



Bahia State University



NEPPA
Animal Science Research
and Extension Center

The logo for the Renew Bahia Program, featuring a stylized sun with yellow rays and an orange arc, followed by the text "Program" in green, and "Renew Bahia" in a large, green, handwritten-style font.

Program
Renew Bahia

Renewable Energy in Agriculture



Research and Extension

Statewide Program.

The program started with a partnership with Bahia Agricultural Development Company Inc., Winrock International (non-profit organization) funded by the Brazilian National Council for Scientific and Technological and USAID to install and evaluate low-tech anaerobic digesters for small farmers.



With the positive technical, economic, environmental, and social results, Renew Bahia was forged to become a frame for public policies to use low-cost digesters to reduce wood utilization and energy exclusion, and promote social development in the rural areas.

Goals:

- Research and technology development
- Divulgate the digester for sustainable agriculture
- Promote technology development in this area
- Reduce wood consumption in rural areas
- Preserve vegetation
- Reduce energy exclusion
- Use the energy for domestic and production uses
- Use the biofertilizer to produce food to increase food security in low-income rural communities and generate extra-income
- Transform traditional products of small-holder farms into commercial longer shelf-life products adding value
- Stimulate associativity and cooperativity
- Organize events (meetings, seminars, workshops, expos)
- Prepare a hand-book and other publications for Ag professionals and producers
- Training extension agents and producers
- Work with public and private banks institutions in order to replicate the technology
- Replicate digester as economic and social development tool

Our team was pioneer in this area and responsible for developing the technology for using sheep and goat manure for low-tech digester to produce biogas and biofertilizer. The results speak for themselves. The comparison of neighbors, one without the digester and another one with the digester, proved the digester as a valuable tool for sustainable agriculture, hunger

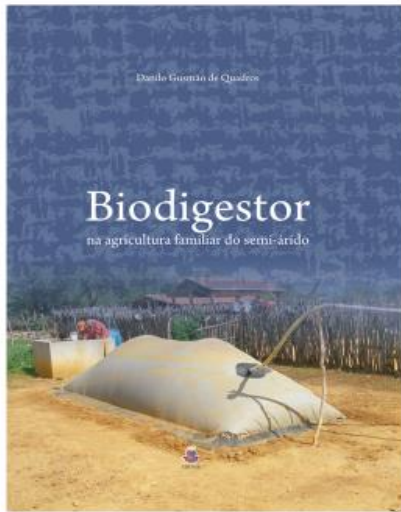
combat, energy generation and economic benefits. See the documentary “Anaerobic digester smallholder farms of Brazilian semiarid” for more details (subtitles in English):

https://www.youtube.com/watch?v=MCvHN2_S_4w



Many strategies were used to divulgate the technology. The success of Renew Bahia was much more than the initial expectations.





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Biodigestão anaeróbia de dejetos de caprinos e ovinos em reator contínuo de PVC flexível¹

Daniilo G. de Quadros¹, André de P. M. Oliver¹, Ueliton Regis², Renata Valladares², Pedro H. F. de Souza³ & Edson de J. Ferreira²



