

Electricity from Biogas Pig & Chicken Manure

C TRADE Philippines, Inc. specializes in turnkey development of biogas-to-energy facilities for animal farm owners under a joint venture agreement, providing up to 90% of the financing. **C TRADE** finances, designs, constructs, and operates the waste management systems consisting of anaerobic digesters, gas collection systems, sludge separators and electric power generators. The waste water treatment system comply with the ECC requirements and provide recycled water, produce fertilizer for sale, and discounted electric power for farm use.

Joint Venture (JV) Agreement

C TRADE and the farm owner enter into a Joint Venture Agreement and share revenues generated from the sale of electricity, fertilizer and carbon credits called Certified Emission Reductions (CER).

Listed below are the steps involved in the project development.






Phase 1: Farm Owner signs a Joint Venture Agreement with C TRADE. **C TRADE** will secure information on the farm and start developing the design of the biogas digester for the SOW level of the farm. The Farm owner will ensure that the farm has all local operating permits. A local stake holder meeting is held with farm neighbors & local government officials to detail the proposed project.

Phase 2: C TRADE will Finance and Construct Biogas Digester followed by start-up and monitor of gas production, train local operators, and design power generating system.

Phase 3. Power Generating System is specified and procured based on the amount of gas production. Farm pays for electricity used at 10% below current price which is used to pay for cost of construction.

Phase 4. Sludge Dewatering and Fertilizer System is Designed and Installed. Sludge from the bottom of the digester tanks are fed to a sludge collection system for dewatering. The dried sludge from the sludge tank is removed for fertilizer production. Cleaned water is reused in farm operations thus eliminating any waste water discharge.

C TRADE has experience with the completion of five biogas-to-energy projects in Cebu and Batangas, Philippines.

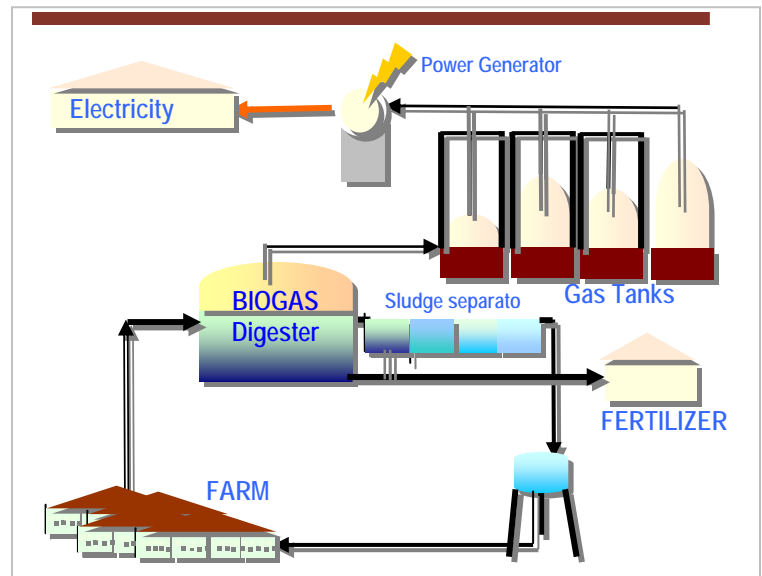
C TRADE Project	Pig Farm	Location
	6000 pigs + 800,000 chicken	Welissa Farms Pigs + Chicken dung Bantayan, Cebu
	4000 pigs	Welissa Farms Tayud, Cebu
	8,000 pigs	Bapbi Farms, Matas na Kahoy Batangas
	8,000 pigs	Dodram Farms, Rosario, Batangas
	3,000 pigs	P.S. Farms, Lipa City, Batangas

What are the benefits to Farm Owner?

C TRADE Philippines, Inc. specializes in turnkey development of biogas-to-energy projects for animal farm owners interested in the following benefits:

- eliminate odor, and ground water pollution
- turnkey design, build & operate a wastewater treatment system
- provide 90% of financing in a joint venture agreement
- facilitates compliance with ECC Permits
- revenue from fertilizer sales
- revenue from carbon credits
- revenue from electricity and an additional 10% discount
- provides recycled water for flushing and cleaning of farm
- reduces farm water and electric consumption by 50%

**A zero discharge waste management facility that
recycles water, produces fertilizer and electricity**



Contact Information:

Interested Farm Owners may contact CTRADE at:

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