EX4//calculate the emission of Methane from solid waste in a region their population (10144200), 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 per Year=0.

	А	В	С	D	Е
	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 x B x 365)/1 000 000		$\mathbf{E} = (\mathbf{C} \ge \mathbf{D})$
1998	10144200	0.5	1851.32	0.8	1481.05

	STEP 1	STEP 2	STEP 3					STEP 4			
	А	В	С	D	Е	F	G	Н	J	K	L
	Total	Methane	Fraction	Fraction	Fraction	Conv	Potential	Realised	Gross	Recov	Net
			of	of	of	ersio	Methane			ered	Annual
		Correctio		DOC		n	Generation			Metha	
	Annual	n	DOC in	which	Carbon Released	Ratio	Rate per Unit of	(Country-	Annual	ne	Methane Generatio
	MSW	Factor	MSW	Actually	as		Waste (Gg	specific)	Methane	per Year	n
	Disposed	(MCF)		Degrades	Methane		CH4/Gg MSW)	Methane	Generati on (Gg	(Gg CH ₄)	(Gg CH ₄)
	to SWDSs							Generation Bata par	CH ₄)		
	(Gg MSW)							Rate per Unit			
								of Waste			
								(Gg CH4/ Gg MSW)			
YEAR							$G = (C \times D)$ $x E \times F)$	H= (B x G)	J= (H x A)		L= (J - K)
1998	1481.0532	0.74	0.21	0.77	0.5	16/12	0.11	0.08	118.15	0	118.15

STEP4			
M (1- Oxidation Correction	N		
Factor for Methane)	Net Methane generation		
1-OX	LxM		
1	118.15		