

Sustainability Statement

Performance Indicators
2024

KPI	Unit	2024	2023	2022
Production				
Cast steel (100% electric arc furnace)	Million tons	3.7	3.9	3.9
Seamless pipes	Million tons	3.2	3.2	3.3
Welded pipes	Million tons	0.8	1.0	0.5
Safety				
Investments in health and safety	USD million	35	24	20
Million hours worked	Employees and contractors	73	72	67
	Employees	53	53	50
	Contractors	20	19	17
Safe hours held	Hours	39,609	50,850	53,200
Opportunities ratio	Rate	1.5	2.6	2.5
Total Injury Frequency Rate	Employees and contractors	4.4	6.3	6.0
	Employees	4.3	6.8	6.6
	Contractors	4.6	5.0	4.2
Injury Frequency Rate	Employees and contractors	2.3	3.2	3.1
	Employees	2.4	3.5	3.4
	Contractors	1.9	2.3	2.2
Lost Time Injury Frequency Rate	Employees and contractors	0.8	1.2	0.9
	Employees	0.9	1.2	1
	Contractors	0.7	1.1	0.5
Major Injury Frequency Rate	Employees and contractors	0.19	0.52	0.33
	Employees	0.15	0.51	0.36
	Contractors	0.30	0.58	0.24
Fatalities as a result of work-related injury	Employees number	2	0	0
	Employees rate	0.04	0	0
	Contractors number	0	3	0
	Contractors rate	0	0.2	0
Near Miss Frequency Rate	Employees and contractors	12	13	13
	Employees	13	15	14
	Contractors	9	7	9
High Potential Events Frequency Rate (Severity 4)	Employees and contractors	2.7	3.0	3.3
	Employees	2.9	3.4	3.6
	Contractors	1.9	2.0	2.4
Environment				
Investments in environment and energy savings	USD million	207	191	110
CO2 Emissions				
Scope 1	CO2-eq million tons	2.0	2.1	2.1
Scope 2 - Market based	CO2-eq million tons	0.9	1.0	1.1
Scope 2 - Location based	CO2-eq million tons	1.1	1.1	1.1
Scope 3 - Category 1 - Purchased goods and services	CO2-eq million tons	3.2	3.6	3.2
Scope 3 - Category 3 - Fuel and energy-related activities	CO2-eq million tons	0.4	0.4	0.4
Scope 3 - Category 4 - Upstream transportation and distribution	CO2-eq million tons	0.1	0.1	0.1

KPI	Unit	2024	2023	2022
Scope 3 - Category 9 - Intermill transport of steel bars and green pipes	CO2-eq million tons	0.2	0.1	0.1
Scope 3 - Category 9 - Downstream transportation and distribution (not including intermill)	CO2-eq million tons	0.6	0.6	0.6
Total GHG emissions (Market based) (Scope 1, 2 & 3 all categories reported on the inventory)	CO2-eq million tons	7.4	7.9	7.6
Total GHG emissions (Location based) (Scope 1, 2 & 3 all categories reported on the inventory)	CO2-eq million tons	7.6	8.0	7.6
Intensity	tons CO2-eq/ton steel	1.31	1.33	1.33
Intensity vs. 2018	%	-15	-14	-14
Scope 1 emissions from all sites covered under regulated emissions trading schemes or carbon tax regulations	%	87	87	88
Tubular operations GHG emissions (Market based) per net revenue	tons CO2eq/USD million	590	545	646
Tubular operations GHG emissions (Location based) per net revenue	tons CO2eq/USD million	605	551	646
Oilfield services Scope 1	CO2-eq ton	64,262	NA	NA
Oilfield services Scope 2 (Market based)	CO2-eq ton	49	NA	NA
Oilfield services Scope 2 (Location based)	CO2-eq ton	49	NA	NA
Recycling content in our steel	%	82	79	77
Air emissions				
Particulate material emissions	g/ton steel cast	17	14	13
Nitrogen oxides emissions	Kg/ton product	0.8	0.7	0.8
Sulfur oxides emissions	Kg/ton product	0.15	NA	NA
Volatile organic compound emissions from pipe & coupling varnishing	g/ton product	264	239	221
Energy management				
Total energy consumed (excluding oilfield services)	Terajoules (TJ)	39,335	40,123	48,689
-of which natural gas	TJ	25,112	25,772	33,910
-of which coal	TJ	1,709	1,828	1,917
-of which non-renewable electricity	TJ	9,111	10,378	11,851
-of which renewable electricity purchased from the grid	TJ	1,063	1,280	615
-of which renewable electricity self-generated	TJ	1,757	411	0
-of which nuclear sources	TJ	0	0	0
-of which other (e.g., diesel and gasoline)	TJ	582	455	396
Total energy consumed from fossil fuels	%	93	96	99
Total energy consumed from renewable sources	%	7	4	1
Electricity consumption supplied from grid	%	71	80	86
Electricity generated and sold (non-renewable)	TJ	525	468	317
Electricity generated and sold (renewable)	TJ	0	0	0
Total electricity consumption	GWh	3,977	4,023	4,036
Consumption of renewable electricity (per TS market decision)	GWh	784	470	171

