

**ENVIRONMENTAL INVESTMENTS**

	Measurement unit	2019	2018	2017
Air and climate protection	€K	3,894	3,587	3,619
Soil and subsoil protection	€K	137	112	25
Waste and water management	€K	3,603	2,449	2,150
Other environmental protection activities	€K	45	21	10

**ENVIRONMENTAL COSTS**

	Measurement unit	2019	2018	2017
Air and climate protection	€K	2,122	1,465	992
Soil and subsoil protection	€K	6,954	3,696	6,207
Waste and water management	€K	4,487	3,659	1,000
Other environmental protection activities	€K	44	58	22

**ENERGY CONSUMPTION<sup>19</sup>. GRI STANDARD 302-1, GRI STANDARD 302-3**

	Measurement unit	2019	2018	2017
Direct consumption of primary energy from renewable sources (A)	TJ	0	0	0
Direct consumption of primary energy from non-renewable sources (B)	TJ	472.09	458.32	478.7
- of which natural gas (C)	TJ	61.03	13.89	381.4

- of which diesel (D)	TJ	17.90	63.98	79.6
- of which petrol (E)	TJ	25.45	19.37	17.7
Electricity purchased (F)	TJ	100.05	103.27	112.7
Electricity self-produced from renewable sources (G)	TJ	4.97	0.14	0.13
Electricity sold (H)	TJ	4.80	0.07	0.07
<b>Total energy consumption (B+F+G-H)</b>	TJ	<b>572.13</b>	<b>561.59</b>	<b>591.4</b>
<b>Energy intensity*</b>	TJ/10 <sup>6</sup> Sm <sup>3</sup>	<b>0.072</b>	<b>0.072</b>	<b>0.076</b>

\* Total energy consumption out of the total gas distributed

#### ATMOSPHERIC EMISSIONS

	Measurement unit	2019	2018	2017
Natural gas emissions	10 <sup>6</sup> Sm <sup>3</sup>	8.02*	28.2	28
<b>Total GHG emissions</b>		<b>459.08</b>	<b>717.43</b>	<b>657.3</b>
- of which scope I**	10 <sup>3</sup> ton CO <sub>2</sub> eq	166.18	515.07	513.9
- of which scope II		8.79	9.08	10.4
- of which scope III***		284.11	193.29	133.03
Carbon intensity****	tons CO <sub>2</sub> eq /10 <sup>6</sup> Sm <sup>3</sup>	19.88	67.0	66.2
NO <sub>x</sub> emissions	ton	27.42	30.01	32.2

(\* ) The data was recalculated on the basis of the new methodology for calculating the natural gas emissions based on the the Picarro "Cavity Ring-Down Spectroscopy" technology (CRDS), consequently also affecting scope I emissions, total GHG emissions and carbon intensity. Learn more at the paragraph "New methodology for calculating the natural gas emissions".

(\*\*) CO<sub>2</sub>eq emissions were consolidated according to the operational control approach. The GHG gases included in the calculation are CO<sub>2</sub> and CH<sub>4</sub> and emissions were calculated with a methane GWP of 28, as suggested in the scientific study of the Intergovernmental Panel on Climate Change (IPCC) "Fifth Assessment Report IPCC"

(\*\*\*) Includes emissions related to gas supplied, business travel and the launch of new initiatives. As regards the calculation of scope 3 emissions related to supplied gas, Italgas employed an internal methodology that uses a factor to convert the value of supplied gas into CO<sub>2</sub> emissions for each product category.

(\*\*\*\*) Calculated as scope 1 and scope 2 / distributed gas emissions

**TOTAL WASTE FROM PRODUCTION AND RECLAMATION - GRI STANDARD 306-2**

	Measurement unit	<b>2019</b>	<b>2018</b>
Total product waste	ton	647.16	808.64
- <i>of which dangerous</i>	<i>ton</i>	<i>6.36</i>	<i>10.37</i>
- <i>of which non-dangerous</i>	<i>ton</i>	<i>640.80</i>	<i>798.27</i>

Italgas also carries out environmental reclamation and requalification activities that include, along with the reclamation of the environmental matrices related to the site, also the possible demolition of parts of the same and the related disposal of all waste produced.