Environmental Responsibility

Respect for the environment

One of the key principles of our corporate philosophy in Carimali is respect for the environment. In relation to business growth, sensitivity towards this issue has prompted the company to continually reduce the impact that its activities have on the environment directly. This philosophy was awarded in 2013 with the company obtaining ISO 14001 certification, the environmental management standard that establishes the requirements for a proper environmental management system within an organisation.

With a view to reducing paper usage, centralised printers have been introduced, which have considerably reduced the use of paper and toner. Documents are printed on FSC-certified paper, which is not treated with chlorine, and comes from responsibly-managed forests.

All employees in the company commit themselves to complying with the directives on environmental protection: for several years, separate collection recycling has been introduced in the company, placing the appropriate containers in the common spaces and in the cafeteria, and dividing the plastic, paper, aluminium and organic waste.

In the same vein, since 2012 the company has promoted an innovative formula in doing business, giving one of its main contractors the opportunity to establish its own department within Carimali.

Thanks to this zero km contractor-manufacturer supply chain, the company has been able to benefit from many advantages, including reduced environmental impacts on traffic, on CO2 emissions and pollution, and on energy consumption.

Some of the issues that are constantly monitored by the company include:

Air: Carimali does not pollute and does not produce harmful emissions and is committed to a responsible and optimal use of transport vehicles.

Water: among the chosen short-term objectives is the sustainable management of rainwater through the use of infiltration basins.

Lighting: dimmable and programmed lighting systems allow efficient energy savings within the offices. Also the extension for the production department is under evaluation.

Recycling management: special collection and disposal cycles, as well as regular staff training, ensure a properly managed recycling and disposal cycle. Waste material from production is divided by type in order to ensure it is recycled.

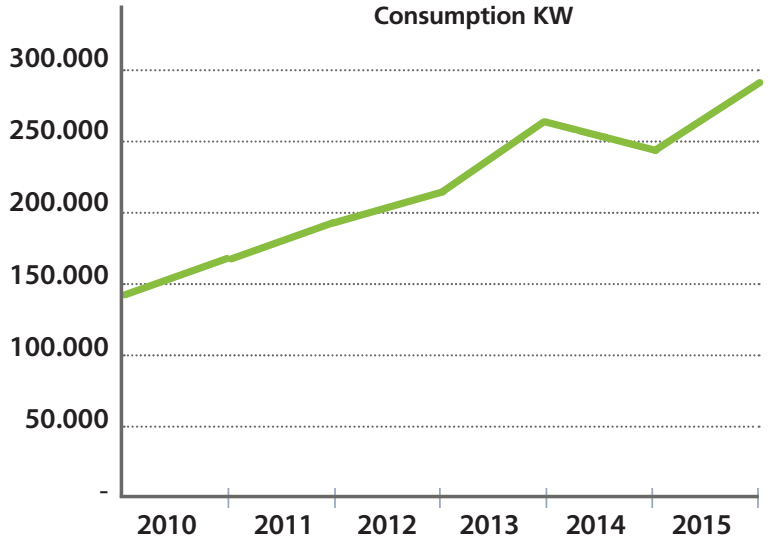
Car fleet: the company vehicles are provided with the most modern techniques for saving fuel and reducing harmful emissions (including Start-Stop, diesel particulate filter etc.).

Energy consumption: for the generation of compressed air, the production departments are equipped with cost optimised state-of-the-art compressors. Heat loss in buildings is minimised thanks to fast-closing doors.
Furthermore, the replacement of the skylights throughout the plant is being evaluated in order to improve the use of natural light with the consequent reduction of artificial light and therefore less energy consumption.

Annual consumption of electricity

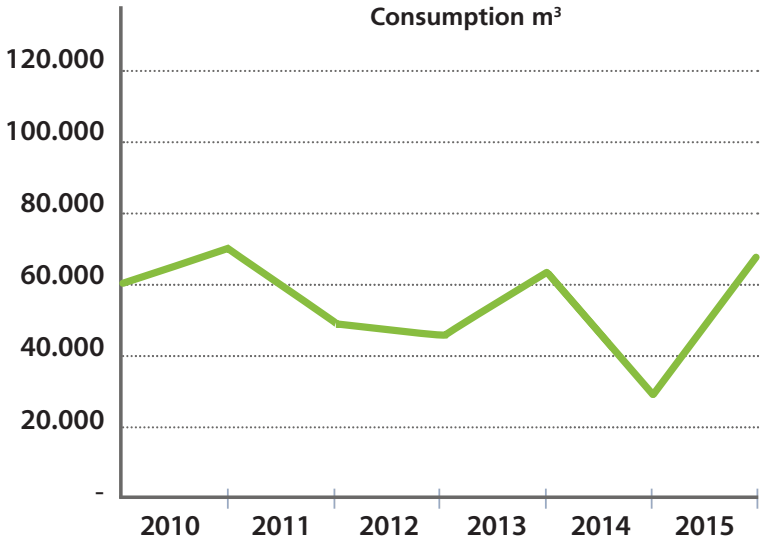
Electricity consumption has recorded a steady increase over the years, due to the signifcant growth of the company in terms of turnover and size. Electricity and compressed natural gas are currently supplied by Unogas Energia S.p.A.

