

EX3//calculate the emission of Methane from solid waste in a region their population (9870000) , production of waste per day equal to 0.5 kg / person. Day , Fraction of MSW disposed to landfill 0.8, Methane correction factor=0.74 ,Fraction of Carbon releases as Methane=0.5 , DOC=0.21 , DOCf=0.77, Recovered Methane perYear=0.

	A	B	C	D	E
	Population whose Waste goes to SWDSs (Urban or Total) (persons)	MSW Generation Rate (kg/capita/day)	Annual Amount of MSW Generated (Gg MSW)	Fraction of MSW Disposed to SWDSs (Urban or Total)	Total Annual MSW Disposed to SWDSs (Gg MSW)
			$C = (A \times B \times 365) / 1000000$		$E = (C \times D)$
1997	9870000	0.5	1801.28	0.8	1441.02

YEAR	STEP 1	STEP 2	STEP 3					STEP 4			
	A Total Annual MSW Disposed to SWDSs (Gg MSW)	B Methane Correctio n Factor (MCF)	C Fraction of DOC in MSW	D Fraction of DOC which Actually Degrades	E Fraction of Carbon Released as Methane	F Conv ersio n Ratio	G Potential Methane Generation Rate per Unit of Waste (Gg CH ₄ /Gg MSW)	H Realised (Country- specific) Methane Generation Rate per Unit of Waste (Gg CH ₄ / Gg MSW)	J Gross Annual Methane Generati on (Gg CH ₄)	K Recov ered Metha ne per Year (Gg CH ₄)	L Net Annual Methane Generatio n (Gg CH ₄)
1997	1441.02	0.74	0.21	0.77	0.5	16/12	0.11	0.08	114.95	0	114.95

STEP4	
M (1- Oxidation Correction Factor for Methane)	N Net Methane generatio n
1-OX	LxM
1	114.95