

> DISCLAIMER 102-1

INFORMATION ABOUT VOLCAN COMPAÑÍA MINERA S.A.A.'S BUSINESS ACTIVITIES IN 2017. REGARDLESS OF THE ISSUER'S LIABILITY, THE UNDERSIGNED **ARE RESPONSIBLE FOR THE CONTENT HEREIN, IN ACCORDANCE WITH APPLICABLE LAWS."**

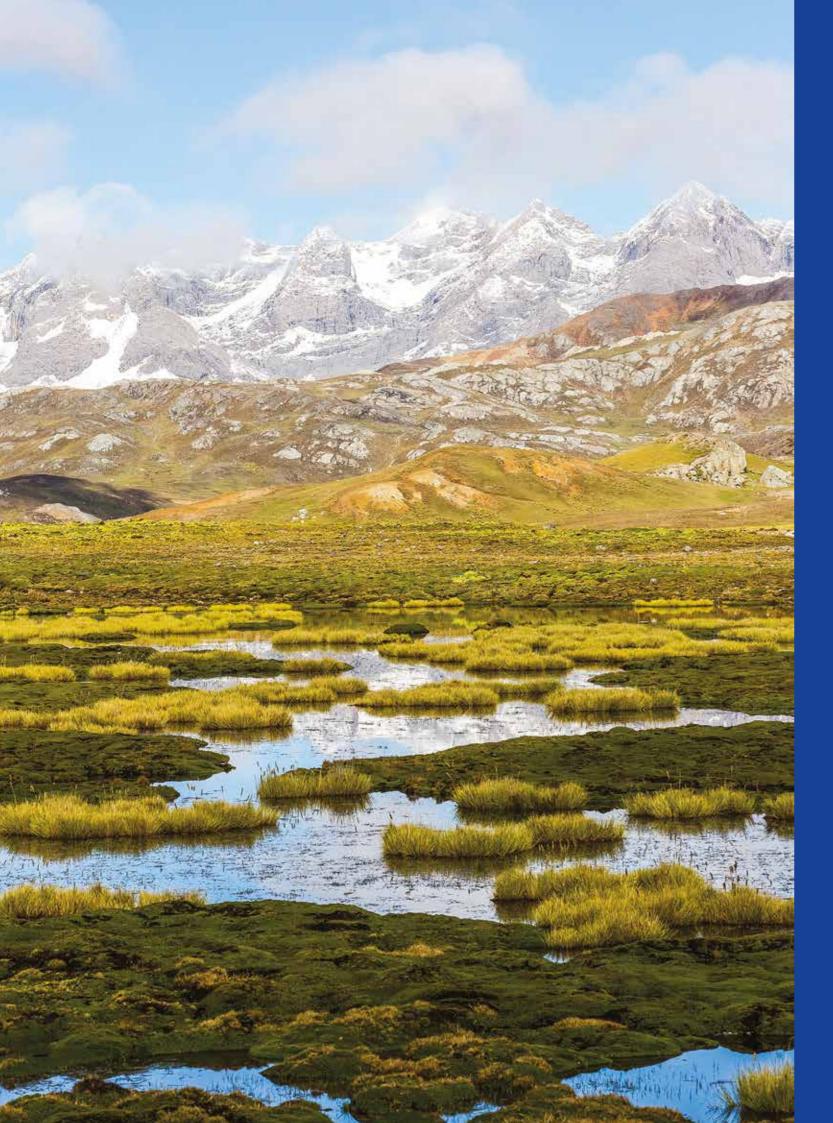
LIMA, FEBRUARY 26, 2018

José Picasso Salinas Chairman

Chief Executive Officer

"THIS DOCUMENT CONTAINS ACCURATE AND SUFFICIENT

Juan Ignacio Rosado Gómez de la Torre



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01 LETTER TO THE SHAREHOLDERS

LETTER TO THE SHAREHOLDERS

DEAR SHAREHOLDERS:

IN 2017, THE INTERNATIONAL POLITICAL CONTEXT WAS MARKED BY THE NUCLEAR THREAT FROM NORTH KOREA, THE ECONOMIC CRISIS IN VENEZUELA, PRESIDENTIAL ELECTIONS IN FRANCE AND GERMANY, THE IMPLEMENTATION OF NEW TRADE POLICIES BY THE UNITED STATES, AND CATALONIA'S FAILED ATTEMPT AT INDEPENDENCE FROM SPAIN.

Despite this context, the global economy grew 3.7%, the highest rate in the last six years. This trend is sustained, on the one hand, by greater dynamism in developed economies such as the United States and the Eurozone thanks to increased private consumption and investment expansion; primarily in infrastructure. These also contributed to a drop in unemployment. Notably, in December U.S. President Donald Trump enacted a tax reform, the main thrust of which was to reduce corporate income taxes from 35% to 21% starting in 2018 and generate tax incentives for repatriation of capital gains.

In addition, for the first time in seven years China's yearover-year economic growth was positive, rising from 6.7% in 2016 to 6.9% in 2017. This was explained primarily by greater growth globally and higher public investment in infrastructure. This greater dynamism resulted in a recovery of commodity prices, boosting growth in Latin American economies. In particular, Argentina returned to a positive rate of expansion thanks to a recovery in the construction sector and higher household purchasing power, in the context of economic stabilization, fiscal consolidation and international reinsertion programs implemented by the government of Mauricio Macri. It is worth noting that Sebastián Piñera won the presidential election in Chile in 2017, contributing to the region's political and economic stability. Elections in Mexico, Brazil and Colombia will take place in 2018.

With regards to stock markets world wide, both emerging economies and developed economies indicated significant

growth.S&P 500 of the United States (+19.4%),INikkei 225 of Japan (+19.1%), Shanghai Composite Index of China (+6.6%), IPSA of Chile (+34.0%) and BOVESPA of Brazil (+26.9%). For its part, the Lima Stock Exchange increased 28.3%.

In the domestic context, Peru was also subject to climatic, political and economic turbulence in 2017. In March, Peru was affected by the coastal El Niño phenomenon, which caused economic damage and irremediable human losses throughout the entire country. Volcan contributed equipment, food and personnel in the northern and central parts of the country to help those affected. We must also mention the support provided by the National Society of Mining, Energy and Petroleum to the victims. Our company also experienced problems during the coastal El Niño phenomenon, which caused a rupture of the penstock and damage to the transmission line for the Rucuy hydroelectric plant as well as difficulties in the transport of concentrates and supplies.

In the political realm, the conflict between the executive and legislative branches continued. There were cabinet leadership changes in education, transportation and communication and health, among others. Subsequently, the legislature passed a no-confidence vote in the cabinet of Prime Minister Fernando Zavala in September. In addition, the Odebrecht corruption scandal sharpened conflicts between the executive and legislative branches, slowing the country's progress and growth. Numerous infrastructure projects were suspended in Lima and in the country's interior. Former president Ollanta Humala and his wife Nadine Heredia were placed in preventive custody and other former presidents are also under investigation. Also, in December Congress sought to impeach President Pedro Pablo Kuczynski; this effort ultimately failed due to the fracturing of a group of Fuerza Popular legislators and the abstention of the Izquierda Nuevo Perú caucus. A few days later, on December 24, President Kuczynski, exercising his presidential prerogative, pardoned former president Alberto Fujimori. After Congress again sought to impeach President Pedro Pablo Kuczynski, he resigned the presidency on March 21, 2018. Two days later, on March 23, 2018, Congress accepted the president's resignation and, in accordance with the Constitution, the presidency was assumed by Martín Vizcarra, first Vice President of the Republic and Peru's ambassador to Canada.

On the same day that President Vizcarra was sworn in by Congress, he gave a speech to the country in which he mentioned the instability and institutional peril Peru was experiencing and which no Peruvian wanted and that the time had come to say enough. Specifically, he mentioned certain serious developments that had occurred in recent times. He said that the judiciary must act independently, responsibly and quickly, but at the same time, it was time to end the politics of hate and confrontation which has only served to harm the country. Politicians and those in public office have an obligation to respond to the many needs, demands and aspirations of every Peruvian, he continued. This last point is the start of a new stage of institutional rebuilding in the country, in which democracy and respect for others are the flags, moving beyond personal interests and desires as well as political differences, to emphasize the wellbeing of all. Among his objectives he mentioned the fight against corruption, transparency, institutional stability, the fundamental division of powers to ensure that no branch of government is able to dominate the others, and the reconstruction of governance.

IN ECONOMIC MATTERS, THE HORIZON INDICATES A STABLE COUNTRY WITH ORDERLY AND EQUITABLE GROWTH, AIMED AT DRIVING PERU DOWN THE PATH OF CREDIBILITY AND STABILITY.

Creating quality jobs for all Peruvians through building infrastructure will be a pillar of the president's administration on the coast, in the mountains and in the jungle. Health, education and public security will be fundamental issues on his agenda, working toward the great transformation of this country, putting Peru first. He ended his message by calling for everyone to work together for the good of Peru, as there is no time to lose.

All of this political uncertainty in Peru affected the country's economic growth outlook. Gross domestic product increased by 2.5% with respect to the previous year, the lowest growth



rate in the last 3 years. This loss of dynamism is due to lower growth of private consumption associated with a reduction in household confidence indicators, lower levels of adequate employment and greater underemployment. With respect to public investment, the delay in execution of projects during the first half of the year due to the coastal El Niño phenomenon was partially offset by the recovery of public investment because of national infrastructure work for the Panamerican Games during the second half of the year. For its part, private investment halted the contraction it had experienced for three consecutive years, with expansion of 0.1% for the year. Notably, investment in the mining sector grew by 15.7%.

In sectoral terms, construction grew by 2.2% compared to the previous year, after two years of contraction, while the fishing sector grew 4.7% over the previous year, thanks to greater extraction of anchovies for industrial consumption. On the other hand, manufacturing fell by 0.3%, compared to a decline of 1.4% in the previous year. The mining and hydrocarbons sector expanded 3.2% in 2017, below the two previous years (9.5% in 2015 and 16.3% in 2016) due to lower growth of copper production, after the production expansion at Las Bambas and Cerro Verde in 2016.

Peru's current balance of payments had a deficit of 1.3% of the GDP, lower than the 2.7% GDP deficit recorded in 2016. The trade balance was helped by higher metal prices, which caused appreciation of the sol, closing 2017 at 3.24 PEN/USD. The average exchange rate during 2017 was 3.26 PEN, compared to 3.37 PEN in 2016. For its part, inflation in Metropolitan Lima closed the year at 1.4%, within the Central Bank's target range.

IN 2017, PRICES OF MOST BASE METALS INCREASED OVER THEIR 2016 LEVELS. THIS STRONG PERFORMANCE WAS DUE TO A MORE SOLID GLOBAL ECONOMY, AS SHOWN IN THE U.S., EUROPE, ASIA AND LATIN AMERICA.



The rising trend in the cycle of metal prices was supported by increased demand and a reform in Chinese supplies, with greater environmental controls. Demand recovered substantially due to investments in infrastructure in China and the United States, the electric vehicle revolution and greater demand for copper. In regard to supply, it is important to note that China has been implementing policies to absorb idle plant capacity to reduce supplies that are highly contaminating, inefficient and unprofitable, resulting in a reduction in inventory.

The price of zinc rose 29.1% from 2,563 USD/MT at the end of 2016 to 3,309 USD/MT at the close of 2017. Likewise, the price of lead increased 25.7% from 1,985 USD/MT at year-end 2016 to 2,495 USD/MT at the close of 2017, while copper saw a 30.1% increase to 7,157 USD/MT, silver rose 3.8% to 16.87 USD/oz and gold climbed 12.3% to 1,294 USD/oz. This is the second year of a price recovery after almost five years of constant declines in metal prices. This positive trend in metal prices has enabled greater investment in the mining sector.

According to the Fraser Institute's annual survey for 2017, Peru rose nine positions in the ranking of attractiveness for mining investment, at 19 out of 91 jurisdictions. This ranking evaluates two factors: geological potential and political perception. In geological potential, Peru was ranked 14th, three positions above 2016. In terms of the perception of public policy and practices related to the sector, although Peru was ranked 43rd, an improvement of 11 positions, we continue to be outranked by Botswana, Namibia and Chile, among others. Notably, our neighboring country Chile was ranked 8th, moving up 31 positions, due to better political perception and stability in that country. We need to place greater emphasis on promoting government policies to take advantage of Peru's mining potential, facilitate investment, and guarantee the start-up of important projects that continue to be stalled, including Tía María, Cuajone, Quellaveco, Conga, Río Blanco, Galeno, Michiguillay, and La Granja. Currently, the mining sector represents 10% of the country's GDP and more than 60% of total exports.

As we said years ago, it is our responsibility to stimulate the country's development, since windows of opportunity do not open every day, and we must remember that we have

to compete to attract new investments that ultimately go to countries offering the best conditions. We have observed that neighboring countries without a tradition of mining such as Ecuador, Colombia and recently Argentina, under Mauricio Macri's government, are beginning to position themselves better to attract investors who will take advantage of their mining potential.

It is also important to mention that excessive pressure in terms of taxes and labor, environmental, and social issues has limited opportunities for development of the country's mining industry. This, in addition to the damage caused by the Law of Prior Consultation and inefficient use of mining royalties, which should be distributed in line with the needs of each region, has resulted in social conflicts that have yet to be resolved. The result is delayed private investment and higher costs faced by local mining companies. The executive branch is carrying out a series of reforms to reduce the excessive bureaucratic procedures that are currently required of the mining sector for exploration and project start-up.

In 2017, Volcan's production reached 255,000 FMT of zinc, 17.3 million ounces of silver and 51,000 FMT of lead. These represent decreases of 6.7%, 21.1% and 1.9% respectively, compared to 2016. This was mainly due to lower production grades at the Yauli and Chungar units. In addition, production was affected by the 65-day stoppage at Islay mine from August to October due to conflicts with one of the local communities, relating to authorization for work with the raise borer in the South vein, and the 18-day stoppage in February at the oxides plant due to conflicts with the Rancas Community.

It is important to mention that the Company continues to focus on cost control and reduction in all operating units.

THE COMPANY HAS IDENTIFIED SPECIFIC OPPORTUNITIES FOR IMPROVEMENT RELATED TO THE MINE, SUPPORTS, MAINTENANCE, TRANSPORTATION AND ADMINISTRATIVE UNITS. THESE WILL BE IMPLEMENTED IN THE COMING MONTHS.

As a result, unit cost in 2017 was 47.90 USD/MT, 3.3% less than the 49.50 USD/MT seen in 2016.

compared to the previous year, from USD 6 million to USD 3 million. This decline reflects completion of the Rucuy hydroelectric plant in 2016. In total, Volcan invested USD 193 million in 2017, 58% more than the USD 122 million invested in 2016.
In 2017, net sales totaled USD 857 million, 4.3% higher than the USD 822 million in net sales in 2016. The Company's gross margin increased from 29% in 2016 to 34% in 2017, thanks to higher metal prices, lower production costs, and a decrease in sales volume of third-party concentrates, which generate lower margins. EBITDA

Investment in our operating units increased 52% from USD

113 million in 2016 to USD 172 million in 2017, mainly in

plants, tailing dams, development and local exploration.

Meanwhile, investment in regional exploration was up

367.4%, from USD 3 million in 2016 to USD 15 million in 2017 and investment in the energy business fell 43.2%

It is important to note that Volcan recorded a one-time net charge of USD 570 million as a result of aligning the Company's financial statements with the corporate accounting standards and policies of our shareholder Glencore. Because of its share in Volcan, Glencore is required to include the financial results of Volcan Compañía Minera S.A.A. in its consolidated financial statements. The adjustments were mainly focused on i) evaluation of devaluation of fixed and intangible assets (impairment); ii) deferred taxes; and iii) accounting provisions. These exceptional charges did not have any effect on the Company's cash flow. Also, in the case of the devaluation of fixed assets and intangibles, in the future the adjustment may be reversed in the event of a scenario other than the one considered in the evaluation as of December 31, 2017.

rose to USD 343 million, compared to USD 303 million in

2016, while net profits were USD 93 million.

VOLCAN HOLDS 371,000 HECTARES OF MINING CONCESSIONS FOR THE DEVELOPMENT OF EXPLORATION ACTIVITIES AND MINING PROJECTS.

To estimate Volcan's total reserves, the Company uses geostatistical tools to generate resource block models. These have been applied to almost all mineralized structures in our operating units, in order to improve interpretation and classification of these structures. This generates solid reserve models that provide greater support to mining plans.

In terms of mine development strategy, in 2017 Volcan concentrated its efforts on exploration at its current operations, aiming to develop the value chain in ore resources. For example, the diamond drilling program consisted of more than 150,000 meters at our Yauli and Chungar units.

Volcan also conducted exploration at six projects-three in the advanced phase and three in the initial phase-totaling more than 54,000 meters of diamond drilling. Notable among the projects in the advanced phase are Romina II and Carhuacayán, which will enable operational continuity of the Alpamarca unit. In the case of Romina II, significant polymetallic mineralization has been defined in the Puagjanca body, and there is evidence of other zones with high potential such as Yuncán, Nuevo Yuncán, Why Not and Romina Central. La Tapada body has been identified at Carhuacayán, as have other targets such as La Tapada Oeste and Toldojirca. At Palma, in 2017 we received approval for the second modification to the semi-detailed exploration EIS and we are updating the geological model for estimating new resources.

Projects in the initial stage include work at Alpamarca Norte, Santa Bárbara and Chumpe. In addition to these advances, and in line with Volcan's long term vision, the Company continued to evaluate opportunities to acquire projects and mining operations aligned with its corporate strategy.

Regarding our corporate policies on safety and the environment, we made significant progress in our cultural change in safety, health and the environment program, developed jointly by all areas of the Company. In 2017 Volcan focused on controlling the critical risks for our workers represented by falling rock, mobile vehicles and equipment, energy blocking, and manual tools. At year's end, and despite having reduced the number of disabling accidents and property damage, we deeply regret the occurrence of four accidents with fatal consequences: three employees of contractor companies and one Volcan



employee. Investigations were carried out to determine the causes of each incident and corrective measures were taken with an emphasis on supervision, training, and evaluation to strengthen oversight.

In terms of energy generation, in 2017 the Company produced 353 GWh, an increase of 9% compared to the previous year, and due to greater production at the Chungar hydroelectric plants resulting from greater availability of water.

On the other hand, Company energy consumption rose to 707 GWh, with average power demand of 103 MW, up 11% over the previous year. This increase is primarily caused by greater demand from mining operations. It should be noted that self-generation, without taking into account energy produced and supplied to third parties, represented 24% of total energy consumption; the remainder was supplied by Electroperú through a contract that expired on December 31, 2017. New electricity supply contracts signed with the company Engie went into effect in January 2018. These contracts will significantly reduce energy consumption rates for our operations.

Volcan continued its strategy of investing in renewable energy and a proprietary electricity transmission system to guarantee a constant, reliable source of power for its operating units and avoid unnecessary plant shutdowns. As of the close of 2017, Volcan's energy business consists of 13 hydroelectric plants, 350 km of transmission lines and 26 electrical substations. In 2017 studies were continued on expansion of the Tingo hydroelectric plant, which would achieve an installed capacity of 15 MW, and easement agreements were signed for the Chancay 2 and Chancay 3 projects.

It should be noted that as a consequence of the coastal El Niño phenomenon, the Rucuy hydroelectric plant was temporarily out of service, after the penstock and transmission line were damaged. To date, insurers have disbursed USD 3 million as an advance toward reparation of material damages, and the plant is expected to resume operations during the second half of the year.

On October 9, 2017, Glencore International AG launched a public tender to acquire a minimum of 436,659,163 and

a maximum of 787,140,176 class A shares at USD 1.215 per share. When the public offering concluded, Glencore had purchased a total of 603,077,387 shares for USD 734 million.

GLENCORE INTERNATIONAL AG AND ITS AFFILIATED COMPANIES, AS OF THE LAUNCH DATE OF THE PUBLIC OFFERING, ALREADY HELD 295,754,888 SHARES (18% OF CLASS A SHARES), BRINGING THE TOTAL NUMBER OF CLASS A SHARES IT HOLDS TO 898,832,275. THIS REPRESENTS 55.028% OF CLASS A SHARES AND 23.29% OF TOTAL COMPANY EQUITY.

Glencore, which trades on stock exchanges in London, Johannesburg and Hong Kong, has a market capitalization of approximately USD 75 billion. As of December 31, 2017, Glencore's worldwide assets total USD 135.593 billion, with sales of USD 205.476 billion, EBITDA of USD 14.762 billion and net income of USD 5.777 billion. This world-class company produces copper, cobalt, zinc, lead and nickel as well as energy products such as coal and petroleum. It also has agricultural businesses.

Now that Glencore holds a larger share of the company's equity, it has engaged with Company operations, bringing in professionals from different areas and specialties such as mine operations, plants, geology, safety and the environment. These professionals come from various countries including Australia, Canada and South Africa, to assist with developing all Volcan units. At the same time, they are prioritizing the potential of current operations, assigning resources to the operating units and identifying possible synergies that will benefit Volcan. The expectation is that this will result in lower costs, optimization of all variables that affect cash flow and increased Company production and reserves. As of the date of publication of this Annual Report, three Glencore executives have joined the Company: Mr. Aldo de la Cruz Peceros as vice president of operations, Mr. Carlos Francisco Fernández Navarro as executive vice president and Mr. Jorge De Olazabal Angulo as deputy manager of corporate environmental affairs.

With respect to Terminales Portuarios Chancay S.A., a wholly owned subsidiary of Volcan, the process of negotiation to

incorporate a strategic partner is ongoing. Preliminary work has begun on the port construction project, for which Volcan invested a total of USD 24.3 million in 2017. It's worth noting that, as a contribution to the development of the village of Chancay, Volcan was awarded the new PEN 22 million Chancay food market project as part of the Public Works Tax Credits program. The project will benefit 85,000 people who will be able to buy and sell essential staple products in a safe, clean and organized setting.