	2010	2011	2012	2013	2014	2015
KW	167.350	195.453	225.964	252.092	249.829	286.957



Annual consumption of compressed natural gas *

	2010	2011	2012	2013	2014	2015
m³	69.249	48.865	45.241	61.914	35.473	69.102



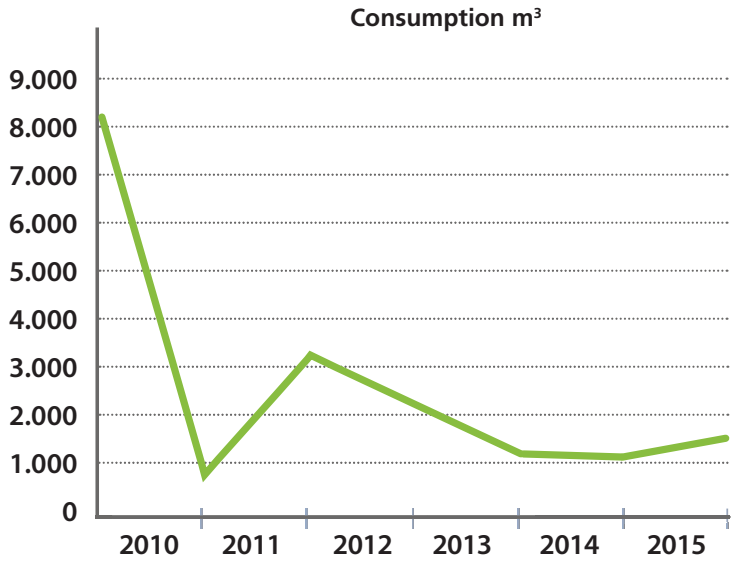
* litres (1 m³) of LPG correspond to 273.9 m³ of LPG

1 m³ of LPG is equal to 4166 litres

Annual consumption of water

The water supply service is provided by Hidrogest S.p.A.. Consumption has decreased signifcantly over the years, as evidenced by the following data:

	2010	2011	2012	2013	2014	2015
m³	775	3.140	2.329	1.283	1.273	1.644



Data relating to the testing department, where water consumption is higher than other departments because the machines are repeatedly tried and tested.

	2015
m³	44,5

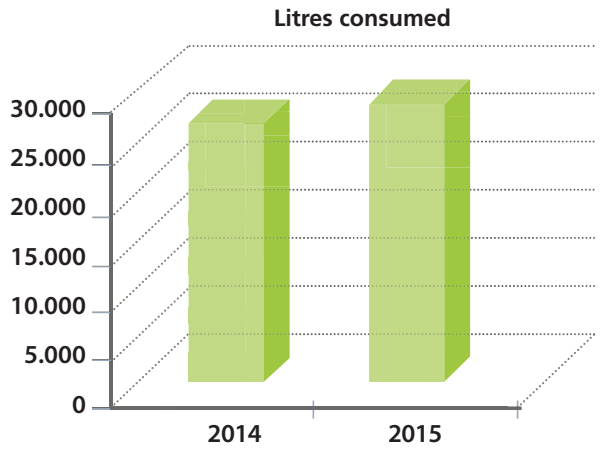

H 10AM
ENJOY
YOUR
BREAK
TWININGS
CARIMALI

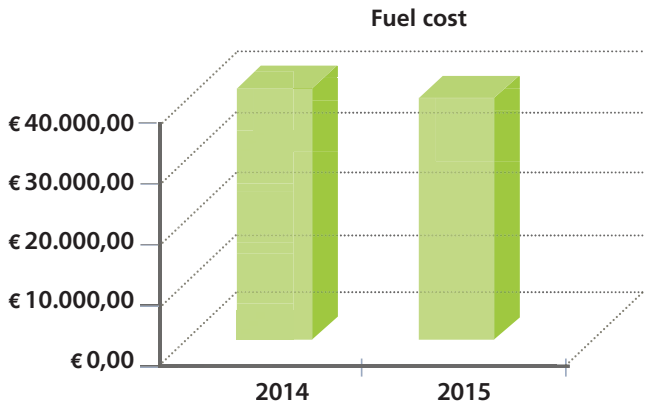
Annual consumption of fuel

At the end of 2015, the company's fleet consisted of 15 diesel cars. There is only one truck used for the collection and delivery of materials.

