

MATERIAL
ISSUES

HEALTH
& SAFETY

Social Performance

Occupational Health and Safety

The injury rates reported in the Sustainability Report are:

- Lost Time Injury Frequency Rate (LTIFR) which measures the frequency of injuries causing absences from work;
- Total Injury Frequency Rate (TIFR) which also measures the frequency of injuries not causing absences from work;
- Severity Rate (SR) which, along with the average duration, provides details of the seriousness of recorded injuries.

The rates refer to all our business activities: cement, concrete and aggregates, terminals, transport, offices, laboratories and headquarters. Starting from 2015, the scope of these rates includes employees of the

Group as well as employees of contractors and tendered service providers.

In 2019, Buzzi Unicem recorded a fatal injury involving a worker of a contractor at the Dallas terminal in the US. The analysis of the causes and identification of the corrective actions necessary to avoid repetition of such injuries began immediately.

After the fatal accident that occurred last year, Italy launched a new Objective Safety project with the aim of increasing the involvement of staff, implementing and collecting new proposals for improving awareness of risks, amending certain procedures that are currently applied, and carrying out interventions to reduce the residual risks in cement plants to a minimum.

The following table summarizes the indicators relating to the year 2019:

	Total Buzzi Unicem group	Cement			Concrete			Other businesses		
		Em- ployees	Contra- ctors	Total	Em- ployees	Contra- ctors	Total	Em- ployees	Contra- ctors	Total
Fatal injuries ⁽¹⁾	1	0	0	0	0	0	0	0	1 ⁽¹⁾	1
Injuries causing absences from work	152	36	32	68	42	29	71	12	1	13
Lost days	8,649	2,556	1,271	3,827	3,346	888	4,234	583	6	589
LTIFR ⁽²⁾	5.8	3.4	6.8	4.5	11.2	10.9	11.1	2.9	2.2	2.8
TIFR ⁽³⁾	11.8	11.2	11.8	11.4	20.3	12.1	16.9	6.5	4.4	6.3
SR ⁽⁴⁾	0.33	0.24	0.27	0.25	0.89	0.34	0.66	0.14	0.01	0.13
Average duration	57	71	40	56	80	31	60	49	6	45

The frequency rate (LTIFR) at the group level fell by 9% to 5.8 (6.4 in 2018) with the number of injuries virtually unchanged compared to 2018.

Overall improvements in the cement sector with injuries causing absences from work went down to 68 (30% less compared to 2018). In particular, the cement plant in Poland recorded zero injuries among employees and contractors. The injury rates for concrete remained higher than those for cement during the course of 2019.

A slight worsening of the number of injuries for contractors in Germany but no injuries among employees and contractors in Poland, Slovakia and Ukraine. The TIFR fell to 11.8 (15.4 in 2018), an improvement of 23%. The severity rate (SR) was 0.33 (0.19 in 2018). The average duration of injuries, has increased from 30 to 57 days. Both increases are due to the new accounting of lost days (calendar days and not only working days).

⁽¹⁾ Fatal accident in the Dallas terminal (USA).

⁽²⁾ LTIFR = Lost Time Injury Frequency Rate = total number of injuries causing absences from work divided by hours worked and multiplied by 1 million.

⁽³⁾ TIFR = Total Injury Frequency Rate = total number of injuries causing and not causing absences from work divided by hours worked and multiplied by 1 million.

⁽⁴⁾ SR = Severity Rate = number of days lost divided by hours worked and multiplied by 1,000.

The following table shows the comparison between the cement business of the Buzzi Unicem group and that of BCPAR in Brazil:

	Buzzi Unicem group (scope: only cement)			BCPAR (scope: only cement)		
	Employees	Contractors	Total	Employees	Contractors	Total
Fatal injuries	0	0	0	0	0	0
Injuries causing absences from work	36	32	68	1	2	3
Lost days	2,556	1,271	3,827	1	78	79
LTIFR ⁽²⁾	3.4	6.8	4.5	0.8	1.6	1.2
TIFR ⁽³⁾	11.2	11.8	11.4	16.2	32.0	24.1
SR ⁽⁴⁾	0.24	0.27	0.25	0.001	0.06	0.03
Average duration	71	40	56	1	39	26

