



Brascarbon biogas, Brazil

This project captures methane emissions at over 70 rural pig farms across southern and western Brazil and uses it to generate clean electricity.

Location



The project is active in four states in southern Brazil: Mato Grosso, Mato Grosso do Sul, Sao Paulo and Minas Gerais.

Project



The project aims to reduce agricultural emissions from pig farms. Animal waste that would otherwise have been left to evaporate in open lagoons, leading to massive methane emissions, is now used in clean energy production. The manure from the respective pig farms is collected in covered ponds and processed in biogas reactors, generating biogas for energy production on site and sludge that is used as fertiliser.

As a result, notable advances in promoting sustainable farming practices have been achieved across the region. The process generates enough electricity for most of the farms to be self-sufficient, which in turn saves fossil fuels from being burned.



In addition to the reduction of greenhouse gas emissions, the project boasts a significant improvement for local farming communities, with locals benefiting from (amongst other things) improved air and sanitation quality, and from new job opportunities.

Project achievements



Socio-economic impact:

- Multiple skilled job opportunities have been created, with the majority of workers being sourced from local communities (manufacturing, installation, operation and maintenance of equipment).
- The project has led to regional infrastructure improvement in direct alignment with the national goals and objectives for agriculture, livestock, rural development, fishing and nutrition.
- The elimination of odour in surrounding areas improves the quality of life of neighbouring communities.
- Access to renewable energy from former waste, clean water from wastewater treatment, and the generated organic fertiliser has helped many of the pig farms to become self-sufficient.
- Infrastructure improvement is in direct alignment with the national goals and objectives for agriculture, livestock, rural development, fishing and nutrition.

Environmental impact:

- Thanks to the use of treated wastewater for irrigation, natural fresh-water sources are being protected.
- Proper handling of animal waste ensures an adequate level of protection of human health and of the environment.
- The improvement in the quality of the water used in the waste management system makes it usable for irrigation, thus saving natural water resources.

Checklist Project 301 370



✓ Additionality and permanence:	according to the rules of the VCS
✓ 3 rd party verified:	by Icontec
✓ Transparency:	provided by the Markit Environmental Registry
✓ Annual CO ₂ reduction:	235,000 tCO ₂ e
✓ Social and environmental benefits:	as documented in our database
✓ Marketing material:	high resolution pictures available

For further information and to learn about availabilities please contact:

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