Litres consumed	2014	2015
Company cars	21.294	21.980
Trucks	3.515	4.202
TOTAL	**24.809**	**26.182**

Fuel cost	2014	2015
Company cars	€ 34.284,00	€ 30.992,00
Trucks	€ 5.659,00	€ 5.925,00
TOTAL	**€ 39.943,00**	**€ 36.917,00**



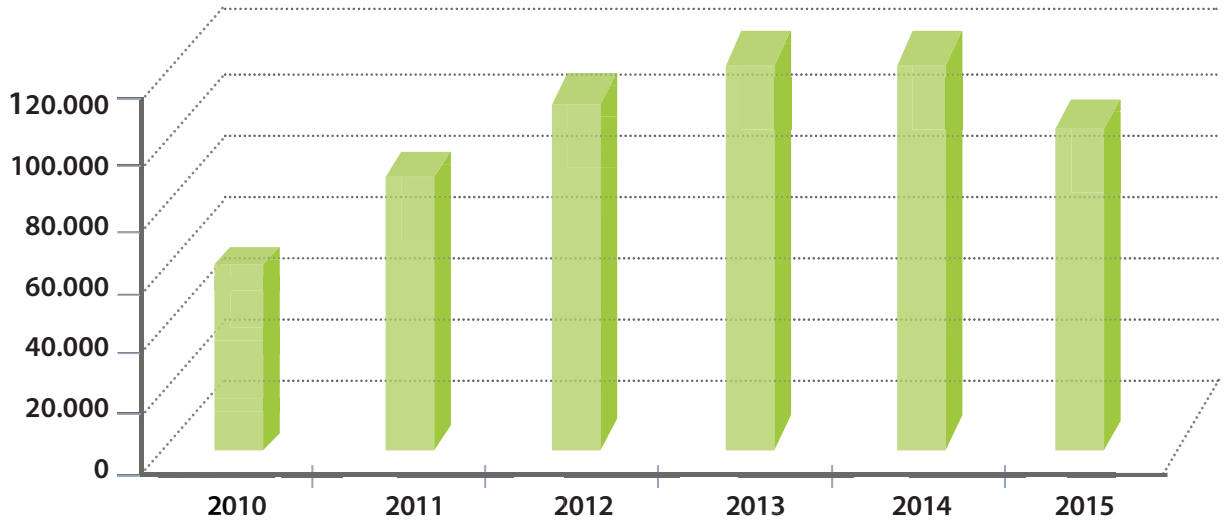


Waste disposal

For years, the production and subsequent disposal of waste in Carimali has concerned only the "non-hazardous" type. Following is the consumption divided by type (EWC code):

Waste annual consumption (Kg)							
CER	**Description**	**2010**	**2011**	**2012**	**2013**	**2014**	**2015**
NON-HAZARDOUS WASTE							
120103	Shavings and turnings of non-ferrous materials	-	-	2.210	-	-	-
150101	Paper and paperboard containers	12.240	16.700	20.040	32.520	32.520	27.260
150103	Wooden crates	-	-	-	-	-	-
150106	Mixed packaging	30.200	50.990	17.340	55.520	65.380	48.520
160214	Out of use app. other than those referred to under 160109 and 160213	-	185	1.802	-	-	-
160216	Components removed from out of use app. other than those referred to under 160215	-	-	-	-	-	-
170203	Plastic	-	-	-	-	-	-
170401	Copper, bronze, brass	240	42	2.348	-	-	-
170402	Aluminium	550	90	-	-	-	-
170405	Iron and steel	2.940	8.940	61.729	22.360	13.980	4.760
170407	Mixed metals	-	-	-	1.412	4.880	6.148
170411	Cables other than those referred to under 170410	20	-	-	-	-	-
080318	Toner cartridge waste	-	-	-	-	-	150
TOTALE KG WASTE		46.190	76.947	103.259	111.912	116.460	86.838

Annual consumption of non-hazardous waste (KG)



TOE performance (Tonne of Oil Equivalent)

TOE is a unit of measure introduced to facilitate the comparison between different energy sources and oil. It indicates the amount of energy released by burning one tonne of crude oil.

Product	Equivalence in TOE	Quantity consumed/Value in TOE per year					
		2013		2014		2015	
		UM	TEP	UM	TEP	UM	TEP
LIQUID FUELS		**Lt**		**Lt**		**Lt**	
Fuel	1000 Lt=1,08 TEP	24634	26,60	24809	26,80	26182	28,27
GASEOUS FUELS		**m³**		**m³**		**m³**	
Compressed natural gas	1000 Nm^3=0,82 TEP	61914	50,76	41332	33,89	69102	56,66
ELECTRICITY		**MWh**		**MWh**		**MWh**	
Low voltage supplied KW	1 MWh=0,25 TEP	252,00	63,00	249,80	62,45	286,95	71,74

Machines and energy saving

The company focus on issues such as energy saving and consumption reduction is also transferred into the development of machines. All of the latest-generation superautomatic machine models are equipped with MaxSave, a sophisticated technology that allows significant energy savings during use. Thanks to a sensor which is able to detect the presence of a user near the machine, the system regulates the temperature of the boilers inside the machine so as to reduce electricity consumption and at the same time ensure almost instant availability of beverages once a drink is selected.