With respect to Volcan corporate social responsibility and care for its surroundings, the Company seeks to engage in dialog and strengthen its relations with community leaders, key authorities and social organizations to generate a positive impact on the development of the communities within its direct sphere of influence. Toward that end, in 2017 the Company invested USD 5 million in agreements with 60 communities in their area of influence. In addition, the various Volcan units provided work to 17 community enterprises, which invoiced about USD 50 million throughout the year. It is important to highlight the Company's pioneering participation in the Public Works Tax Credit program, having developed and/ or won 15 projects with a total value of PEN 126 million, including investments in roads, schools, water, and sanitation.

In September, our operations manager at Cerro de Pasco, Mr. Hermán Flores Arévalo, resigned his position. We are appreciative of his contributions to the development of the Company.

In October, our head operations manager Mr. Roberto Maldonado Astorga, who for many years worked toward the Company's development and growth, also presented his resignation. On behalf of our Board of Directors, we would like to express our gratitude for his dedication, hard work and commitment to the Company's goals.

In addition, we mourn the passing in January 2018 of Dr. Otto Eléspuru Nesanovich, general manger of Empresa Administradora Cerro S.A.C. and Óxidos de Pasco S.A.C. He also held a management position in the Company's legal department. We are appreciative of the dedication, hard work, loyalty, and commitment that he showed for the Company.



It is also important to mention that in November 2017, as a result of Glencore's public tender, the following company directors resigned from the Board: Madeleine Osterling Letts, Felipe Osterling Letts and José Bayly Letts. On behalf of the Board, we would like to thank them for all of their contributions during their tenure as directors.

The Board of Directors, acting within the powers bestowed on it by law, appointed Ms. Victoria Soyer Toche and Mr. Carlos Perezagua Marín to the Board on November 18, 2017.

Subsequently, in December Mr. Pablo Moreyra Almenara resigned from the Board of Directors. On behalf of the Board, we would like to thank him for his collaboration during his time with the Company.

In addition, we would like to report that, as of the date of presentation of this Annual Report, Volcan class B shares have been reclassified from the FTSE Global Small Cap Index to the FTSA Global Mid Cap Index. The shares have also been added to a new index, the FTSE All-World Index.

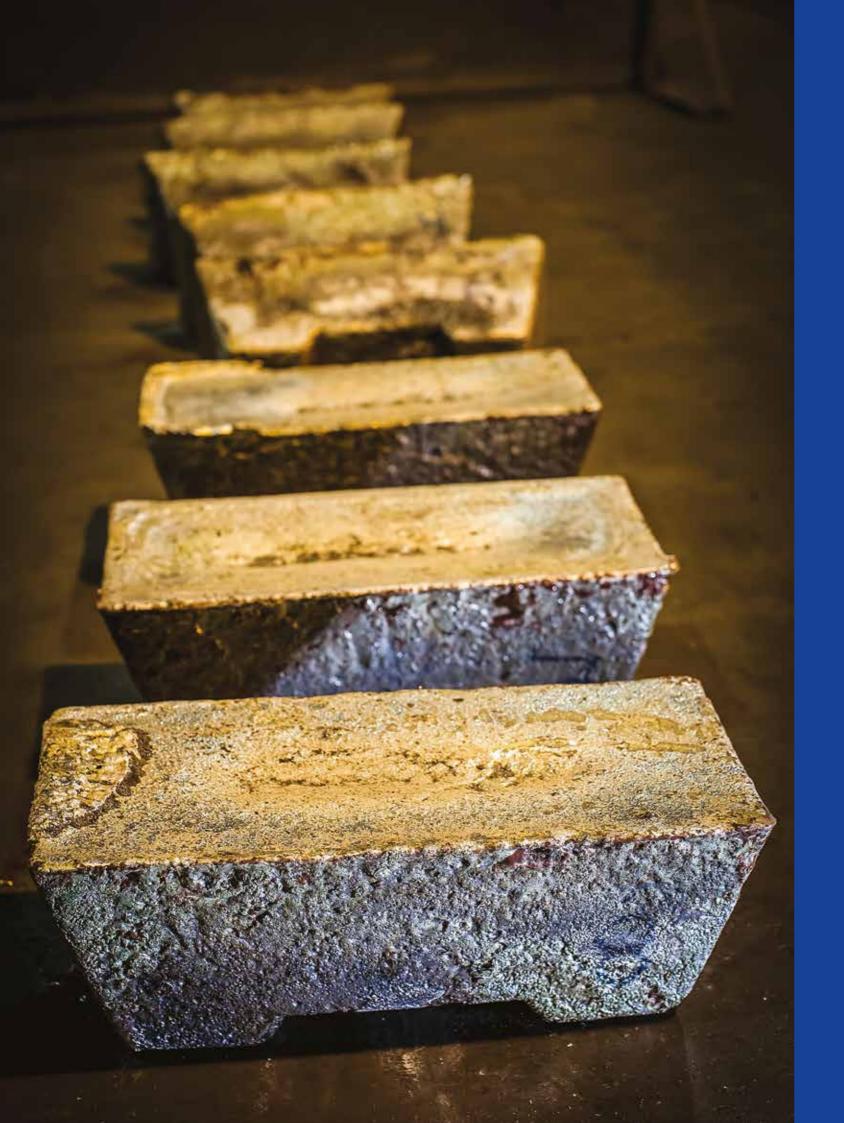
I WOULD LIKE TO TAKE THIS OPPORTUNITY, ON BEHALF OF OUR BOARD OF DIRECTORS, TO THANK ALL OF OUR EMPLOYEES, EXECUTIVES AND PARTNERS FOR THEIR HARD WORK, DEDICATION, AND COMMITMENT TO THE COMPANY'S OBJECTIVES. It's also important to mention that we now have a history of seven decades of investment in mining development in our country's central highlands, with a commitment to sustainable growth in harmony with surrounding communities and the environment. This hasn't been an easy undertaking. There have been numerous challenges, and thanks to the hard work of our founders and those who have enabled the Company to continue to grow-workers, engineers, executives and directors-we have successfully overcome them.

Finally, I would like to thank you, our shareholders, for your confidence, support and interest in Volcan's activities.

Sincerely,

José Picasso Salinas Chairman





02 IMPORTANT **INDICATORS AND** SIGNIFICANT **CHANGES IN 2017**

2017 VOLCAN SUSTAINABILITY REPORT



IMPORTANT INDICATORS AND SIGNIFICANT CHANGES IN 2017

Sustainability management in 2017 contributed to the following results:

Financial

- Net sales: USD 856.7 MM 102-7
- EBITDA: USD 343.0 MM
- Net profit before exceptional items: USD 92.7 MM
- Net profit: USD -477.5 MM
- Total assets: USD 2,224.2 MM

Environmental

- The legal environmental audit was carried out, as a mechanism to control and verify compliance at each mining unit
- The corporate standards book was published, as a tool to manage Critical Environmental Risks in the operation
- 52% of Critical Environmental Risks (RCA) implemented.

Social

- 2,959 employees 2,800 men and 159 women 102-7,102-8
- 49% of our employees are union members (workers and employees)
 102-8
- 358 suppliers and 76 regular subcontractors
- Community investment: USD 5 MM
- The partnership between Volcan and Enseña Perú had a direct impact on more than 612 students, and an indirect impact on 1550 students, across all operating units
- Volcan ranked third among mining companies for projects awarded under the Public Works Tax Credit Program (Obras por Impuestos).

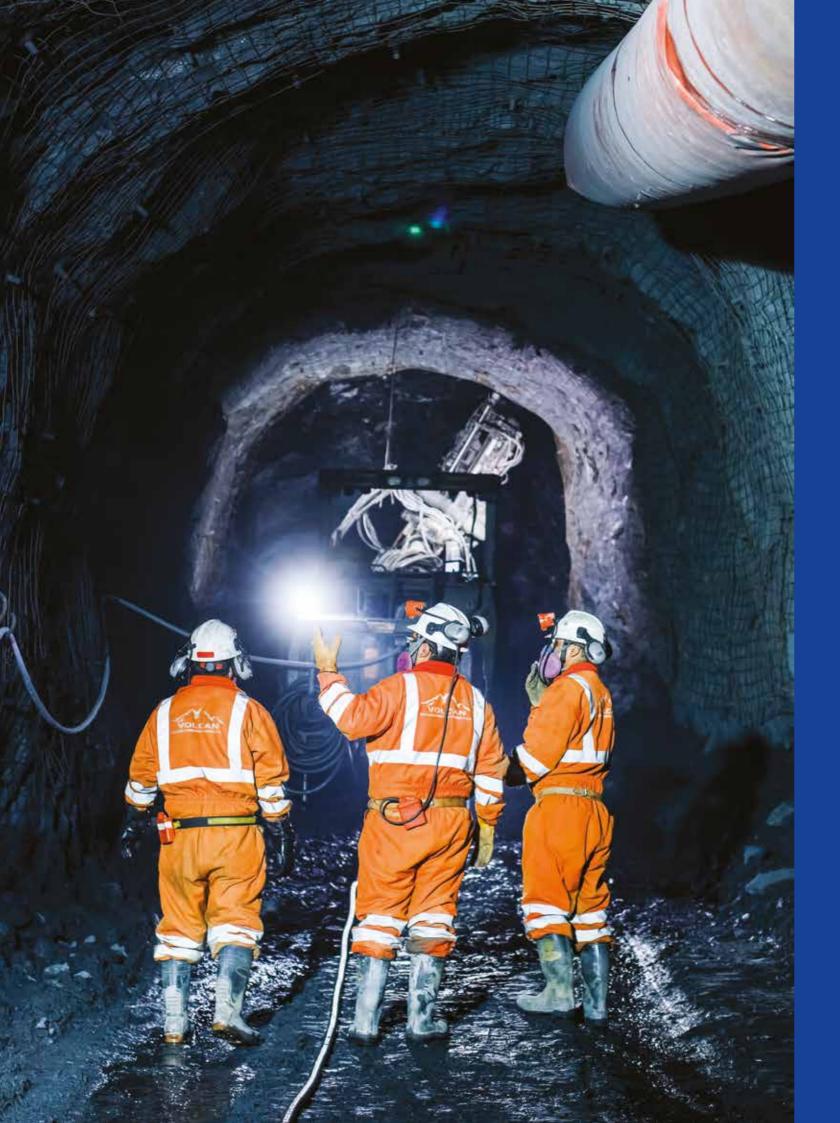
SIGNIFICANT CHANGES 102-10 Operational aspects

There have been no changes in the location of Volcan operations or its suppliers. The structure of the supply chain and aspects related to selection or termination of contracts have remained the same as the previous year. The 20-MW Rucuy hydroelectric plant (120 GWh/year) began its commercial operation in August, and generated 35 GWh during 2017. The production was lower than expected due to damage to part of the penstock caused by heavy rain, river overflow, and mudslides as a consequence of the coastal El Niño in March 2017. By the closing date of this report, the works to repair the hydroelectric plant are still underway, and its service is expected to resume by the second half of 2018. The claim, categorized as a Force Majeure event by Osinergmin, was promptly notified to the insurance company in order to request the recognition of damages and loss of profit.

The San Expedito plant at Cerro de Pasco, which suspended operations along with the Paragsha underground mine in November 2015, resumed activities in July 2016 to treat stockpiles from old operations. In the third quarter of 2017, the construction of the sorting circuit was concluded. The sorting technology separates the highest grade ore from the marginal ore stockpiles, which is then treated at the concentrator plant, obtaining better recoveries and higher production.

Capital Structure Aspects

In November 2017, Glencore International AG made a Public Tender Offer (OPA) for Class A common shares. It acquired a total of 603,077,387 shares. It is important to note that, as of the date of the OPA, Glencore International AG and its related companies held 295,754,888 shares. By the closing date of this report, they held a total of 898,832,275 Class A shares, representing 55.028% of the shares of said class, and 23.29% of the Company capital, excluding Class A and Class B shares held in Volcan's portfolio. 102-7



03 OUR COMPANY



2017 VOLCAN SUSTAINABILITY REPORT OUR COMPANY

A HISTORY OF COMMITMENT

VOLCAN IS A PERUVIAN MINERAL EXPLORATION, PRODUCTION, AND PROCESSING COMPANY WHICH BEGAN OPERATIONS IN 1943. IN 2017, VOLCAN CELEBRATED 74 YEARS SINCE IT BEGAN MINING OPERATIONS. 102-1

Through the constant hard work and dedication of its directors, management and employees, it has become one of the largest producers of silver, zinc, and lead in Peru and the world.

The Company sells concentrates of zinc, lead, copper and silver, as well as dore bars, in the domestic and international markets. In addition, Volcan generates electric power through

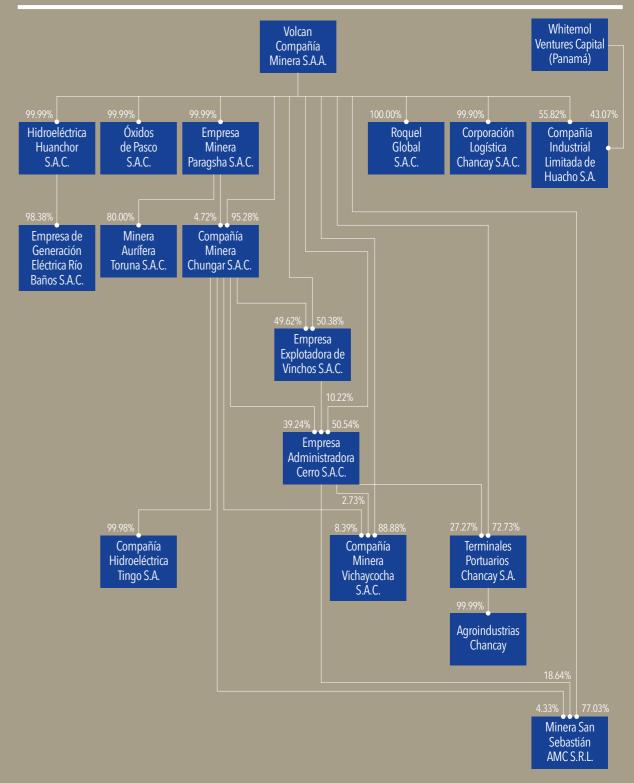
hydroelectric plants for its own supply and also sells power to several companies located near its operations. 102-2

Its activities are classified under ISIC category 1320 (mining of non-ferrous metal ores) and ISIC 3510 (electric power generation, transmission and distribution). 102-2

The Company, which resulted from a merger between Volcan Compañía Minera S.A. and Empresa Minera Mahr Túnel S.A., was incorporated on February 1, 1998, in a public deed executed before Notary Public Dr. Abraham Velarde Álvarez. Volcan is registered in the Public Mining Registry under Entry 1, Record 41074, and in Record 11363057 of the Registry of Legal Entities of Lima. **102-5**



> 2017 CORPORATE STRUCTURE 102-18



OUR **OPERATIONS**

Volcan carries out its activities in Peru, with operations in the regions of Lima, Pasco, and Junín. Its business address is Manuel Olguín N° 373, Santiago de Surco, Lima. The Company has five business units in Peru's Central Highlands: Yauli, Chungar, Cerro de Pasco, Alpamarca, and Óxidos de Pasco. Altogether, it has nine underground mines, three open pits, seven concentrate plants, and a lixiviation plant. 102-3/102-4/102-7

In addition, the Company owns 13 hydroelectric plants near its mining operations.



> MINING UNITS, MINES AND PLANTS

| | | MINES | | PLA | NTS |
|-----------------|------------------|-------------|-----------|--------------|--------------|
| UNIT | NAME | TYPE | ESTADO | NAME | TYPE |
| | San Cristóbal | underground | active | Victoria | concentrator |
| | Andaychagua | underground | active | Mahr Tunel | concentrator |
| Yauli | Ticlio | underground | active | Andaychagua | concentrator |
| | Carahuacra | underground | active | | |
| | Carahuacra Norte | open pit | active | | |
| Chungar | Animón | underground | active | Animón | concentrator |
| Chungar | Islay | underground | active | | |
| | Mina Subterránea | underground | suspended | Paragsha | concentrator |
| Cerro de Pasco | Raúl Rojas | open pit | suspended | San Expedito | concentrator |
| | Vinchos | underground | suspended | | |
| Alpamarca | Río Pallanga | underground | suspended | Alpamarca | concentrator |
| Alpaniaica | Alpamarca | open pit | active | | |
| Óxidos de Pasco | Stockpiles | stockpiles | active | Óxidos | leaching |

2017 VOLCAN SUSTAINABILITY REPORT

> MINING UNITS AND THEIR PRODUCTS 102-2

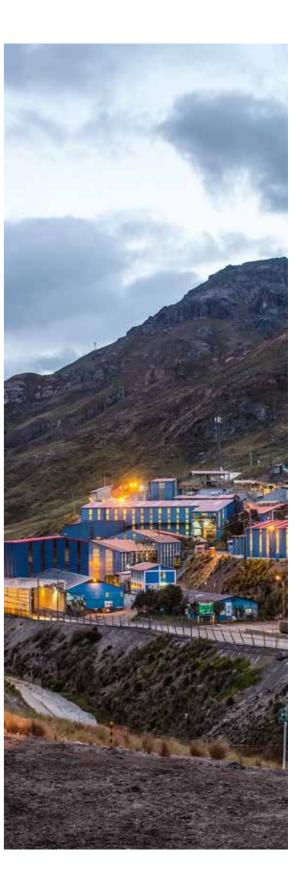
| UNIT | OBTAINED PRODUCTS | FINE CONTENTS |
|--------------------|--------------------|-------------------------|
| Yauli | Zinc concentrate | Zinc, silver |
| | Lead concentrate | Lead, silver |
| | Copper concentrate | Copper, silver, gold |
| Chungar | Zinc concentrate | Zinc, silver |
| 5 | Bulk concentrate | Lead, copper, silver |
| Cerro De | Zinc concentrate | Zinc, silver |
| Pasco | Lead concentrate | Lead, silver |
| Alpamarca | Zinc concentrate | Zinc, silver |
| · | Bulk concentrate | Lead, copper, silver |
| Óxidos De Pasco | Dore bars | Silver, gold |

> LOCATION OF MINING UNITS 102-4

| UNIT | REGION | LOCATION |
|--------------------|--------|------------------------------|
| Yauli | Junín | 170 km from the city of Lima |
| Chungar | Pasco | 219 km from the city of Lima |
| Cerro De Pasco | Pasco | 295 km from the city of Lima |
| Alpamarca | Junín | 182 km from the city of Lima |
| Óxidos De Pasco | Pasco | 295 km from the city of Lima |

> LOCATION OF HYDROELECTRIC PLANTS 102-4

| UNIT | REGION | LOCATION |
|---|---|--|
| CHS Chungar ¹ | Lima / Pasco | 170 km from the city of Lima |
| CHTingo | Lima | 130 km from the city of Lima |
| CH Huanchor | Lima | 110 km from the city of Lima |
| CH Rucuy | Lima | 142 km from the city of Lima |
| ¹ There are 10 hyd (1). Only CH San J | roelectric plants: osé is located in F | Baños I to V (5), Chicrín I to IV (4) and San José Pasco. |



WORKING WITH SOLID CORPORATE PRINCIPLES

IN 2012, THE COMPANY'S VISION, MISSION AND VALUES WERE REVIEWED AND ADAPTED TO THE NEW CHALLENGES OF THE FUTURE. 102-16

MISSION:

Volcan is a mining company of Peruvian origin pursuing the maximization of shareholder value through operational excellence and the highest standards of workplace safety and environmental management, contributing to the development of its personnel and its community.

VISION:

By 2021, Volcan aspires to be one of the principal mining companies diversified in the production of base and precious metals, a leader in growth and operational excellence, acting in a socially responsible manner with a dedicated and highly qualified workforce.

CORPORATE VALUES Safety:

Our actions are aimed at mitigating all risks in order to guarantee the health and safety of our employees in dayto-day operations.

Integrity:

Our conduct reflects an honest, just, ethical, and transparent attitude in all of our actions.

Commitment:

We are part of a larger corporate project in which we firmly believe and for which we give our best.

Excellence:

We strive to always meet the highest performance standards in our work to achieve outstanding results.

Respect:

Our actions are aimed at creating harmonious relationships with our employees, communities, environment, customers, and shareholders.

OUR VALUE CHAIN

Volcan's business value chain describes how we carry out key strategic activities to generate value for the end customer.

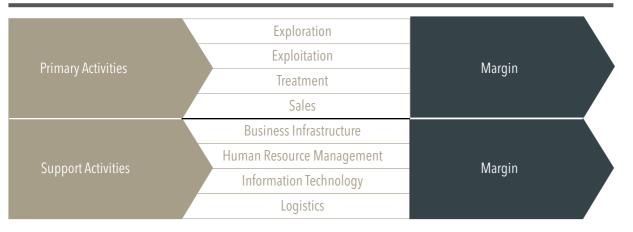
WORKING WITH INTEGRITY

THE COMPANY HAS ESTABLISHED A SET OF STANDARDS STIPULATED IN CORPORATE PRINCIPLES AND VALUES AND IN ITS CODE OF ETHICS AND CONDUCT, WHICH CONTRIBUTE TO PROFESSIONAL DEVELOPMENT AND TO GENERATING A WORKPLACE CLIMATE OF INTEGRITY AND HONESTY. THESE POLICIES ARE FOLLOWED BY THE EMPLOYEES, MANAGERS AND DIRECTORS OF VOLCAN AND ITS SUBCONTRACTOR COMPANIES.

The Company promotes full compliance with this code. If an employee observes any unethical conduct, they must inform their manager or general auditor. They can also use the anonymous "Complaint Line", an anonymous communications channel that is open to every employee. 102-17

The Code of Ethics and Conduct, approved by the Board of Directors and Senior Management, is provided to all employees for their acceptance and is also published on the Company's web site. Subcontractors are also provided with a copy of the orientation manual and the mission, vision, and values of the Company are explained to them.







