found below the root zone in the soil, immediate impacts to grazing animals and stock are also considered very unlikely. AgForce has been advised by the department that tests continue to show air and water in the area remain safe.

Landholders within the identified [published investigation area](#) should contact EHP prior to excavation or any other activity which may occur two metres or deeper in the ground on their property.

AgForce Queensland is working with the government to ensure clear and timely information is provided to landholders.

## Report: Modelling water-related ecological responses to coal seam gas extraction and coal mining

The Federal Department of Environment has released a report into ecological conceptual modelling aimed at improving the assessment of water-related impacts of coal seam gas extraction and coal mining in Australia.

The report is aimed at assisting the preparation and review of environmental impact statements (EISs).

The Department said the application of the proposed approach is expected to:

- enhance capability in the resources industries to identify and predict the water-related impacts of coal seam gas extraction and coal mining, through uptake of the approach to ecological conceptual modelling and integration of the ecological modelling approach with hydrological and hydrogeological modelling and conceptualisation.
- improve identification and understanding of the potential water-related ecological responses to coal seam gas extraction and coal mining in Australia, achieved through assisting the IESC in its evaluation of EIS documentation for coal seam gas and coal mining proposals and provision of advice to regulators.
- provide a framework for ecological conceptual modelling that could be drawn upon in the bioregional assessments.

The full report can be found [here](#).

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Beyond Blue	1300 22 4636
Lifeline	13 11 14
CSG Globe	<a href="http://www.dnrm.qld.gov.au/mapping-data/queensland-globe/using-coal-seam-gas-globe">www.dnrm.qld.gov.au/mapping-data/queensland-globe/using-coal-seam-gas-globe</a>
DEHP Environmental Impact Statement (EIS) process	<a href="http://www.ehp.qld.gov.au/management/impact-assessment/eis-processes/index.html">www.ehp.qld.gov.au/management/impact-assessment/eis-processes/index.html</a>
DEHP Environmental Authority lists	<a href="http://www.ehp.qld.gov.au/management/env-authorities/index.php">www.ehp.qld.gov.au/management/env-authorities/index.php</a>
DEHP fact sheets	<a href="http://www.ehp.qld.gov.au/management/coal-seam-gas/index.html">www.ehp.qld.gov.au/management/coal-seam-gas/index.html</a>
DEHP Make Good Guideline	<a href="http://www.ehp.qld.gov.au/management/pdf/good-obligations-guide.pdf">www.ehp.qld.gov.au/management/pdf/good-obligations-guide.pdf</a>
DEHP Permit and Licensing Management Unit – Mining Environmental Authorities (EA)	<a href="http://www.ehp.qld.gov.au/land/mining/chapter-5-notifications.html">www.ehp.qld.gov.au/land/mining/chapter-5-notifications.html</a>
GasFields Commission Qld	(07) 4688 1327 <a href="http://www.gasfieldscommissionqld.org.au/gasfields">www.gasfieldscommissionqld.org.au/gasfields</a>
MinesOnlineMaps	<a href="https://minesonlinemaps.business.qld.gov.au/">https://minesonlinemaps.business.qld.gov.au/</a>
Mining Registrar contacts	<a href="http://mines.industry.qld.gov.au/mining/contacts.htm">http://mines.industry.qld.gov.au/mining/contacts.htm</a>
OGIA UWIR online bore database	<a href="http://www.dnrm.qld.gov.au/ogia/surat-underground-water-impact-report/bore-search">www.dnrm.qld.gov.au/ogia/surat-underground-water-impact-report/bore-search</a>
Petroleum and Gas Inspectorate	<a href="http://mines.industry.qld.gov.au/safety-and-health/petroleum-gas-safety.htm">http://mines.industry.qld.gov.au/safety-and-health/petroleum-gas-safety.htm</a>
Pollution reporting hotline	1300 130 372
<b>Industry</b>	
Australian Petroleum Production & Exploration Association (APPEA)	<a href="http://www.appea.com.au">www.appea.com.au</a>
Arrow Energy	<a href="http://www.arrowenergy.com.au">www.arrowenergy.com.au</a>
Origin	<a href="http://www.originenergy.com.au/1143/Coal-seam-gas">www.originenergy.com.au/1143/Coal-seam-gas</a>
QGC	<a href="http://www.qgc.com.au">www.qgc.com.au</a>
Santos	<a href="http://www.santos.com/coal-seam-gas.aspx">www.santos.com/coal-seam-gas.aspx</a>

For more information or to register or request a CSG workshop in your town visit:

[www.agforceprojects.org.au](http://www.agforceprojects.org.au)

The CSG Project Team is dedicated to helping you safeguard the future prosperity of your farming enterprise.

Contact the team today with any enquiries.



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