

ANEXO 1. Tabla ACB , Biodegradabilidad y Compostabilidad. Alternativa 1. No regular

INPUTS												
CREC. POBLACIONAL	0.035		Dane									
IPC	4%		Dane									
precio ton compost	\$ 200.000		Promedio varias fuentes									
TRM promedio 2024	\$ 4.000		Banrep									
Toneladas al año DE PLASTICOS	1.400,000	1.449,000	1.499,715	1.552,205	1.606,532	1.662,761	1.720,957	1.781,191	1.843,533	1.908,056	1.974,838	
TONELADAS AL AÑO PUSU (0.56%)	784,000	811,440	839,840	869,235	899,658	931,146	963,736	997,467	1,032,378	1,068,512	1,105,909	
% RECICLAJE	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	
tonladas RECICLADAS al año	235,200	243,432	251,952	260,770	269,897	279,344	289,121	299,240	309,713	320,553	331,773	
PUSU (PRIMER PAQUETE) 4%	31,360	32,458	33,594	34,769	35,986	37,246	38,549	39,899	41,295	42,740	44,236	
No regular	AÑOS											
BENEFICIOS	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	VPN
BENEFICIOS POR NO REGULAR (AHORRO EN COSTOS)	\$ 75,264,000,000	\$ 77,898,240,000	\$ 80,624,678,400	\$ 83,446,542,144	\$ 86,367,171,119	\$ 89,390,022,108	\$ 92,518,672,882	\$ 95,756,826,433	\$ 99,108,315,358	\$ 102,577,106,396	\$ 106,167,305,119	\$ 609,432,638,168.5
TOTAL BENEFICIOS	\$ 75,264,000,000	\$ 77,898,240,000	\$ 80,624,678,400	\$ 83,446,542,144	\$ 86,367,171,119	\$ 89,390,022,108	\$ 92,518,672,882	\$ 95,756,826,433	\$ 99,108,315,358	\$ 102,577,106,396	\$ 106,167,305,119	\$ 609,432,638,168.5

COSTOS												
Costos por entrada de toneladas de plásticos al oceano	\$ 162,421,079,296	\$ 168,105,817,071	\$ 173,889,520,669	\$ 180,079,153,892	\$ 186,381,924,278	\$ 192,905,291,628	\$ 199,656,976,835	\$ 206,644,971,024	\$ 213,877,545,010	\$ 221,363,259,086	\$ 229,110,973,154	\$ 1,315,166,704,527.2
Emissiones de GEI	\$ 2,750,792,576	\$ 2,847,070,316	\$ 2,946,717,777	\$ 3,049,852,899	\$ 3,156,597,751	\$ 3,267,078,672	\$ 3,381,426,426	\$ 3,499,776,351	\$ 3,622,268,523	\$ 3,749,047,921	\$ 3,880,264,598	\$ 22,273,899,562.2
No incentivos en la tarifa	\$ 4,626,164,480	\$ 4,788,080,237	\$ 4,955,663,045	\$ 5,129,111,252	\$ 5,308,630,145	\$ 5,494,432,201	\$ 5,686,737,328	\$ 5,885,773,134	\$ 6,091,775,194	\$ 6,304,987,326	\$ 6,526,661,882	\$ 37,459,284,965.6
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
OTROS COSTOS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL COSTOS	\$ 169,798,036,352	\$ 175,740,967,624	\$ 181,891,901,491	\$ 188,258,118,043	\$ 194,847,152,175	\$ 201,666,802,501	\$ 208,725,140,589	\$ 216,030,520,509	\$ 223,591,588,727	\$ 231,417,294,332	\$ 239,516,899,634	\$ 1,374,899,889,054.9