CODE OF ETHICS AND CONDUCT

102-16 / 103-2

Volcan Compañía Minera S.A.A. and its Subsidiaries adopt an ethical and equitable behavior through a non-sectarian, apolitical, socially and environmentally responsible corporate culture. For this, the Company abides by the following values and principles:

- Justice and integrity in business affairs, including the ethical settlement of actual or potential conflicts in personal and professional relationships;
- Respect to Human Rights and the dignity of all employees;
- Acceptance of several cultures, religions, races, genders and sexual orientations;
- Honest, transparent and responsible actions;
- Observance of the corporate government's honesty standards and the relevant laws.

2017 VOLCAN SUSTAINABILITY REPORT **OUR COMPANY**

The Company and people subject to this Code must meet the following principles, duties and rules:

CONFLICT OF INTERESTS

Conflicts between personal concerns and the Company's interests must be avoided.

2. **GIFTS AND COURTESY GESTURES**

The employee is not authorized to deliver or accept, directly or indirectly, favors, gifts or courtesy gestures that may compromise or give the impression that they compromise their professionalism or impartiality, or that may affect their capacity to act with integrity in the Company's best interest.

3. **LEISURE ACTIVITIES**

The Company recognizes that social activities are important for business relationships; however, employees must not become involved in activities that may affect their integrity, professionalism or judgment regarding business decisions and relationships.

USE OF GOODS AND SERVICES

The employees cannot use the Company's goods and services for their personal benefit or other personal purposes (other than their duties or those scheduled by the Company), without written approval of their Manager.

5. RESPONSIBILITY

The employees are not authorized to give, offer, authorize or accept, directly or indirectly, any valuable (bribery) to achieve an undue personal or business advantage that may be deemed as an incorrect behavior.



6. WORKDAY AND VACATIONS

Negligence, dishonesty and abuse regarding the required working hours will be considered a noncompliance with the Code of Ethics, and may give rise to disciplinary measures.

7. **PAYMENT ERRORS**

Any payment in excess, or the irregular payment of amounts of money to the employee or to a third party not entitled to it, or due to a mistake, must be immediately notified to their Manager.

8. **BUSINESS OPERATIONS**

Purchase agreements and tenders must be awarded on the basis of quality, service, price and availability, within the parameters of the Company's policies and procedures and any law in effect.

All counsel and/or suppliers of goods or services must have good reputation and integrity if they intend to carry out business with the Company.

9. **INTOXICATING SUBSTANCES**

It is forbidden to consume, possess or distribute alcoholic beverages or illegal drugs within the Company, as well as to come to the workplace while under their influence.

10. **INFORMATION OWNED BY THE** COMPANY

The employees are obliged not to disclose, without the corresponding authorization, to any person within or outside the Company, who has no need to know the information, confidential data or information owned by the Company or belonging to their operations or properties, or to disclose it

11. **REPORTING NON-ETHICAL CONDUCTS** The Company does not excuse behaviors that are report it to their Manager or General Auditor. 102-17

32

to a supplier, consultant, customer, competitor or business associate, current or potential, without prior authorization by their Manager, who, in turn, may ask the General Manager on how to proceed.

incompatible with the Code of Ethics and Conduct. If the employee is aware of any unethical behavior, they must

If the employee is aware of any behavior incompatible with this Code by any member of Management, they must report it to the Audit Committee. Report can be made confidentially.

DECLARATION OF HUMAN RIGHTS

The Company strives to ensure that every individual within the group respects the rights and freedoms enunciated below and to secure their effective recognition and observance throughout the group. Taking into account the health and safety parameters permitted by its line of business, the Company seeks to protect the right to: 102-16 - Human dignity;

- Fair treatment (acknowledging the prior existence of disadvantaged groups);
- Liberty and security of individuals;
- Not be subjected to slavery, servitude and forced labor;
- Freedom of conscience, religion, thought, belief and opinion;
- Freedom of expression (subject to considerations of confidentiality and the prohibition of hate speech and incitement to cause harm);
- Freedom of association:
- Fair labor practices;
- Not to be employed if you are a child, except for exceptions stipulated by law;
- Not to be arbitrarily deprived of property or possessions; - Freely participate in the cultural activities of your choice;
- Lawful, reasonable and fair action;
- Not to be subject to arbitrary arrest or detention.

PARTICIPATION IN ASSOCIATIONS AND ORGANIZATIONS

102-13

- National Society of Mining, Petroleum and Energy: Active member.
- American Chamber of Commerce of Peru (AmCham): Member of the Sustainable Development Committee.
- Enseña Perú (Teach Peru): Member of Campeones por la Educación (Education Champions), a partnership among companies committed to education and whose goal is to close learning gaps in math and reading comprehension.

VOLCAN COMPAÑÍA
MINERA S.A.A. AND
IS SUBSIDIARIES
ADOPT AN ETHICAL
ADD EQUITABLE
BEHAVIORTHROUGHA
BHROUGHA
NON-
SECTARIAN,
APOLITICAL,
SOCIALLY AND
ENVIRONMEN-
TALLY
RESPONSIBLE
CORPORATE
CORPORATE
CULTURE.



AWARDS AND HONORS

> AWARDS AND HONORS RECEIVED IN 2017

| DATE | AWARD / HONOR | INSTITUTION | REASON / CAUSE |
|-----------|---|---|---|
| March | First Place: XXI National Mining Safety Contest. Alpamarca won the first place in open pit category | Mining Safety Institute of Peru (ISEM) | Best safety practices |
| March | XXI National Mining Safety Contest. First place in UG mine category | Mining Safety Institute of Peru (ISEM) | Best safety practices |
| August | First place in 2017 Latin American Excecutive Team Small Cap. Metals & Mining | Institutional Investor | Best Investor Relations Professional (Overall): David Gleit |
| August | First place in 2017 Latin American Excecutive Team Small Cap. Metals & Mining | Institutional Investor | Best Investor Relations Professional (Sell Side): David Gleit |
| August | First place in 2017 Latin American Excecutive Team Small Cap. Metals & Mining | Institutional Investor | Best Investor Realtions Team (Overall) to Volcan Compañia Minera |
| August | First place in 2017 Latin American Excecutive Team Small Cap. Metals & Mining | Institutional Investor | Best Investor Realtions Program (Overall) to Volcan Compañia Minera |
| August | First place in 2017 Latin American Excecutive Team Small Cap. Metals & Mining | Institutional Investor | Best Investor Realtions Program (Sell Side) to Volcan Compañia Minera |
| September | Winner: Environmental Management category and National Mining Award nominee | PERUMIN 33 | Rock acid drainage as incubation for control of cyanide in Cerro de Pasco |

2017 RESULTS

O1. OPERATING RESULTS Mine Production

IN 2017, TREATED VOLUME GREW 7.7% DUE TO

INCREASED PRODUCTION AT CERRO DE PASCO, AN EFFECT THAT WAS COMPLEMENTED BY GROWTH IN TONNAGE TREATED AT YAULI AND ALPAMARCA.

In terms of fines, zinc production fell 6.7%, lead production was down 1.9%, and silver production decreased 21.1% relative to 2016, while copper production rose 4.2% and gold production increased by 39%.

Lower zinc, silver and lead production in 2017, compared to the previous year, is explained mainly by low grade ore and two months of suspended operations at Islay Mine resulting from issues with the Huaychao community.

> CONSOLIDATED MINING PRODUCTION 102-7

| CONSOLIDATED PRODUCTION | 2016 | 2017 | VAR % |
|--|-------|-------|-------|
| Ore Treatment (thousand MT) | 7,716 | 8,312 | 7.7 |
| Concentrator Plants | 6,816 | 7,440 | 9.2 |
| Oxides Plant | 900 | 872 | -3.1 |
| Fines Content | | | |
| Zinc (thousand FMT) | 273.4 | 255.1 | -6.7 |
| Lead (thousand FMT) | 52.2 | 51.3 | -1.9 |
| Copper (thousand FMT) | 5.2 | 5.4 | 4.2 |
| Silver (million Oz) | 22.0 | 17.3 | -21.1 |
| Gold (thousand Oz) Source: Volcan Cía. Minera | 5.8 | 8.1 | 39.0 |

In the case of silver, decreased production was also due to lower treated volumes at Chungar, and the 18-day suspension of production at the Oxides Plant resulting from conflicts with the community of Rancas in February 2017. Lead was influenced by low grades at San Cristóbal and Carahuacra mines.

Year-to-date, copper and gold production grew. In the case of copper, this is explained by better head grades in some operations, as planned.

Energy Production

In 2017 Volcan's 13 hydroelectric plants generated 352.5 GWh, which represents 50% of the Company's total energy consumption.

Chungar's 10 hydroelectric plants generated 162 GWh of poweraltogether–23% of the Company's total consumption. Moreover, the Tingo hydroelectric plant generated 9 GWh, which was sold directly to the Company. Volcan purchased 541.4 GWh from the Sistema Eléctrico Interconectado Nacional (National Interconnected Electric System) in order to meet its total consumption demand.



The Huanchor hydroelectric plant produced 146.9 GWh. This power was sold to third parties. By the closing date of this report, the operations at the Rucuy hydroelectric plant are still suspended due to damage to part of the penstock and a section of the transmission line as a consequence of the coastal El Niño in March 2017. The project to repair the penstock is currently underway, and includes the construction of a tunnel and, subsequently, a shaft.

> VOLCAN ELECTRICITY BALANCE **IN GWH** 102-7

| ELECTRICITY BALANCE IN GWH | 2016 | 2017 | VAR% |
|-------------------------------|------|------|------------|
| Energy Production | 323 | 353 | 9 % |
| CH's Chungar | 138 | 162 | 17% |
| CHTingo | 9 | 9 | -3% |
| CH Huanchor | 139 | 147 | 6% |
| CH Rucuy | 36 | 35 | -5% |
| Energy Consumption | 635 | 707 | 11% |
| Energy Purchase | 488 | 541 | 11% |

02. **FINANCIAL RESULTS**

> INCOME STATEMENT 201-1

| INCOME STATEMENT MM USD | 2016 | 2017 | VAR % |
|-----------------------------------|--------|-------------|-------|
| Sales after adjustments | 821.5 | 856.7 | 4.3 |
| Sales Costs | -581.2 | -566.1 | -2.6 |
| Gross Profit | 240.3 | 290.6 | 20.9 |
| Gross Margin | 29% | 34% | 5 pp |
| Net Profit Before Exceptionals | 84.4 | 92.7 | 9.8 |
| Net Margin | 10% | 11% | 1 pp |
| Exceptional Adjustments | | -570.2 | |
| Net Profit After Exceptionals | 84.4 | -477.5 | |
| EBITDA ³ | 302.9 | 343.0 | 13.2 |
| Margin EBITDA | 37% | 40 % | 3 рр |

¹ Incudes sales and sales costs of energy business. In 2016, other income includes an extraordinary income of USD 14.0MM due to a partial international bond buyback.

Bond buyback.
 ² Exeptionals in 2017 were USD -363.5 MM in other income (expenses) and USD -206.7 MM due to taxes, totalling USD -570.2 MM
 ³ Does not consider exceptional adjustments.
 Source: Volcan Compañia Minera



Mining Sales

Volcan mining sales totaled USD 856.7 million in 2017, a 4.3% increase over sales in the previous year. 102-7

> DETAIL OF MINING SALES, BY METAL 201-1

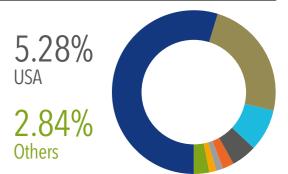
| SALES (MMSD) | 2016 | 2017 | VAR. % |
|-------------------------------|--------------|-------------|----------------|
| Zinc | 399.6 | 484.5 | 21.2 |
| Lead | 71.7 | 96.5 | 34.6 |
| Copper | 12.7 | 19.5 | 53.4 |
| Silver | 323.3 | 252.7 | -21.8 |
| Gold | 8.5 | 6.9 | -18.5 |
| SALES BEFORT | 815.9 | 860.2 | 5.4 |
| ADJUSTMENTS | | | |
| ADJUSTMENTS Final Invoices | 12.3 | 9.4 | -23.8 |
| | 12.3 19.4 | 9.4 -7.2 | -23.8 |
| Final Invoices | . = . 0 | | -23.8 -78.5 |

Volcan's main customers are domestic, accounting for 56% of sales value in 2017, followed by South Korea with 23%; China, with 8%; the United States, with 5%; Belgium, with 2%; Mexico, with 1%; Italy, with 1%, among others. 102-6

> PERCENTAGE OF SALES BY DESTINATION, 2017

| 56.05% | 23.13% | 8.01% |
|--------------|---------------|--------------|
| Peru | Korea | China |
| 1.93% | 1.49% | 1.28% |
| Belgium | Mexico | Italy |





Energy sales

In the energy sector, net sales totaled USD 13.9 million. 102-7 100% of energy sales were domestic. 102-6

> ENERGY SALES

| ENERGY SALES (MM U SD) | HUANCHOR | EGERBA | TINGO | TOTAL |
|------------------------|----------|--------|-------|-------|
| Free Clients | 8.6 | 0.5 | 0.1 | 9.2 |
| Regulated Clients | 1.7 | 0.7 | 0.0 | 2.4 |
| Spot Market | 0.1 | 0.4 | 0.0 | 0.5 |
| Transmission | 0.4 | 0.0 | 1.5 | 1.9 |
| Total | 10.8 | 1.6 | 1.6 | 14.0 |

> PERCENTAGE OF SALES BY CUSTOMER TYPE, 2017



9.20%
Free Clients2.4%
Regulated
Clients0.5%
Spot Market1.9%
Transmission









04 SUSTAINABILITY MANAGEMENT

SUSTAINABILITY MANAGEMENT

SUSTAINABLE DEVELOPMENT GOALS (SDG)

> SDG TO WHICH WE CONTRIBUTED IN 2017:



SUSTAINABLE DEVELOPMENT GOALS (SDG) 102-12

Volcan believes it is extremely important to promote harmonious relations with the communities in the area of influence of its operations. In order to prioritize Volcan interventions in communities within its direct area of influence, the Company has aligned its voluntary corporate social responsibility initiatives with the United Nations Sustainable Development Goals (SDG). In addition, to achieve its goals Volcan has forged partnerships with private entities, government agencies, and non-governmental organizations. Its social responsibility plans and actions are focused mainly on the following objectives:

Objective 3: Ensure healthy lives and promote wellbeing for all at all ages

Volcan has committed to generating material and sustainable improvements in community health standards. Therefore, in alliance with Prisma, a non-governmental organization and strategic health partner, the Company has designed a corporate project with a 2018 timeline. The aim of the project is to identify the principal diseases in each community, monitor their evolution over time, and develop medical campaigns to address them.

Objective 4: Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all

In 2017 Volcan continued its multi-annual partnership with Enseña Perú to incorporate teachers from their organization into various schools within the Company's area of influence. This produced immediate results in terms of academic performance and soft skills improvement for more than 1,500 students. The intervention was focused on the Cerro de Pasco, Chungar and Yauli units. In addition, the Company continued with the SENATI and CETEMIN comprehensive scholarship program, which directly benefits youth from communities near our operations.

Objective 6: Ensure availability and sustainable management of water and sanitation for all

All Public Works Tax Credits projects help their specific sector and also contribute to reduce poverty (SDG 1), develop infrastructure (SDG 9) and create partnerships for development (SDG 17).

Since 2010, Volcan has committed PEN 126 million to finance 15 infrastructure and utilities project of great social impact. These education (SDG 4), water and sanitation (SDG 6), solid waste management and transport (SDG 11)

projects, among others, benefit almost 500,000 people and incorporate sustainability and innovation components and comprehensive solutions.

Objective 7: Ensure access to affordable, reliable, sustainable, and modern energy for all

Volcan owns hydroelectric plants and has chosen to invest in clean, renewable hydroelectric generation projects to supply its own operations and third parties. It has also invested in its own electricity transmission systems in an effort to better manage its cost structure, ensure greater availability of power for its mining operations, and contribute to reducing greenhouse gas emissions.

The total installed capacity of Volcan hydroelectric plants is 63 MW. Ten hydroelectric plants in Baños, and the Tingo Hydroelectric Plant, supply 23 MW directly to the Chungar mining unit; while Huanchor and Rucuy supply 19.7 MW and 20 MW, respectively.

In March 2017, the Peruvian coast endured heavy rain, river overflow and mudslides that affected, among others, several sections of the penstock of the Rucuy hydroelectric plant, interrupting the plant's service. By the closing date of this report, the works to repair the hydroelectric plant are still underway, and its service is expected to resume by the second half of 2018.

Objective 9: Build resilient infrastructure, promote inclusive and



sustainable industrialization, and foster innovation

In the third quarter of 2017, the construction of the sorting circuit was concluded. The sorting technology separates the highest grade ore from the marginal ore stockpiles, which is then treated at the concentrator plant, obtaining better recoveries and higher production. Without it, processing the mineral would not be profitable.

2. SUSTAINABILITY STRATEGY

The business approach has shifted in recent years, aiming at improving the relation between profitability and responsibility. Modern and efficient companies make commitments to the comprehensive development of its economic, social and environmental area of influence. Volcan adheres to this concept, with the understanding that proper management of its environmental impacts has a positive effect on value generation and enables the Company to develop its operations in a sustainable manner. Environmental care and protection is a concern present in all Company activities. 102-11

It is important to emphasize that Volcan's internal policies are in compliance with Peruvian law.

Volcan's Environmental Management System (EMS) aids the Company in identifying and preventing environmental damage. The system optimizes water and energy

2017 VOLCAN SUSTAINABILITY REPORT SUSTAINABILITY MANAGEMENT

consumption, controls waste production, as well as assists in evaluating the Company's commitments, and updates, improves, or redesigns environmental measures.

In addition, the Internal Auditing unit identifies opportunities for improvement and incorporates preventive and corrective actions throughout the different areas of the Company. The Company's EMS contributes to the continuous improvement of procedures, adds value, and optimizes management of economic, social, and environmental risks.

Finally, the different areas of the Company are overseen and subject to enforcement by government regulatory entities that evaluate compliance with legal procedures and statutes. In this regard, the Company dedicates careful attention to the legal commitments made in the various environmental instruments it manages.

3. INFORMING WITH TRANSPARENCY

Volcan conducted an evaluation to identify stakeholder groups that in one way or another are directly or indirectly influenced by its operations, taking into consideration both potential positive and negative impacts. **102-42**

- Shareholders
- Employees
- Suppliers
- Communities
- Government and civil society
- Customers 102-40

4 STAKEHOLDER MANAGEMENT AND DIALOG

102-43 Establishing solid, lasting relations with stakeholder groups is a strategic goal of Volcan's environmental management. The Company conducted surveys and interviews with employees, suppliers, and subcontractors, as well as focus groups with community representatives in its areas of direct influence. In addition, community relations

specialists contributed quality information for understanding community expectations.

It is important to note that stakeholder participation in the various stages of mining activity occurs through processes of dialog, negotiations, participation in informational workshops, communication mechanisms, and complaint channels. **G4-26** These dialog mechanisms enable the Company to understand and more closely manage its relations with stakeholder groups.

STAKEHOLDER GROUP EXPECTATIONS, BY GRI CATEGORY

| GRI CATEGORY | EXPECTATIONS |
|------------------|--|
| Economic | Value generated (revenues) and distributed (operating and administrative costs, payroll, investment in the community, etc.) |
| | Indirect economic consequences (investment in infrastructure, development of economic activities in the area of influence) |
| | Water use and management |
| | Biodiversity protection |
| Environmental | Effluent and waste management |
| | Investments for improved environmental performance |
| | Employment and work practices (staff retention, turnover, social benefits, support to employees approaching retirement) |
| Social (Labor) | Employee training and education |
| | Occupational health and safety management |
| | Diversity and equal opportunities |
| | Impacts on communities and their management |
| Social (Society) | Information for customers and their satisfaction level |
| | Planning for operation closure |

> PRINCIPAL MECHANISMS TO DIALOG WITH STAKEHOLDER

| STAKEHOLDER | |
|---------------------------|--------------------------------------|
| | General meeting of shareholders |
| | Informational meetings |
| | Website for the Securities Market of |
| Shareholders | Email and post |
| | Telephone |
| | Company web site |
| | Ongoing and interdepartmental me |
| | Bimonthly meetings with unions. |
| - I | Response to complaints. |
| Employees | Virtual media, intranet and daily em |
| | Occupational Health and Safety Cor |
| | Activities with employees. |
| | Daily interaction with community a |
| | Weekly meetings with authorities. |
| Community | Daily coordination with community |
| Community | Assemblies with active community |
| | Strategic meetings with thought lea |
| | Community outreach through print |
| | Requests and letters. |
| Government and | Email. |
| Civil Society | Telephone communications. |
| | Information Office. |
| | Ongoing interaction via email and |
| Customers | Incident areas and complaints. |
| | Visits to plants. |
| | Ongoing interaction. |
| Suppliers and contractors | Email. |
| | Telephone. |

| MECHANISMS |
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| the Superintendency of Securities Market (SMV) |
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05 SHAREHOLDER RELATIONS MANAGEMENT

2017 VOLCAN SUSTAINABILITY REPORT

SHARE STRUCTURE

SUBSCRIBED, PAID AND **REGISTERED CAPITAL AS OF DECEMBER 31, 2017** WAS PEN 3,546,617,792, COMPRISED OF 1,633,414,553 **CLASS A COMMON SHARES** AND 2,443,157,622 CLASS B **COMMON SHARES; THE VALUE OF EACH NOMINAL SHARE IS PEN 0.87.**

2017 VOLCAN SUSTAINABILITY REPORT SHAREHOLDER RELATIONS MANAGEMENT

The subsidiary Empresa Minera Paragsha S.A.C. holds 182,664,981 Class A common shares and 12,234,901 Class B common shares. The subsidiary Compañía Minera Chungar S.A.C. holds 23,442,345 Class A common shares.

