

Intesa Sanpaolo Group 2020

Energy - Emissions conversion factors

		2019	CO ₂ equivalent for GHG						2020	2020	2020
		CO _{2eq}	CO ₂		CH ₄		N ₂ O		CO _{2eq} ^o	NO _x	SO ₂
Area		g/kWh	g/kWh	GWP	g/kWh	GWP	g/kWh	GWP	g/kWh	g/kWh	g/kWh
Electricity (Residual mix)	Italy	480	483	1	0.036	28	0.011	265	487	0.195	0.061
	Central Europe	554	497	1	0.035	28	0.009	265	501	0.654	0.108
	South Mediterranean and Asia	443	485	1	0.011	28	0.002	265	486	0.533	0.484
	South East Europe	496	485	1	0.008	28	0.007	265	487	0.479	0.391
	Central Eastern Europe	333	411	1	0.095	28	0.032	265	422	0.378	0.342
	Other countries	117	318	1	0.032	28	0.004	265	320	0.421	0.423
	Russia	357	369	1	0.009	28	0.004	265	370	0.901	1.448
Area		g/mc	g/mc	GWP	g/mc	GWP	g/mc	GWP	g/mc	g/mc	g/mc
Natural Gas	Italy	1988	1972	1	0.086	28	0.034	265	1984	0.999	0.010
	Central Europe	1932	1920	1	0.171	28	0.003	265	1926	0.033	0.031
	South Mediterranean and Asia	1924	1915	1	0.153	28	0.006	265	1920	0.262	0.091
	South East Europe	1924	1915	1	0.159	28	0.005	265	1921	0.222	0.075
	Central Eastern Europe	1916	1907	1	0.171	28	0.003	265	1913	0.125	0.117
	Other countries	1924	1919	1	0.095	28	0.005	265	1922	4.274	0.464
	Russia	1894	1890	1	0.171	28	0.003	265	1895	7.738	0.184
Area		g/litro	g/litro	GWP	g/litro	GWP	g/litro	GWP	g/litro	g/litro	g/litro
Diesel	Italy	2660	2634	1	0.251	28	0.072	265	2660	1.790	1.678
	Central Europe	2623	2606	1	0.366	28	0.021	265	2621	0.051	0.056
	South Mediterranean and Asia	2460	2445	1	0.277	28	0.016	265	2457	0.526	0.180
	South East Europe	2443	2432	1	0.265	28	0.014	265	2443	0.358	0.122
	Central Eastern Europe	2381	2366	1	0.349	28	0.008	265	2378	0.006	0.004
	Other countries	2460	2571	1	0.193	28	0.019	265	2582	1.049	0.169
	Russia	2267	2262	1	0.181	28	0.004	265	2268	1.393	0.090

Utilized factors are based on:

ABI Energia: Linee guida sull'applicazione in banca degli Standards GRI (Global Reporting Initiative) in materia ambientale - Update 2020

UNFCCC: United Nations Framework Convention on Climate Change

IEA: International Energy Agency

IPCC: Intergovernmental Panel on Climate Change

AIB: Association of Issuing Bodies

EPA: United States Environmental Protection Agency

In 2020 for electricity the residual mix was used as recommended by the ABI Energia Guidelines, if not available the national mix was used

$$^{\circ}\text{CO}_{2\text{eq}} = \text{CO}_2 \cdot \text{GWP} + \text{CH}_4 \cdot \text{GWP} + \text{N}_2\text{O} \cdot \text{GWP}$$