

## DAIRY AND HOG FARMS

Small and medium size production units



**Sistema Biobolsa®** 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.

**Sistema Biobolsa®** has been installed in dairy and hog farms in 24 states in Mexico and fourteen countries in Latin America, the Caribbean and Africa. Our modular and compact systems are available in a wide variety of sizes and configurations to satisfy the needs of all small and medium size farms, improving their productivity, efficiency and reducing contamination through the reduction of greenhouse gas emissions and water contamination.

**Sistema Biobolsa®** provides financing mechanisms, builds capacity and has a strong after-sales service program to ensure the successful implementation of anaerobic digestion projects. The biogas can displace a large portion of the high expenses in energy and fuels (LP gas, electricity and gasoline). It can be used as fuel to power motors and small pumps to transform dairy products, or as heating for maternity areas and piglets in hog farms. The organic fertilizer displaces chemical ones, improves the soil quality and increases the crops' yield. By providing wastewater treatment, medium-sized farmers do not risk fines for discharging waste in nature. These economic benefits, combined with an affordable price of the system provide 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 farms.



## Hog farm - Jalisco System model: BB80

- 🔹 Treatment capacity: 80m<sup>3</sup>
- 🔹 300 hogs
- 🔹 Organic fertilizer for corn field
- 🔹 Biogas to heat the maternity area and piglets
- 🔹 Reduction of organic charge in wastewater
- 🔹 Time of Return on Investment: 2-3 years



## Dairy farm - Chiapas System model: BB40

- 🔹 Treatment capacity: 80 m<sup>3</sup>
- 🔹 50 dairy cows
- 🔹 Organic fertilizer for forage fields
- 🔹 Biogas to power an electric generator of 5,500 watts
- 🔹 Time of Return on Investment: 2 years



“ When we found out about Biobolsa we had this vision, we knew it was more profitable to equip our farm with biodigesters because the biogas would make us more productive and we would save the money we used to buy gas with. It was not a mistake! ”

Farmer - Rancho los Pinos  
Villa del Carbón, Mexico

TEMPERATE DAIRIES (15°C to 23°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	139	41
BB60	354	35	28	170	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