> MAIN SHAREHOLDERS - CLASS A COMMON SHARES

| MAIN SHAREHOLDERS | % | TYPE OF PERSON | NATIONALITY | ECONOMIC GROUP |
|--|-------|-------------------|----------------------|----------------|
| Glencore International AG | 41.91 | Legal | Switzerland | Glencore |
| Empresa Minera Paragsha S.A.C. | 11.18 | Legal | Peruvian | Volcan |
| De Romaña Letts, José Ignacio | 10.33 | Natural | Peruvian | Not applicable |
| Letts Colmenares de Romaña, Irene Florencia | 9.90 | Natural | Peruvian | Not applicable |
| Blue Streak International N.V. | 8.38 | Legal | Netherlands Antilles | Not applicable |
| Sandown Resources S.A. | 7.81 | Legal | Panama | Glencore |
| (*) Glencore group, including all its subsidiaries, holds a 55.03% s | hare. | | | |

> MAIN SHAREHOLDERS - CLASS B COMMON SHARES

| MAIN SHAREHOLDERS | % | TYPE OF PERSON | NATIONALITY | ECONOMIC GROUP |
|-------------------------|-------|----------------|-------------|-------------------|
| AFP Integra - Fondo 2 | 10.63 | Legal | Peruvian | Not applicable |
| AFP Integra - Fondo 3 | 7.29 | Legal | Peruvian | Not applicable |
| AFP Prima - Fondo 3 | 7.23 | Legal | Peruvian | Not applicable |
| AFP Prima - Fondo 2 | 6.58 | Legal | Peruvian | Not applicable |
| AFP Profuturo - Fondo 2 | 5.99 | Legal | Peruvian | Not applicable |



STOCK MARKET PARTICIPATION

Volcan shares are traded on the Lima Stock Exchange, the Santiago Stock Exchange, and the Latibex in Madrid.

> STOCK MARKET

| SHARE | LIMA STOCK EXCHANGE | SANTIAGO DE CHILE STOCK EXCHANGE | MADRID STOCK EXCHANGE LATIBEX |
|-------------------------------|---------------------|-------------------------------------|----------------------------------|
| Volcan Class "A" common share | VOLCAAC1 | VCMAC1 | |
| Volcan Class "B" common share | VOLCABC1 | VCMBC1 | XVOLB.MC |

STRATEGIC COMMITTEES

These committees are responsible for decision-making and management of the following economic, social, and environmental aspects. Board committees are made up of Company directors, while operational committees are comprised of Company executives. **102-18**

> BOARD COMMITTEES

| COMMITTEE | DUTIES |
|---|--|
| Executive Committee | Research and resolve matters entrusted to it by the Board of Directors, except for accounting matters, distribution of provisional dividends, B3:C7 of financial reports to the general shareholders meeting, and the specific powers that the General Shareholders Meeting concedes to the Board of Directors, in accordance with Article 38 of the bylaws. |
| Audit Committee | "Support management to ensure compliance with the company's Good Corporate Governance standards. Monitor compliance with the company's Strategic Management of Corporate Risk. Guarantee the existence of a proper internal control system. Monitor the implementation of effective controls based on the cost/benefit evaluation. Although there is no formal Risk Committee, most of its duties are carried out by the Audit Committee." |
| Human Resources Committee | "Ensure that an organizational structure is maintained in accordance with business needs, promoting meritocracy and professional development of the company's executives. Define guidelines for compensation plans (current and long-term) for management levels, to ensure alignment with company objectives and consistency with market conditions, to attract and retain the best talent available. Participate in determining annual bonuses for senior management based on performance." |
| Corporate Social Responsibility Committee | "Define annual objectives and priority improvement initiatives in the areas of community, environment, and occupational health and safety. Monitor progress of implementation of priority initiatives, including progress of the Dupont project. Analyze and propose for assessment specific topics that require a Board decision." |

> OPERATIONAL COMMITTEES 102-20

| | COMMITTEE | |
|-------|---|---|
| | Management Committee-Health and Safety in the Workplace | Seguimiento y c e indicadores de |
| Lima | Environmental Affairs Committee | Control y seguin ambientales. |
| | Environmental Allairs Committee | Seguimiento y c y prevenir impac cumplimiento d |
| | | Follow-up and co |
| | Management Committee-Health and Safety in the Workplace | Monitor Occupa (known as SSON |
| | | Participate in sch |
| Units | Human Resource Management Indicators Committee | Control and follo overtime, absen |
| | Environmental Services Management Committee | Responsible for System. |
| | Health Indicators Committee | Follow-up and co |
| | Meeting on operational results, production | Follow-up and co |
| | indicators and costs | Control of mine costs. |

INVESTOR RELATIONS

Volcan strives to maintain constant communication with all stakeholders, above and beyond legal requirements. The Company believes it is essential that current and potential investors are provided with timely, complete, accessible, and transparent information about the key activities that could affect their decisions. In this area, the main achievements in 2017 were:

102-43

- Organization of the required annual general shareholders meeting
- The CEO's or CFO's quarterly presentation of financial statements to specialized analysts who cover Volcan stock
- Participation in three non-deal road shows for institutional and individual investors

DUTIES

control al cumplimiento de estándares, procedimientos de gestión de severidad y accidentabilidad.

miento del trámite de licencias y certificaciones

control de las inspecciones ambientales para identificar actos ambientales y posibles desviaciones en el de la normativa.

control of the Safety Management System.

ational Health, Safety, Environment, and Quality system MAC) committees.

cheduled safety inspections.

low-up of human resource management indicators: nteeism, vacations, selection, medical exams, etc.

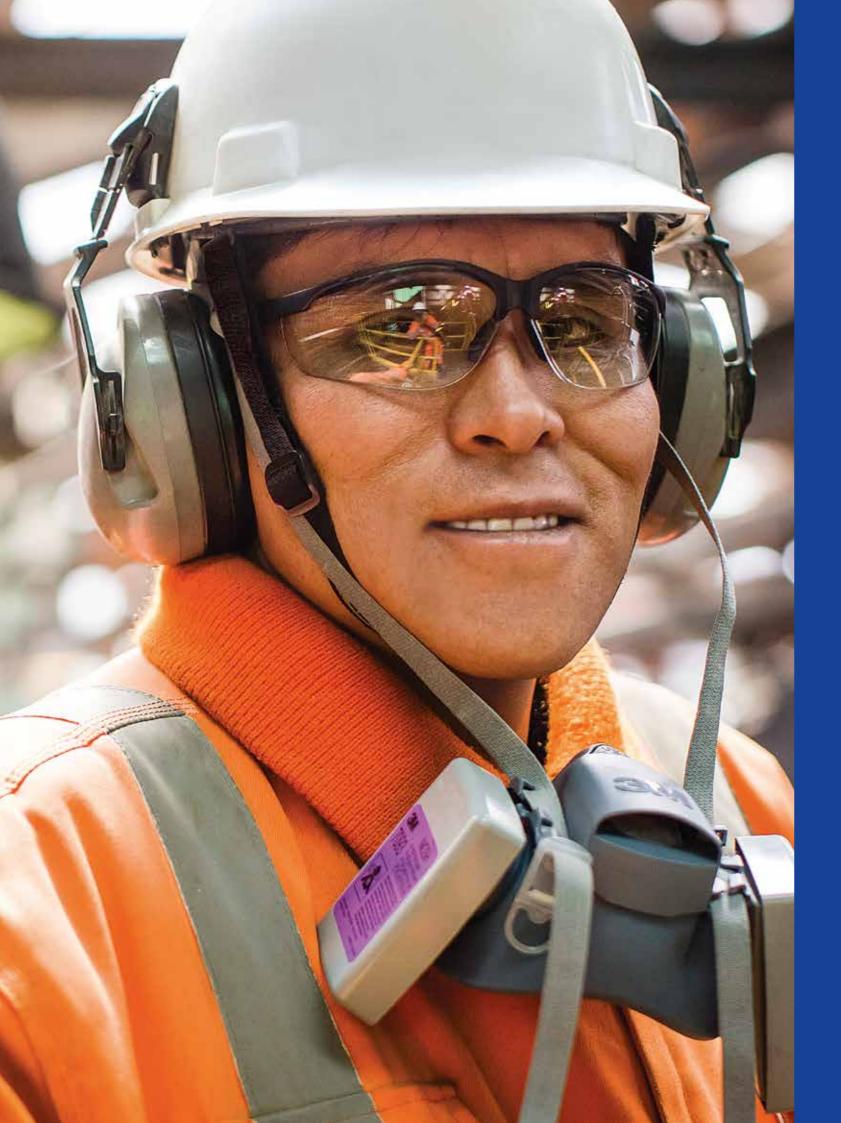
r implementing the Environmental Management

control of occupational health indicators.

control of monthly budget compliance.

e planning, production indicators, physical goals and

- Visits to leading stockbrokers in Peru to present the Company's results and outlook to their personnel and customers
- Guided visits to our mining units for analysts and investors seeking an in-depth understanding of our mining and metallurgy operations
- Participation in conferences with national and international investors, and presentation of the Company's operating and financial results
- Hiring a consultant in corporate communications to improve greater transparency with different stakeholder groups
- Hiring a specialized company to redesign Volcan's corporate website.



06 HEALTH AND SAFETY





VOLCAN UNDERSTANDS THAT PROPER MANAGEMENT OF HEALTH AND SAFETY IS VITAL FOR THE SUSTAINABILITY OF **ITS OPERATIONS** 1031

MANAGEMENT OF OCCUPATIONAL **HEALTH AND SAFETY**

- Our strategy for ensuring appropriate management of occupational health and safety is defined as follows: 103-2
- Management commitment and involvement through the Occupational Health and Safety, Environment, and Quality Policy.
- Safety Management System based on four fundamental pillars: risk evaluation, conditions, training, and behavior. In addition, the Company has implemented management tools for hazard identification, risk evaluation, and determination of controls; inspections; critical risks; training tailored to each position; safe conduct audit; internal work regulations and internal occupational health and safety regulations; development of and training in standards and procedures, etc.
- Participation and consultation through the OHS committee in all operating units.





- Subcontractors involvement in knowing and enforcing the Safety Management System.

EVALUATION OF OCCUPATIONAL HEALTH AND SAFETY

- 103-3
- Safety Management System: Internal and corporate audits.
- Conditions: Inspections focused on critical safety risks.
- Legal: External enforcement (SUNAFIL and OSINERGMIN).
- Health: Monitoring of agents and occupational studies.

2. **OHS TRAINING, COMMUNICATION AND MOTIVATION**

- Annual occupational health and safety training, approved by the joint committee at each operating unit.
- Annual training plan based on legal requirements for the sector.
- Supervisor Development Program focused on developing soft and technical skills.
- Amauta Minero program aimed at operators involved in critical mining operation activities, to develop their technical skills and understanding of the importance of following procedures.
- Training provided to direct employees and contractors.
- Communication campaigns aimed at employees exposed to risks, to prevent accidents.
- Monthly employee recognition and quarterly supervisor recognition on safest work practices, for direct and third parties employees.

ACCIDENT REPORTING

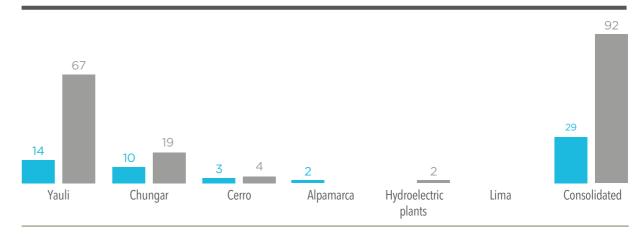
As in previous years, in 2017, Volcan focused on controlling the critical risks of falling rock, mobile vehicles and equipment, energy blocking, and manual tools. By the end of the year, although the number of accidents (disabling, property, high potential) decreased, there were four fatal accidents, which significantly increased the severity index. The units where the accident occurred, currently under stricter supervision, are: San Cristobal, Carahuacra and Islay.

IN 2017, THE ACCIDENT AND FREQUENCY INDEX FELL BY 16% AND 23%, RESPECTIVELY, RELATIVE TO 2016. HOWEVER, THE SEVERITY INDEX ROSE 9% PER MILLION MAN-HOURS WORKED.

> ACCIDENT RATE, FREQUENCY, SEVERITY AND ACCIDENTS 403-2

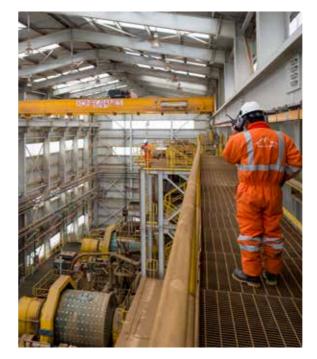
| REGION | YAULI | CHUNGAR | CERRO DE PASCO | ALPAMARCA | HYDROELECTRIC PLANTS | LIMA | CONSOLIDATED |
|--------------------------------------|------------|-----------|-------------------|-----------|-------------------------|---------|--------------|
| Fatal accidents | 3 | 1 | - | - | - | - | 4 |
| Disabling accidents | 19 | 4 | 5 | 1 | - | - | 29 |
| Minor accidents | 59 | 24 | 2 | 1 | 2 | - | 88 |
| Property accidents | 38 | 10 | 1 | - | 10 | - | 59 |
| Accident Index | 1.76 | 0.61 | 0.41 | 0.04 | - | - | 1.15 |
| Frequency Index | 1.39 | 0.68 | 2.16 | 0.92 | - | - | 1.18 |
| Severity Index | 1,270 | 900 | 190 | 46 | - | - | 977 |
| Man-hours worked | 15,854,161 | 7,404,986 | 2,310,227 | 1,085,445 | 531,169 | 739,255 | 27,925,243 |
| Time lost (days) due to accidents | 20,137 | 6,664 | 438 | 50 | - | - | 27,289 |

> VOLCAN ACCIDENTS VS. SUBCONTRACTOR ACCIDENTS



Volcan Contractor

Volcan complies with the regulatory provisions of Supreme Decree No. 024-2016-EM, as amended by Supreme Decree No. 023-2017-EM, and Law No. 29783, the Occupational Health and Safety Law, in regard to registration and communication of accidents. Health and safety incidents and management performance are also tracked by the health and safety committees at each operating unit, which meet weekly, and corporate monitoring committees, which meet monthly in Lima.



1 MORTAL ACCIDENTS

In 2017, there were four accidents with fatal consequences involving three subcontractor employees and one Volcan employee. These incidents were investigated to determine the causes, and corrective measures were taken with an emphasis on supervision, training, and evaluation to strengthen oversight and reduce the accident rate in 2018.

> FATAL ACCIDENT REPORTS

| UNIT | DATE | COMPANY |
|---------|-------------------|------------|
| Chungar | February 24, 2017 | Volcan |
| | May 25, 2017 | Contractor |
| Yauli | October 24, 2017 | Contractor |
| | October 24, 2017 | Contractor |

ASSET SECURITY

VOLCAN SUPPORTS APPROPRIATE INTERACTION OF SURVEILLANCE AND SECURITY PERSONNEL WITH NEIGHBORING COMMUNITIES AND STAKEHOLDERS THROUGH ITS CORPORATE VALUES, RESPECT FOR INDIVIDUALS, AND FAIR TREATMENT. THE COMPANY REJECTS ALL TYPES OF VIOLENCE, ABUSE, AND DISCRIMINATION INSIDE OR OUTSIDE ITS FACILITIES. 103-1

To promote compliance with principles in support of individual rights, Volcan trains, supervises, monitors, and evaluates the actions of surveillance and security personnel to prevent inappropriate conduct. 103-2

Company Security coordinators monitor the behavior of surveillance personnel through controls implemented at each of the mining units. 103-3

No complaints, reports or grievances were received in 2017 from communities or other stakeholders regarding treatment by Volcan surveillance and security staff.

HUMAN RIGHTS TRAINING FOR SECURITY AGENTS

During 2017, security personnel participated in the following trainings at the Cerro de Pasco, Chungar, Alpamarca, and Yauli (San Cristóbal, Mahr Túnel, Carahuacra, Andaychagua and Ticlio) units, hydroelectric plants, and the Lima corporate office: **410-1**

Fundamental principles on human rights and security:

The purpose of this training is to maintain operational security within a framework that ensures respect for fundamental individual rights and freedoms.

Human rights:

Training focused on human values, the right of individuals to receive fair and equitable treatment, as well as nondiscrimination on the basis of origin, age, gender, sexual orientation, education, religion, customs, or socioeconomic status.



Emotional intelligence:

Surveillance personnel learn how to handle emotional situations when facing imminent aggression by third parties, and how to control occupational stress that may affect their activities and oversight duties.

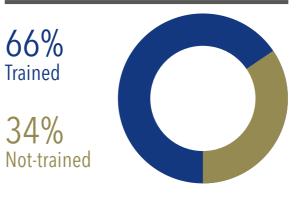
Citizen's arrest:

This course focused on the actions to be followed by surveillance personnel to detain a person found committing an illegal act. The arrest is made according to the legal framework and respecting the person's rights and physical integrity.

> HUMAN RIGHTS TRAINING FOR SECURITY PERSONNEL 2017 410-1

| UNIT | TRAINED | NOT-TRAINED | TOTAL |
|------------------------------|---------|-------------|-------|
| Yauli | 88 | 76 | 164 |
| Chungar | 44 | 18 | 62 |
| Cerro de Pasco | 120 | 12 | 132 |
| Alpamarca | 12 | 6 | 18 |
| Hydro- electric plants | 36 | 0 | 36 |
| Main Office | 11 | 0 | 11 |
| TOTAL | 311 | 112 | 423 |

> PERCENTAGE OF SECURITY PERSONNEL, TRAINED AND NON-TRAINED 410-1







07 HUMAN RESOURCE MANAGEMENT



> TOTAL EMPLOYEES BY GENDER AND EMPLOYMENT CATEGORY 102-8/405-1

| COMPANY | FEMALE |
|--------------------------------|--------|
| Volcan Cía. Minera S.A.A. | 109 |
| Officers | 0 |
| Staff | 81 |
| Employees | 24 |
| Workers | 4 |
| CÍA. MINERA CHUNGAR S.A.C. | 27 |
| Officers | 0 |
| Staff | 24 |
| Employees | 1 |
| Workers | 2 |
| EMP. ADMIN. CERRO S.A.C. | 18 |
| Officers | 0 |
| Staff | 4 |
| Employees | 2 |
| Workers | 12 |
| Óxidos de Pasco S.A.C. | 4 |
| Officers | 0 |
| Staff | 1 |
| Employees | 2 |
| Workers | 1 |
| Hidroeléctrica Huanchor S.A.C. | 1 |
| Staff | 1 |
| Employees | 0 |
| Total general | 159 |
| Officers | 0 |
| Staff | 111 |
| Employees | 29 |
| Workers | 19 |

VOLCAN PROMOTES ADEQUATE LABOR ENVIRONMENT AND CONDITIONS FOR ITS EMPLOYEES, AND THEREFORE ENSURES THEY ARE COMMITTED TO THE COMPANY'S VALUES, CODE OF ETHICS AND CONDUCT, AND VISION AND MISSION.

