

欧洲环保机构固废问题 与气候影响的研究示例

毛达

2021年8月11日



深圳零废弃
Shenzhen Zero Waste



无毒先锋
Toxics-Free Corps

The Potential
Contribution of Waste
Management to a
Low Carbon Economy

Executive Summary

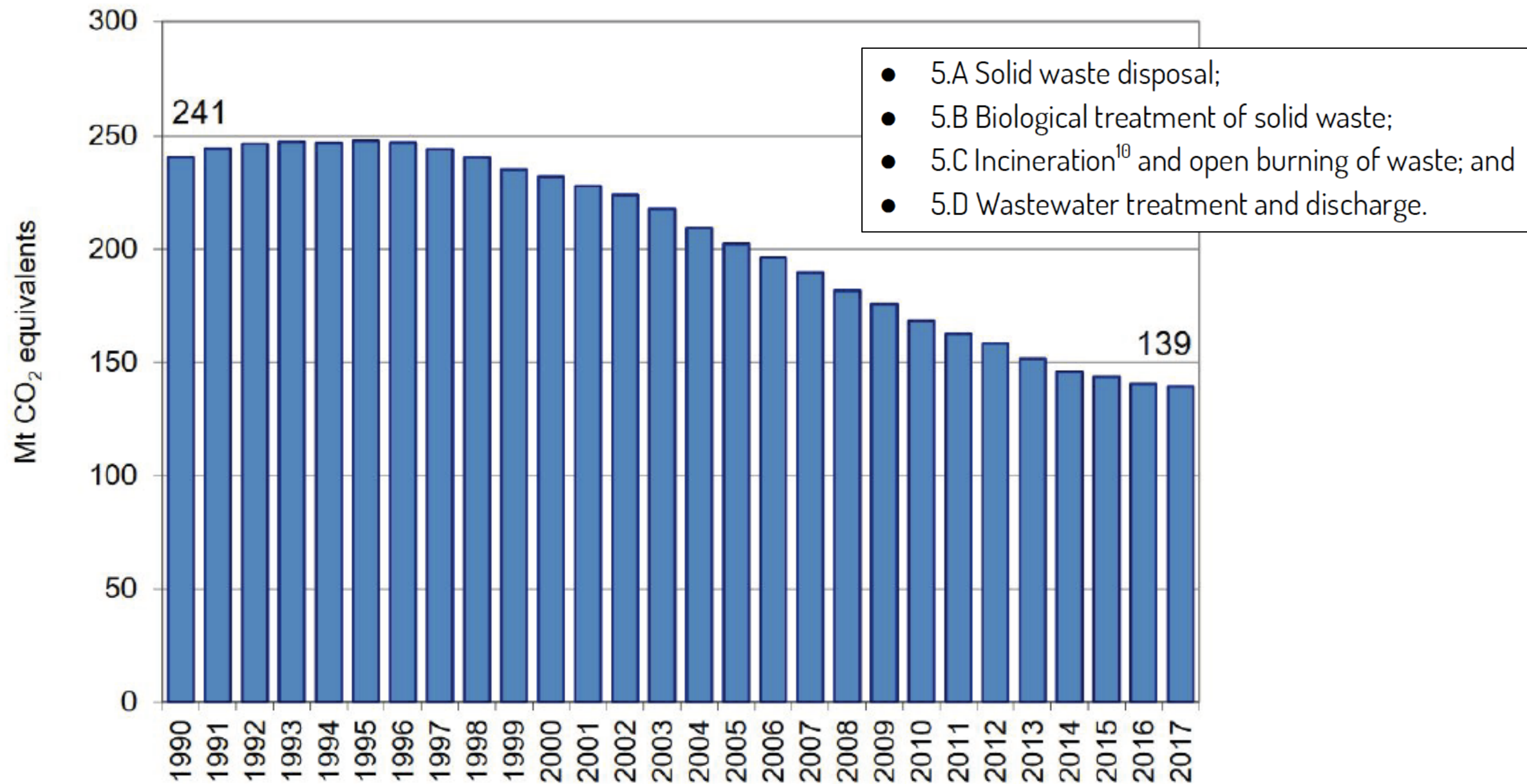
October 2015



Landfill emission reductions
only tell half the story as
GHG emissions from
Waste-to-Energy
incineration double

Policy Briefing

November 2020 – Janek Vahk, Zero Waste Europe



Sector 5 Waste: EU-28+ISL GHG emissions, 1990-2017, European Environment Agency

Municipal waste landfilled, incinerated, recycled and composted, EU-27, 1995-2018

