

**Safety and environmental assessment 2016
Report**


Safety and environmental assessment 2016 Report

CONFIDENTIAL

00	27.02.2017	FOR INFORMATION	<i>Kopitzová</i> Kopitzová	<i>Fuchsová</i> Fuchsová	<i>Silva</i> Silva
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CASALE PROJECT a.s., Sokolovská 685/136f, 186 00 Prague 8, Id no. 24693227, registered by the Municipal Court in Prague under file No. B 16266

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1 GENERAL

With effect from 1st December 2016 CHEMOPROJECT NITROGEN a.s. changed its name to CASALE PROJECT a.s. (CP).

This assessment is addressed to the public and other interested parties to provide information about impact of CP activities to health of employees and environment.


2 REVIEW OF ACCIDENT IN YEAR 2016

Review of accidents in CP (office and site)		2016	2015	2014	2013	2012
1.	Number of employees (average per year)	154	151	154	134	35
2.	Number of worked hours per year	288 830	279 934	253 274	230 797	64 045
3.	Number of fatal accidents	1	0	0	0	0
4.	Number of accidents with absence	1	0	1	1	0
5.	Number of accidents without absence	0	1	1	0	0
6.	Number of accidents without absence with medical treatment	2	0	1	0	0
7.	Sum of accidents	4	1	2	1	0
8.	Number of days of absence	28	0	75	45	0
9.	Frequency of accidents [f]	13,85	3,57	7,90	4,33	0
10.	Number of accidents per 1000 employees	25,97	6,62	12,99	7,46	0

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Review of accidents in Site (subcontractors)		1G0098N		1E0115N		
		2016	2015	2016	2015	2014
1.	Number of worked hours per year	111 635	10 640	6 985	135 907	56 626
2.	Number of fatal accidents	0	0	0	0	0
3.	Number of accidents with absence	0	0	0	0	0
4.	Number of accidents without absence	4	2	0	0	0
5.	Number of accidents without absence with medical treatment	1	0	0	0	0
6.	Sum of accidents	5	2	0	0	0
7.	Number of days of absence	0	0	0	0	0
8.	Frequency of accidents [f]	44,79	187,97	0	0	0

$$f = \frac{\text{Sum of accidents} \times 10^6}{\text{No. of working hours for all employees}}$$

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3 IMPACT OF OFFICES OPERATION TO ENVIRONMENT

3.1 Administrative activities in 2016

The administration activities represent daily operation of offices in Prague, Litvínov and Brno.

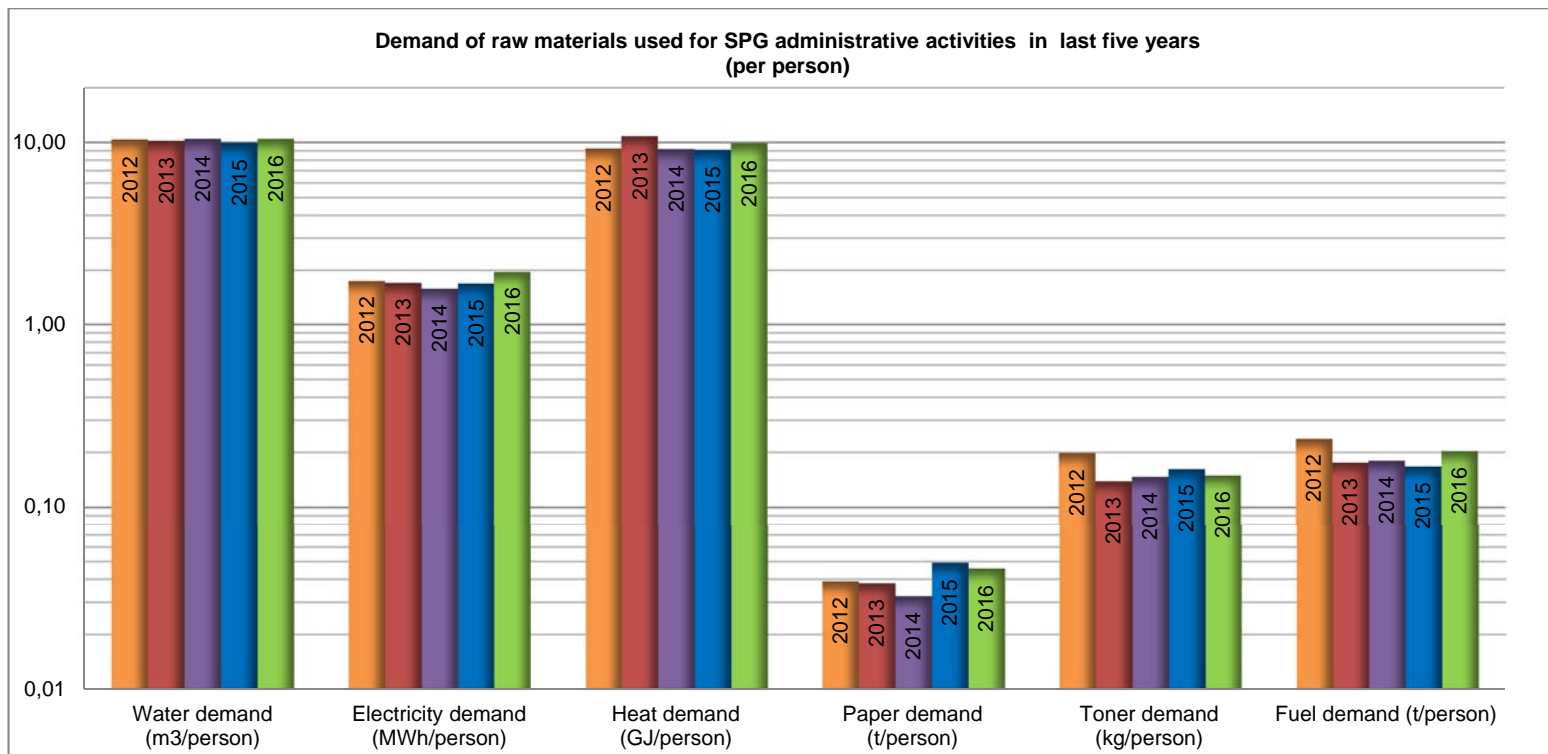
- In Prague office the average number of employees was 116.
- In Litvínov office the average number of employees was 32.
- In Brno office the average number of employees was 6.