\$ 0.443

BENEFICIOS	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	VPN
REDUCCION DE LA CONTAMINACIÓN AL MAR	\$ 75,264	\$ 77,898	\$ 80,625	\$ 83,447	\$ 86,367	\$ 89,390	\$ 92,519	\$ 95,757	\$ 99,108	\$ 102,577	\$ 106,167	\$ 609,432.6
MENORES EMISIONES GEI	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
REDUCCION DE LA TARIFA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
OTROS BENEFICIOS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL BENEFICIOS	\$ 75,264	\$ 77,898	\$ 80,625	\$ 83,447	\$ 86,367	\$ 89,390	\$ 92,519	\$ 95,757	\$ 99,108	\$ 102,577	\$ 106,167	\$ 609,432.6
VPN BENEFICIOS												
COSTOS												
costos por entrada de toneladas de plasticos al oceano	\$ 162,421	\$ 168,106	\$ 173,990	\$ 180,079	\$ 186,382	\$ 192,905	\$ 199,657	\$ 206,645	\$ 213,878	\$ 221,363	\$ 229,111	\$ 1,315,166.7
Emissiones de GEI	\$ 2,751	\$ 2,847	\$ 2,947	\$ 3,050	\$ 3,157	\$ 3,267	\$ 3,381	\$ 3,500	\$ 3,622	\$ 3,749	\$ 3,880	\$ 22,273.9
No incentivos en la tarifa	\$ 4,626	\$ 4,788	\$ 4,956	\$ 5,129	\$ 5,309	\$ 5,494	\$ 5,687	\$ 5,886	\$ 6,092	\$ 6,305	\$ 6,526	\$ 37,459.3
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
OTROS COSTOS												
TOTAL COSTOS	\$ 169,798	\$ 175,741	\$ 181,892	\$ 188,258	\$ 194,847	\$ 201,667	\$ 208,725	\$ 216,031	\$ 223,592	\$ 231,417	\$ 239,517	\$ 1,374,899.9
VPN COSTOS												

RBC \$ 0.443

COSTO por entrada de toneladas de plasticos al oceano	\$ 1,315,166.7
COSTO no incentivos en la tarifa	\$ 37,459.3
COSTO Emisiones de GEI	\$ 22,273.9
BENEFICIOS	\$ 609,432.6
COSTOS	1374899.889
BENEFICIOS	\$ 609,432.6

INPUTS		
CREC. POBLACIONAL	0.035	Dane
IPC	4%	Dane
precio ton compost	\$ 200,000	Promedio varias fuentes
TRM promedio 2024	\$ 4,000	Banrep

[illegible]

RBC	\$ 0.288
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ANEXO 3. Tabla ACB.
Biodegradabilidad y Compostabilidad.
Alternativa 3. Regular

INPUTS		
CREC. POBLACIONAL	0.035	Dane
IPC	4%	Dane
precio ton compost	\$ 200,000	Promedio varias fuentes
TRM promedio 2024	\$ 4,000	Banrep

tonladas al año DE PLASTICOS	1,400,000	1,449,000	1,499,715	1,552,205	1,606,532	1,662,761	1,720,957	1,781,191	1,843,533	1,908,056	1,974,838
TONELADAS AL AÑO PUSU (0.56%)	784,000	811,440	839,840	869,235	899,658	931,146	963,736	997,467	1,032,378	1,068,512	1,105,909
% RECICLAJE	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
tonladas RECICLADAS al año	235,200	243,432	251,952	260,770	269,897	279,344	289,121	299,240	309,713	320,553	331,773
PUSU (PRIMER PAQUETE) 4%	31,360	32,458	33,594	34,769	35,986	37,246	38,549	39,899	41,295	42,740	44,236
PUSU (SEGUNDO PAQUETE)								119,696	123,885	128,221	132,709
TOTAL PUSU (PRIMER Y SEGUNDO)	31,360	32,458	33,594	34,769	35,986	37,246	38,549	159,595	165,181	170,962	176,946

