

Moray Council - Summary of Carbon Emissions by Source

APPENDIX 1

The below emissions have been calculated using data from Moray Council and emissions factors supplied by the Scottish Government.

Emission source	Type	2019/20 emissions (tCO ₂ e)	2020/21 emissions (tCO ₂ e)	% Change	Change (tCO ₂ e)
Refuse Municipal to Landfill	Scope 3	11,664.0	8,507.3	-27.1%	-3,156.7
Grid Electricity (generation)	Scope 2	3,628.2	2,649.0	-27.0%	-979.2
Diesel (average biofuel blend)	Scope 1	3,473.9	2,711.4	-21.9%	-762.5
Refuse Commercial & Industrial to Landfill	Scope 3	1,919.8	1,458.3	-24.0%	-461.5
Gas oil litre	Scope 1	541.1	246.3	-54.5%	-294.8
Grid Electricity (transmission & distribution losses)	Scope 3	308.0	227.8	-26.0%	-80.2
Water - Treatment	Scope 3	91.2	22.5	-75.3%	-68.7
Water - Supply	Scope 3	46.6	11.3	-75.8%	-35.3
Petrol (average biofuel blend)	Scope 1	28.5	9.8	-65.6%	-18.7
Natural Gas	Scope 1	4,331.9	4,315.4	-0.4%	-16.5
Organic Garden Waste Composting	Scope 3	26.6	11.2	-57.9%	-15.4
Plastics (Average) Recycling	Scope 3	18.8	4.5	-76.1%	-14.3
Metal Cans (Mixed) & Metal Scrap Recycling	Scope 3	22.6	12.5	-44.7%	-10.1
Biomass (Wood Chips)kWh	Scope 1	25.9	18.9	-27.0%	-7.0
WEEE (Mixed) Recycling	Scope 3	18.9	16.9	-10.5%	-2.0
Biomass (Wood Pellets) kWh	Scope 1	16.3	15.0	-8.3%	-1.3
Batteries Recycling	Scope 3	0.06	0.10	54.7%	0.04
Purchased Heat and Steam	Scope 2	9.7	11.8	21.9%	2.1
Organic Food & Drink Composting	Scope 3	84.3	96.8	14.8%	12.5
Gas oil kWh	Scope 1	736.3	750.1	1.9%	13.8
Mixed recycling	Scope 3	7.5	32.7	338.8%	25.2
Glass Recycling	Scope 3	31.7	68.4	116.0%	36.7
Paper & Board (Mixed) Recycling	Scope 3	46.0	93.3	103.0%	47.3
Homeworking emissions	Scope 3	Not reported	1073.1	n/a	1073.1
Marine Fuel Oil litres	Scope 1	Not reported	56.2	n/a	56.2
Clinical Waste - Other	Scope 3	Not reported	47.5	n/a	47.5
Clothing (Closed loop recycling)	Scope 3	Not reported	2.6	n/a	2.6
Van - Average (up to 3.5 tonnes) Battery Electric Vehicle miles	Scope 1	Not reported	2.3	n/a	2.3
Car - hybrid (average) miles	Scope 1	Not reported	0.9	n/a	0.9
Car - Battery Electric Vehicle (average) miles	Scope 1	Not reported	0.7	n/a	0.7
Landfill gas kWh	Scope 1	Not reported	0.7	n/a	0.7
TOTALS:		27,078	22,475	-17.0%	-4,602