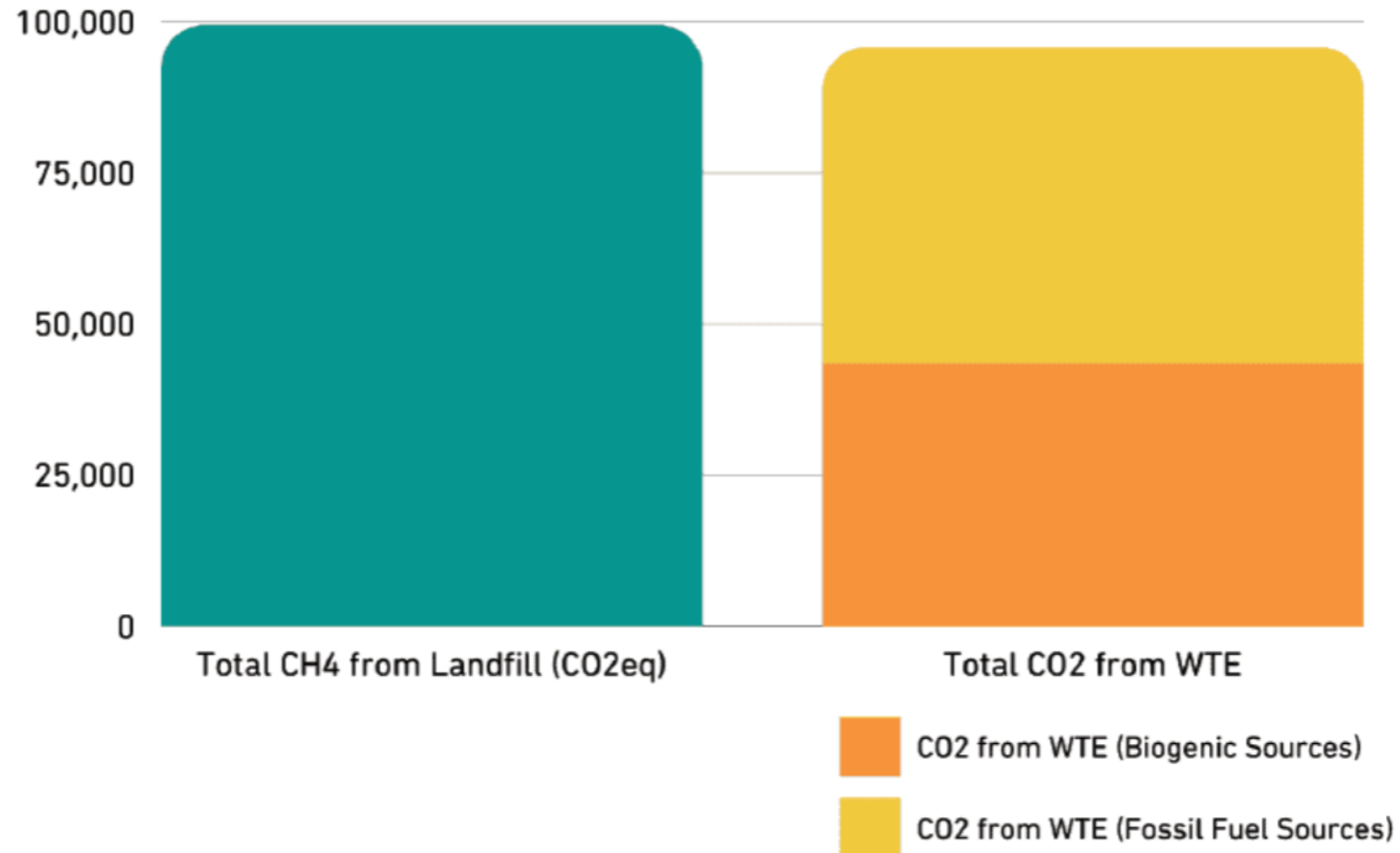
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	Change 2018/1995 (%)
million tonnes																									
Landfill	121	117	117	114	113	112	107	104	99	93	88	88	87	83	82	79	74	67	63	59	57	54	53	52	-57
Incineration	29	30	33	33	34	36	37	39	39	41	45	48	49	51	52	53	55	54	55	56	56	58	59	58	101
Material Recycling	23	26	30	32	37	38	40	43	43	43	46	47	52	53	54	55	56	58	56	59	63	65	66	67	190
Composting	14	16	17	18	19	23	23	24	24	26	26	27	28	30	30	29	29	30	31	33	33	36	37	37	163
Other	10	13	12	11	12	11	12	12	12	13	16	13	11	10	7	6	6	6	5	5	5	5	5	5	-51
kg per capita																									
Landfill	286	276	276	266	263	262	250	241	229	215	202	202	199	190	186	178	167	153	142	134	127	121	118	117	-59
Incineration	34	36	39	39	79	84	87	90	90	95	103	111	112	116	117	121	125	122	125	126	127	130	132	131	285
Material Recycling	54	62	69	75	85	87	92	100	100	100	105	109	119	120	123	125	128	130	128	134	141	145	147	150	178
Composting	33	38	41	42	45	53	54	57	57	59	59	61	64	69	67	66	66	69	71	73	75	81	83	83	152
Other	60	66	66	65	28	27	26	27	26	31	37	30	23	23	17	13	13	14	12	11	10	11	11	11	-82

Note: estimated by Eurostat.

Date	Data area	CO ₂ from WTE (Biogenic sources)	CO ₂ from WTE (Fossil Fuel Sources)	Total CO ₂ WTE (Biogenic sources + Fossil fuel sources)	Total CH4 from Landfill (CO ₂ eq)
1990	EU27+UK	2,659	2,714 ¹⁵	5,373	189,512
2018	EU27+UK	43,526	52,102	95,628	99,425