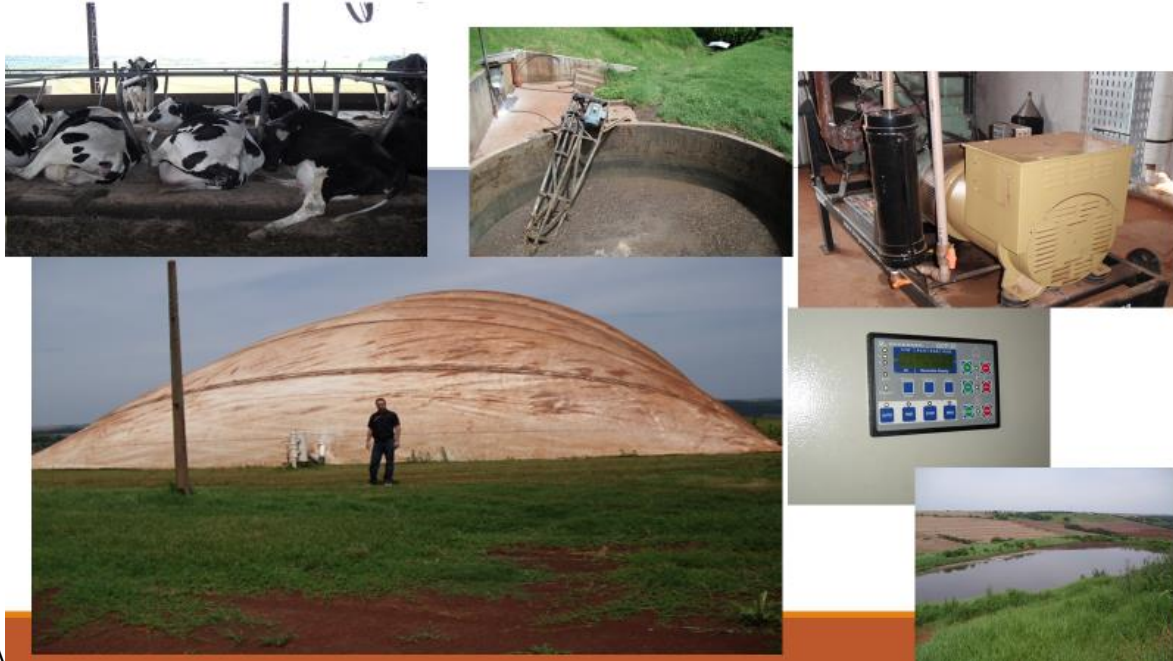
ANÁLISE ECONÔMICA DO BIODIGESTOR PARA APROVEITAMENTO DOS DEJETOS DA CAPRINOCULTURA NA AGRICULTURA FAMILIAR NORDESTINA¹

Daniilo Gusmão de Quadros², André de Paula Moniz Oliver², Ueliton Regis⁴ & Renata Valladares²

The huge repercussion attracted the attention of people and institutions from other States. Many projects were developed using Renew Bahia Program expertise all over the country.







Bioenergy area was expanded internationally with interactions with USA, Germany, Austria and UK institutions.





After many years working with biomass, Renew Bahia expanded to a mix of renewable energy sources (e.g. solar, wind, hydropower) and the Center of Renewable Energy in Agriculture (<https://www.facebook.com/cenerauneb/>) was created to amplify the research and extension in all renewables, mainly with the focus on agriculture and the benefits for rural communities.





Renew Bahia in the media

https://www.youtube.com/watch?v=APVD4G_rxlk

☰ **YouTube** Search

Bio-digestores - Entrevista TVE Cidadania (Rede Cultura)

<https://www.youtube.com/watch?v=lUnxnDS1QK0>



The image shows a YouTube video player interface. At the top, there is a search bar with the text 'Search' and the YouTube logo. Below the search bar is a video player showing a man in a light blue shirt speaking. The video title is 'ESTERCO DE BODE NO BIODIGESTOR - PRODUÇÃO DE BIOGÁS E BIOFERTILIZANTE'. The video has 21,693 views, 110 likes, and 5 dislikes. There are buttons for 'SHARE', 'SAVE', and a menu icon.

<https://www.youtube.com/watch?v=j0x2Gk9wIQI>



The image shows a YouTube video player interface. At the top, there is a search bar with the text 'Search' and the YouTube logo. Below the search bar is a video player showing a man in a light blue shirt speaking. The video title is 'Biodigestores - Energia Rural (Reportagem TVE-Rede Cultura)'. The video has 16,070 views, 16 likes, and 0 dislikes. There are buttons for 'SHARE', 'SAVE', and a menu icon.

<http://www.seagri.ba.gov.br/noticias/2006/12/18/biodigestor-elimina-dejetos-animais-e-produz-energia-no-semi-%C3%A1rido-baiano-tarde>

<https://webjornalunesp.wordpress.com/2014/09/19/biodigestores-transformando-residuos-em-algo-lucrativo-e-vantajoso/>

<https://docplayer.com.br/3948560-Manual-de-treinamento-em-biodigestao.html>

<http://www.bahia.ba.gov.br/2007/09/noticias/governo/energias-renovaveis-serao-discutidas-em-encontro-no-museu-de-ciencia-e-tecnologia/>