The two following tables show the comparison between the cement and concrete businesses of the Buzzi Unicem group and those of Corporación Moctezuma in Mexico:

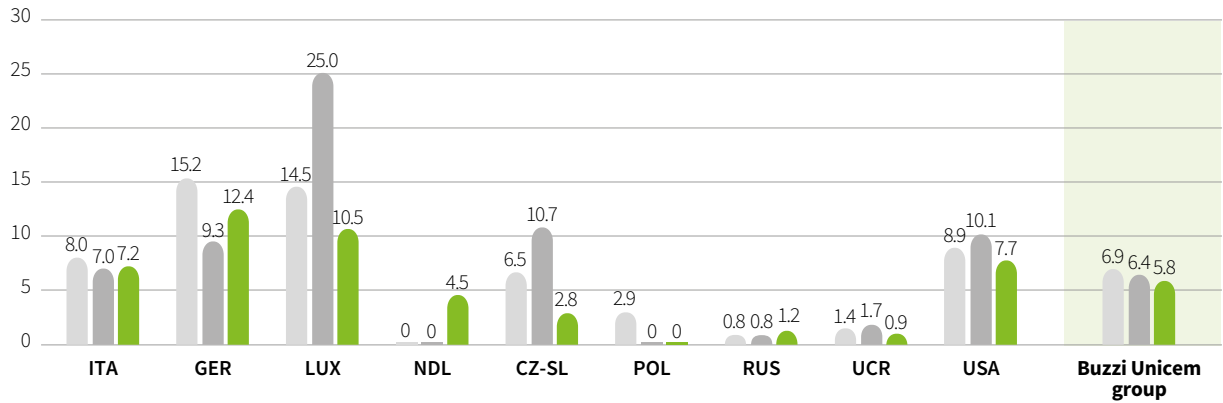
	Buzzi Unicem group (scope: only cement)			Corporación Moctezuma (scope: only cement)		
	Employees	Contractors	Total	Employees	Contractors	Total
Fatal injuries	0	0	0	0	0	0
Injuries causing absences from work	36	32	68	2	10	12
Lost days	2,556	1,271	3,827	14	564	578
LTIFR ⁽²⁾	3.4	6.8	4.5	1.6	4.3	3.3
TIFR ⁽³⁾	11.2	11.8	11.4	3.9	12.4	9.4
SR ⁽⁴⁾	0.24	0.27	0.25	0.01	0.24	0.16
Average duration	71	40	56	7	56	48

	Buzzi Unicem group (scope: only concrete)			Corporación Moctezuma (scope: only concrete)		
	Employees	Contractors	Total	Employees	Contractors	Total
Fatal injuries	0	0	0	0	0	0
Injuries causing absences from work	42	29	71	7	0	7
Lost days	3,346	888	4,234	224	0	224
LTIFR ⁽²⁾	11.2	10.9	11.1	4.8	0	2.7
TIFR ⁽³⁾	20.3	12.1	16.9	8.9	0	5.0
SR ⁽⁴⁾	0.89	0.34	0.66	0.15	0	0.09
Average duration	80	31	60	32	0	32

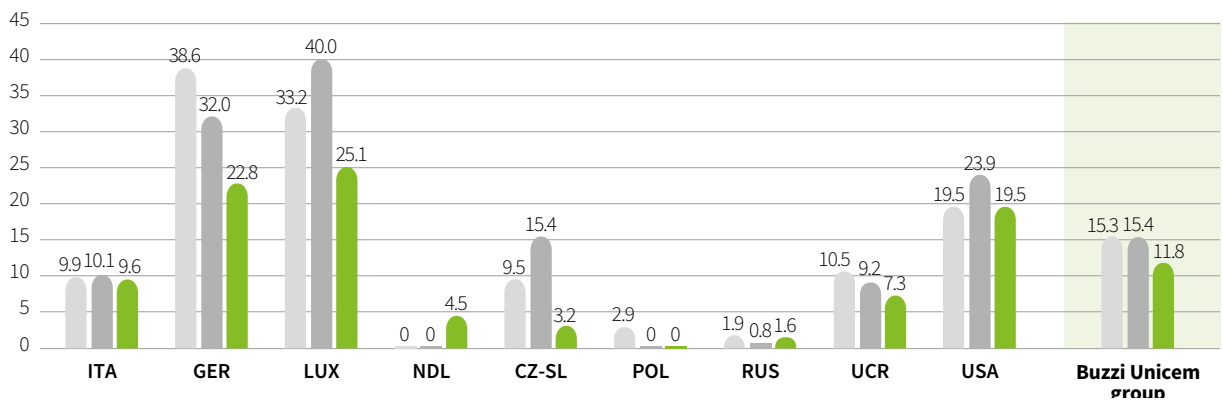


LTI FR (Lost Time Injuries Frequency rate, only with absences from work)

