

BIOGAS BUSINESS MODEL





We realize the design, construction and operation of biodigesters to generate energy from agricultural organic waste.

We supply all the equipment and components to build the BIOGAS PLANT.

We design the financial architecture taht best fit the client´s needs.

We offer the leasing tool for acquisition of clean generation equipment.





ENERGETIC USE OF BIOMASS AND ORGANIC WASTE



The undervalued source...



WHAT IS BIOGÁS?

It is the product formed during the decomposition of organic matter in the absence of oxygen.

This decomposition, called anaerobic fermentation, is not a process created by man, but occurs spontaneously in nature itself and is part of the biological cycle of some animals.

They are the same microorganisms that degrade the organic matter which, when fed, generate the biogas.

WHERE DO WE OBTAIN BIOGÁS?

We can obtain BIOGAS from various organic sources, including;

- Pig manure.
- Effluents from dairy farms and feedlots.
- Effluents of slaughterhouses.
- Chicken bed and guano.
- Waste and effluents from the food industry.
- Fruit and vegetable waste.
- Waste pruning.
- Energy crops as sorghum, corn, barley, rye, etc.



HOW TO GENERATE BIOGAS?

All organic waste can be used in biodigesters for the production of biogas.

The biodigesters are hermetically sealed tanks that allow the loading of substrates and discharge of bio-fertilizer, and have a collection and storage system of biogas for their energy use.

Biogas is a renewable, non-fossil fuel with a high calorific value (depending on the content of methane gas).



BENEFITS OF BIOGÁS



- Electrical and thermal generation.
- Biogas supplies decentralized energy.
- Higher% conversion of biomass into energy with respect to other processes.
- biofertilizer production.

BUSINESS OPPORTUNITY FOR THE INDUSTRY

BIOGAS allows agroindustrial;

- Add value at origin.
- Diversify your business portfolio.
- Get cheap and safe energy.
- Market electric power.
- Market liquefied or compressed biomethane.
- Market CO₂.
- Market a biofertilizer.
- Degraded land recovery.





BIOGÁS SPIN-OFF

- Greenhouse gas reduction.
- improvement of sanitary conditions.
- Reduction of fossil fuel imports.
- Regional economies development.
- It provides decentralized energy generation.

BIOGAS ADVANTAGES VS OTHERS TECHNOLOGIES

- Higher profitability compared to other energy proposals.
- Plants that produce 24/7/ 365.
- Versatile projects that allow to market various products.
- Scalability makes it possible to develop small, medium or large plants without losing the profitability of the business.
- The investment per MWh generated is lower than that of other energies and is recovered before the 5th year.





OUR PROPOSAL

"TO ASSIST CLIENT IN THE
IMPLEMENTATION OF A BIOGAS PROJECT
TO BE SUCCESSFUL"



WHAT DOES OUR SERVICE CONSIST OF?

To guide our clients technically and professionally so that they can minimize the risk associated with the investment in biogas plants.

Biogas now offers the possibility of obtaining high profitability rates without the need to make large capital contributions. As long as the human, financial and technological resources are adequate.

MERCADOS RENOVABLES SRL can carry out environmental, risk and feasibility studies of the project; provide equipment and components; manage funds to finance the project, etc.



NUMBERS

-ESTIMATED INVESTMENT BY PROJECT
Since U\$S 1MM to U\$S 6MM

-PROJECT SIZE
From 250Kw to 2Mw of electric power

-IIR BY PROJECT
From 10 to 15% annual in U\$S

-RECOVERY PERIOD
From 5 to 9 years.





BUSINESS KEYS

1. To have a professional team with local presence, who has experience in the development and execution of all the stages required to implement a BIOGAS project.
2. Have the support and guarantee of an internationally certified technology provider.
3. Ensure the availability of organic substrate to be transformed into biogas.
4. To be guaranteed by long-term contract the collection of the commodities produced by the project.

EXAMPLE 1: SELL ENERGY IN RENOVAR U\$S160
PROJ: SLAUGHTERHOUSE 800 heads/day

Investment			net
Need for finan			u\$S 2.024.000
Income			net
Electr. output			u\$S 588.562
Estimated costs			net
Cost			u\$S 307.039
Profit per year			u\$S 281.523
Profit per month			u\$S 23.460
ROI			14%
Electrical power			500 KW

EXAMPLE 2: SELL ENERGY IN MATER U\$S63/Mwh
PROJECT: 175 Tn of guano per day.

Investment			net
Need for finan			u\$S 5.837.509
Income			net
Electr. output			u\$S 787.500
Biofertilizer			u\$S 120.000
Estimated costs			net
Cost			u\$S 368.147
Profit per year			u\$S 539.353
Profit per month			u\$S 44.946
ROI			9,24%
Electrical power			1.500 KW

OUR TASKS

1. Feasibility studies for the installation of an energy biodigester.
2. Characterization of substrates (biogas potential).
3. Elaboration of preliminary project for the installation of a biodigester.
4. Project Evaluation.
5. Detail engineering.
6. Building.
7. Operation.
8. Maintenance.
9. Environmental and energy integration in industrial parks and watersheds.



WAYS TO PARTICIPATE IN THE BUSINESS

A- HIRING OUR SERVICES IN TURNKEY MODE, BEING THE CUSTOMER OWNER OF THE PLANT.

B- HIRING OUR ENGINEERING SERVICES FOR THE REALIZATION OF THE PLANT AND OUR FUNDRAISING SERVICES FOR FINANCING SEARCH. THE CUSTOMER IS OWNER OF THE PLANT.

C- CONSTITUTE AN AGREEMENT FOR THE SUPPLY OF BIOMASS AND RENTAL OF PLACE IN ORDER FOR MERCADOS RENOVABLES SRL (MR), OR WHO THIS ONE DESIGNS, CAN BUILD A BIOGAS CENTRAL FOR THE ENERGETIC USE OF THE BIOMASSIC. IN THIS CASE MR OR WHO THIS ONE DESIGNS WILL BE OWNER OF THE PLANT.

D- HIRING OUR ENGINEERING SERVICES FOR THE REALIZATION OF THE PLANT AND OUR FUNDRAISING SERVICES FOR THE FINANCING, WHERE THE WARRANTY AGAINST THE DISBURSED FUNDS IS PRESENTED IN A SOLIDARITY FORM BETWEEN MR AND THE CLIENT. IN SUCH CASE, THE PLANT WILL BE OF SHARED PROPERTY BETWEEN MR IN A% TO BE AGREED.



THANKS