BENEFICIOS	AÑOS											VPN
	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	
BENEFICIOS por no entrada de toneladas de plasticos al oceano	\$ 162,421,079.296	#####	#####	\$ 180,079,153.892	#####	#####	#####	\$ 206,644,971.024	\$ 213,877,545.010	\$ 221,363,259.086	\$ 229,110,973.154	\$ 1,315,166,704.527.17
Valorización de residuos	\$ 1,881,600.000	\$ 1,947,456.000	\$ 2,015,616.960	\$ 2,086,163.554	\$ 2,159,179.278	\$ 2,234,750.553	\$ 2,312,966.822	\$ 2,393,920.661	\$ 2,477,707.884	\$ 2,564,427.660	\$ 2,654,182.628	\$ 15,235,815.954.21
Emisiones de GEI	\$ 1,456,301.952	\$ 1,507,272.520	\$ 1,560,027.059	\$ 1,614,628.006	\$ 1,671,139.986	\$ 1,729,629.885	\$ 1,790,166.931	\$ 1,852,822.774	\$ 1,917,671.571	\$ 1,984,790.076	\$ 2,054,257.729	\$ 11,792,064,474.08
no incentivos en la tarifa	\$ 4,626,164.480	\$ 4,788,080.237	\$ 4,955,663.045	\$ 5,129,111.252	\$ 5,308,630.145	\$ 5,494,432.201	\$ 5,686,737.328	\$ 5,885,773.134	\$ 6,091,775.194	\$ 6,304,987.326	\$ 6,525,661.882	\$ 37,459,284,965.56
TOTAL BENEFICIOS	\$ 170,385,145.728	#####	#####	\$ 188,909,056.703	#####	#####	#####	\$ 216,777,487.593	\$ 224,364,699.659	\$ 232,217,464.147	\$ 240,345,075.392	\$ 1,379,653,869.921.0

COSTOS												
cotos de produccion incrementales	\$ 75,264,000.000	\$ 77,898,240.000	\$ 80,624,678.400	\$ 83,446,542.144	\$ 86,367,171.119	\$ 89,390,022.108	\$ 92,518,672.882	\$ 95,756,826.433	\$ 99,108,315.358	\$ 102,577,106.396	\$ 106,167,305.119	\$ 609,432,638,168.48
Costos de Vigilancia	\$ 302,000.000	\$ 314,080.000	\$ 326,643.200	\$ 339,708.928	\$ 353,297.285	\$ 367,429.177	\$ 382,126.344	\$ 397,411.397	\$ 413,307.853	\$ 429,840.167	\$ 447,033.774	\$ 2,499,637,910.48
Costos de certificación	\$ 16,000,000.000	\$ 16,640,000.000	\$ 17,305,600.000	\$ 17,997,824.000	\$ 18,717,736.960	\$ 19,466,446.438	\$ 20,245,104.296	\$ 21,054,908.468	\$ 21,897,104.806	\$ 22,772,988.999	\$ 23,683,908.559	\$ 132,431,147,575.20
Costos de Etiquetado	\$ 2,508,800.000	\$ 2,596,608.000	\$ 2,687,489.280	\$ 2,781,551.405	\$ 2,878,905.704	\$ 2,979,667.404	\$ 3,083,955.763	\$ 3,191,894.214	\$ 3,303,610.512	\$ 3,419,236.880	\$ 3,538,910.171	\$ 20,314,421,272.28
Infraestructura para la gestion de residuos	\$ 21,638,400.000	\$ 22,395,744.000	\$ 23,179,595.040	\$ 23,990,880.866	\$ 24,830,561.697	\$ 25,699,631.356	\$ 26,599,118.454	\$ 27,530,087.599	\$ 28,493,640.665	\$ 29,490,918.089	\$ 30,523,100.222	\$ 175,211,883,473.44
Inversion en maquinaria (reconversion)	\$ 21,856,000.000	\$ 22,730,240.000	\$ 23,639,449.600	\$ 24,568,428.687	\$ 25,591,165.835	\$ 27,654,812.468	\$ 43,766,400.000	\$ 87,532,800.000	\$ 87,532,800.000	\$ 87,532,800.000	\$ 87,532,800.000	\$ 263,814,633,717.48
Inversion en Investigacion y desarrollo	\$ 10,000,000.000	\$ 10,400,000.000	\$ 10,816,000.000	\$ 11,248,640.000	\$ 11,698,585.600	\$ 12,166,529.024	\$ 12,653,190.185	\$ 13,159,317.792	\$ 13,685,690.504	\$ 14,233,118.124	\$ 14,802,442.849	\$ 82,769,467,234.50
OTROS COSTOS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
TOTAL COSTOS	\$ 147,569,200.000	#####	#####	\$ 164,390,174.927	#####	#####	#####	\$ 204,856,845.904	\$ 254,434,469.699	\$ 260,456,008.654	\$ 266,695,500.694	\$ 1,286,473,829,351.9

