



Vanuatu

Dipatmen Blong Klaemet Jenis



GHG EMISEN BLONG WES SEKTA



Pablikesen mo Print blong Dipatmen blong Klaemet Jenis, Vanuatu

WES SEKTA

Long IPCC-2006 GHG inventri, Wes Sekta i inkludum emisen blong miten (CH_4) mo nitros oksaed (N_2O) we i kamaot long ol sab-kategori ia, Solid Wes Diposol, Biolojikol Tritmen blong Solid Wes, fasin blong bonem ol toti mo Weswota tritmen mo disjaj. Be long inventri yia 2007-2015, ol emisen we oli estimetem hem i kam long Solid Wes Diposol (i no inkludum Biolojikol Wes), mo Weswota Tritmen mo Disjaj (how we oli handelem domestik mo wes wota). Blong solid wes diposol, oli estimetem nomo ol wes we i kamaot long ol eria blong taon mo Minisipol solid wes from i gat ol lanfil. Long saed blong weswota tritmen, i no gat industrial weswota generesen long Vanuatu i mekem se oli mekem asampsen long saed blong per kapita (wan man long wan dei) blong weswota we i kamaot.

OLGETA MEN GHG INSAED LONG WES SEKTA

Taep blong Gas	Kemikel Fomula	GWP (ARS)
Miten (Methane)	CH_4	28
Nitros Oksaed (Nitrous Oxide)	N_2O	265

GHG EMISEN LONG OL SUB-SEKTA BLONG WES WE OLI ESTIMETEM LONG VANUATU

Kategori	Ripot blong Status
4 - Wes	
4.A - Solid Wes Diposol	Estimet
4.B - Biolojikol Tritmen blong Solid Wes	I no kamaot
4.C - Incineration mo Fasin blong Bonem toti long open ples	I no Estimet
4.D - Weswota Tritmen mo Discharge	Estimet
4.E - Narafala (Plis spesifae)	I no kamaot

Ol IPCC 2006 Gaedlaen blong GHG emisens oli yusum ol samting we oli stap long tebol antap blong estimet emisens long wes sekta. Be long Vanuatu, folem Namba Tri National Komunikesen (Third National Communication, TNC) blong Vanuatu, ol emisens blong Solid Wes Diposol mo Weswota Tritmen mo Disjaj long ol yia blong inventori 2007-2015 oli bin estimet.

OL DATA SOS

- VNSO (Statistik blong Populesen)
- JPRISM Project Ripot
- Rijenol Data long Wes

GHG EMISEN LONG WES SEKTA BLONG VANUATU

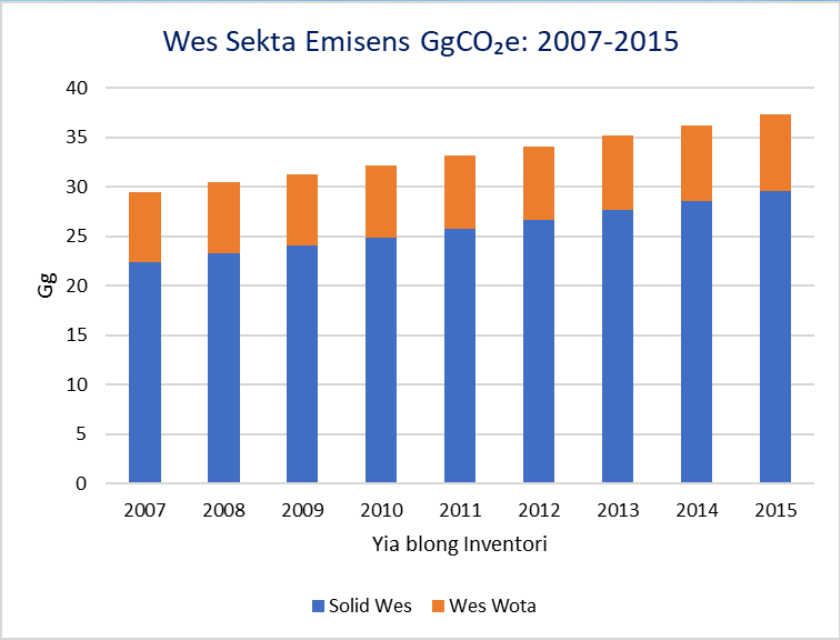
Analisis long inventori yia 2007-2015 i soem se Methane (CH₄) emisens i stap go antap moa. Long yia 2007, total GHG emisens i stap long 29.548 Gg CO₂e, mo long 2015, emisens I go antap long 37.275 Gg CO₂e, we i soem se emi gat net inkris blong 26.15% long ol yia blong inventori. Be, haf blong wes sekta long total GHG emisens blong Vanuatu i stap semak, we i stap raon long 6% long olgeta yia blong inventori.