In addition, it provides the resources, environment, and tools employees need to carry out their activities and prioritize the principle of employment stability. Moreover, the Company ensures respect for collective agreements with all of its unions. At year-end 2017, the Company had a total of 2,959 direct employees in Lima and its operating units. An additional 8,367 employees work with Volcan subcontractor companies, representing 74% of the workforce. 102-7

| MALE | TOTAL | | |
|-------|-------|--|--|
| 1,577 | 1,686 | | |
| 27 | 27 | | |
| 430 | 511 | | |
| 691 | 715 | | |
| 429 | 433 | | |
| 877 | 904 | | |
| 2 | 2 | | |
| 225 | 249 | | |
| 284 | 285 | | |
| 366 | 368 | | |
| 211 | 229 | | |
| 0 | 0 | | |
| 39 | 43 | | |
| 17 | 19 | | |
| 155 | 167 | | |
| 114 | 118 | | |
| 1 | 1 | | |
| 33 | 34 | | |
| 42 | 44 | | |
| 38 | 39 | | |
| 21 | 22 | | |
| 10 | 11 | | |
| 11 | 11 | | |
| 2,800 | 2,959 | | |
| 30 | 30 | | |
| 737 | 848 | | |
| 1,045 | 1,074 | | |
| 988 | 1,007 | | |

| | | | STARI | E STAFF | FIXED-TERM STAFF | | TOTAL | | |
|----------|---|----------------------------------|--------|---------|------------------|------|--------|-------|-------|
| | | | JIADL | LJIAFF | | | | | |
| DIVISION | COMPANY | UNIT | FEMALE | MALE | FEMALE | MALE | FEMALE | MALE | TOTAL |
| | Volcan Cía Minera S.A.A | Yauli y Lima | 65 | 1,186 | 44 | 391 | 109 | 1,577 | 1,686 |
| Mining | Cía. Minera Chungar S.A.C. | Chun- gar y Alpa- marca | 10 | 588 | 17 | 289 | 27 | 877 | 904 |
| - | Emp. Ad- min. Cerro S.A.C. | Cerro de Pasco | 1 | 123 | 17 | 88 | 18 | 211 | 229 |
| | Óxidos de Pasco S.A.C. | Óxidos de Pasco | 1 | 18 | 3 | 96 | 4 | 114 | 118 |
| Energy | Hidroeléc- trica Huanchor S.A.C. | C.H. Huan- chor | 1 | 18 | 0 | 3 | 1 | 21 | 22 |
| Total | | | 78 | 1,933 | 81 | 867 | 159 | 2,800 | 2,959 |

> TOTAL EMPLOYEES BY TYPE OF CONTRACT 102-8/405-1



> STAFFING SIZE BY REGION AND GENDER 102-8/405-1

| | VOLCAN CÍA. MINERA S.A.A | | CÍA. MINERA CHUNGAR S.A.C. | | | EMP. ADMIN. CERRO S.A.C. | | | |
|--------------|--------------------------|-------|----------------------------|--------|------|--------------------------|--------|------|-------|
| REGION | FEMALE | MALE | TOTAL | FEMALE | MALE | TOTAL | FEMALE | MALE | TOTAL |
| Ancash | 0 | 18 | 18 | 0 | 5 | 5 | 0 | 3 | 3 |
| Apurimac | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Arequipa | 1 | 19 | 20 | 0 | 19 | 19 | 0 | 1 | 1 |
| Ayacucho | 0 | 3 | 3 | 0 | 1 | 1 | 0 | 0 | 0 |
| Cajamarca | 0 | 3 | 3 | 0 | 6 | 6 | 0 | 0 | 0 |
| Callao | 6 | 21 | 27 | 3 | 12 | 15 | 0 | 1 | 1 |
| Cusco | 0 | 6 | 6 | 1 | 0 | 1 | 0 | 0 | 0 |
| Huancavelica | 0 | 18 | 18 | 0 | 2 | 2 | 0 | 0 | 0 |
| Huancayo | 1 | 26 | 27 | 0 | 2 | 2 | 0 | 0 | 0 |
| Huánuco | 1 | 17 | 18 | 0 | 18 | 18 | 0 | 1 | 1 |
| lca | 0 | 5 | 5 | 0 | 6 | 6 | 0 | 0 | 0 |
| Junín | 23 | 929 | 952 | 3 | 233 | 236 | 14 | 63 | 77 |
| La Libertad | 1 | 17 | 18 | 0 | 19 | 19 | 0 | 1 | 1 |
| Lambayeque | 0 | 2 | 2 | 0 | 1 | 1 | 0 | 0 | 0 |
| Lima | 74 | 403 | 477 | 15 | 152 | 167 | 2 | 28 | 30 |
| Moquegua | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 5 |
| Pasco | 1 | 82 | 83 | 5 | 393 | 398 | 1 | 109 | 110 |
| Piura | 0 | 2 | 2 | 0 | 7 | 7 | 0 | 0 | 0 |
| Puno | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| San Martín | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tacna | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ucayali | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| Total | 109 | 1,577 | 1,686 | 27 | 877 | 904 | 18 | 211 | 229 |

> STAFFING SIZE BY REGION AND GENDER 102-8/405-1

| | ÓXIDOS DE PASCO S.A.C. | | | HIDROELÉCTRICA HUANCHOR S.A.C. | | | CONSOLIDATED | | |
|--------------|------------------------|------|-------|--------------------------------|------|-------|--------------|-------|-------|
| REGION | FEMALE | MALE | TOTAL | FEMALE | MALE | TOTAL | FEMALE | MALE | TOTAL |
| Ancash | 0 | 6 | 6 | 0 | 0 | 0 | 0 | 32 | 32 |
| Apurimac | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 |
| Arequipa | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 40 | 41 |
| Ayacucho | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 |
| Cajamarca | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 11 | 11 |
| Callao | 0 | 1 | 1 | 0 | 0 | 0 | 9 | 35 | 44 |
| Cusco | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 6 | 7 |
| Huancavelica | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 20 |
| Huancayo | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 28 | 29 |
| Huánuco | 0 | 3 | 3 | 0 | 0 | 0 | 1 | 39 | 40 |
| Ica | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 11 |
| Junín | 0 | 22 | 22 | 0 | 7 | 7 | 40 | 1,254 | 1,294 |
| La Libertad | 0 | 7 | 7 | 0 | 0 | 0 | 1 | 44 | 45 |
| Lambayeque | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 4 | 4 |
| Lima | 1 | 19 | 20 | 1 | 12 | 13 | 93 | 614 | 707 |
| Moquegua | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 5 | 6 |
| Pasco | 3 | 53 | 56 | 0 | 0 | 0 | 10 | 637 | 647 |
| Piura | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 9 |
| Puno | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| San Martín | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Tacna | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| Ucayali | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Total | 4 | 114 | 118 | 1 | 21 | 22 | 159 | 2,800 | 2,959 |



> EMPLOYEES WITH SPECIALIZED COMPANIES 102-8

| COMPANY | 2017 ¹ |
|-----------------|--------------------------|
| Yauli | 4,490 |
| Chungar | 2,609 |
| Cerro de Pasco | 519 |
| Alpamarca | 457 |
| Óxidos de Pasco | 292 |
| Total General | 8,367 |
| 14 (D 21 | |

¹ As of December 31.

TALENT RECRUITMENT AND RETENTION STRATEGY

Identifying talent and motivating performance improvement is a fundamental concept for Volcan. To achieve this goal, the Company has developed strategies to retain and manage talent through:





- Annual training plan
- Career plan
- Personnel management
- Salary planning
- Performance evaluation

TRAINING AND DEVELOPMENT

One of Volcan's main pillars is to achieve excellence in its processes. Therefore, the Company has developed an annual training plan that enables it to achieve strategic objectives and meets operational and employee needs. This plan enables the Company to achieve exceptional results and ensure the availability of qualified labor. 103-2

The plan encompasses programs that help to close gaps in knowledge and employee skills. In addition, it aims at preventing accidents and having personnel trained in new developments and skills to manage operations efficiently. Moreover, it promotes continuous improvement of employee and operation competitiveness and productivity. 103-1

Volcan invests time and resources in internal and external training. In 2017, the Company invested 135,271 manhours in training to reach an average of 45.7 hours of training per worker. 404-1

> AVERAGE MAN-HOURS OF EMPLOYEE TRAINING BY PROFESSIONAL CATEGORY AND GENDER 404-1

| | PER | PROFESSIO | NAL CATEGOR | PER GENDER | | | |
|-----------------------------------|----------|-----------|-------------|------------|--------|---------|---------|
| | OFFICERS | STAFF | EMPLOYEES | WORKERS | FEMALE | MALE | TOTAL |
| Number of workers | 30 | 848 | 1,074 | 1,007 | 159 | 2,800 | 2,959 |
| Training man-hours | 1,911 | 50,679 | 49,419 | 33,261 | 12,297 | 122,974 | 135,271 |
| Average training hours per worker | 63.7 | 59.8 | 46.0 | 33.0 | 77.3 | 43.9 | 45.7 |



IN 2017, NOTABLE INTERNAL TRAINING PROGRAMS INCLUDED SUPERVISOR DEVELOPMENT AND OPERATOR TRAINING BY VOLCAN TRAINING CENTER. 404-2

The Supervisor Development Program is focused on training mining unit supervisors. The goal of the program is to strengthen knowledge and conduct necessary to achieve excellence in relation to corporate competencies and work procedures, prioritizing workplace safety management. The program includes classroom and field tutoring by instructors in the work areas. More than 800 supervisors participated in this training in 2017.

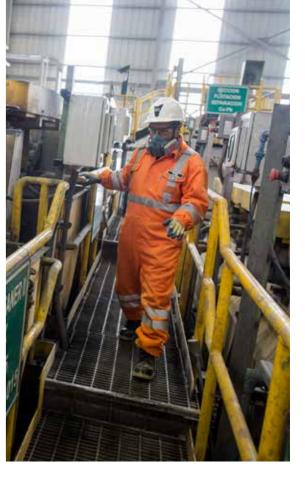
The Operator Training Program trains heavy equipment operators at the Volcan Training Center located at the Yauli unit. The participants undergo 48 hours of training. The program includes theoretical and in-person training, e-learning, practice in simulator and equipment, and field tutoring.

In addition, in 2017, training sessions were held for executives and leading staff. More than 120 members, including managers, deputy managers, superintendents and unit heads received training across all mining units. The goal was to strengthen leading teams, boosting their soft skills and optimizing the interaction between the different teams at the mining units to create work synergies.

The Company's performance in this area is evaluated using a set of indicators that includes the total number and average of training man-hours and the number of participants in the programs. Other indicators related

> TRAINING PARTICIPANTS AND MAN-HOURS IN SPECIAL PROGRAMS 404-1

| | SUPERVISOR DEVELOPMENT | OPERATOR TRAINING | | |
|--------------------|------------------------|-------------------|--------|--|
| INDICATORS | PROGRAM | PROGRAM | TOTAL | |
| Participants | 870 | 107 | 977 | |
| Training man-hours | 34,416 | 5,661 | 40,077 | |



to workplace safety (reduction of workplace accidents), fulfillment of goals per mining unit and management, the results of the organizational climate survey, and evaluation of competencies, are also part of performance management. **103-3**

Volcan's commitment to its employees is also manifested in other aspects. The Company provides financial support for post-graduate studies (master's degrees or certificates) for personnel who have demonstrated excellent performance and high potential. 404-2

In periods of transition to labor inactivity, the Company offers placement and assistance such as training and guidance. In addition, it offers outplacement workshops to employees who occupied key positions in the Company and are retiring.

EMPLOYEE WELL-BEING AND WORKING CONDITIONS

THE COMPANY STRIVES TO PROMOTE A GOOD WORKING ENVIRONMENT AND APPROPRIATE CONDITIONS FOR ALL OF ITS EMPLOYEES.

Towards that end, all areas of the Company are committed to complying with procedures established in the different operations, mainly collective bargaining agreements, code of ethics and conduct manual, anti-fraud policy, privileged information management manual and internal work rules. 103-2

Organizational climate committees were held in Lima and the operating units; these multidisciplinary groups analyzed the factors affecting organizational climate and generated the respective action plans. As a result, workshops were held on topics such as leadership, improved employee transportation, improved dining services, nutrition services, physical and mental health advising, as well as recognition of safety and productivity improvements, sports tournaments, birthday celebrations, and holidays, among others. 102-43

To measure the impact of these improvements, Volcan has used the Organizational Climate Survey to measure levels of personnel satisfaction and commitment since 2014. Results of the 2017 survey show a 65% satisfaction level.

In addition, labor relations committees receive reports on progress in compliance with commitments and management indicators. In 2017 there were no changes in labor relations management. 103-3



> MECHANISMS FOR DIALOG WITH EMPLOYEES 102-43

| MECHANISM | |
|--|--|
| Meetings on internal agreements | Collective complaints and obs issues. Agreements recorded and in indicators. |
| Bi-monthly scheduled meetings between unions and labor relations areas | Labor, safety and operational agenda are monitored throug Workplace Relations Committed |
| Reception of individual complaints | Complaints are received as es collective agreement. The imm or in his/her stead the head of |
| Open Doors | Quarterly meeting to close the UEAs. Its purpose is to commu- in terms of safety, operations, relevant issues for the Compa directions to resolve any quer |
| Quarterly meeting | Meeting with the Metallurgica Company's economic and fina committed to corporate goals |

Dialog procedures and Volcan labor policies are evidence of the Company's interest in establishing closer connections with employees and union organizations. In addition, collective bargaining agreements and internal policies establish procedures for addressing, overseeing, and tracking commitments, which are carried out through regular meetings with the various unions and regular joint inspections of work areas.



General labor relations management indicators measure operations stoppages by personnel due to complaints that have not been addressed or collective bargaining processes. In 2017 there were no strikes longer than one week or employee blockades. MM4

DESCRIPTION

bservations are received on work and operational d in minutes are monitored during periodical meetings

- al complaints from UEAs are handled. Items on the agh indicators and reviewed through a Monthly ittee and sent to the Operations Department.
- established in the internal work regulations and in the nmediate supervisor is responsible for handling these, of Workplace Relations for the respective UEA.
- he gaps between the CEO and staff, in both Lima and in nunicate the current situation and company prospects s, finance, projects, workplace climate and other pany. This is a space that promotes open dialog in both eries or concerns.
- ical Mining Workers Federation of Volcan to present the nancial position. The aim is to keep staff informed and ls.

> LOCAL EMPLOYEES (DIRECT AND SUBCONTRACTED)

102-8

| UNIT | DETAIL |
|-------------------------|--|
| Yauli | 120 who belong to the community local of 1,323 residents |
| Hydroelectric plants | 31 employees who belong to the local community of 2,850 residents (11 communities) |

ECONOMIC Well-Being

The majority of personnel is comprised of workers and employees at the Yauli, Cerro de Pasco, and Chungar units. Salaries are established in accordance with the provisions of the collective bargaining agreement; they are never based on minimum-wage laws. 103-2/202-1

> RELATIONSHIP BETWEEN LOWEST SALARY AND MINIMUM LEGAL SALARY

| RELATIONSHIP BETWEEN LOWEST SALARY AND MINIMUM LEGAL SALARY | |
|---|----------|
| Minimum legal salary (SML) | S/.850 |
| Lowest operator salary | S/.1,560 |
| Ratio (Lowest salary/SML) | 1.80 |

VOLCAN CONSIDERS ESSENTIAL IDENTIFYING TALENT AND MOTIVATING THE IMPROVEMENT OF THE PERFORMANCE OF ITS COLLABORATORS



SOCIAL BENEFITS FOR EMPLOYEES

Volcan provides the following social benefits to all full-time employees. 401-2

> SOCIAL BENEFITS

| SOCIAL BENEFITS | DETAIL |
|--|--|
| Medical Insurance – ESSALUD | Medical insurance for all workers and dependents |
| Life Insurance | To all workers from the first day they start working |
| Accident Insurance (Mas Vida - ESSALUD) | Personal accident insurance that grants compensation in case of death or total or partial permanent disability |
| Complementary workers compensation insurance (SCTR) | Insurance that provides health and economic benefits for workers with occupational disease and / or work accidents at high risk |
| Incapacity or invalidity coverage (medical atentions) | In case of disability (common accident, illness) you have the coverage of Rímac EPS or Essalud. On the other hand, work accidents are covered by Rímac (since 2016). |
| Incapacity or invalidity coverage (economic benefits) | In the case of temporary disability, it is assumed by Essalud, in the case of permanent disability and as a result of an accident at work is assumed by the ONP or Mapfre. |
| Subsides for maternity / paternity | Rest for maternity is 98 days and for paternity is 4 days. |
| Pension fund | Benefit acquired by the worker for his contributions to the pension system. Each member has in their name an individual savings account managed by an AFP or the ONP. |
| Benefit to managers, deputy managers and superintendents. | Benefit to managers, deputy managers and superintendents. |
| Health Insurance (EPS) for the employee and family | EPS medical insurance for staff workers, includes insurance for parents and children over 18 years. The group of workers and employees ha |

PERFORMANCE MANAGEMENT

THE PERFORMANCE MANAGEMENT PROCESS IS PART OF THE EMPLOYEE MANAGEMENT CYCLE AND IS MANIFESTED THROUGH RECOGNITION OF INDIVIDUAL CONTRIBUTIONS IN THE PERIOD EVALUATED. IN 2017, A TALENT MANAGEMENT PLAN WAS IMPLEMENTED. IT INCLUDES PERFORMANCE MANAGEMENT AND COMPENSATIONS. 103-2

In addition, the talent retention plan continued through salary planning and prioritizing training activities for outstanding personnel.



SIGNIFICANT CHANGES IN **THE LABOR FORCE**

THE INCREASE IN PERSONNEL TURNOVER IN THE **MARKET TRIGGERED A PROCESS OF PERSONNEL REDUCTION. VOLCAN WAS ALSO AFFECTED** BY THIS GLOBAL SITUATION. IN 2016, 466 EMPLOYEES WERE TERMINATED, MAINLY DUE TO CONTRACT EXPIRATION, RESIGNATION, AND MUTUAL CONSENT. 102-8

> EMPLOYEES TERMINATED IN 2017

| COMPANY | 2017 |
|--------------------------------|------|
| Volcan Cía Minera S.A.A | 249 |
| Cia Minera Chungar S.A.C. | 148 |
| Emp. Admin. Cerro S.A.C. | 49 |
| Oxidos de Pasco S.A.C. | 19 |
| Hidroeléctrica Huanchor S.A.C. | 1 |
| Total | 466 |

> EMPLOYEES TERMINATED BY CAUSE

| CAUSE | 2017 |
|---------------------------|------|
| Resignation | 197 |
| Mutual Consent | 133 |
| Contract Expiration | 109 |
| Completion of Test Period | 14 |
| Termination | 9 |
| Gross Misconduct | 3 |
| Death | 1 |
| Total | 466 |

Annual employee turnover at Volcan was 15.7%; the majority of terminated employees were from Junín, Pasco, and Lima. 401-1

> ANNUAL EMPLOYEE TURNOVER BY AGE RANGE AND GENDER

| | | | AGE RANGE (YEARS) | | PER GENDER | | | |
|----------|-----------------------------------|------------------------|-------------------|---------|------------|--------|-------|-------|
| DIVISION | COMPANY | UNIT | 18 - 29 | 30 - 50 | MÁS DE 50 | FEMALE | MALE | TOTAL |
| | Volcan Cía Minera S.A.A | Yauli y Lima | 1.4% | 5.4% | 1.6% | 0.8 % | 7.6% | 8.4 % |
| Mining | Cia Minera Chungar S.A.C. | Chungar y Alpamarca | 0.7% | 3.7% | 0.5% | 0.4 % | 4.6 % | 5.0 % |
| winning | Emp. Admin. Cerro S.A.C. | Cerro de Pasco | 0.5% | 0.9% | 0.2% | 0.6 % | 1.1 % | 1.6 % |
| | Óxidos de Pasco S.A.C. | Óxidos de Pasco | 0.1% | 0.4% | 0.7% | 0.0 % | 0.6 % | 0.6 % |
| Energy | Hidroeléctrica Huanchor S.A.C. | C.H. Huanchor | 0.0% | 9.1% | 0.0% | 0.7 % | 0.0 % | 0.0 % |
| Total | | | 2.8 % | 10.5% | 2.4% | 1.7% | 14.0% | 15.7% |

> ANNUAL EMPLOYEE TURNOVER BY REGION

| REGION | VOLCAN CÍA. MINERA S.A.A | CÍA. MINERA CHUNGAR S.A.C. | EMP. ADMIN. CERRO S.A.C. | ÓXIDOS DE PASCO S.A.C. | HIDROELÉCTRICA HUANCHOR S.A.C. | CONSOLIDATED |
|--------------|-----------------------------|-------------------------------|-----------------------------|---------------------------|-----------------------------------|--------------|
| Ancash | 0.2% | 0.2% | 0.4% | 0.9% | | 0.2% |
| Arequipa | 0.4% | 1.0% | 1.3% | | 4.5% | 0.7% |
| Ayacucho | 0.1% | | | | | 0.0% |
| Callao | 0.2% | 0.3% | 0.5% | | | 0.2% |
| Cajamarca | 0.1% | | | | | 0.0% |
| Cusco | | 0.1% | 0.4% | | | 0.0% |
| Huancavelica | | 0.2% | | | | 0.1% |
| Huánuco | 0.2% | 0.4% | | | | 0.3% |
| Ica | 0.1% | 0.1% | | 0.9% | | 0.1% |
| Junín | 4.9% | 3.9% | 1.3% | 1.8% | | 4.1% |
| La Libertad | 0.1% | 0.4% | 2.6% | 0.9% | | 0.4% |
| Lambayeque | | 0.1% | | | | 0.0% |
| Lima | 6.8% | 5.6% | 3.1% | 7.1% | | 6.0% |
| Moquegua | | | 1.0% | | | 0.0% |
| Pasco | 1.7% | 3.9% | 12.2% | 5.3% | | 3.2% |
| Tacna | 0.1% | | | | | 0.0% |
| Total | 14.8% | 16.4% | 21.3% | 16.8% | 4.5% | 15.5% |

This level of turnover requires rapid, appropriate actions to cover positions and ensure that the Company's activities are not affected. During the year, the Company was able to fill positions vacated due to layoffs and other positions, for a total of 684 new hires. All positions have been budgeted and authorized by Management. 103-1

The majority of personnel hired in 2017 work in Lima, Junín, and Pasco. It is also worth mentioning that most of these hires are from the local community or skilled workers who live close to operations.



> HIRING BY PLACE OF ORIGIN

| REGION | VOLCAN CÍA. MINERA S.A.A | CÍA. MINERA CHUNGAR S.A.C. | EMP. ADMIN. CERRO S.A.C. | ÓXIDOS DE PASCO S.A.C. | HIDROELÉCTRICA HUANCHOR S.A.C. | CONSOLIDATED |
|------------------|-----------------------------|----------------------------------|-----------------------------|---------------------------|-----------------------------------|--------------|
| Amazonas | 1 | 1 | 0 | 1 | 0 | 3 |
| Ancash | 7 | 3 | 1 | 3 | 0 | 14 |
| Apurimac | 7 | 2 | 0 | 0 | 0 | 9 |
| Arequipa | 15 | 12 | 1 | 0 | 1 | 29 |
| Ayacucho | 4 | 4 | 0 | 0 | 0 | 8 |
| Callao | 5 | 1 | 0 | 0 | 0 | 6 |
| Cajamarca | 2 | 0 | 2 | 0 | 0 | 4 |
| Cusco | 4 | 3 | 2 | 0 | 0 | 9 |
| Huancavelica | 42 | 3 | 1 | 0 | 0 | 46 |
| Huánuco | 10 | 6 | 0 | 0 | 0 | 16 |
| lca | 4 | 2 | 0 | 0 | 0 | 6 |
| Junín | 157 | 34 | 15 | 5 | 0 | 211 |
| La Libertad | 6 | 7 | 3 | 2 | 0 | 18 |
| Lambayeque | 4 | 1 | 0 | 0 | 0 | 5 |
| Lima | 94 | 31 | 7 | 3 | 0 | 135 |
| Loreto | 0 | 1 | 0 | 0 | 0 | 1 |
| Madre de Dios | 0 | 1 | 0 | 0 | 0 | 1 |
| Moquegua | 2 | 0 | 0 | 0 | 0 | 2 |
| Pasco | 56 | 38 | 34 | 10 | 0 | 138 |
| Piura | 7 | 3 | 0 | 0 | 0 | 10 |
| Puno | 6 | 2 | 2 | 0 | 0 | 10 |
| San Martín | 0 | 1 | 0 | 0 | 0 | 1 |
| Tacna | 0 | 1 | 1 | 0 | 0 | 2 |
| Ucayali | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 433 | 157 | 69 | 24 | 1 | 684 |



LOCAL HIRING

PROVIDING EMPLOYMENT TO TRAINED PERSONNEL IN THE AREA OF THE DIFFERENT MINING UNITS IS A KEY **FACTOR IN PROMOTING LOCAL DEVELOPMENT AND STRONG** COMMUNITY RELATIONS. 1031/1032

In this aspect, Volcan has maintained its commitment, in on hiring personnel for operations. The number of local apply for employment varies in each community.

position, then determining the worker profile and seeking candidates. The position requirements are communicated Social Responsibility office in each unit. The ultimate goal is to meet, in a reasonable manner, the demand for work in

Yauli Unit (employment offers sent)

offers at subcontractors.