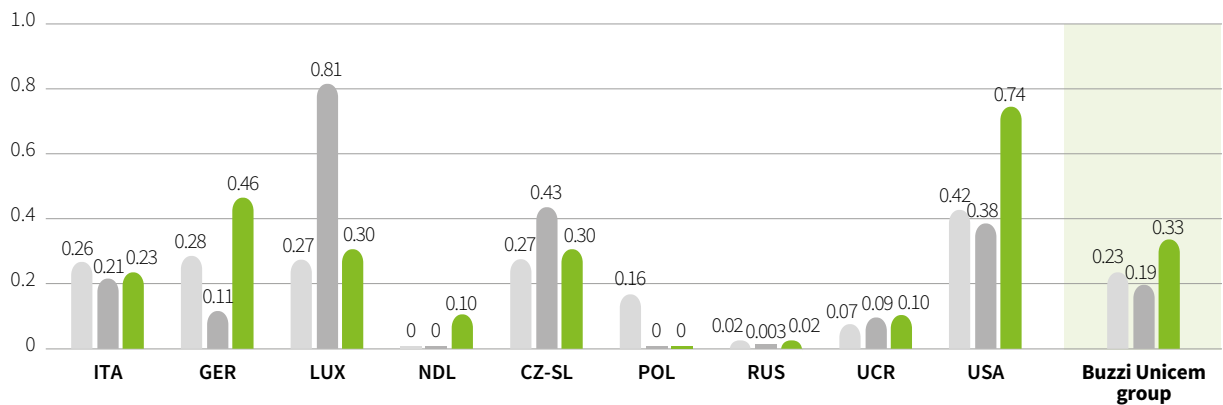
● 2017 ● 2018 ● 2019



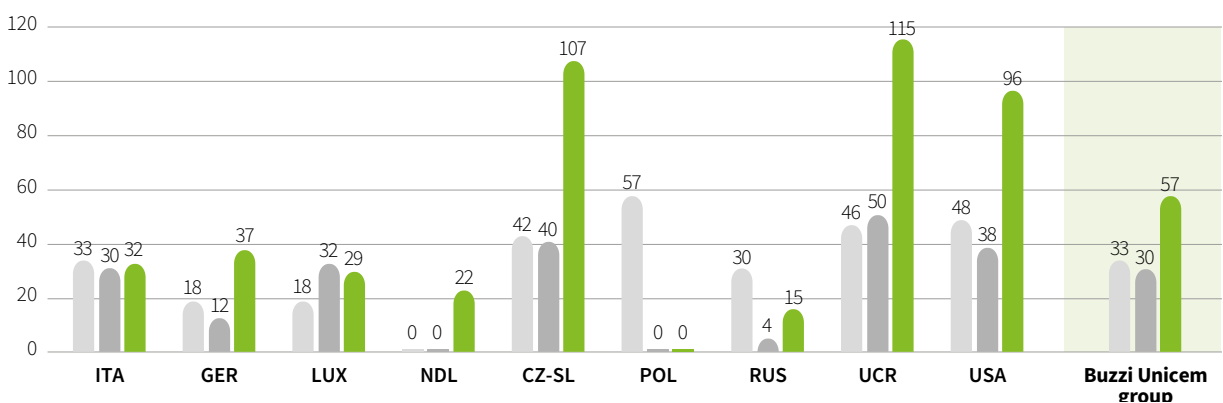
TIFR (Total Injuris Frequency rate, with and without absences from work)



SR (Severity Rate)



TA (average injuries duration in days)



Diagrams scope: employees and suppliers, all businesses (cement, aggregates, concrete, terminals, transport and offices/laboratories/premises).



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