

R&D Snapshot

National PigGas Extension

Investigator: Ian Kruger, Ian Kruger Consulting

Purpose:

- Quantify individual piggery greenhouse gas (GHG) emissions, identify mitigation solutions and identify carbon credit opportunities using APL's PigGas Calculator.

Take home messages:

- 55 individual farm case studies completed covering 24% pig production.
- Baseline on-farm emissions intensities averaged 3.9kg CO₂/kg HSCW with an average reduction potential of 51% (range 0-84%) for all piggeries.
- Many piggeries had the potential to reduce feed wastage by 5% which will decrease GHGs by 10%.
- Modifying existing waste treatment and reuse systems has the potential for 15-25% GHG reductions. Conversion to deep litter systems can reduce GHG emissions by 40%.
- Maximum GHG emissions abatement of 75-84% was seen from conventional piggeries with covered anaerobic ponds or tank digesters with their emissions intensities falling on average from 4 to below 1kg CO₂/kg HSCW.

Additional information:

- 55 Individual PigGas case study reports are available to download from <http://australianpork.com.au/industry-focus/environment/greenhouse-gases/>
- Contact Janine Price for a copy of the final report at janine.price@australianpork.com.au or 02 6270 8827

APL Project 2013/027

