

Update of biogas and wastewater management operator guidelines and video-based training modules

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Project Description

Over the years AMPC has invested in the development of an extensive array of word-based extension and training resources for meat processing wastewater operators. The rise of engaging digital multi-media however has meant that these static, word-based resources may be at risk of becoming outmoded. As widespread accessibility to practical and up to date extension resources is important to AMPC and its member companies, the objective of this project was to:

- Update existing wastewater management and biogas extension manuals; and
- Transform these static manuals into engaging digital formats that could be readily digested by a wide audience.

This project was undertaken by The Ecoefficiency Group, Quest VFX and Johns Environmental on behalf of AMPC.

Project Content

The project consisted of the following segments:

- Formation of an industry based project advisory team to review content and host site visits for video production.
- Review and update of the manual - *'Wastewater Management in the Australian Red Meat Processing Industry'* (2012) and the *'Manual for Biogas Capture, Storage and Combustion at Abattoirs'* (2014).
- Production of eight videos on wastewater management and biogas capture and storage.
- Development of on-line training modules on wastewater treatment and biogas capture which incorporates the videos, a series of factsheets with operator checklists and quiz questions.

Project Outcomes

The guidelines and manuals were revised and consolidated into two word based documents:

- Wastewater Management in the Australian Red Meat Processing Industry (V2)
- Biogas Capture, Storage and Combustion Guidelines for Abattoirs (V2)

A series of eight 10minute videos based closely on the content in the manuals were produced:

- Reducing wastewater generation
- Upstream wastewater treatment
- Anaerobic ponds
- Aerobic ponds
- Biogas capture and delivery systems
- Nitrogen removal
- Safety guidelines for operators of biogas systems
- Design safety guidelines for CALs and related infrastructure

Eight factsheets that summarize key learnings from the videos and include operator checklists were developed to accompany the videos.

Two on-line training modules were created that integrated the videos and self-assessment quiz questions.

Benefit for Industry

The project would not have been possible without the following industry contributors. Their support has enabled a comprehensive insight into wastewater management by the industry.



Dinmore, Queensland



Cannon Hill, Queensland



Oakey, Queensland



Beenleigh, Queensland



Meramist, Queensland



Kilcoy, Queensland

The conversion of AMPC's static, word based documents on wastewater and biogas management into engaging multi-media formats will readily improve the usability of these resources. The online training modules will enable self-paced learning so that operators can access training material from any location. This eliminates difficulties in organising training venues and costly and disruptive face to face training courses.

Contact details

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