Table 2: Comparison of kt CO₂eq emissions from landfill and WTE incineration

Comparison of kt CO₂eq emissions from landfill and WTE incineration 2018

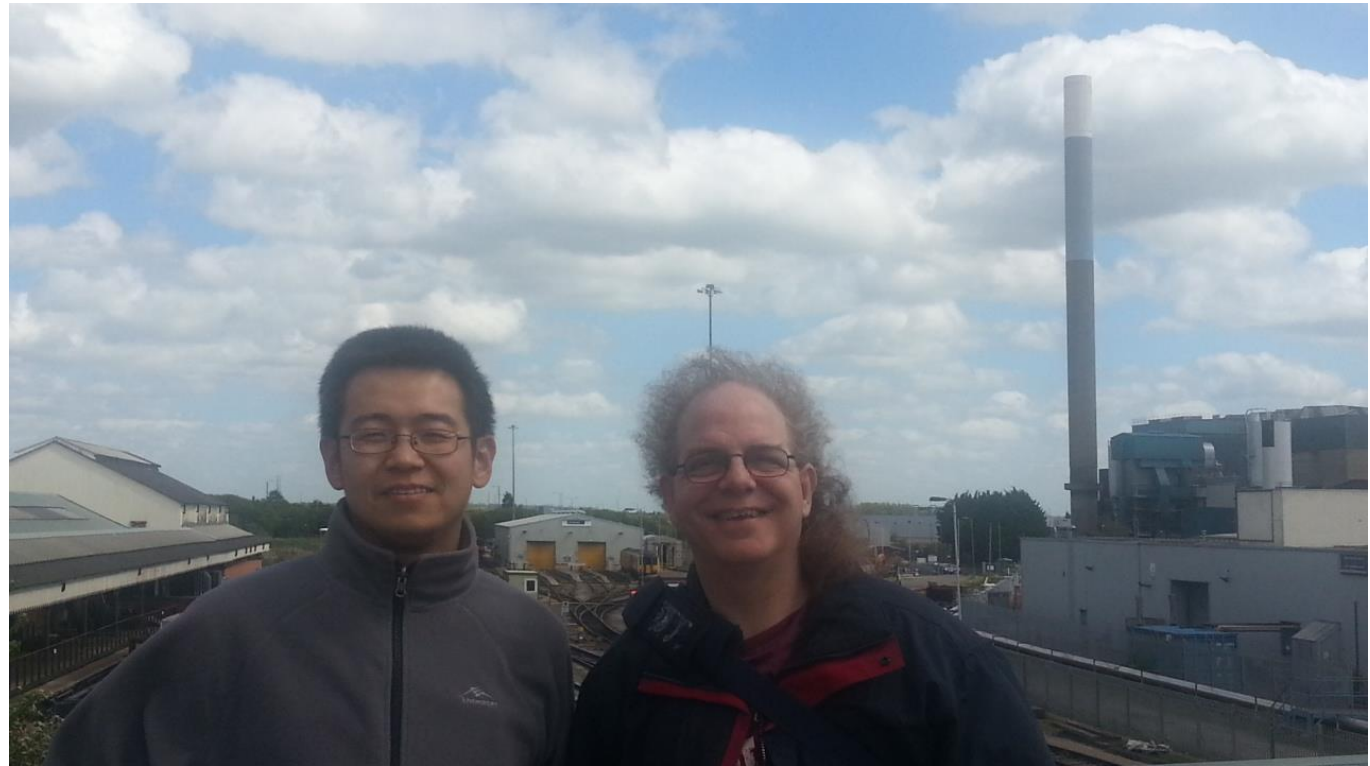




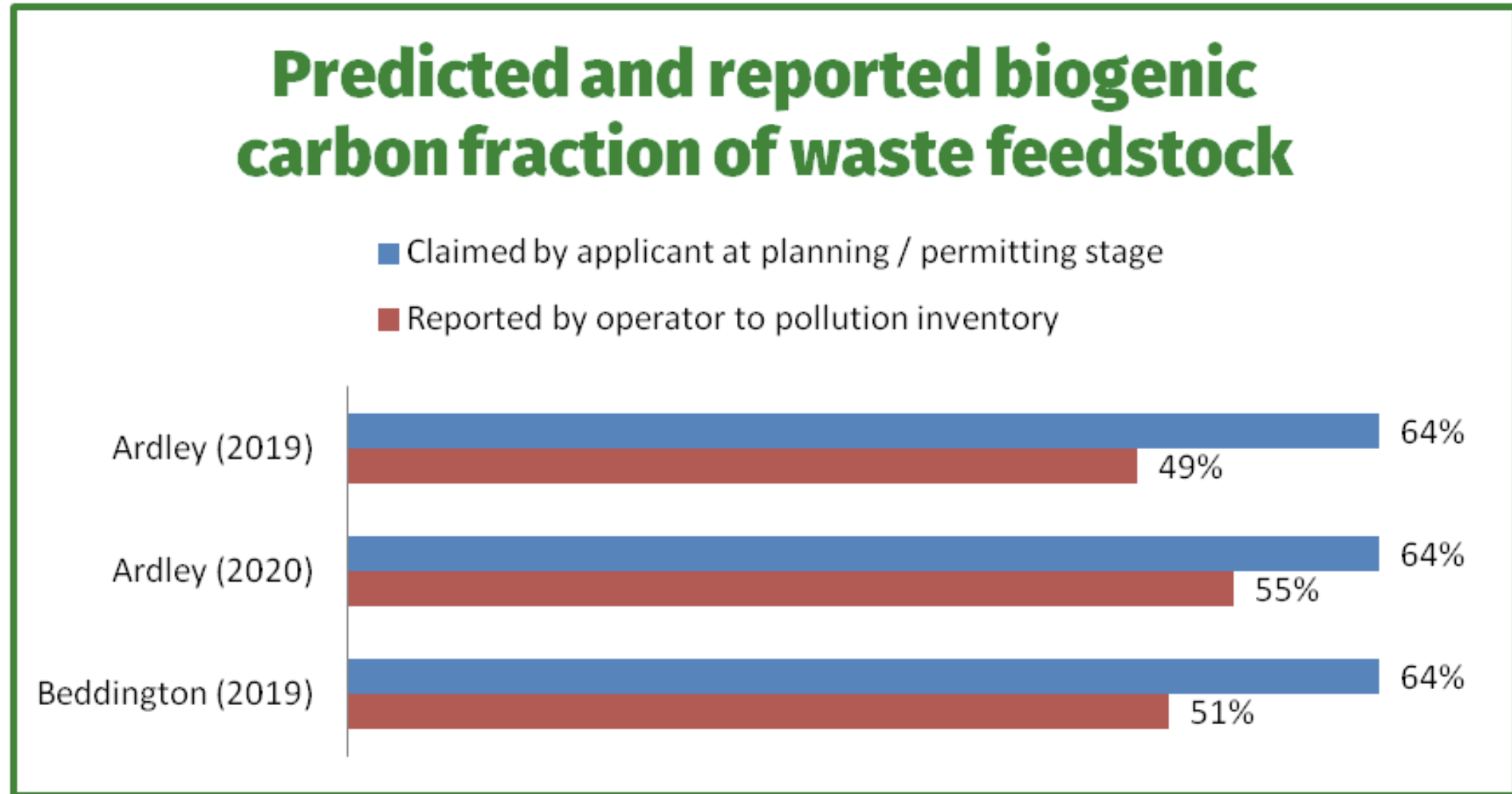
Good Practice Guidance for Assessing the GHG Impacts of Waste Incineration