San Juan Bautista Pachachaca Community: 24 offers for

subcontractors. No applicants.

Chungar Unit

at Chungar to prioritize community personnel hiring, following the established procedure. The percentage of subcontractor payrolls was 20%.

FIRMLY RESPECTING **HUMAN RIGHTS**

RESPECT FOR HUMAN RIGHTS IS A THEME THAT VOLCAN PROMOTES BOTH INSIDE AND OUTSIDE THE COMPANY, INCLUDING SUPPLIERS AND SUBCONTRACTORS. TO PROMOTE COMPLIANCE, THE COMPANY SPONSORS TRAINING TALKS ON LABOR REGULATIONS AND HAS A PROCESS FOR PERMANENT OVERSIGHT AND ENFORCEMENT OF SUBCONTRACTOR HIRING. IN ADDITION, AS PART OF THEIR ORIENTATION WHEN JOINING THE COMPANY, NEW EMPLOYEES RECEIVE A COPY OF THE CODE OF ETHICS AND CONDUCT AND SIGN A COMMITMENT TO RESPECT THE CORPORATE VALUES AND PRINCIPLES. 103-2

To provide guarantees and prevent possible cases of human rights abuses, Volcan offers an anonymous "Complaint Line". In 2017 the Company did not receive any reports or become aware of any incidents of discrimination, forced labor, or child labor in its operating units. 406-1/408-1/409-1

Non-discrimination

Eradicating discrimination of any kind is important to Volcan. Managing this issue strengthens the Company's workplace climate. Towards that end, Volcan has programs to support employees, their families, and the community in general that are based on prevention, education, and advice. In addition, the Complaint Line is provided to detect cases of discrimination. Reports can be made confidentially and anonymously. 103-1/103-2

Forced labor

Volcan condemns any form of forced labor in all of its operations. Compliance with measures to eliminate poor labor practices is an opportunity to improve workplace climate. 103-1

In 2017, there were no reports of forced labor. Volcan complies with labor laws and requires respect for recognition of employee overtime. The Company's Internal Workplace Regulation is aligned with the General Law on Workplace Inspection, the Internal Regulation on Workplace Health and Safety, the Code of Ethics and Conduct and the Policy on Safety, Occupational Health, Environment and Quality. Volcan also offers support programs for its employees and their families that include prevention of forced labor risks. 103-2/409-1

Child labor

Under the Code of Ethics and Conduct, Volcan has a Human Rights declaration (item 2.15) wherein it stipulates that no minor will be hired, except as provided by Law. 103-1

Management: Under the agreement executed with the Huayllay and Huaychao communities, Volcan opens Community Employment positions for children of community members during the summer months of January, February and March. The participants are not forced or coerced to do the job, and the activities are coordinated and led by Community Boards, with the authorization of the minors' legal tutors. 408-1

In addition, child labor is forbidden by the procedures, regulations and internal management controls in place for hiring personnel.

To prevent the risk of child labor, Volcan is firmly committed to help communities grow by providing education, aiding the implementation of educational infrastructure, providing teachers and a psychologist, holding extracurricular workshops and a school for parents, among others. 103-2



2017 VOLCAN SUSTAINABILITY REPORT HUMAN RESOURCE MANAGEMENT

FREEDOM OF ASSOCIATION AND COLLECTIVE BARGAINING

VOLCAN RESPECTS THE RIGHT TO COLLECTIVE BARGAINING, AS ESTABLISHED IN THE COLLECTIVE BARGAINING AGREEMENT AND INTERNAL WORK REGULATIONS. THESE DOCUMENTS INCLUDE COMMITMENTS TO IMPROVE WORKING CONDITIONS AND ECONOMIC BENEFITS THE COMPANY PROVIDES IN AGREEMENT WITH EIGHT UNIONS TO AVOID THE IMPACT OF LABOR STRIKES OR STOPPAGES. 103-1

In addition, Volcan respects its employees' freedom to join unions and participate in collective bargaining, as established by both domestic and international law.

> SUMMARY OF UNIONIZED PERSONNEL BY OPERATING UNIT 407-1

| | UNIONIZED | | NON-UNIONIZED | | |
|----------------|-----------|----------|---------------|----------|-------|
| UNIT | WORKER | EMPLOYEE | WORKER | EMPLOYEE | TOTAL |
| Yauli | 377 | 200 | 50 | 456 | 1,083 |
| Chungar | 161 | 50 | 176 | 147 | 534 |
| Cerro de Pasco | 83 | 0 | 84 | 0 | 167 |



Employees are completely free to meet and associate with one another in the entity or union of their choice.

Collective bargaining with Volcan's unions is carried out through direct dialogue.

Toward that end, the Company signs collective bargaining accords or agreements with unions that represent the majority of its employees. During these negotiations, the parties evaluate salary increases and working conditions in the operating units. (Freedom of Association and Collective Bargaining DMA). It should be noted that employees of subcontractor or supplier companies are not represented by unions. **103-2** /103-3

2017 VOLCAN SUSTAINABILITY REPORT HUMAN RESOURCE MANAGEMENT

> UNIONS IN EACH OPERATING UNIT 407-1

| UNIT | UNION | COLLECTIVE BARGAINING | STATUS |
|----------------------|--|---|---------------------|
| | San Cristóbal Mine Workers' Union | Metallurgical Mining Workers Federation of Volcan Compañía Minera S.A.A. | Began in July 2017 |
| | Andaychagua Metallurgical Mine Workers' Union | 2017/2018 period | |
| Yauli | Mahr Tunel Concentrate Plant Workers' Union | | Direct bargaining |
| | Carahuacra Workers' Union | | |
| | Volcan Cía. Minera S.A.A. – Yauli | Volcan Cía. Minera S.A.A. – Yauli Employees Union | Not started |
| | Employees Union | 2018 period | |
| <u> </u> | Animón Mine Workers' Union | Animón Mine Workers' Union | Started March 2017 |
| ngai | | 2017/2018 period | Direct bargaining |
| Chungar | Compañía Minera Chungar S.A.C. | Compañía Minera Chungar S.A.C. Workers' Union | Not started |
| U | Workers' Union | 2017/2018 period | |
| Cerro de Pasco | Trade Union of Mining Workers | Cerro de Pasco Metallurgical Mine Workers' Union | Started August 2017 |
| Pas Pas | Metallurgists of Cerro de Pasco | 2017/2018 period | Direct bargaining |



UNDER THE COMPANY'S POLICY, BENEFITS CONTAINED IN COLLECTIVE BARGAINING AGREEMENTS APPLY TO ALL VOLCAN EMPLOYEES, REGARDLESS OF WHETHER THEY BELONG TO A UNION. (G4-11). IT IS IMPORTANT TO NOTE THAT 67% OF WORKERS AND 29% OF EMPLOYEES BELONG TO SOME KIND OF UNION AND THEIR SALARY INCREASES AND WORKING CONDITIONS ARE REGULATED THROUGH COLLECTIVE BARGAINING PROCESSES. 102.41

As in other areas, the Company provides a "Complaint Line" for reporting cases of discrimination or infringement of the rights of unionized employees. The Company did not receive any reports in 2017. 406-1

Regulatory compliance with unions

Compliance with legal labor obligations and collective bargaining agreements improves relations with employees, strengthens the continuity of operations, and enables the Company to understand personnel concerns and needs. 103-1

Volcan uses the following tools to manage labor relations and compliance with legal labor obligations and agreements: 103-2

- Regular meetings with union representatives, as established by the Company and the unions. These meetings take place every two weeks or every month. They are an opportunity to hear grievances or contributions from the employees represented.
- Continuous improvement meetings. These meetings include the participation of Operations Management. The purpose of these meetings is to obtain regular feedback from employees through their unions, and follow up on implementation.
- Meetings with union representatives and the Financial Management and Accounting to provide regular updates on the economic and financial situation of the operations.

Finally, labor relations committees meet monthly to evaluate management indicators related to: 103-3

- The number of items addressed in the bi-weekly or monthly agendas with different unions.
- Compliance with commitments made to unions arising from internal items (agendas).
- Number of workers who belong to unions, of total operations personnel.
- Number of days of labor stoppages due to union grievances.



80 CUSTOMER MANAGEMENT



SATISFYING ALL OF OUR CUSTOMERS IS PART OF THE MISSION OF VOLCAN'S EXECUTIVE MANAGEMENT. 103-2

At the start of each fiscal year, management evaluates the production budget of the Operations area and agrees on a delivery plan with each customer for the coming year. Therefore, efforts throughout the year are focused on fulfilling each customer plan, which includes details on tonnage, material quality, description of delivery methods, schedules, and destinations.

Volcan has good relations with its customers, based on constant, fluid communication throughout the year. This way, any event or change that occurs during the contract term is promptly communicated. 102-43

Customer satisfaction evaluation includes analysis of annual delivery plan fulfillment in terms of the quantity and quality of concentrates delivered. ¹⁰³⁻³

In addition, to anticipate, evaluate, and communicate any deviation from planned deliveries to the customer, meetings and committees are organized with the Operations and Logistics Division. It is worth emphasizing that possible deviations occur mainly due to production, logistics, or operational reasons.

Executive Management evaluates the following indicators:

- International prices of metals sold by Volcan.
- Concentrates delivered under the sales contract with each client.
- Quality of concentrates in relation to agreed technical specifications. 102-44

VOLCAN'S GOOD RELATIONSHIP WITH ITS CLIENTS IS BASED ON CONSTANT AND FLUID COMMUNICATION THROUGHOUT THE YEAR





099 MANAGEMENT OF SUBCONTRACTORS AND SUPPLIERS

2017 VOLCAN SUSTAINABILITY REPORT MANAGEMENT OF SUBCONTRACTORS AND SUPPLIERS

\bigcirc <mark>ت</mark>گ δŏ Supply warehouses in Consumables Transit and spare parts warehouse mining units suppliers <u>L</u> **{** Concentrate warehouses ir mining units Mine

Client (Foreign)

Volcan's 2017 supply chain is shown in the figure below. 102-9

0

 \triangle

Client

(National)

EFFICIENT MANAGEMENT OF SUBCONTRACTORS AND SUPPLIERS

SUBCONTRACTORS AND SUPPLIERS ARE A FUNDAMENTAL PART OF THE VOLCAN SUPPLY CHAIN. THEY PROVIDE GOODS, SERVICES, INFORMATION, AND RESOURCES TO MEET THE **NEEDS OF ALL FUNCTIONAL AND OPERATING** UNITS. 103-1

In 2017 Volcan disbursed USD 347 million to subcontractors and suppliers. Annual procurement of supplies and regular spare parts totaled USD 155 million and subcontractors' procurement totaled USD 192 million.

> AVERAGE AMOUNT AND PAYMENTS TO SUPPLIERS AND SUBCONTRACTORS IN 2017 102-9

| CLASSIFICATION | AVERAGE AMOUNT | ANNUAL PAYMENT (MM USD) |
|----------------|-------------------|----------------------------|
| Suppliers | 358 | 155 |
| Contractors | 76 | 192 |
| Total | 434 | 347 |

To ensure appropriate economic, social, and environmental performance, Volcan supervises its subcontractors to ensure that they comply with labor laws and are aligned with Company principles, values, and policies. Toward that end, the Company strictly controls compliance with regulations and obligations in the operating units. In addition, the subcontractor invoice payment procedure is subject to controls; payment is released only after the subcontractor submits evidence of compliance with labor obligations for the previous month. 103-2

Consequently, all subcontractor personnel must work in accordance with the Volcan Occupational Health and Safety and Environment System, as well as best practices in social responsibility promoted by the Company. Each worker is required to receive a minimum number of hours of training



and actively participate in all programs and talks given each month.



PROCUREMENT PRACTICES

VOLCAN'S PROCUREMENT POLICY PRIORITIZES LOCAL HIRING FOR SERVICES AND CERTAIN INPUTS, AS LONG AS REQUIRED QUALITY CONDITIONS ARE MET AND GOODS AND SERVICES ARE OFFERED AT COMPETITIVE PRICES. THE COMPANY ALSO ENCOURAGES SUBCONTRACTORS OR SUPPLIERS TO HIRE PERSONNEL FROM THE AREA OF INFLUENCE OF THE OPERATING UNIT, MAINLY FOR POSITIONS REQUIRING UNSKILLED AND NON-TECHNICAL LABOR. 103-2

In addition, Volcan has quality standards for the raw materials it purchases and makes periodic visits to different suppliers. The Company also follows a procedure that establishes technical and financial mechanisms for procuring goods and services.

In 2017 materials and supplies purchased domestically represented 96.4% of all procurement, while imported purchases represented 3.6%. 204-1

Volcan set aside a percentage of its annual budget for local suppliers to purchase products and services in the areas of its major operations (defined as any company that provides services or goods and is located within the area of influence of mine operations).

- 17% of all service contracts are local
- 3.4% of all goods purchases were local.

VOLCAN
APPLIES
QUALITY
STANDARDS
FOR THE RADS
FOR THE RADS
FOR THE RADS
FOR THE VACIOURES
AND PERFORMS
PERIODIC VISITS
TO THE VARIOUS
SUPPLIERS

PH-4-07

PH-4-01

PH-9-010

PN-4-009

PM-9-008



PROPER PRODUCT MANAGEMENT

CORRECT HANDLING AND MANIPULATION OF VOLCAN PRODUCTS NOT ONLY ENSURES EFFICIENT MANAGEMENT BUT ALSO APPROPRIATE ENVIRONMENTAL CARE THROUGHOUT THE LOGISTICS CHAIN. 101/102

Toward that end, the Company strives to work with partners who specialize in transportation, storage, shipping, etc. In addition, the Company uses Material Safety Data Sheets (MSDS) for each of its products. These reports are available to all agents in the chain. This procedure enables the Company to ensure the transparency of information about the chemical composition, use, storage, handling, emergency procedures, and potential health effects of its products. As a result, customers, shipping companies, logistics agents, and warehouses are duly informed, as deliveries are fulfilled. All MSDS reports are reviewed and periodically updated to ensure their applicability.





10 COMMUNITY RELATIONS MANAGEMENT





SOCIAL RESPONSIBILITY IS A STRATEGIC AREA OF THE VOLCAN CORPORATE VISION TO REACH ITS GOAL OF BECOMING A LEADING MINING COMPANY BY 2021.

Toward that end, our social management is focused as a tool that enables us to carry out operations in a sustainable manner and have a positive impact on the development of communities within our direct area of influence. In this way, we strive to strengthen our relationship and dialog with community leaders as well as important government authorities and social groups to generate a partnership committed to development and community well-being. 103-1

Our sustainable management activities are established in Sustainable Development Plans and Community Relations Plans, which are focused on collaboration through:

- Productive development projects that involve diversification beyond mining itself
- Promoting local employment through formalization and growth of community enterprises that provide goods and services to the mining industry
- Strategic areas of development such as education, health, nutrition, institution-building, and infrastructure
- Public-private partnership mechanism to reinfrastructure and utilities gap. 103-2

The basis of open and harmonious communication is respect for people, their customs, and their traditions. That is the essence of Volcan's relations with one of its main stakeholder groups: the communities within its area of influence. One of the pillars of community relations management is the expectations that communities have of the Company.

In this aspect, Volcan has Open Door Policies to receive all members from stakeholder groups. It also has communication mechanisms, such as: Procedures to address complaints and grievances, and inquiries directly related to the operations, environmental matters, among others.

As part of its communication efforts, Volcan publishes a journal at each unit to explain what it does for the community and share relevant articles related to education, health, safety, environment, among others. In addition, public communications are made on local radio stations. 102-43

KEY COMMUNITY EXPECTATIONS

- A strategic alliance that promotes community development
- Development interventions based on the sustainable development plan
- Expectation that the Company will prioritize hiring members of the local community and their families (direct or indirect hiring)

Current law requires that companies conduct environmental and social studies before initiating any extractive activity. These instruments clearly establish the mechanisms for assessing and managing the impacts of operational activities on the surrounding population. This information enables development of environmental and social baselines that describe the environmental and socioeconomic characteristics of the area prior to the start of activities. 103-1

The baselines are used to determine the potential social impacts of the activity or mining project and to develop measures to mitigate or control negative impacts and reinforce positive ones. These measures are set forth in the Community Relations Plan (CRP) which also documents the population's concerns and desires. 103-2

Based on this analysis, the following programs were established:

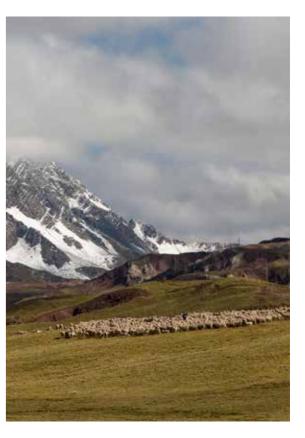
- Communication and information programs
- Education programs
- Health programs
- Employment promotion programs
- Local goods and services procurement programs
- Cultural promotion programs, among others 413-1

Volcan manages mechanisms for involvement, follow-up, and control of the community relations activities contained in its policies, rules, and procedures, including:

- Community Relations Plans (CRP), register commitments acquired by the Company each year
- Community relations protocols that govern the conduct

- and performance of all management personnel at operating units or projects
- Current regulations, which include mechanisms for enforcement and control of compliance with commitments
- Involvement of the Office of Social Management and Dialog of the Presidential Council of Ministers, which channels community grievances, coordinates dialog, and facilitates consensus
- Participation by the Ministry of Energy and Mines, which through the Social Management Office facilitates dialog and verifies the information in the Annual Consolidated Declaration, which is a sworn statement
- Permanent Information Offices (PIO), which are a channel for community concerns, complaints, and grievances regarding social and environmental matters.

103-3 / MM7



2017 VOLCAN SUSTAINABILITY REPORT COMMUNITY RELATIONS MANAGEMENT

AREAS OF INFLUENCE

Each Volcan operating unit has signed agreements with the communities in its direct area of influence. Shown below are the operating units and the communities within their direct and indirect areas of influence.



> AREA OF INFLUENCE 413-1/413-2

| RURAL COMMUNITIES (84) | | | | |
|---------------------------------------|-------------------------------------|---|------------------------------------|--|
| YAULI (11) COMMUNITY MEMBERS | CHUNGAR (4) COMMUNITY MEMBERS | CERRO (27) COMMUNITY MEMBERS | BAÑOS (21) COMMUNITY MEMBERS | EXPLORATIONS (21) COMMUNITY MEMBERS |
| Huayhuay | Huayllay | CC San Antonio de Rancas | San José de Baños | San Gregorio de Huamanmarca |
| Andaychagua | Huaychao | CC de Quiulacocha | Vichaycocha | San Antonio de Rondoni |
| Pachachaca | Vichaycocha | CC Yurajhuanca | Santa Cruz | Quio |
| Yauli | San José de Baños | CC Sacra Familia | Santa Catalina | San Agustín de Huaychao |
| Pomacocha | | CC Racracancha | Chauca | San Miguel de Vichaycocha |
| Suitucancha | | CC Tingo Palca | Viscas | Santa Catalina |
| CC San Mateo de Huanchor | | CC 8 de Mayo de Anasquizque | Ravira | Carhuacayán |
| CC San Francisco de Asís de Pucara | | CC Espiritu Santo de Chacayan | Pacaraos | Cochahuayco |
| San Antonio | | CC Santa Ana de Tusi | Pirca | Sisicaya |
| Colpa | | CC San Miguel | Pasac | Pacaraos |
| Tincocancha | | CC La Candelaria | Huaroquin | La Merced de Jarria |
| Huari | | Cc Santa Rosa de Pitic | Chisque | San José de Baños |
| | | CC La Quinua | Cormo | Pirca |
| | | CC San Francisco de Asís de Yarusyacán | Huascoy | Huayhuay |
| | | Cc. San Miguel De Pallanchacra | | |
| | | CC La Merced de Jarria | Uchucuanico | Suitucancha |
| | | Barrio de Santa Rosa | Pampas La Florida | Rancas |
| | | Cu. Champamarca | Coto | San Juan de Yanacachi |
| | | Cp. Paragsha | Huaychao | Calango |
| | | Coop Agraria de Producción | Carhuacayan | Uquira |
| | | Yanamate | Chuquiquirpay | San Miguel de Pallanchacra |
| | | Ltda. N° 143 | Huayllay | San Miguel |
| | | Barrio de Buenos Aires | | |
| | | Barrio de Uliachín | | |
| | | Barrio de Ayapoto | | |
| | | Coop. Agraria de trabajadores Pucayacu | | |
| | | AA.HH José Carlos Maríategui Sectores 1,3 y 4 y sector 2 | | |
| | | Anexo Yacutingo, Cochacharao, Junipalca | | |

COMMUNITY RELATIONS MANAGEMENT

BUILDING HARMONIOUS COMMUNITY RELATIONS

1 COMMITMENT TO EDUCATION Primary and secondary education

In 2017, the partnership between Volcan and Enseña Perú carried out its activities at the Yauli, Chungar and Cerro de Pasco units, and had a direct impact on more than

612 students, and an indirect impact on 1,550 students. Students improved their math, language comprehension, physics, English, and science and technology levels. This was possible thanks to the strengthening of Volcan's partnership with the Enseña Perú (Teach Peru) program, which promotes transformation in education. 203-1

> AREAS OF ENSEÑA PERU'S PROGRAM INTERVENTION 203.1

| UNIT | DEPARTMENT | COMMUNITY | NUMBER OF PROGRAMS |
|----------------|------------|-------------|--------------------|
| Cerro de Pasco | Pasco | Rancas | 2 |
| Chungar | Pasco | Huayllay | 4 |
| Yauli | | Huay-huay | 2 |
| | Junín | Yauli | 2 |
| | JUIIII | Suitucancha | 1 |
| | | Andaychagua | 1 |
| Total | | | 12 |



› Yauli Unit

The following projects and contests were possible thanks to the presence of Enseña Perú in Yauli:

- Huayhuay Community:
- 1. Eco-Friendly School
- 2. Pythagoras Circle
- 3. Strengthening leadership capacities and skills among youth in Huayhuay Community.
- Suitucancha Community
- 1. Movistar's I Want Internet

Higher Education:

> Yauli

The Integral Scholarship Program was continued through the National Service for Training in Industrial Work (SENATI). In 2016 two scholarships were awarded to youth from the Yauli rural community for technical training in heavy machinery mechanics and industrial electronics. In addition, one young woman from the same community graduated from programs in maintenance mechanics. Also, two scholarships with SENATI were awarded in the community of Suitucancha. In total, nine youth from both communities completed or are studying for a three-year technical degree at SENATI.