MINISIPOL SOLID WES MO WESWOTA EMISEN LONG VANUATU

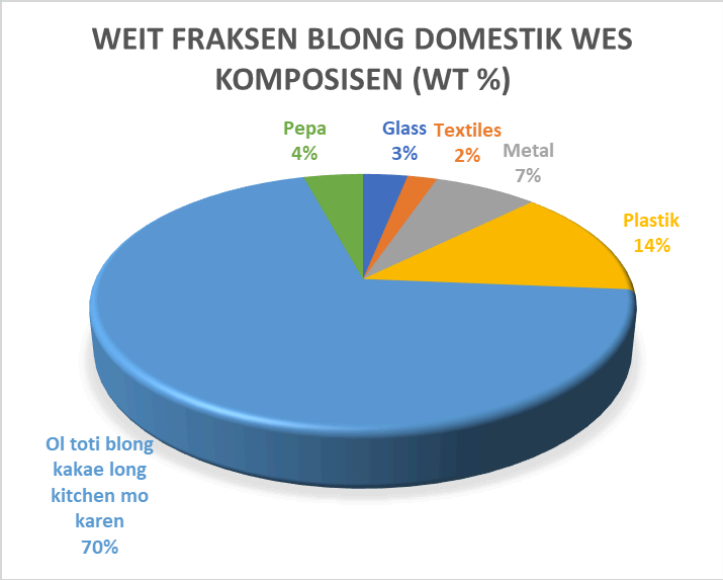
Tebol i stap daon ia i soem ol Miten (CH₄) mo Nitros Oksaed (N₂O) emisens blong Minisipol Solid Wes (MSW) mo Weswota (WW). Long inventori yia 2007-2015, Total emisens blong MSW i stap long 233.137 Gg CO₂e mo Total emisens blong WW i stap long 299.518 Gg CO₂e. Ol data long tebol i soem wan smol inkris long GHG emisens long ol yia blong inventori. Ol samting long tebol bae oli soem long wan graf long nekis pej.

Tebol 1: GHG Emisen long Wes Sekta (Gg CO₂e): 2007 – 2015

	GHG Emisen long Wes Sekta long Gg CO ₂ - Equi								
	2007	2008	2009	2010	2011	2012	2013	2014	2015
4. Wes	29.548	30.425	31.333	32.241	33.181	34.154	35.160	36.200	37.275
4.A; Solid Wes Disposal (MSW)	22.438	23.251	24.094	24.937	25.811	26.715	27.651	28.619	29.621
4.D- Wes Wota Tritmen mo Disjaj (WW)	7.110	7.174	7.239	7.304	7.371	7.439	7.509	7.581	7.654



KOMPOSISEN BLONG MINISIPOL SOLID WES LONG GHG INVENTORI



1. Solid Wes Disposol - Minisipol Solid Wes (MSW)

- Ol emisens long sekta ia oli kamaot long Bouffa Landfill (Port Vila), Luganville, mo Lenakel Solid Wes Disposol saet.
- Emi mekem 5% blong total GHG emisens blong Vanuatu.
- Emi kontribuit 78% blong GHG emisens long Wes Sekta.



Bouffa Landfill, Port Vila

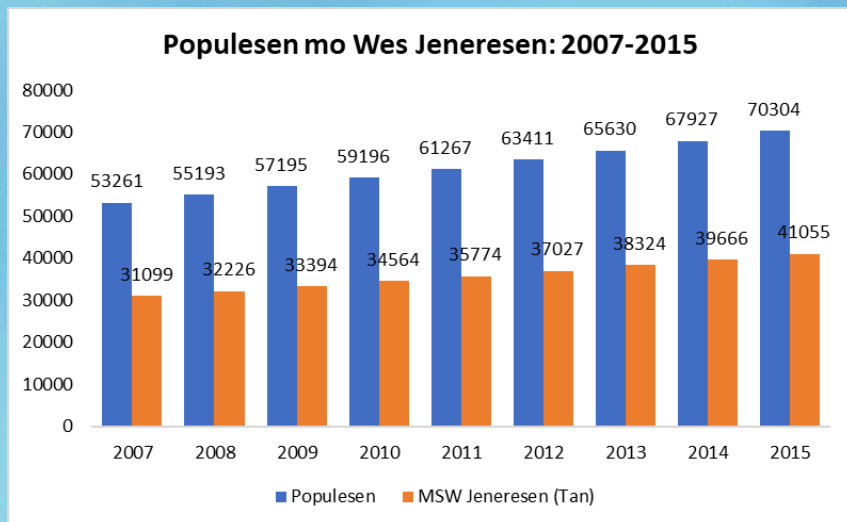


Luganville Wes Disposal Site

Kalkulesen Metod blong Emisen long MSW:

