



## **DIVERTING PUTRESCIBLE WASTE FROM LANDFILL**

**purchasing a composter is evaluated by,**

- (A) The Type Of Waste Material that the Compost Manufacturer Recommends, or Research Information Supplied by the Manufacturer Showing Test Reports, that support their claims
- (B) The Biodegradation Rate, measurements of waste material composted over a twelve month period
- (C) The Recovery Cost, Of The Composter Over A Given Period , Incorporating A&B Above

As Putrescible Waste Is Responsible For The Generations Of Co2-e, Emitted, And The Cost Of Landfill Is Increasing, The Focus On Purchasing A Composter, Is Choosing A Composter Design That Can Biodegrade Putrescible Waste Within Acceptable Environmental Standards, And Has A High Rate Of Decomposition, That Can Decompose Several Times The Volume Capacity Of The Composter. Over A Given Period

The Spreadsheets Show The Economic And Environmental Savings, From The Purchase Of Two Aerochamber Sizes Over A Five Year Period.

**HYPERLINKS TO WORKSHEETS**

[ECONOMICS](#)

[TRANSPORT CO2 SAVINGS](#)

[LANDFILL CO2-e](#)

**[SPREADSHEET INFORMATION](#)**

**[CURBSIDE TO COLLECTION PER TONNE COSTS](#)**

In the economics worksheet - it has been estimated at \$30 , these cells can be changed to correspond to local authority figures

The landfill per tonne costs come from UK government figures but can also be changed

**[WORKBOOK PROTECTION](#)**

The spreadsheet has workbook protection to stop accidental corruption of the formulas used.

The password will be supplied on request if needed

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# Aerochamber

Carbon Abatement Technology

ESTIMATED RETURN  
ON INVESTMENT  
OVER A 6 YEAR PERIOD

## DIVERTING PUTRESCIBLE WASTE FROM LANDFILL AUSTRALIA


### ECONOMIC SAVINGS for the AEROCHAMBER 612 LITRE

EACH COUNCIL CAN CALCULATE THEIR OWN COST SAVINGS USING THIS SPREADSHEET TO ENTER THEIR COSTINGS

YEAR	LANDFILL		CURRENT COSTS		SAVINGS		ECONOMIC SAVINGS FOR A SIX PERIOD		
	KG COMPOSTED DIVERTED FROM LANDFILL	TONNES DIVERTED FROM LANDFILL	CURBSIDE COLLECTION PER TONNE	LANDFILL LEVY PER TONNE	CURBSIDE COLLECTION SAVINGS	LANDFILL TAX PER TONNE SAVINGS	LANDFILL & CURBSIDE SAVINGS	AEROCHAMBER INITIAL COST	TOTAL SAVINGS
1 January 2013	1876.5	1.88	\$85.00	\$105.00	\$159.50	\$197.03	\$356.54	\$270.00	\$86.54
1 January 2014	1876.5	1.88	\$85.00	\$105.00	\$159.50	\$197.03	\$356.54		\$443.07
1 January 2015	1876.5	1.88	\$85.00	\$105.00	\$159.50	\$197.03	\$356.54		\$356.54
1 January 2016	1876.5	1.88	\$85.00	\$105.00	\$159.50	\$197.03	\$356.54		\$356.54
1 January 2017	1876.5	1.88	\$85.00	\$105.00	\$159.50	\$197.03	\$356.54		\$356.54
1 January 2018	1876.5	1.88	\$85.00	\$105.00	\$159.50	\$197.03	\$356.54		\$356.54
									\$1,955.75

