



SistemaBiobolsa® is a patented and high quality anaerobic digestion technology that was designed to meet the specific needs of small and medium size dairy and hog farms, as well as farms with other species, for which installing industrial biodigesters is not an option. Using the waste from a wide range of animals at the farm, Sistema Biobolsa® produces clean and renewable energy that can be adapted and used to produce thermal, mechanical or electric energy.

Benefits

The system requires little maintenance and has very low operating costs. It does not need any complex system of pumps, filtration and aeration. In addition, Sistema Biobolsa is compact and modular, and adapts easily to a wide range of sizes and slaughterhouses configurations.

The biogas can displace a large portion of the high expenses in energy and fuels (LP gas, electricity and gasoline). The organic fertilizer displaces chemical ones, improves the soil quality and increases the crops' yield. By providing wastewater treatment, small slaughterhouses do not risk fines for discharging waste and contaminating water. These economic benefits, combined with an affordable price of the system lead to a return on investment for the farmer of one to two years. With a lifespan of 20 years, **Sistema Biobolsa®** is an excellent investment option for small and medium size slaughterhouses.





- 💧 300-400 slaughters per week
- 💧 Treatment capacity: 120 m3
- 💧 Price of the biodigester: \$170,000.00 MXN
- 💧 Biogas use in productive operations of the slaughterhouse and for employees showers
- 💧 Compliance of sanitation and environmental laws through a good waste management system
- 💧 Additional revenue through the sale of organic fertilizer
- 💧 Approximate savings of MXN 500 per week by displacing fossil fuels

“ We are perceiving a benefit because we are saving the money we used to buy LP gas with. We are also capturing methane gas and giving it a productive utility, using it in the boiler to heat water for the internal processes of the slaughterhouses and the facilities. Now the employees can shower with hot water. Every week we save approximately MXN 500 (US\$30). ”

Mr. Juan Slaughterhouse in Morelos, Mexico

Temperate dairies 15°C to 22°C other temperate sites 15°C to 22°C					
Biobolsa Model	Solids treated per day (L)	Semi-confined (heads)	Daily biogas production (hours/day)*	Biogas production (kg propane/month)**	Biol production (ha./year)
BB20	127	13	10	61	18
BB25	145	14	12	69	20
BB30	177	18	14	85	25
BB40	242	24	19	116	34
BB50	289	29	23	138	41
BB60	354	35	28	169	50
BB80	484	48	39	232	68
BB120	725	73	58	348	102
BB160	967	97	77	464	135
BB200	1209	121	97	580	169