KPI	Unit	2024	2023	2022
Self-generation of non-renewable electricity	GWh	802	801	662
Self-generation of renewable electricity	GWh	488	114	0
Share of renewables in total electricity consumption	%	20	12	4
Energy intensity from all sites	GJ/ton processed steel	8	8	10
Tubular operations energy consumption per net revenue	TJ/USD million	3.1	2.7	4.1
Oilfield services energy consumption	TJ	865	NA	NA
Water management				
Water withdrawal tubular operations and oilfield services	Million m3	65.4	64.5	53.0
-of which surface	%	74	78	74
-of which subsurface	%	22	20	23
-of which network	%	4	3	4
Intensity of water withdrawal tubular operations	m3 water /ton pipe	15	16	16
Intensity of water withdrawal excluding Siderca	m3 water /ton pipe	4	4	5
Estimated water consumed tubular operations	m3 water /ton pipe	2	2	3
Water withdrawal from high or extremely high baseline water stress	%	0.6	0.3	1.2
Estimated water consumption tubular operations and oilfield services	Million m3	11.8	8.6	9.0
Estimated water consumption in areas with high or extremely high-water stress tubular operations	Million m3	0.3	0.2	0.4
Estimated water consumption per net revenue	m3 per USD million	944	579	763
Oilfield services water intake	Million m3	2.6	NA	NA
Oilfield services water discharge	Million m3	0	NA	NA
Oilfield services water consumption	Million m3	2.6	NA	NA
Waste management				
Material efficiency at sites w/steelshops	%	98.8	98.2	97.8
Residue & co-products reuse or recycle at all sites	ton	849,936	877,958	793,850
Residue & co-products reuse or recycle at all sites (maximum recycling considered equal to generation)	%	85.6	87.7	82.1
Waste disposal at all sites	ton	73,339	84,618	102,799
Waste and co-products disposal at all sites	%	9.7	9.1	10.8
Total tons of wastes and co-products generated (scrap not included)	ton	958,773	928,168	953,882
Total hazardous wastes generated	ton	134,100	122,437	117,926
Total non-hazardous wastes generated	ton	824,672	805,731	835,956
Total amount of radioactive waste generated	ton	0	0	NA
Total amount of waste sent to incineration	ton	813	2,458	NA
Human Capital				
Employees at year end				
Shop floor	People	19,663	22,712	19,765
-of which male	People	18,642	21,547	18,788

KPI	Unit	2024	2023	2022
-of which female	People	1,021	1,165	977
-of which male	%	95	95	95
-of which female	%	5	5	5
Professional	People	6,211	6,422	5,527
-of which male	People	4,336	4,499	3,868
-of which female	People	1,875	1,923	1,659
-of which male	%	70	70	70
-of which female	%	30	30	30
Total employees (full-time)	People	25,874	29,134	25,292
-of which male	People	22,978	26,046	22,656
-of which female	People	2,896	3,088	2,636
-of which male	%	89	89	90
-of which female	%	11	11	10
Trainees (part-time)	People	590	754	590
-of which male	People	312	413	293
-of which female	People	278	341	297
-of which male	%	53	55	50
-of which female	%	47	45	50
Senior managers by gender				
Total	People	1,140	1,098	1,016
Male	People	969	949	885
Female	People	171	149	131
Male	%	85	86	87
Female	%	15	14	13
Age ranges				
Employees up to 30	People	5,816	7,480	6,555
-of which male	People	4,776	6,318	5,566
-of which female	People	1,040	1,162	989
-of which male	%	82	84	85
-of which female	%	18	16	15
Employees between 31 and 50	People	15,317	16,788	14,623
-of which male	People	13,815	15,225	13,274
-of which female	People	1,502	1,563	1,349
-of which male	%	90	91	91
-of which female	%	10	9	9
Employees over 50	People	4,741	4,866	4,114
-of which male	People	4,387	4,503	3,816
-of which female	People	354	363	298
-of which male	%	93	93	93
-of which female	%	7	7	7
Average age of workforce	Years	40	39	39
Age ranges for professional employees				
Professionals up to 30	People	1,434	1,481	1,247
-of which male	People	823	846	725
-of which female	People	611	635	522
-of which male	%	57	57	58
-of which female	%	43	43	42