													\$ 1.072
BENEFICIOS	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033		
BENEFICIOS por no entrada de toneladas de plasticos al oceano	\$ 162,421	\$ 168,106	\$ 173,990	\$ 180,079	\$ 186,382	\$ 192,905	\$ 199,657	\$ 206,645	\$ 213,878	\$ 221,363	\$ 229,111	\$ 1,315,166.70	
Valorización de residuos	\$ 1,882	\$ 1,947	\$ 2,016	\$ 2,086	\$ 2,159	\$ 2,235	\$ 2,313	\$ 2,394	\$ 2,478	\$ 2,564	\$ 2,654	\$ 15,235.82	
Emisiones de GEI	\$ 1,456	\$ 1,507	\$ 1,560	\$ 1,615	\$ 1,671	\$ 1,730	\$ 1,790	\$ 1,853	\$ 1,918	\$ 1,985	\$ 2,054	\$ 11,792.06	
no incentivos en la tarifa	\$ 4,626	\$ 4,788	\$ 4,956	\$ 5,129	\$ 5,309	\$ 5,494	\$ 5,687	\$ 5,886	\$ 6,092	\$ 6,305	\$ 6,526	\$ 37,459.28	
TOTAL BENEFICIOS	\$ 170,385	\$ 176,349	\$ 182,521	\$ 188,909	\$ 195,521	\$ 202,364	\$ 209,447	\$ 216,777	\$ 224,365	\$ 232,217	\$ 240,345	\$ 1,379,653.87	VPN BENEFICIOS
COSTOS													
cotos de produccion incrementales	\$ 75,264	\$ 77,898	\$ 80,625	\$ 83,447	\$ 86,367	\$ 89,390	\$ 92,519	\$ 95,757	\$ 99,108	\$ 102,577	\$ 106,167	\$ 609,432.64	
COSTOS DE VIGILANCIA (GOBIERNO)	\$ 302	\$ 314	\$ 327	\$ 340	\$ 353	\$ 367	\$ 382	\$ 397	\$ 413	\$ 430	\$ 447	\$ 2,499.64	
COSTOS DE CERTIFICACIÓN	\$ 16,000	\$ 16,640	\$ 17,306	\$ 17,998	\$ 18,718	\$ 19,466	\$ 20,245	\$ 21,055	\$ 21,897	\$ 22,773	\$ 23,684	\$ 132,431.15	
Costos de Etiquetado	\$ 2,509	\$ 2,597	\$ 2,687	\$ 2,782	\$ 2,879	\$ 2,980	\$ 3,084	\$ 3,192	\$ 3,304	\$ 3,419	\$ 3,539	\$ 20,314.42	
Infraestructura para la gestion de residuos	\$ 21,638	\$ 22,396	\$ 23,180	\$ 23,991	\$ 24,831	\$ 25,700	\$ 26,599	\$ 27,530	\$ 28,494	\$ 29,491	\$ 30,523	\$ 175,211.88	
Inversion en maquinaria (reconversion)	\$ 21,856	\$ 22,730	\$ 23,639	\$ 24,585	\$ 25,568	\$ 26,591	\$ 27,655	\$ 43,766	\$ 87,533	\$ 87,533	\$ 87,533	\$ 263,814.63	
Inversion en Investigacion y desarrollo	\$ 10,000	\$ 10,400	\$ 10,816	\$ 11,249	\$ 11,699	\$ 12,167	\$ 12,653	\$ 13,159	\$ 13,686	\$ 14,233	\$ 14,802	\$ 82,769.47	
OTROS COSTOS													
TOTAL COSTOS	\$ 147,569	\$ 152,975	\$ 158,579	\$ 164,390	\$ 170,415	\$ 176,661	\$ 183,137	\$ 204,857	\$ 254,434	\$ 260,456	\$ 266,696	\$ 1,286,473.83	VPN COSTOS

VPN BENEFICIOS

VPN COSTOS

RBC \$ 1.072