> Chungar:

Thanks to the agreement executed with the Technological Mining Center (CETEMIN), in 2017 two full scholarships for the technical career program were granted to youth in Huaychao rural community.

› Cerro:

In San Antonio de Rancas, 27 scholarships were awarded for studies at Daniel Alcides Carrión National University (UNDAC) and 13 students received full scholarships at SENATI.

In Quiulacocha, three students received scholarships

> Alpamarca/CH's Chungar:

In the community of San José de Baños, eight full scholarships for technical studies at SENATI were granted to community members and youth.

Training

› Yauli Unit

- In 2017, 39 women from the community of Yauli were trained in operation of sewing machines and adult sports wear sewing at SENATI. In addition, the Agricultural Training Program was carried out in Pomacocha Rural Community; 30 people participated in the course.
- San Francisco De Asís de Pucará Community: Forty students attended the session and learned about alcoholism and sexual education. Moreover, 60 community members received environmental management training at SENATI.
 In Suitucancha Community, 16 community members received business management and administration training at SENATI.
- In San Antonio Community, 120 students learned about alcoholism and sexual education. Similarly, 100 community members received business management and administration training at SENATI.

› Cerro Unit

- In 2017, the training sessions focused on different topics, such as communications, education, health and environment. All of them aimed at the population in Volcan's direct area of influence. The topics included: worker's code of ethics and conduct, community relations with subcontractors and community businesses, health education, training for teachers on how to encourage children to read, training in participatory socio-environmental monitoring, and awarenessraising sessions focused on how to care and protect the environment.
- On May 19 and 20, the first Finance at School program was carried out through a strategic partnership formed with the Superintendence of Banking, Insurance and Pension Fund Managers (SBS). The program aimed to provide financial knowledge to teachers enabling them to share it with their students. The goal is to enable students to manage their resources appropriately and perform well in the financial market, fulfilling their obligations and enforcing their rights as users.

› Chungar Unit

- The Heavy Equipment Operator course was held at SENATI, aimed at Huayllay and Huaychao rural

2017 VOLCAN SUSTAINABILITY REPORT **COMMUNITY RELATIONS MANAGEMENT**

communities. Thirty five students attended the course.

- Moreover, two information technology courses were held at SENATI to train 42 students in the use of software like Power Point and Excel.
- The first Motivation and Self-Esteem workshop was held for women in Huayllay. Fifty mothers participated in the workshop.

> Baños

Basic computer skills, sewing, and electric installations training programs were held at SENATI. The course was attended by 120 people from Ravira, Viscas, Pacaraos, Vichaycocha, Santa Cruz and Santa Catalina communities.

Health

Volcan has committed to generating material and sustainable improvements in community health standards. Therefore, in alliance with Prisma, a nongovernmental organization and strategic health partner,

the Company has designed a corporate project with a 2018 timeline. 203-1

The aim of the project is to identify the principal diseases in each community, monitor their evolution over time, and develop medical campaigns to address them. Another aspect of this work is prevention, which is carried out through advocacy meetings, raising awareness among authorities, and in-person educational sessions on key topics, which are determined by the community's needs. In addition, conscious of the important role played by the government in the project's sustainability, Volcan brings together the corresponding public entities to contribute to its implementation and management.

A total of 2,988 people were served during the campaigns and 9,648 services were provided in diverse specializations.

> NUMBER OF GENERAL HEALTH CARE INTERVENTIONS BY SPECIALIZATION AND SERVICES 203-1

| DIVISION | UNIT | LOCATION (NO. OF PERSONS) | CAMPAIGN | MEDICAL ATTENTION CASES | SPECIALIZED MEDICINE CASES |
|----------|-------------------|------------------------------|----------|-------------------------|-------------------------------|
| | | Pachachaca | 1° | 214 | 721 |
| | | Pomacocha | 1° | 94 | 430 |
| | Yauli | Suitucancha | 1° | 203 | 727 |
| | | Yauli | 1° | 281 | 718 |
| | | | 2° | 334 | 876 |
| | C | Quiulacocha | 1° | 197 | 623 |
| Mining | Cerro de Pasco | 2° | 243 | 880 | |
| | Fascu | Yurajhuanca | 1° | 136 | 300 |
| | | Huaychao | 1° | 241 | 834 |
| | Chungar | | 2° | 203 | 888 |
| | | Huayllay | 1° | 665 | 1,999 |
| | | Ravira | 1° | 76 | 275 |
| CH Baños | | Viscas | 1° | 101 | 377 |
| Total | | | | 2,988 | 9,648 |

2. **ECONOMIC DEVELOPMENT**

CCONSERVATION AND PROTECTION OF TRADITIONAL BUSINESSES, AS WELL AS DEVELOPMENT OF PRODUCTION AND INNOVATION, ARE FACTORS THAT HAVE A **POSITIVE IMPACT ON THE ECONOMIES OF THESE** LOCAL COMMUNITIES. WITH THIS PERSPECTIVE, VOLCAN AND THE NGO PRISMA HAVE DESIGNED AN ACTION STRATEGY WITH A 2018 TIMELINE. 103-2/ / 203-1

In this area, the Company has developed farming campaigns to improve the production chain for 689 people in the area of influence

> FARMING DEVELOPMENT RESULTS IN 2017 203-1

| UNIT | MANAGEMENT/COMMUNITY | CAMPAIGN | NO. OF HEAD OF CATTLE DOSED |
|----------------|----------------------------------|----------|-----------------------------|
| | Cooperativa Yanamate | 1° | 11,929 |
| Corre do Docco | Quiulacocha | 1° | 13,613 |
| Cerro de Pasco | Quiulacocha | 2° | 13,613 |
| | Yurajhuanca | 1° | 4,180 |
| Churren | Huayllay | 1° | 27,887 |
| Chungar | Huaychao | 1° | 24,601 |
| | San José de Baños | 1° | 1,988 |
| | Santa Cruz de Andamarca | 1° | 2,101 |
| | San Miguel de Vichaycocha | 1° | 6,365 |
| Baños | San Juan de Chauca | 1° | 232 |
| | Santa Catalina (includes Chauca) | 1° | 1,021 |
| | Viscas | 1° | 683 |
| | Ravira (Pacaraos) | 1° | 1,134 |
| | Pomacocha | 1° | 6,313 |
| Yauli | Yauli | 1° | 6,858 |
| | Suitucancha | 1° | 24,003 |
| Total | | | 146,521 |



COMMUNITY RELATIONS MANAGEMENT

Volcan provided financial support to the rural community of Ravira, in Paracaos, who won the 2017 National Program for Agrarian Innovation for Agrarian Extension services. The community was awarded PEN 196,000 to carry out the Improved Pastures and Irrigation Technologies project to enable future sustainable milk production in the area. 203-1

This initiative stressed the benefits of access to public funds to improve the quality of life of the communities.

Local Employment Development > Chungar Unit

Volcan implemented a local employment procedure to meet the subcontractors' hiring needs and become a link between these companies and Huaychao and Huayllay communities. By December 2017, the Company registered 649 requests from subcontractors, 155 applicants and 116 hires.

› Yauli Unit

Six workers from Huayhuay Community, six from Yauli Community and two from Pachachaca Community were incorporated to the Company.

> Baños Unit

In line with commitments, work opportunities were provided to the communities in the area of influence and 22 members of the Ravira and Viscas communities were hired.

› Cerro Unit

According to commitments for local employment generation through service demand, Volcan created opportunities to benefit members of communities in the direct area of influence of Cerro de Pasco mining unit.

Infrastructure

Volcan promotes the development of infrastructure to generate a positive social impact on quality of life, in line with the commitments assumed by the Company and the needs of the communities within its direct area of influence. In 2017, the following was implemented: 203-1

› Yauli Unit

- Suitucancha Community: Completion of a forest nursery under the Zoraida I Agreement. The budget for the project was PEN 76,837 plus taxes.
- Yauli Community: CITE second stage completion reached 98%. The budget executed in 2017 totaled USD 97,216, under the Rumichaca Talings Dam 24 ha Expansion agreement executed in 2012. Average investment: PEN 579,000, to benefit education.

A permanent substation and its relevant facilities to supply electricity to the thermal springs was completed with a total budget of PEN 230,867, under the Victoria Tailings Dams 52.5 ha Remediation agreement.

 Pomacocha Community: Execution of the second stage of the sprinkler irrigation project and installation of 13 ha of pastures. The budget in 2017 was PEN 83,451 (progress at 80%), under the Rumichaca Tailings Dam 10.9 ha Expansion agreement executed in 2014. Average investment: PEN 460,000, to benefit agriculture.

› Cerro Unit

- Improvement to the electric infrastructure of Colegio Nacional Integrado N° 31774 San Andrés of Paragsha Settlement.
- Painting the Quiulacocha Settlement health post.
- Implementation of school libraries at educational centers (pre-school, primary and secondary) in the direct areas of influence: Paragsha, Rancas, Barrios de Ayapoto, Barrio Buenos Aires, Champamarca, Yurajhuanca, Quiulacocha settlements, and Uliachín neighborhood.
- Concrete blocks were purchased to construct 144 cattle sheds for Rancas Community.
- Average investment: PEN 460,000, to benefit cattle owners.

› Chungar Unit

- The sports field in Canchacucho was improved by adding stands and a small restaurant. The approximate budget was PEN 100,000.
- Construction and implementation of commercial premises in Andacancha. Budget was PEN 350,000.
- Construction of restaurant at La Hacienda facilities

and implementation of bungalows in León Pata. The approximate budget was PEN 148,000.

- Construction of organic vegetable gardens in La Cruzada, to benefit the educational center. The approximate budget was PEN 18,000.
- Improvement of main pipeline at La Cruzada. The approximate budget was PEN 6,000.

> Baños Hydroelectric Plants

 In May, June, July, August, September, October and November, the Company actively participated in the irrigation of the road section between Tingo bridge and San José de Baños community, as part of Volcan's



commitment to environment protection and pollution reduction.

 Preparation of rural electrification technical file and redesign of the primary and secondary networks in 13.2 kV and a 30 kw demand, and purchase of a generator set for Santa Catalina rural community.

- Construction of 1,000 meter long perimeter fence to demarcate the Santa Cruz de Andamarca community.

 Delivery of 500 meters of cattle fence and 100 posts to San José de Baños community and 1,000 m of cattle fence to Carhuacayan community to improve cattle production.

3. COMPLIANCE OVERSIGHT

Volcan's activities are supervised by government agencies that enforce fulfillment of commitments to communities and application of standards to prevent significant impact on the environment that could harm human health and lives. **103-3**

The Agency for Environmental Assessment and Enforcement (OEFA) assesses, oversees and, in some cases, sanctions Volcan's activities. OEFA is a specialized technical body attached to the Ministry of Environment, it enforces and ensures an adequate balance between private investment for economic activities and environmental protection. In addition, it controls the National System for Environmental Assessment and Enforcement (SINEFA). 103-3

In 2017, agencies, such as OEFA, made oversight visits to the Company.

4. FORMAL GRIEVANCE MECHANISMS

As part of its environmental policy and to comply with citizen engagement regulations (Supreme Decree No. 028-2008-EM, Regulation on Citizen Engagement in the Mining Subsector), Volcan and its subsidiaries implement citizen engagement mechanisms for the different stages of mining activity, such as exploration, production, or mine closure. In addition, the Company has a Permanent Information Office in all units that make approved environmental impact assessments available to the community and provide information about project and operational progress. **102-43/103-2/413-1/MM7**

These offices receive suggestions, comments, reports, and grievances from stakeholders in the areas of influence. The documentation is promptly processed and addressed. Depending on the type of grievance, meetings are organized to clarify questions; these are complemented by guided visits when necessary.

In 2017, the Company successfully implemented a formal complaint and grievance system at Chungar unit, which will

be applied at all units since 2018. Moreover, 36 complaints were registered, out of which 31 were related to employment, four to accounting matters, and one to environmental matters.

In addition, informative meetings were held at Cerro de Pasco, aimed at regional and local authorities and the population of communities within the area of influence (Quiulacocha, Yurajhuanca, Paragsha, Rancas, Champamarca). The population's opinions on the project have been registered as indicators. Moreover, a guestbook was made available for complaints, grievances and inquires at the Social Responsibility facilities, which also act as information office.

5. SOCIAL INVESTMENT

The goal of Volcan's social investment is to contribute to sustainable human development in the 60 communities in its direct area of influence. In 2017, Volcan invested USD 4.7 million in this area. The investment is primarily based on the Company's 84 agreements and commitments with rural communities, established in sustainable development and community relations plans arising out of environmental impact assessments. They are concentrated in three areas: education, health, and economic development. In addition, to strengthen the local economy, Volcan worked with 17 community enterprises with total billing around USD 4.2 million per month for civil works, mining operations, and hauling services, among others.

SOCIAL INVESTMENT BY DIVISION AND UNIT 203-1

| SOCIAL INVESTMENT | (MM USD) |
|-------------------------|----------|
| Yauli | 1.60 |
| Chungar | 1.50 |
| Cerro de Pasco | 0.80 |
| CH Baños | 0.80 |
| Total Social Investment | 4.70 |

There are currently no impact evaluations being implemented for the main projects and investments made,

as it is necessary to establish a baseline that would enable analysis of the current situation. In 2016 the baseline created for Huayllay and Huaychao was used to establish intervention priorities in accordance with the most critical indicators in those communities. This resulted in prioritizing investment in education, health, and nutrition.

103-3/203-2/DMA consecuencias económicas indirectas)

6 SIGNIFICANT INVESTMENTS IN SOCIAL INFRASTRUCTURE

Since 2010, Volcan has committed PEN 126 million to finance 15 infrastructure and utilities project of great social impact related to education, water and sanitation, solid waste management and transport, among others. These projects benefit almost 500 people and incorporate sustainability and innovation components and comprehensive solutions. 203-1

Volcan continued to actively participate in the Public Works Tax Credits program. Public Works Tax Credits projects were oriented toward improving the quality of life in nearby communities through adequate basic services and better infrastructure, as well as establishing an internal strategy to prioritize investment in certain sectors to achieve greater social impact. 103-2

IN THIS REGARD, THE PROJECT FOR THE NEW FOOD MARKET OF CHANCAY WAS AWARDED TO THE COMPANY. IT WILL HAVE A BUDGET OF PEN 22 MILLION TO ENABLE 85,000 PEOPLE TO BUY AND SELL THEIR BASIC PRODUCTS IN A SAFE, CLEAN AND ORDERLY ENVIRONMENT.

Moreover, public bodies and communities received support for the startup of two major projects in the direct area of influence: a) Water and Sewer System in San Agustín de Huaychao Settlement (Huayllay-Pasco), with a o C B a w w V t I r C f c n n

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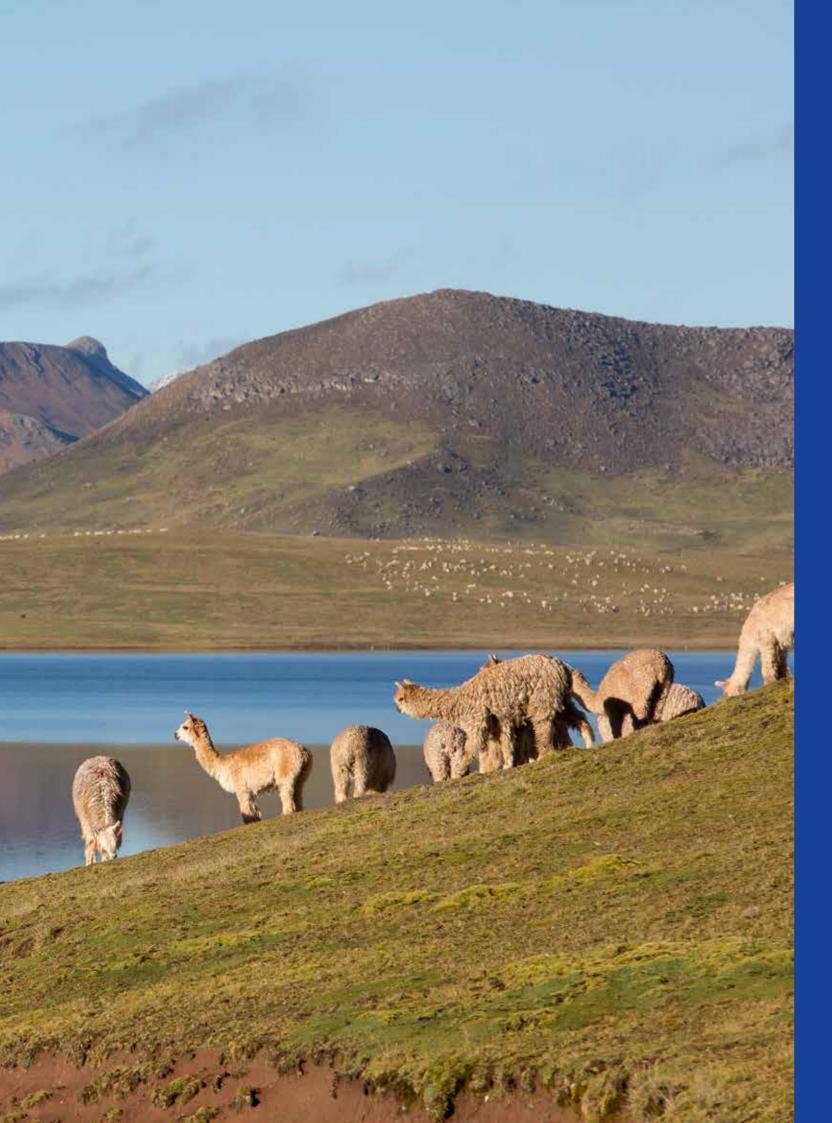
total investment of PEN 8.1 million in a joint venture with Ferreyros and Unimaq; and b) Water and Sewer System of Yauli, in the Aguas Calientes, Santa Rosa, Bolognesi, Centro Yauli, Las Brisas, Manuel Montero and San Juan Bautista de Pachachaca neighborhoods (Yauli-Junín), with a total investment of PEN 9.5 million, also a joint venture, with Ferreyros and Chinalco. It is important to note that the works were completed in 2016.

Volcan ranks third among mining companies in terms of the number of Public Works Tax Credits projects won, and in terms of committed funding amount. Moreover, the Company is a founding member of ALOXI, the Partnership for Public Works Tax Credits, which includes companies responsible for 80% of projects funded under this mechanism.

| N° | COMPANY | TOTAL 2009- 2017 |
|----|---|---------------------|
| 1 | Banco de Crédito del Perú - BCP | 1,103.80 |
| 2 | Souhern Peru Copper Corporation | 586.11 |
| 3 | Compañía Minera Antamina SA. | 570.40 |
| 4 | Telefónica del Perú S.A.A. | 210.80 |
| 5 | Banco Internacional del Perú S.A.A. Interbank | 179.10 |
| 6 | Optical Technologies S.A.C. | 167.50 |
| 7 | Volcan Compañía Minera S.A.A. | 125.90 |
| 8 | Unión de Cervecerías Peruanas Backus y Johnston S.A.A BACKUS | 97.00 |
| 9 | Cementos Pacasmayo S.A.A. | 66.80 |
| 10 | Ferreyros S.A. | 57.90 |

> RANKINGS OF COMPANIES BY INVESTMENT AMOUNT AND NUMBER OF PROJECTS (2011-2017)

Source: Decentralized Investment Office - ProInversión



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ENVIRONMENTAL MANAGEMENT

CONTINUING ITS ENVIRONMENTAL IN MANAGEMENT STRATEGY, IN 2017 VOLCAN IMPLEMENTED CRITICAL ENVIRONMENTAL **RISKS TO FOCUS EFFORTS ON PREVENTION** AND CONTROL OF ENVIRONMENTAL RISKS, STANDARDIZING OPERATIONAL CRITERIA BASED ON THE BEST PRACTICES IDENTIFIED IN THE MARKET. 103-1/102-11

Figure 9 shows Critical Environmental Risks controls that were implemented. Efforts are focused on controlling liquid effluents that exceed the limits, tailings dam ruptures, inappropriate solid waste disposal and new projects. 102-11

> EVOLUTION OF ENVIRONMENTAL MANAGEMENT



> CRITICAL ENVIRONMENTAL RISKS



Liquid effluents outside the limits



Waste of natural resources

Inadequate waste disposal



Accidents during the transport of dangerous cargoes

Tailings rupture





Degradation of areas



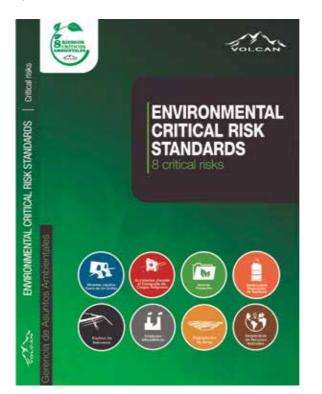
New projects

Atmospheric emissions

> MEASURES TO ENSURE PROPER ENVIRONMENTAL MANAGEMENT AND COMPLIANCE WITH DOMESTIC LAW 103-2

| MEASURES | |
|---|---|
| Dissemination of environmental obligations | Current environmental legislat |
| Implementation of the Regulatory Affairs Committee with the UEAs | Implies a closer approach and o |
| Application of corrective measures | Follow-up and verification of co |
| Alerts | These alerts indicate when mar turned in |
| SGA Audits | These audits prevent, mitigate a compliance with environmenta |
| Strategic Committees | The SGA implements these, and heads of each UEA |
| Level 2 Committees | The SGA implements these and UEA. This is where the environm presented. |

In 2017, the corporate standards book was published, as a vital tool to manage Critical Environmental Risks in the operation.