JULY 2021

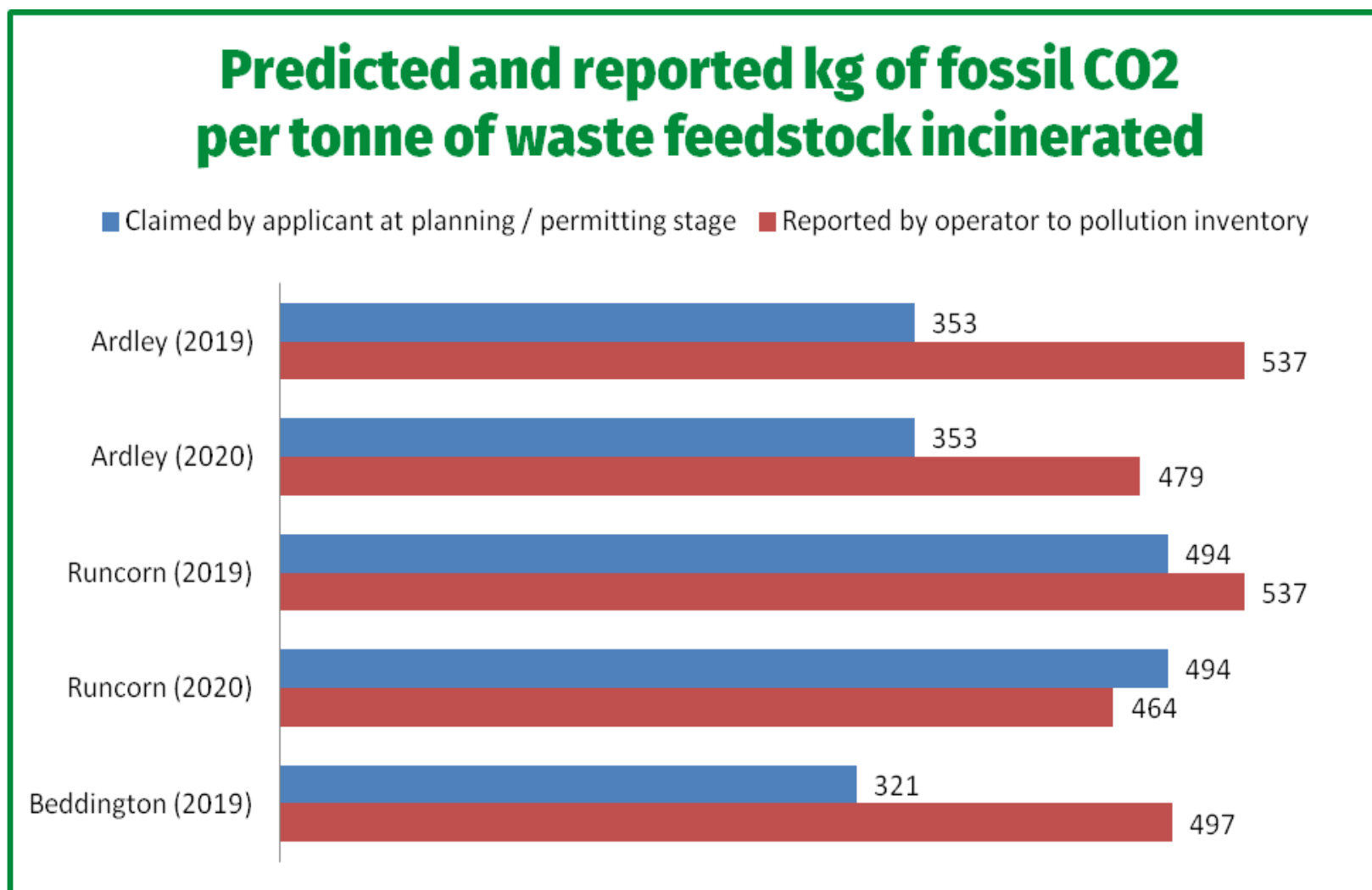
Principal author: Josh Downen — Reviewed by: Shlomo Downen