KPI	Unit	2024	2023	2022
Professionals between 31 and 50	People	3,644	3,814	3,386
-of which male	People	2,626	2,768	2,449
-of which female	People	1,018	1,046	937
-of which male	%	72	73	72
-of which female	%	28	27	28
Professionals over 50	People	1,133	1,127	894
-of which male	People	887	885	694
-of which female	People	246	242	200
-of which male	%	78	79	78
-of which female	%	22	21	22
Age ranges for shop-floor employees				
Shop floor up to 30	People	4,382	5,999	5,308
-of which male	People	3,953	5,472	4,841
-of which female	People	429	527	467
-of which male	%	90	91	91
-of which female	%	10	9	9
Shop floor between 31 and 50	People	11,673	12,974	11,237
-of which male	People	11,189	12,457	10,825
-of which female	People	484	517	412
-of which male	%	96	96	96
-of which female	%	4	4	4
Shop floor over 50	People	3,608	3,739	3,220
-of which male	People	3,500	3,618	3,122
-of which female	People	108	121	98
-of which male	%	97	97	97
-of which female	%	3	3	3
Age ranges for senior managers				
Senior managers up to 30	People	8	4	1
Senior managers up to 30	%	1	0	0
-of which male	People	7	3	0
-of which female	People	1	1	1
-of which male	%	88	75	0
-of which female	%	12	25	100
Senior managers between 31 and 50	People	766	776	725
Senior managers between 31 and 50	%	67	71	71
-of which male	People	638	656	619
-of which female	People	128	120	106
-of which male	%	83	85	90
-of which female	%	17	15	10
Senior managers over 50	People	366	318	290
Senior managers over 50	%	32	29	29
-of which male	People	324	290	266
-of which female	People	42	28	24
-of which male	%	89	91	90
-of which female	%	11	9	10
Female to male actual total compensation per professional employee category	Ratio	0.95	0.96	0.97

KPI	Unit	2024	2023	2022
Training				
Training hours per professional employee	Hours	37	37	34
Training hours per shop-floor employee	Hours, including on-the-job training	85	105	144
Training hours per shop-floor employee	Hours, excluding on-the-job training	32	39	46
Hours of training	Million hours	1.9	2.4	2.8
Employees by country				
Mexico	People	6,042	7,500	5,919
Argentina	People	5,811	6,267	6,444
U.S.	People	3,583	3,882	3,509
Italy	People	2,140	2,187	2,136
Romania	People	1,885	1,884	1,847
Brazil	People	1,405	1,492	1,460
Canada	People	1,197	1,195	944
Indonesia	People	911	1,573	495
Colombia	People	893	1,112	1,183
Saudi Arabia	People	759	849	427
Other	People	1,248	1,193	928
Employees by nationality				
Mexican	People	6,447	7,850	6,201
Argentine	People	6,006	6,462	6,617
U.S.	People	2,751	3,057	2,889
Italian	People	2,106	2,145	2,096
Romanian	People	1,915	1,911	1,873
Brazilian	People	1,428	1,509	1,473
Canadian	People	1,096	1,107	862
Colombian	People	935	1,156	1,201
Indonesian	People	913	1,557	491
Saudi Arabian	People	351	434	256
Others	People	1,926	1,946	1,333
Mexican	%	25	27	25
Argentine	%	23	22	26
U.S.	%	11	10	11
Italian	%	8	7	8
Romanian	%	7	7	7
Brazilian	%	6	5	6
Canadian	%	4	4	3
Colombian	%	4	4	5
Indonesian	%	4	5	2
Saudi Arabian	%	1	1	1
Others	%	7	7	5
Senior managers by nationality				
Argentine	People	407	408	395
Mexican	People	181	172	153
Italian	People	170	168	159
U.S.	People	73	70	51
Romanian	People	67	59	52

KPI	Unit	2024	2023	2022
Brazilian	People	52	53	47
Colombian	People	29	28	24
Canadian	People	26	22	19
Uruguayan	People	22	20	18
Others	People	113	98	98
Argentine	%	36	37	39
Mexican	%	16	16	15
Italian	%	15	15	16
U.S.	%	6	6	5
Romanian	%	6	5	5
Brazilian	%	5	5	5
Colombian	%	3	3	2
Canadian	%	2	2	2
Uruguayan	%	2	2	2
Others	%	10	9	10

Other human capital indicators

Number of nationalities represented in the employee population	Number	101	103	100
Employees covered by collective bargaining agreements	%	68	72	71
Resignation rate	% All employees	4.4	5.0	6.2
Resignation rate	% Professional employees	3.8	4.2	6.2
New hires	People	2,573	3,664	6,458
GTs new hires	People	162	251	316
GTs new hires – Male	People	98	148	196
GTs new hires – Female	People	64	103	120
GTs new hires – Male	%	60	59	62
GTs new hires – Female	%	40	41	38
Total number of employees who left during the reporting period	People	5,677	3,019	3,920
Rate of employee turnover during the reporting period	%	21	12	16

Community

Education investment	USD millions	14.2	13.1	10.0
COVID-19 fund	USD millions	-	-	0.4
Other community investment	USD millions	3.7	2.4	3.0
Total community investment	USD millions	17.9	15.5	13.4
Roberto Rocca Technical School students	N° of students	452	444	436
Roberto Rocca Technical School students trained from other schools	N° of students	1,390	830	526
Roberto Rocca Technical Gene	N° of students	6,230	5,196	3,216
Roberto Rocca Technical Gene	N° of teachers	206	148	328
Roberto Rocca After School Program	N° of students	1,846	2,026	1,482
Roberto Rocca Education Program University & PhD	N° of students	494	527	542
Roberto Rocca Scholarships Program High school	N° of students	1,941	1,325	1,843



We appreciate your interest in our sustainability practices, and invite you to explore our full Sustainability Statement, part of our Annual Report on our website.