The average number of employees in 2016 was 154.

Key indicators:	Water	Energy efficiency		Material efficiency		
	Water demand (m ³ .y ⁻¹)	Electricity demand (MWh.y ⁻¹)	Heat demand (GJ.y ⁻¹)	Paper demand (t.y ⁻¹)	Toner demand (t.y ⁻¹)	Fuel demand (t.y ⁻¹)
Prague (per person)	1336 11,5	209,86 1,8	939,6 8,1	6,34 0,05	-	-
Litvínov (per person)	240 7,5	30,34 0,9	579,59 18,1	0,69 0,02	-	-
Brno (per person)*	36 6	61,63 10,3	- -	*See Prague	-	-
TOTAL (per person)	1612 10,47	301,82 1,96	1519,19 9,86	7,03 0,05	0,0230 0,0001	31,19 0,20

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3.2 CO₂ production of key indicators

The CO₂ production key indicator is counted from total heat, electricity and gas demand of CP:

Heat consumption expressed as CO₂ emission is: 153.6 t CO₂ per year.

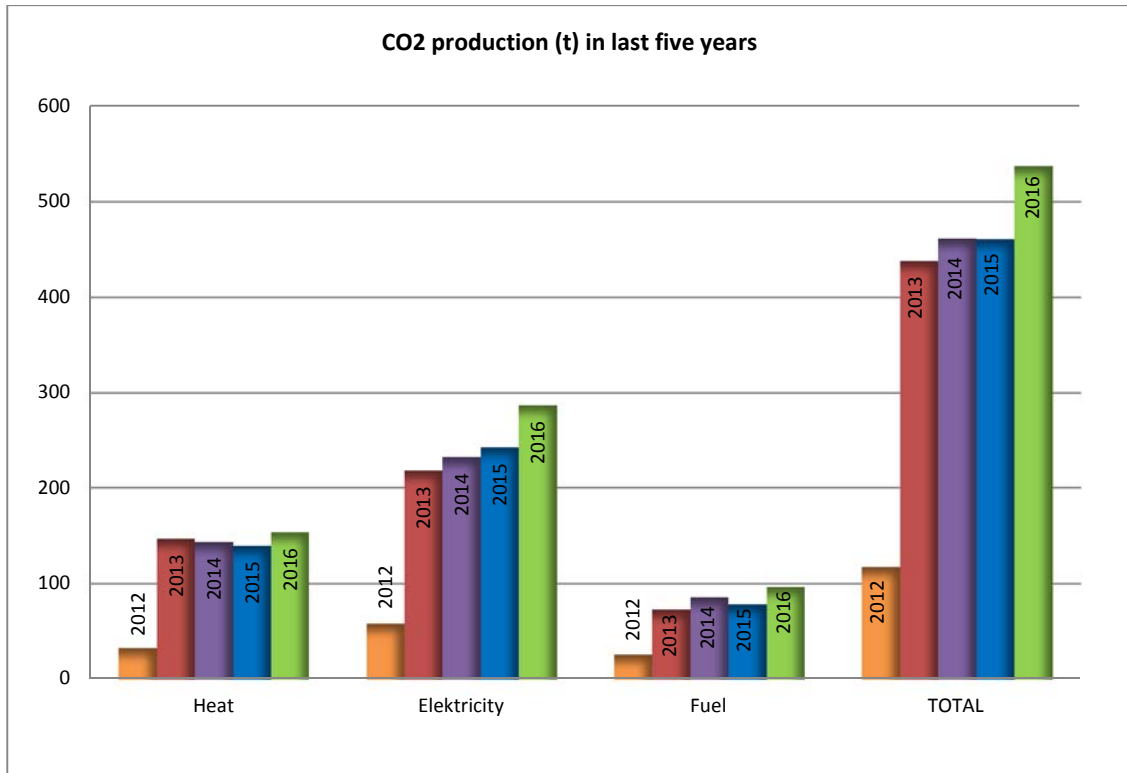
Electricity consumption expressed as CO₂ emission is: 286.7 t CO₂ per year.

Car fuel consumption expressed as CO₂ emission is: 96.8 t CO₂ per year.

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The total CO₂ production is app. 537 metric tons in CP per year 2016.



3.3 Waste production

According to the internal rule procedure must be separated:

- paper for shredding and junk paper,
- plastics,
- glass,
- metals.

Wastes from CP offices are included in lease agreement and therefore are not evaluated.