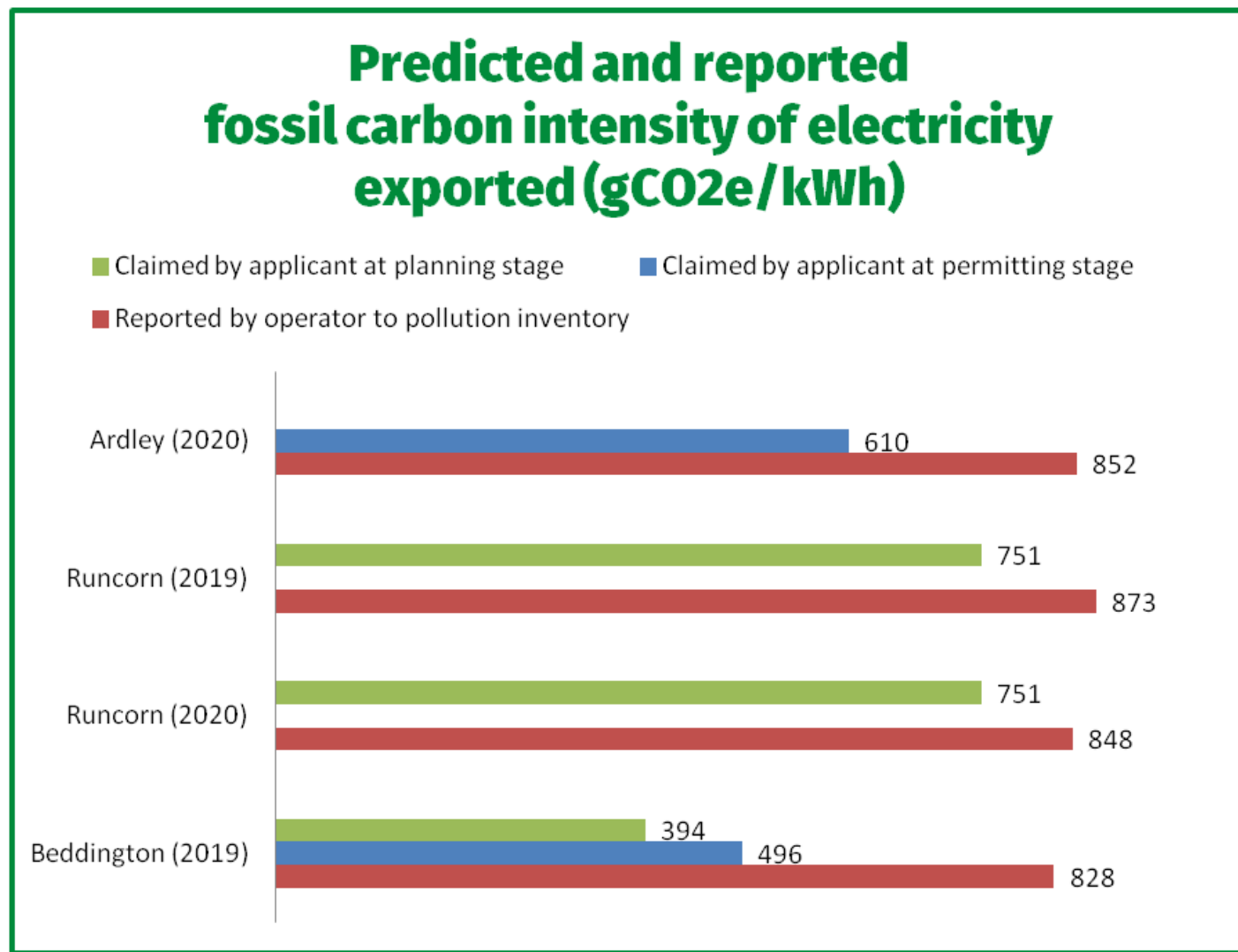
化石碳占比比预计高13%



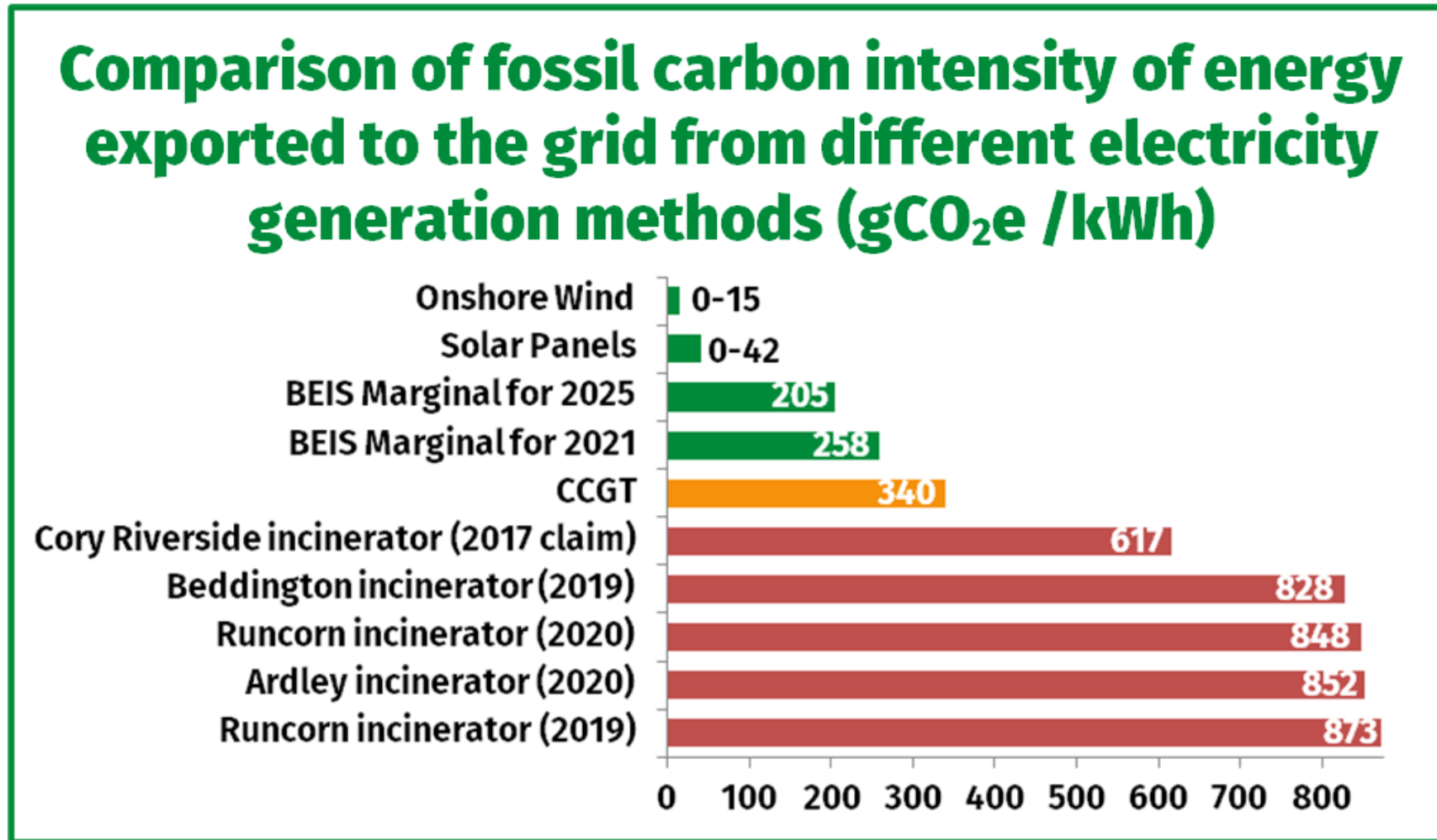
吨垃圾化石源碳排放高出预计20%



发电碳排放强度高出预计49%



与其他发电方式碳排放比较



The Carbon Footprint of Scotland's Household Waste

2019 Household Carbon Metric Brief

Reducing our waste footprint

Carbon footprints measure a person's carbon impact on the environment. The average carbon footprint from waste in Scotland was...