- Yusum Tier 1 metod we i folem IPCC First Order Decomposition metod, yusum defolt data blong aktiviti mo parameta.
- From nogat stret data blong monitarem, oli mekem ol estimet long MSW (Minisipol Solid Wes) we oli kamaot long Vanuatu long ol taon olsem Port Vila, Luganville mo Lenakel. Oli yusum wan avrej blong 1-1.5 kilo long evri man long wan dei, mo oli tekem ol infomesen blong komposisen blong wes long wan stadi we JPRISM Tim i mekem long yia 2015 blong soem weit blong wes komponen long % (wt%) long ol kantri long Pasifik Aelan.
- Lo olgeta wes we oli rikodem long JPRISM projek, 66% blong MSW (Minisipol Solid Wes) i kamaot long kitjin mo karen.
- Totol pop (Populesen blong taon) x (1.5 (Avrej wes we man i mekem long kilo/man/dei) x 365 (dei))/1000 (blong tanem i kam long ton).

MSW JENERESEN LONG VANUATU:



Jeneresen blong wes long ol urban eria olsem Port Vila, Luganville, mo Lenakel i soem wan stedi inkris ova long taem (luk graf antap).

2. Wes Wota Tritmen mo Disjaj

- GHG emisens long sekta ia i mekem 22.6% blong emisens long Wes Sekta mo <1% blong total GHG emisens blong Vanuatu.
- I no gat infomesen long propa sistem blong jeneresen blong wes wota, siwej mo sanitesen long Vanuatu, be folem komon praktis, oli yusum sistem blong septic tank blong ol haos mo bisnis, we wanwan haus o bisnis i save manejem. Proses ia i save mekem dikomposisen blong human wes be proses ia i lego slaj mo wes wota olsem bai-prodak.
- Ol emisens long wes wota i inkludum Miten (CH_4) mo Nitrod Oksaed (N_2O).

METOD BLONG KALKULETEM EMISEN LONG WES WOTA

- Long absens blong stret data blong monitoring, jeneresen blong wes wota i bin estimet folem populesen mo IPCC defol parameta blong rejim blong Oceania.
- Tier 1 Metod I bin yus blong estimetem GHG emisens long ol sabsekta we oli yusum stander valiu blong emisens fakta mo aktiviti paramita. Metod ia hemi wan gudfala praktis blong ol kantri we i no gat tumas data.
- Per capita jeneresen blong wes wota i bin kalkulet folem konsampsen blong freswota, we i stap 60% blong freswota konsampsen. (Per capita freswota konsampsen long Vanuatu emi 130 Liters/Day).

Tebol 2: Wes Wota GHG Emisen (Gg): 2007-2015

	2007	2008	2009	2010	2011	2012	2013	2014	2015
CH ₄ Emisen (Gg)	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157	0.157
N ₂ O Emisen (Gg)	0.0102	0.0105	0.0107	0.0110	0.0112	0.0115	0.0117	0.0120	0.0123
CO ₂ e Emisen (Gg)	7.110	7.174	7.239	7.304	7.371	7.439	7.509	7.581	7.654

Ol risal long tebol i soem se emisens blong GHG long wes wota oli no bigwan tumas long Vanuatu, be oli stap inkris mo mekem sam narafala envaeromen problem . Totol GHG emisens blong Wes Sekta long Vanuatu emi 299.517 Gg CO₂e, we 78% i kamaot long Minisipol Solid Wes (MSW) mo 22% i kamaot long Wes Wota Tritmen. Ol GHG emisens long sekta ia i mekem 6% blong totol emisens blong Vanuatu. Nating se emisens long sekta ia i no bigwan tumas, oli stap inkris mo mekem sam narafala envaeromen problem.

Olgeta tebol mo graf oli karem aot long Vanuatu TNC Ripot



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