

表 7.4.9 1990 年至 2024 年一般事業廢棄物焚化處理之二氧化碳與氧化亞氮排放量

年份	一般事業廢棄物焚化量	一般事業廢棄物 IPCC 主成分分類								礦物碳比例 (FCF)	焚化爐燃燒效率 (OF)	二氧化碳排放量	氧化亞氮排放係數	氧化亞氮排放量
		食品	纖維布	木頭	紙	石油化學	橡膠	營造拆除	其他					
	千公噸	%								%	%	kt CO ₂ e	g N ₂ O/T	kt CO ₂ e
1990	65.2	–	0.94%	0.67%	16.29%	32.75%	0.31%	1.83%	47.20%	28.35%	100%	67.7	47	0.8
1991	24.2	–	0.94%	0.67%	16.29%	32.75%	0.31%	1.83%	47.20%	28.35%	100%	25.1	47	0.3
1992	214.1	–	0.94%	0.67%	16.29%	32.75%	0.31%	1.83%	47.20%	28.35%	100%	222.5	47	2.7
1993	208.7	–	0.94%	0.67%	16.29%	32.75%	0.31%	1.83%	47.20%	28.35%	100%	217.0	47	2.6
1994	345.8	–	0.94%	0.67%	16.29%	32.75%	0.31%	1.83%	47.20%	28.35%	100%	359.4	47	4.3
1995	1,090.4	–	0.94%	0.67%	16.29%	32.75%	0.31%	1.83%	47.20%	28.35%	100%	1,133.4	47	13.6
1996	1,143.7	–	0.94%	0.67%	16.29%	32.75%	0.31%	1.83%	47.20%	28.35%	100%	1,188.8	47	14.2
1997	228.2	–	0.94%	0.67%	16.29%	32.75%	0.31%	1.83%	47.20%	28.35%	100%	237.2	47	2.8
1998	340.1	–	0.94%	0.67%	16.29%	32.75%	0.31%	1.83%	47.20%	28.35%	100%	353.5	47	4.2
1999	194.0	–	0.94%	0.67%	16.29%	32.75%	0.31%	1.83%	47.20%	28.35%	100%	201.7	47	2.4
2000	477.8	–	0.94%	0.67%	16.29%	32.75%	0.31%	1.83%	47.20%	28.35%	100%	496.6	47	6.0
2001	1,797.4	–	0.94%	0.67%	16.29%	32.75%	0.31%	1.83%	47.20%	28.35%	100%	1,868.3	47	22.4
2002	1,574.8	–	0.94%	0.67%	16.29%	32.75%	0.31%	1.83%	47.20%	28.35%	100%	1,636.9	47	19.6
2003	1,429.0	–	0.94%	0.67%	16.29%	32.75%	0.31%	1.83%	47.20%	28.35%	100%	1,485.4	47	17.8
2004	1,381.4	–	0.94%	0.67%	16.29%	32.75%	0.31%	1.83%	47.20%	28.35%	100%	1,435.9	47	17.2
2005	537.4	–	1.93%	0.99%	15.61%	28.15%	0.78%	0.15%	52.39%	24.72%	100%	487.0	47	6.7
2006	587.2	–	2.26%	0.93%	18.01%	28.33%	0.93%	2.83%	46.71%	25.33%	100%	545.5	47	7.3
2007	579.4	–	1.37%	0.67%	17.65%	29.10%	0.46%	3.39%	47.35%	25.85%	100%	549.1	47	7.2
2008	507.1	–	0.53%	0.40%	17.24%	31.50%	0.03%	0.03%	50.26%	26.98%	100%	501.6	47	6.3
2009	486.7	–	0.52%	0.56%	18.66%	33.18%	0.04%	0.01%	47.02%	28.24%	100%	503.9	47	6.1
2010	516.8	–	0.50%	0.52%	15.16%	36.46%	0.03%	0.02%	47.31%	30.83%	100%	584.1	47	6.4
2011	599.1	–	0.69%	0.41%	14.30%	31.18%	0.78%	1.90%	50.75%	27.23%	100%	598.1	47	7.5
2012	537.0	–	0.84%	0.57%	14.95%	32.61%	0.18%	2.36%	48.49%	28.33%	100%	557.8	47	6.7
2013	548.5	–	0.49%	0.80%	15.01%	40.76%	0.03%	2.88%	40.03%	34.62%	100%	696.2	47	6.8
2014	547.0	–	0.60%	0.81%	16.38%	35.76%	0.09%	3.11%	43.26%	30.80%	100%	617.7	47	6.8
2015	356.7	–	0.65%	0.71%	16.20%	33.19%	0.06%	3.50%	45.68%	28.90%	100%	378.0	47	4.4
2016	407.6	–	0.60%	0.63%	12.29%	36.63%	0.04%	3.47%	46.34%	31.61%	100%	472.5	47	5.1
2017	439.7	–	0.64%	0.49%	9.89%	36.85%	0.05%	4.47%	47.60%	32.01%	100%	516.1	47	5.5
2018	454.9	–	0.54%	0.57%	11.19%	33.28%	0.05%	4.14%	50.23%	29.16%	100%	486.5	47	5.7
2019	448.4	–	0.49%	0.49%	10.56%	32.91%	0.04%	5.16%	50.35%	29.07%	100%	477.9	47	5.6
2020	502.1	–	0.54%	0.49%	10.37%	32.14%	0.08%	4.73%	51.64%	28.41%	100%	523.1	47	6.3
2021	540.0	–	0.54%	0.49%	7.34%	33.29%	0.06%	3.53%	54.74%	29.15%	100%	577.2	47	6.7
2022	530.4	–	1.42%	0.71%	8.62%	34.76%	0.33%	4.23%	49.92%	30.52%	100%	593.6	47	6.6
2023	571.8	–	1.39%	0.58%	8.82%	31.05%	0.43%	2.87%	54.86%	27.44%	100%	575.3	47	7.1
2024	669.6	–	1.59%	0.56%	8.24%	33.07%	0.63%	2.69%	53.22%	29.04%	100%	712.9	47	8.3

資料來源：1. 1990 年至 2004 年活動數據採用統計年報計算而得（一般廢棄物＋一般事業廢棄物－大型焚化爐焚化量），行政院環境保護署（現為環境部）中華民國環境保護統計年報，2024 年。

2. 2005 年至 2010 年活動數據採用環境部「事業廢棄物申報及管理資訊系統」中，焚化處理聯單申報之一般事業廢棄物送至中小型焚化爐處理量並參考 2011 年至 2024 年環境部「固定污染源空污費暨排放量申報整合管理系統」中，無能源回收之中小型焚化爐廢棄物焚化量平均調整 1.1 倍。

3. 2011 年後則直接採用環境部「固定污染源空污費暨排放量申報整合管理系統」中，無能源回收之中小型焚化爐廢棄物焚化量作為活動數據。

4. 2005 年至 2024 年一般事業廢棄物 IPCC 主成分分類資料係參考資源循環署「事業廢棄物申報及管理資訊系統」，1990 年至 2004 年係以時間序列穩定區間分析，採 2005 年至 2015 年平均值推估。