Arrow Energy

Contemporary Approach

New technology supporting weed management at a regional scale.

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13th September 2015

Who are we?

Vision

Be Australia’s most competitive and innovative onshore gas company.

Current statistics

- 21,000km² exploration acreage
- More than 200,000 external stakeholders
- Currently supplies almost 20 per cent of Queensland’s gas

Our Operations

• Arrow produces CSG from fields in:
  - Surat Basin in southern Queensland
  - Bowen Basin in central Queensland.
• Owns and operates one gas-fired power station and has off-take rights at two others
• Provides enough energy to power 800,000 average-sized Queensland homes.

Our Facilities

• Arrow Energy

Recent changes to Arrow’s Weed Management Framework have allowed:
  - a simplified process
  - focus on inspection and clean-down

Benefits include:
  - meeting legislative requirements and Arrow’s social license to operate
  - manage unnecessary waste
  - provide traceability
  - improved skills and awareness

Weed Management Framework

Identifying and Managing Risk

Managing weed seed spread from high risk weed sites
  - Risk based approach – identifying areas in the landscape with high risk weeds

Actions have included:
  - informing staff of weed risk status through the landholders Access Conditions
  - instigating an exemption for travelling on formed roads - in line with Biosecurity Qld guidelines
  - introduction of a vehicle hygiene log (Arrow’s weed hygiene declaration)
The work site will be risk assessed by an ecologist.

Sites will be ‘high risk’ when high risk weeds are present.

A site’s risk status will be identified in the landholder Access Conditions.

*An exemption applies when travelling on formed roads and hardstand construction areas.*

How the Exemption Works

![Sealed road](image1)
![Unsealed road / ROW](image2)
![Hardstand construction area](image3)

85% of Arrow vehicles travel on formed roads.

Managing weed seed spread from high risk weed sites:

- If travel remains on formed roads or in areas considered low risk, the activity is exempt.
- When travelling off formed roads in high risk areas, inspect and clean down if required and complete the Vehicle Hygiene Log (VHL).
- The VHL is completed between drivers.

Arrow’s Vehicle Hygiene Log

Vegetation has been removed.

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Challenge – Implementing System Change

- Large staff and contractor volume
- Large scale data storage and management
- Specific landholder requirements – differing from company procedures
- Diverse workforce – different cultures and backgrounds
- Changing an entrenched culture

Training – eLearning

Interactive online training package:

- Runs for 41:54 minutes, consists of 5 modules and assessment
- Includes an interactive inspection and clean down video
- The clean down video demonstrates a range of fit for purpose clean down techniques
- Aligned against AHCBIO0201A – Inspect and clean machinery for plant, animal and soil material
An 'App' (application) for smart phones and tablets:
- Electronic weed hygiene declaration
- Electronic signature
- Programmed drop downs
- Arrow’s petroleum lease areas
- Authority to prospect areas (ATP)
- Company vehicle identification data

Allows:
- all weed hygiene data collected to be stored in a central database
- access in the field
- data and reports to be printed or emailed.

Acknowledgements:
- Arrow weed working group members
- Mrs Kim Gillham and team from Visum@tion - eLearning
- Arrow – eForm

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