**This figure is greater than the total amount of carbon saving between 2011-2016, because Scotland's population has increased.



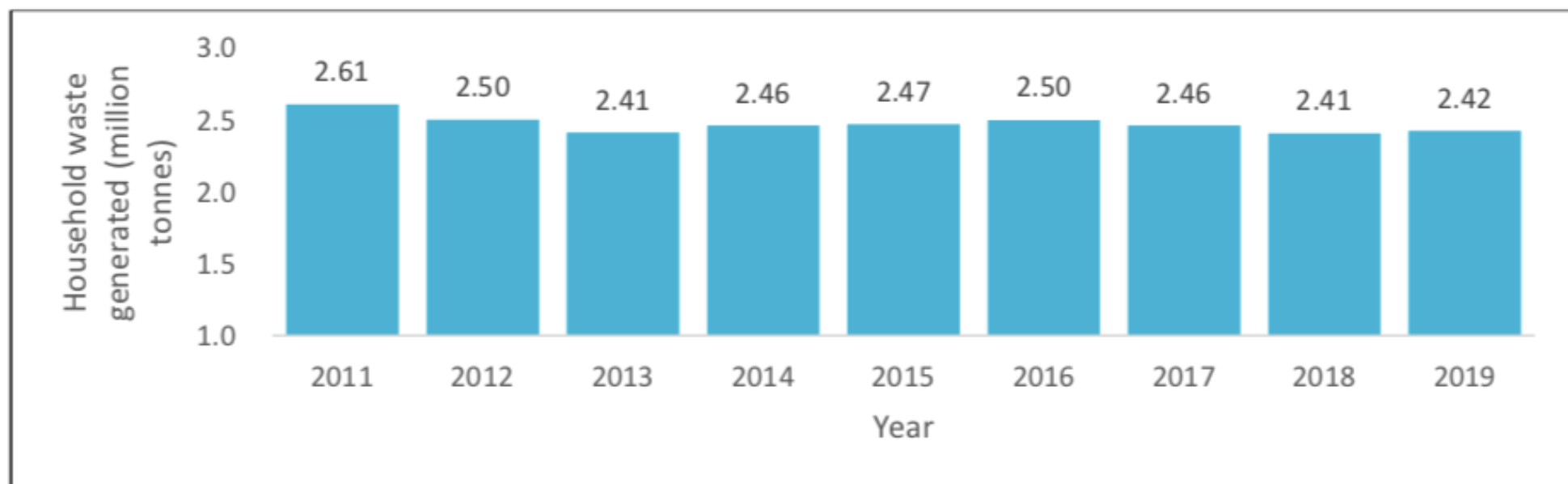


Figure 1 Scottish Household waste generated, 2011 to 2019. Note: the vertical axis does not start at 0.

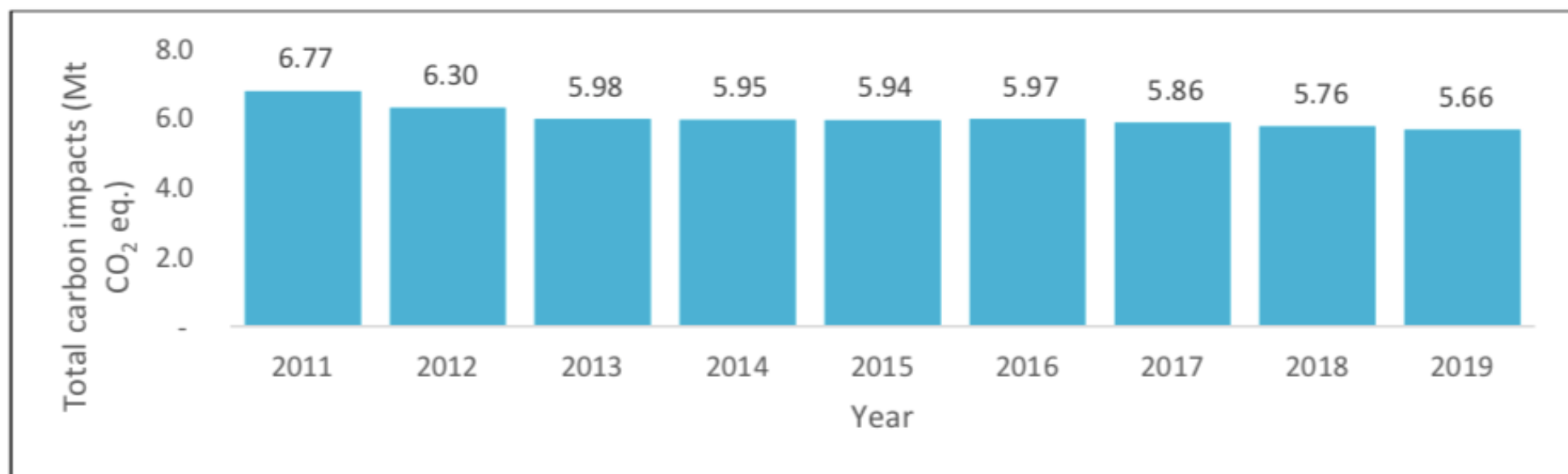


Figure 2 Carbon impact of Scottish Household waste generated and managed 2011-2019.

