

SEWAGE SLUDGE VALORIZATION TREATMENT

COMPARISON BETWEEN THE CURRENT SITUATION AND
THE SYSTEM OF THE PATENT P2021300006 www.lodosdepuradora.es

PATENT PROPOSAL					
CONCEPTS	Advantages		Disadvantages		
	Description	Val.	Description	Val.	Sum
Collection at wastewater	Storage in closed closed containers	10	-	0	10
Sludge storage tanks	Without tanks	10	-	0	10
Sludge storage tanks	Without tanks	10	-	0	10
Sludge storage tanks	Without tanks	10	-	0	10
Sludge storage tanks	Without tanks	10	-	0	10
Reacciones de biometanización	Without tanks	10	-	0	10
Gas scrubbing	-	0	-	0	0
Gas scrubbing	-	0	-	0	0
Methane gas (CH ₄) recovery	-	0	-	0	0
Solid digestate	-	0	-	0	0
Solid digestate	-	0	-	0	0
Solid digestate	-	0	-	0	0
Solid digestate	-	0	-	0	0
Solid digestate	-	0	-	0	0
Sludge drying process	Humidity decrease by drying	30	Renewable electricity consumption	5	25
Sludge drying process	Zero emission of gases and odors	20	Renewable electricity consumption	2	18
Sludge drying process	Evaporated water recovery	20	Renewable electricity consumption	10	10
Sludge sterilization process	Obtaining dried and sterilized sludge	30	Renewable electricity consumption	5	25
Pelletized conditioning as fertilizer	Obtaining sterilized and pelletized fertilizers	15	Renewable electricity consumption	5	10
TOTALS		175		27	148

EVALUATION RESULTS

advantages-disadvantages 148