

SPV CER summary

	Capacity	
No	0	
No	0	
Kwantas Mewah	Yes	79
No	0	
No	0	
No	0	
No	0	
No	0	
No	0	
No	0	
SPV in total	1	79

	2008	2009	2010	2011	2012	Total (08-12)	2013	2014	2015	2016	2017	2018	Total (08-17)
POME CERs	0	31,593	31,593	31,593	31,593	126,370	31,593	31,593	31,593	31,593	31,593	31,593	315,926
EFB CERs	0	18,122	33,412	46,311	57,193	155,037	66,374	74,120	80,655	86,168	90,819	94,743	647,916
Project emissions	(0)	(622)	(622)	(622)	(622)	(2,488)	(622)	(622)	(622)	(622)	(622)	(622)	(6,219)
Total CERs	0	49,093	64,382	77,281	88,164	278,920	97,345	105,091	111,625	117,139	121,790	125,714	957,623
Mills operational	0	1	1	1	1								
EFBs processed (ton)	0	92,000	92,000	92,000	92,000								
Utilization %	100%	100%	100%	100%	100%		100%	100%	100%	100%	100%	100%	

Non-plant specific metrics

Methane density kg	0.68
Methane potential	21
Phi: Model correct	0.9
t CH4/tCOD	0.21

Landfill methane production potential of EFB

INPUTS

Waste Composition
 EFB waste usage % of waste

Waste Degradability
 DOCj used for calculation of CH4 emissions
 DOCf (Fraction of DOC that degrades)
 Year 1 Year 2 Year 3&more

Methane Correction Factor (MCF)
 Managed landfill Fraction 1
 Unmanaged (> 5 M deep) Fraction 0.8
 Unmanaged (< 5 M deep) Fraction 0.4
 Uncategorized SWDs Fraction 0.6
 MCF used for CH4 calculation Year 1 Year 2 Year 3&more

Degradation Profile in Landfill
 Decay Constant (K)
 K: Decay Constant for EFB 1/year
 Methane potential
 Methane Potential for EFB (L0-food) Ton CH4/Ton Waste Year 1 Year 2 Year 3&more
 m3 CH4/Ton waste 98.04 98.04 98.04
 Density of Methane (1.013 bar / 15 °C) kg/m3 0.68

Landfill Gas Characteristics
 F: Fraction of methane in Landfill gas

		Methane Emission (M3/Year) for different years												
		Annual Deposition	Year No. 1	2	3	4	5	6	7	8	9	10	11	12
		Year	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
		Tons/Year	0	92,000	92,000	92,000	92,000	92,000	92,000	92,000	92,000	92,000	92,000	92,000
Year No.	Year	CH4 (M3/Year)	CH4 (M3/Year)	CH4 (M3/Year)	CH4 (M3/Year)	CH4 (M3/Year)	CH4 (M3/Year)	CH4 (M3/Year)	CH4 (M3/Year)	CH4 (M3/Year)	CH4 (M3/Year)	CH4 (M3/Year)	CH4 (M3/Year)	CH4 (M3/Year)
1	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
2	2009	92,000	1,410,082	0	1410082	0	0	0	0	0	0	0	0	0
3	2010	92,000	2,599,719	0	1189637	1410082	0	0	0	0	0	0	0	0
4	2011	92,000	3,603,373	0	1003655	1189637	1410082	0	0	0	0	0	0	0
5	2012	92,000	4,450,121	0	846748	1003655	1189637	1410082	0	0	0	0	0	0
6	2013	92,000	5,164,493	0	714372	846748	1003655	1189637	1410082	0	0	0	0	0
7	2014	92,000	5,767,183	0	602690	714372	846748	1003655	1189637	1410082	0	0	0	0
8	2015	92,000	6,275,651	0	508468	602690	714372	846748	1003655	1189637	1410082	0	0	0
9	2016	92,000	6,704,826	0	428977	508468	602690	714372	846748	1003655	1189637	1410082	0	0
10	2017	92,000	7,066,541	0	361913	428977	508468	602690	714372	846748	1003655	1189637	1410082	0
11	2018	92,000	7,371,874	0	305333	361913	428977	508468	602690	714372	846748	1003655	1189637	1410082
12	2019	92,000	7,629,473	0	257599	305333	361913	428977	508468	602690	714372	846748	1003655	1189637
13	2020	92,000	7,846,800	0	217327	257599	305333	361913	428977	508468	602690	714372	846748	1003655
14	2021	92,000	8,030,151	0	183351	217327	257599	305333	361913	428977	508468	602690	714372	846748
15	2022	92,000	8,184,838	0	154687	183351	217327	257599	305333	361913	428977	508468	602690	714372
16	2023	92,000	8,315,342	0	130504	154687	183351	217327	257599	305333	361913	428977	508468	602690
17	2024	92,000	8,425,443	0	110102	130504	154687	183351	217327	257599	305333	361913	428977	508468
18	2025	92,000	8,518,332	0	92889	110102	130504	154687	183351	217327	257599	305333	361913	428977
19	2026	92,000	8,596,699	0	78367	92889	110102	130504	154687	183351	217327	257599	305333	361913
20	2027	92,000	8,662,815	0	66115	78367	92889	110102	130504	154687	183351	217327	257599	305333
21	2028	92,000	8,718,594	0	55779	66115	78367	92889	110102	130504	154687	183351	217327	257599
22	2029	92,000	8,765,653	0	47059	55779	66115	78367	92889	110102	130504	154687	183351	217327
23	2030	92,000	8,805,355	0	39702	47059	55779	66115	78367	92889	110102	130504	154687	183351
24	2031	92,000	8,838,850	0	33495	39702	47059	55779	66115	78367	92889	110102	130504	154687
25	2032	92,000	8,867,109	0	28259	33495	39702	47059	55779	66115	78367	92889	110102	130504