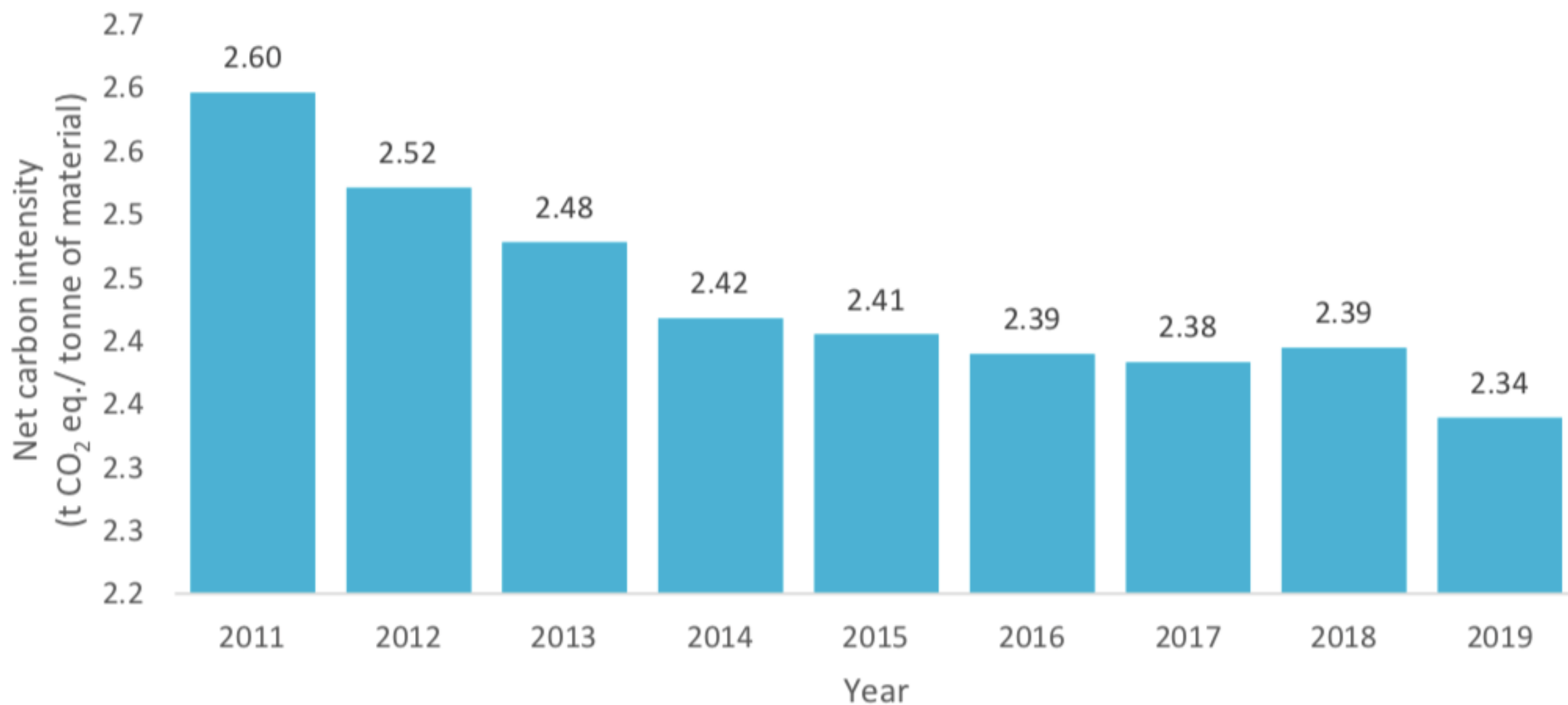


Figure 3 Net carbon intensity of Scottish Household waste 2011-2019. Note: the vertical axis does not start at 0.