### ECONOMIC SAVINGS for the AEROCHAMBER 300 LITRE

YEAR	LANDFILL		CURRENT COSTS		SAVINGS		ECONOMIC SAVINGS FOR A SIX PERIOD		
	KG COMPOSTED DIVERTED FROM LANDFILL	TONNES DIVERTED FROM LANDFILL	CURBSIDE COLLECTION PER TONNE	LANDFILL LEVY PER TONNE	CURBSIDE COLLECTION SAVINGS	LANDFILL TAX PER TONNE SAVINGS	LANDFILL & CURBSIDE SAVINGS	AEROCHAMBER INITIAL COST	TOTAL SAVINGS
1 January 2013	876.2	0.88	\$85.00	\$105.00	\$74.48	\$92.00	\$166.48	\$150.00	\$16.48
1 January 2014	876.2	0.88	\$85.00	\$105.00	\$74.48	\$92.00	\$166.48		\$182.96
1 January 2015	876.2	0.88	\$85.00	\$105.00	\$74.48	\$92.00	\$166.48		\$166.48
1 January 2016	876.2	0.88	\$85.00	\$105.00	\$74.48	\$92.00	\$166.48		\$166.48
1 January 2017	876.2	0.88	\$85.00	\$105.00	\$74.48	\$92.00	\$166.48		\$166.48
1 January 2018	876.2	0.88	\$85.00	\$105.00	\$74.48	\$92.00	\$166.48		\$166.48
									\$865.35

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		<b>TRANSPORT CO2-e SAVINGS per TONNE of MUNICIPAL WASTE CURBSIDE TO LANDFILL &amp; RETURN</b>				
Emission Calculations based on the National Greenhouse Account Standard Factors						
Diesel Energy content factor: 38.6 gigajoules/ kilolitre						
Emissions Factor: 69.5 kg CO2-e /gigajoule						
Therefore 1 lt diesel equals (38.6*69.5)/1000=2.6827 kg CO2-e						
		DIESEL			DIESEL	
	INPUTS	TRANSPORT DATA		2.6827	<< DIESEL RATIO CALCULATION USED	
	DIESEL	<< SELECT - DIESEL OR PETROL			TRANSPORT CO2-e EMISSION CREATED	
	150	MILEAGE CURBSIDE TO LANDFILL & RETURN		3.1250	FUEL IN LITRES PER TONNE TRANSPORTED	
	37.5	QUANTITY FUEL USED IN LITRES		100.60125	CO2-e kg GENERATED FROM FUEL USED	
	12	TONNES MW CURBSIDE TO LANDFILL		8.38344	CO2-e kg GENERATED PER PER TONNE TRANSPORTED	
		AEROCHAMBER TRANSPORT CO2-e SAVINGS per TONNE of MUNICIPAL WASTE				
	AEROCHAMBER 612 LT COMPOSTER - ONE YEAR			AEROCHAMBER 300 LT COMPOSTER - ONE YEAR		
	1877	KG DIVERTED FROM LANDFILL		876	KG DIVERTED FROM LANDFILL	
	3.13	SAVINGS LITRES FUEL / PER TONNE		3.13	SAVINGS LITRES FUEL / PER TONNE	
	60.4090386	FUEL - CO2-e KG SAVINGS PER AEROCHAMBER		28.20698088	FUEL - CO2-e KG SAVINGS PER AEROCHAMBER	
The above inputs are from a local waste disposal company						

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## DIVERTING PUTRESIBLE WASTE FROM LANDFILL

### CO2-e EMISSION SAVINGS for the AEROCHAMBER PER TONNE

Landfilling 1 ton of food waste has a global warming potential that creates +743 kg of CO2-e Reference "environmentalexpert.com"

AEROCHAMBER 612 LT COMPOST CO2-e EMISSION SAVINGS			ANNUALLY	FIVE YEARS
KG COMPOSTED DIVERTED FROM LANDFILL	TONNES DIVERTED FROM LANDFILL	KG CO2-e SAVINGS PER TONNE DIVERTED FROM LANDFILL	TOTAL KG CO2-e SAVINGS	TOTAL TONNES CO2-e SAVINGS 2011 TO 2015
1876.5	1.88	743	1394.2395	6.9711975

AEROCHAMBER 300 LT COMPOST CO2-e EMISSION SAVINGS			ANNUALLY	FIVE YEARS
KG COMPOSTED DIVERTED FROM LANDFILL	TONNES DIVERTED FROM LANDFILL	KG CO2-e SAVINGS PER TONNE DIVERTED FROM LANDFILL	TOTAL KG CO2-e SAVINGS	TOTAL TONNE CO2-e SAVINGS 2011 TO 2015
876.2	0.88	743	651.0166	3.255083