

Table S1. Characterization of samples of hen droppings (HD) and goat cheese whey (GCW) used in the biochemical methane potential and semi-continuous assays

	HD			GCW	
	Sample 1	Sample 2	Sample 3	Sample 1	Sample 2
pH	7.19	-	-	4.43	5.05
TS (%)	38.6±2.1	24.2±0.4	29.0±0.1	8.1±0.1	7.9±0.1
VS (%TS)	74.3±1.4	71.2±1.9	65.4±0.2	78.0±0.1	92.7±0.1
C (%)	36.12	-	-	45.95	-
H (%)	4.65	-	-	7.26	-
N (%)	5.03	-	-	2.13	-
S (%)	0.00	-	-	0.00	-
C/N ratio	7.18	-	-	21.6	-

TS= total solids; VS = volatile solids

Table S2. Economic feasibility of the processing plant proposed in this study.

	Case 1	Case 2
Investment costs	5000 € kWe ⁻¹ (150,000 €)	9000 € kWe ⁻¹ (270,000 €)
Subsidies	45 % IC 67,500 €	45 % IC 121,500 €
O&M costs	5% IC	5% IC
Incomes	Electricity Self-consumption: 49,954 kWh year ⁻¹ @ 0.16367 € kWh ⁻¹ Selling: 204,657.2 kWh year ⁻¹ @ 0.05729 € kWh ⁻¹	
Discount rate	6%	6%
Lifespan	20 years	20 years
NPV (€)	56,355.01	-5,909.14
IRR (%)	13.92	5.48

O&M = operation and maintenance; NPV = net present value; IRR = internal rate of return.
IC = investment costs.