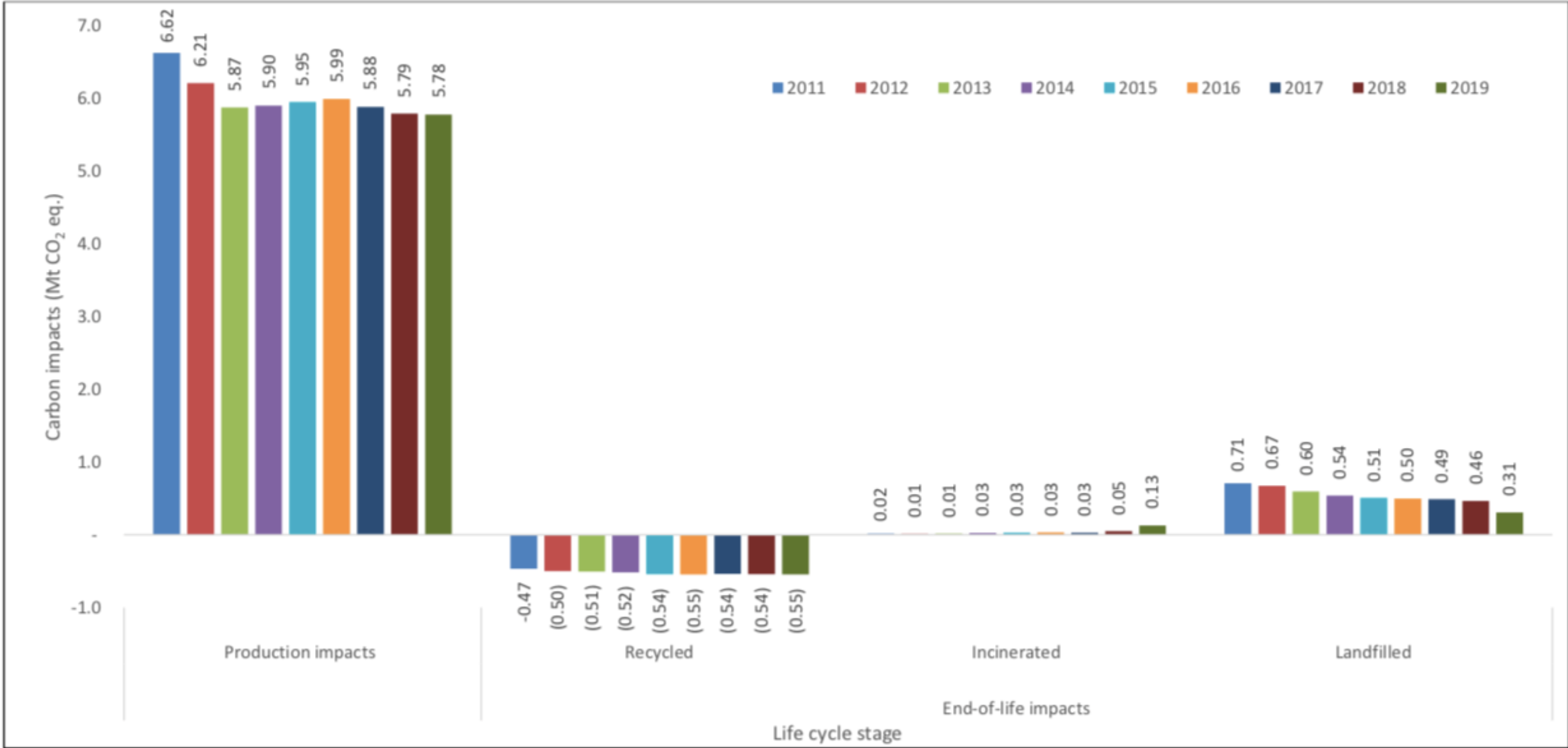


Figure 4 Carbon whole-life cycle impacts over time, 2011 - 2019.

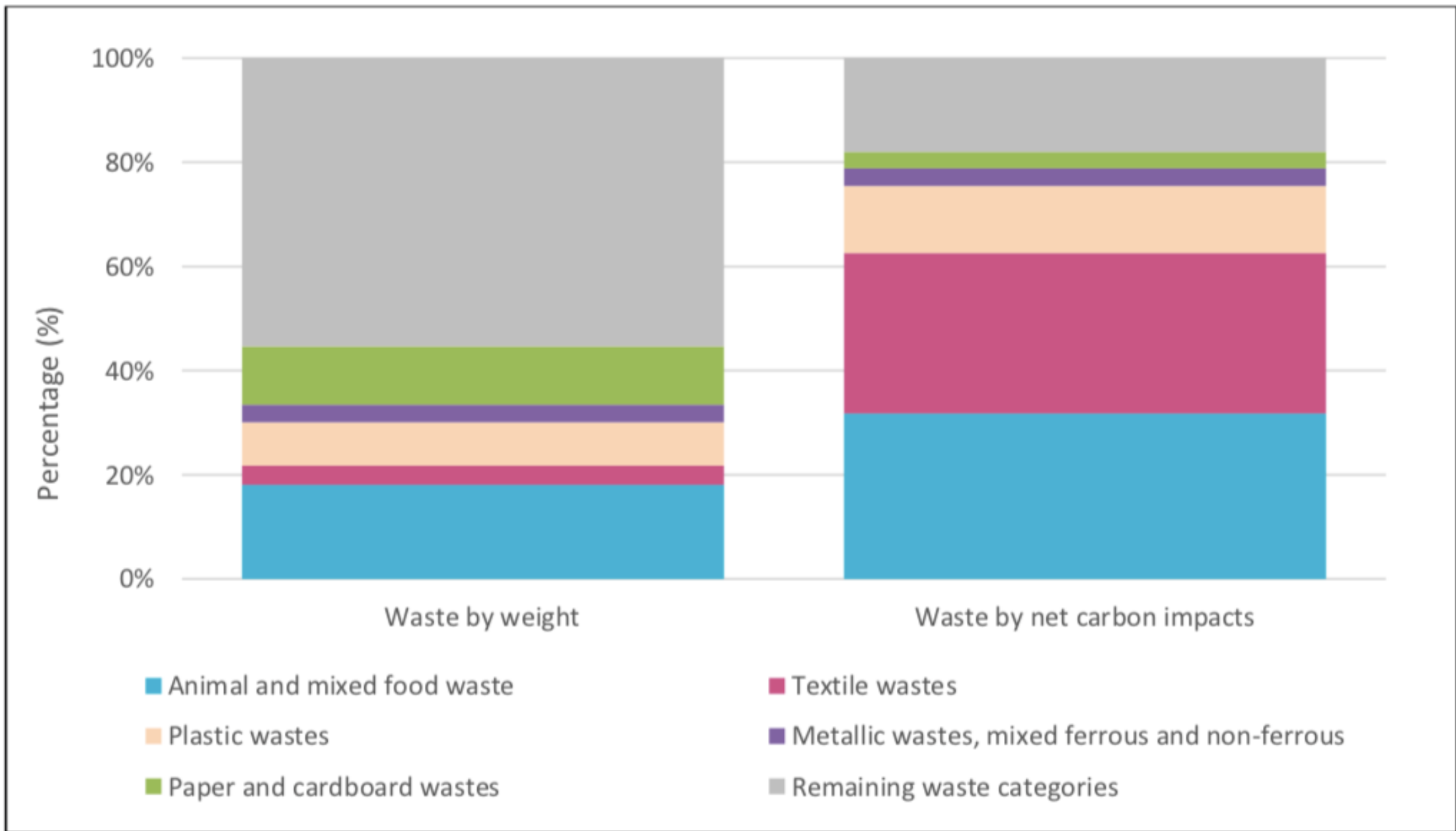


Figure 5 Relative weight vs. carbon impact of key waste materials 2019 (following disaggregation of the mixed Household and Similar Wastes category⁶).

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