DESCRIPTION

tion is described

coordination with units

ompliance with corrective measures imposed by OEFA ndatory periodical environmental reports have been

and control environmental risks and guarantee tal obligations

nd they are made up of Senior Management and the

d they are made up of the superintendents of each mental situation and areas for improvement are

> KEY CORPORATE STANDARDS DEVELOPED TO MANAGE CRITICAL ENVIRONMENTAL RISKS



EMISSIONS AND AIR QUALITY

AIR QUALITY AND EMISSIONS ARE CONTROLLED THROUGH AN ENVIRONMENTAL MONITORING PROGRAM IMPLEMENTED ACROSS ALL MINING UNITS. 103-3

In 2017 the Company continued to implement and internalize the Air Emissions Standard, which establishes concrete actions for better, safer, and more effective management of emissions from operating units.

Air quality is monitored in operations and in the environmental area of influence through a network

of monitoring stations, which enables observation and measurement of the impact of mining activities. Monitoring is performed by a specialized company using inertial separation/filtration (gravimetric analysis) for 24 hours. According to the 2017 results, emissions of particulate matter, measured in parts per million (ppm), met the Environmental Quality Standard (EQS) established by Supreme Decree 003-2017-MINAM. **305-7**

Also, as part of compliance with environmental commitments and regulations, monitoring results are reported each quarter to the Ministry of Energy and Mines.

> ENVIRONMENTAL QUALITY STANDARD FOR PARTICULATE MATTER 305.7

| PARAMETER | VALUE (ANNUAL) | STANDARD |
|---|----------------|---------------------|
| Particulate matter under 10 micra PM 10 | 50 ug/m3 | |
| Particulate matter under 2.5 micra PM 2.5 | 2 ug/m3 | D.S. 003-2017-MINAM |

> QUANTITY OF PM 10 AND PM 2.5 PARTICULATES BY UNIT

| | PARTICLE NUMBER (PPM) | |
|--------------------------------------|-----------------------|----------------------|
| UNIT | PM2.5 | PM 10 |
| Yauli | 4.7 | 47.0 |
| Chungar | 7.3 | 21.1 |
| Cerro de Pasco | 9.7 | 21.6 |
| Alpamarca | 1.1 | 10.8 |
| Environmental Quality Standard (EQS) | 25 ug/m³ | 50 ug/m ³ |

Table 47 shows annual PM 2.5 and PM 10 values at each mining unit. In 2017, Volcan's mining unit recorded emissions below the limit established by air quality standards for metals and particulate matter.



BIODIVERSITY

BIODIVERSITY IS AN IMPORTANT ASPECT OF VOLCAN'S ENVIRONMENTAL PROTECTION POLICY. HOWEVER, IT SHOULD BE NOTED THAT NONE OF VOLCAN'S OPERATIONS ARE LOCATED WITHIN PROTECTED NATURAL AREAS THAT ARE PART OF THE NATIONAL SYSTEM OF PROTECTED NATURAL AREAS (SINANPE). 103-1

Volcan has one mining project in the buffer zone of the Nor Yauyos Cochas Landscape Reserve. The Company conducts biological monitoring of flora and fauna biannually and reports the results to the Ministry of Energy and Mines and the Agency for Environmental Assessment and Enforcement. 304-1/MM2

In addition, the Alpamarca unit has nine flora and fauna monitoring stations. Monitoring activities take place twice a year as established in commitments made in environmental management instruments. 103-2

As part of mine closure activities, Volcan has implemented revegetation plans using native species for the recovery of disturbed areas.

THE MONITORING, PERFORMED SEMESTERLY, FORM PART OF THE COMMITMENTS ASSUMED IN THE INSTRUMENTS OF ENVIRONMENTAL MANAGEMENT.



TRANSPORT

TRANSPORT MANAGEMENT IS PART OF THE **COMPANY'S ENVIRONMENTAL MANAGEMENT** SYSTEM. THIS **SYSTEM** CONTROLS **ENVIRONMENTAL RISKS THROUGH CONTINUOUS** ASSESSMENT USING THE COMPANY'S HAZARD **IDENTIFICATION PROCEDURE, RISK ASSESSMENT** AND CONTROL, INTERNAL AUDITS, AND AIR QUALITY MEASUREMENT. 103-1

With respect to personnel, Volcan transports its employees to and from operations areas in its own 4X4 trucks and also uses third-party bus transport services.

Mineral is transported in dump trucks, belts and/or passes from underground extraction areas and pits to concentrate plants, while concentrates are transported from mining units to the port of Callao in enclosed trailers, containers and via the Central Andino Railway.

All transport vehicles are part of the Preventive and Predictive Maintenance Program to mitigate and control significant environmental impacts. 103-2



> ENVIRONMENTAL IMPACTS GENERATED 103-1/103-2

| ENVIRONMENTAL IMPACT | ENVIRONMENTAL CONTROL |
|---|---|
| Gass emisions such as CO and Co2 due to diesel consumption. | Preventive maintenance |
| Oil Spill | Preventive maintenance |
| High noise | The Internal Traffic Regulations (RITRA) establishes when and where the horns can be used |
| Particled materials | Road watering with cisterns in the sourrounding areas and sprinklers located in the operation |

2017 VOLCAN SUSTAINABILITY REPORT **RESPONSIBLE ENVIRONMENTAL MANAGEMENT**

WASTE MANAGEMENT

WITH THE IMPROVEMENT OF ITS ENVIRONMENTAL MANAGEMENT SYSTEM IN 2017, VOLCAN HAS CONTINUED STRENGTHENING STANDARDS FOR SOLID WASTE MANAGEMENT, INCLUDING CONTROLS AND INDICATORS. THE COMPANY PLANS TO IMPLEMENT REDUCTION, STORAGE, **REUSE, SALE, TRANSPORT, RECYCLING, AND FINAL DISPOSAL OF WASTE INDICATORS THROUGHOUT** THE ENTIRE VALUE CHAIN BY 2018. IT IS **CURRENTLY IN THE PROCESS OF IMPLEMENTING** AND INTERNALIZING THE STANDARD. 103-2

All operations have stockpile points at strategic locations for separating waste by color code. A service provider company collects hazardous waste from temporary storage facilities located at the units. Non-hazardous waste is disposed of at landfills; one part is marketable and/or reusable.

> MAIN WASTE GENERATED IN 2017

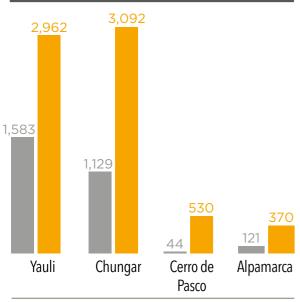
| TYPE OF WASTE | WASTE | |
|--|---|--|
| | Used oils | |
| | EEAW* (Batteries, used fluorescents, toner, etc.) | |
| | Plastic waste (Bags, bottles, PVC pipes) | |
| Hazardous | Waste with cyanide and sulfate | |
| | Material with hydrocarbons | |
| | Heavy metals (soldering waste) | |
| | Explosives remains | |
| | Organic waste | |
| | Wood remains | |
| Nonhazardous | Plastic waste | |
| | Paper and cardboard | |
| | Metal waste (scrap) | |
| RAFE: Electric and Electronic Appliances Waste | | |

RAEE: Electric and Electronic Appliances Waste

Waste management policies are aligned with current environmental regulations. To comply with the regulatory provisions of the General Law on Solid Waste approved by Supreme Decree 014-2017-MINAM, Volcan submits a Solid Waste Management Plan to the government each year. Hazardous solid waste manifests are reported each month to the Agency for Environmental Assessment and Enforcement. Annual Statements for the previous period and the Solid Waste Management Plan for the following year are reported no later than the 15th of April of the following year. 103-3

In 2017, Volcan generated 9,832 MT of solid waste across all units; a 1% increase as compared to 2016. Out of this volume, 71% was non-hazardous: domestic and industrial. Domestic waste are disposed of at the unit's landfill; industrial waste is sold, donated and reused. By 2018, one of the main efforts will include reducing solid waste where it is generated. 306-2

> HAZARDOUS VS. NON-HAZARDOUS WASTE GENERATION (MT) BY **VOLCAN MINING UNITS AND** SUBSIDIARIES 306-2



Volcan contracts service provider companies at each of its units for final disposal of hazardous and non-hazardous waste. 103-2/306-2

> EPS-RS

| UNIT | EPS | SANITARY REGISTRY |
|-------------------|-------------------------|------------------------------------|
| Yauli | D&D / GSA- DISAL | EPNA- 968-14 / EP - 1501-067.17 |
| Chungar | Emiconsath S.A y D&D | EP-1901-088.16 / EPNA-968-14 |
| Cerro de Pasco | D&D | EPNA-968-14 |
| Alpamarca | Emiconsath S.A /D&D | EP-1901-088.16 / EPNA-968-14 |

ENERGY

ENERGY MANAGEMENT AT THE COMPANY HAS **TWO FRONTS: THE GENERATION OF ENERGY FROM RENEWABLE SOURCES AND THE OPTIMIZATION OF ENERGY USE THROUGH IMPROVING OPERATING** EFFICIENCIES. 103-2

With regard to renewable energy, Volcan is developing hydraulic generation projects: the expansion of Tingo Hydroelectric Plant and Chancay 2 and 3 projects. Both projects are still in the permitting process.

To increase operational efficiency, the Company created the Corporate Energy Efficiency Program aimed at maintaining energy costs at 8-10% of mineral production cost. This program consists of minimizing service interruptions, turning off equipment during peak hours and using condenser banks to efficiently compensate for reactive energy. 302-4

Hazardous Non-hazardous

> WASTE GENERATION (MT) BY VOLCAN MINING UNITS AND SUBSIDIARIES 306-2

| | | AN | NUAL WASTE GENERATION (N | 1T) |
|------------------|---------------|-----------|--------------------------|-------|
| | UNIT | HAZARDOUS | NON-HAZARDOUS | TOTAL |
| Yauli | Andaychagua | 410 | 923 | 1,333 |
| | San Cristóbal | 682 | 1,095 | 1,777 |
| | Carahuacra | 382 | 812 | 1,195 |
| | Ticlio | 109 | 132 | 241 |
| Chungar | | 1,129 | 3,092 | 4,221 |
| Cerro de Pasco 1 | | 44 | 530 | 574 |
| Alpamarca | | 121 | 370 | 491 |
| Total | | 2,878.00 | 6,954.00 | 9,832 |

¹ Includes wastes from Oxides Plant





> ELECTRICITY CONSUMPTION 302-1/302-4

| ELECTRIC POWER BALANCE (GWH) | 2016 | 2017 | VAR % |
|---------------------------------|-------|-------|-------|
| Energy Production | 322.6 | 352.5 | 9.2 |
| CH's Chungar | 137.8 | 161.9 | 17.5 |
| CH Tingo | 9.3 | 9.0 | -2.7 |
| CH Huanchor | 139.3 | 146.9 | 5.5 |
| CH Rucuy | 36.3 | 34.6 | -4.9 |
| Energy Consumption | 634.9 | 706.7 | 11.4 |
| Energy Purchase | 487.5 | 541.4 | 11.0 |

Source: Volcan Cía. Minera

Volcan energy consumption is calculated as follows:

- Monthly readings from meters: Consolidated monthly consumption information from meters; they provide energy procurement data (MWh). The information is provided by the electricity supplier or monitoring center.
- Monthly generation reports: Information from terminal meters at Volcan's hydroelectric plants; they provide power generation data (MWh). The information is provided by the Operations/Electric Maintenance Area and the Hydroelectric Operations Division.
- Tons processed monthly reports (MT): Tons processed at the mining units' concentrator plants.

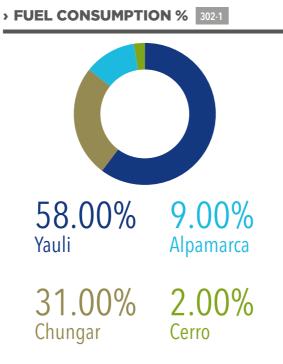
Finally, energy consumption costs versus tons processed are registered and consolidated in a monthly report prepared by the Budget and Management Control Division. 103-3

The source used to calculate conversion reports can be found in the GRI G4 Guidelines for preparing Sustainability Reports.

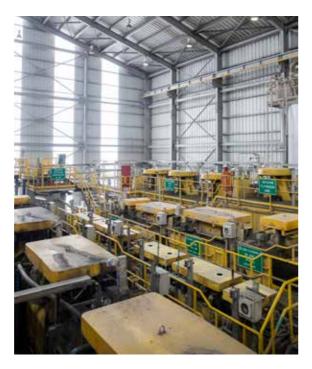
At Volcan, non-renewable fuel sources are used for transport vehicles, machinery and equipment, recording a total of 8.1 million gallons of diesel in 2017.

> FUEL CONSUMPTION (DIESEL) BY UNIT (G4-EN3) 302-1

| UNITS | CONSUMPTION (THOUSAND GALLONS) |
|----------------|-----------------------------------|
| Yauli | 4,787 |
| Chungar | 2,514 |
| Alpamarca | 753 |
| Cerro de Pasco | 133 |
| Total | 8,187 |



IN 2017, FUEL CONSUMPTION AT VOLCAN AND **SUBSIDIARIES INCREASED 8% AS COMPARED TO** 2016, DUE TO THE PROJECTS EXECUTED DURING THE YEAR.



WATER MANAGEMENT

WATER IS AN ESSENTIAL RESOURCE FOR MINING THAT IS USED PRIMARILY IN THE MINERAL **CONCENTRATION PROCESS AND TO A LESSER** EXTENT IN AUXILIARY FACILITIES AND FOR HUMAN USE. THE MAIN SOURCES OF SUPPLY ARE SURFACE WATER AND WATER FROM THE INTERIOR OF THE MINE. 103-1

Volumes of water used by operations are approved by licenses and permits granted by the National Water Authority, for which Volcan pays an annual usage rights fee. This restriction requires efficient use of the resource by the Company, which is why it has been implementing measures to optimize water use: 103-2

- Recirculation of water in operations
- Inspections to detect leaks and/or poor practices in order to identify opportunities for improving water and liquid effluent standards
- Annual audits to identify process improvements and reduce water consumption
- Personnel training in rational water use.

> AUTHORIZED WATER VOLUMES BY UNIT

| | | ANN | IUAL VOLUME (THOUSAND |) M ³) |
|----------------|---------------|----------|-----------------------|--------------------|
| | UNITS | MINING | DOMESTIC | TOTAL |
| Yauli | Andaychagua | 2,017 | 426 | 2,443 |
| | San Cristóbal | 5,046 | 1,700 | 6,746 |
| | Carahuacra | 735 | 536 | 1,271 |
| | Ticlio | 237 | 410 | 647 |
| Chungar | Animón | 2,996 | 158 | 3,154 |
| | Islay | 158 | 0 | 158 |
| Cerro de Pasco | | 14,822 | 15,768 | 30,590 |
| Alpamarca | | 1,734.00 | 156.00 | 1,891.00 |
| Total | | 27,745 | 19,154 | 46,899 |

Proper control of water consumption in relation to authorized flow volume is possible thanks to installation of equipment that measures volumes consumed via conventional methods, based on a water gauge and the hydraulic structure sections implemented at each authorized water capture point. The locations of this equipment have been reported to the Local Water Authority in compliance with Resolution No. 250-2015-ANA. 303-1

At year-end 2017, Volcan was authorized to use an annual flow of 46.9 million m3, of which 59% is for mining and 41% is for domestic use. 303-1

To safeguard, preserve, and protect water, Volcan conducts monthly environmental monitoring activities and submits the results each quarter to the Ministry of Energy and Mines and the National Water Authority. The Company also monitors water and effluent quality, not only at points approved by the authorities but at strategic locations to identify operational deviations that could put water at risk, in order to prevent, control, and mitigate such situations.

To improve water quality and usage, in 2017 the Company internalized the Water and Liquid Effluent Management Standard which will enable it to implement Environmental Performance Indicators in 2018. 103-2/102-11

As part of compliance with Supreme Decree No. 015-2015-MINAM, in 2017, the units submitted the updated Plan for Integral Adaptation to Water Quality Standards and Maximum Permissible Limits to the Ministry of Energy and Mines, including projects and activities aimed at comprehensive water management, such as separation of contact and non-contact water and water recirculation.



EFFLUENTS MANAGEMENT

TO IMPROVE CONTROL OF DISCHARGE VOLUMES, IN 2017 THE COMPANY IS MIDWAY THROUGH THE INSTALLATION OF FLOW MEASUREMENT EQUIPMENT LOCATED AT DOMESTIC AND INDUSTRIAL EFFLUENT DISCHARGE POINTS. IT IS IMPORTANT TO NOTE THAT VOLCAN HAS BEEN GRANTED THE REQUISITE DISCHARGE AUTHORIZATIONS FROM THE NATIONAL WATER AUTHORITY. IN THIS ASPECT, DISCHARGE QUALITY AND QUANTITY MEET THE MAXIMUM PERMISSIBLE LIMITS IN EFFECT AND ARE **REPORTED TO THE COMPETENT AUTHORITIES** EACH QUARTER. 103-2

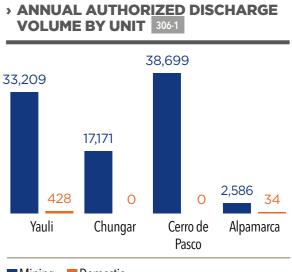
At the end of 2017, Volcan authorized discharges totaled 92.1 million m3, of which 99% are from mining activities. The Cerro de Pasco unit has the largest authorized volume (38.7 million m3), followed by Yauli (33.6 million m3), Chungar (17.2 million m3) and Alpamarca (2.6 million m3) 306-1



| | | ANN | UAL VOLUME (THOUSAND | M3) |
|----------------|----------------------------|--------|----------------------|--------|
| | UNITS | MINING | DOMESTIC | TOTAL |
| Yauli | Andaychagua | 7,070 | 52 | 7,122 |
| | San Cristóbal - Marh Tunel | 2,551 | 210 | 2,761 |
| | Carahuacra | 15,704 | 163 | 15,867 |
| | Ticlio | 7,884 | 3 | 7,887 |
| Chungar | Animón | 17,171 | 0 | 17,171 |
| Cerro de Pasco | | 38,699 | 0 | 38,699 |
| Alpamarca | | 2,586 | 34 | 2,620 |
| Total | | 91,666 | 461 | 92,127 |



For 2018, the Company plans to implement environmental performance indicators to promote safe and efficient management of liquid waste produced at the operation.



Mining Domestic

TAILINGS DAM MANAGEMENT

TAILINGS GENERATED BY PRODUCTION **PROCESSES ARE ACCUMULATED IN DEPOSITS** THAT MUST BE MANAGED EFFICIENTLY TO ENSURE **PROPER FUNCTIONING AND PREVENT POTENTIAL** ENVIRONMENTAL DAMAGE. VOLCAN HAS SIX **OPERATIVE TAILINGS DAMS.** 103-2/MM3

The Waste Storage Management System (tailing dams and overburden) (SIGDERE) focused on the following modules:

- Module I: Planning
- Module II: Documentation
- Module III: Monitoring
- Module IV: Assessment
- Module V: Information
- Module VI: Training
- Module VII: Operation
- Module VIII: Risks
- Module IX: Contingency
- Module X: Legislation

SIGDERE enables the Company to make comprehensive planning, meet geotechnical monitoring programs, integrate different areas for Monitoring Program enforcement, and



empower operators at concentrator plants allowing them to make a critical analysis and follow up on compliance.

In 2017, the Company strengthened the training modules on the SIGDERE standard. The main objective of the standard is to ensure safe operation of the geotechnical aspects of dams at all units. The standard incorporates best engineering practices, following the premises of the project, environmental laws, and Volcan corporate policies.

> STORAGE VOLUME BY UNIT 306-2/MM3

| UNIT | DEPOSIT | TYPE ELEVATIONS | ENVIRONMENTAL INSTRUMENT |
|----------------|------------------|-----------------|-----------------------------|
| | Mahr Tunel N°6 | Pulp | EIA /ITS |
| Yauli | Rumichaca | Thickening | EIA |
| | Andaychagua Alto | Pulp | EIA |
| Alpamarca | Alpamarca | Pulp | ITS |
| Animón | Animón | Thickening | ITS |
| Cerro de Pasco | Ocroyoc | Pulp | EIA |

(1) Partial volume from the day data became available. (Volcan started operations at Ocroyoc deposit at an elevation of 4262 masl. (2) General storage volume, water management volume is not included.

REGULATIONS, FINES AND SANCTIONS

Volcan manages its compliance with environmental regulations and the impacts generated by its operations through the following actions:

- Dissemination of environmental obligations required under current regulations.
- Execution of internal audits in mining units to verify environmental obligations.
- Follow-up and verification of compliance with corrective measures imposed by the Agency for Environmental Assessment and Enforcement (OEFA).
- Follow-up through alerts to operations regarding compliance with the required periodic environmental reports.
- Environmental management system audits aimed at preventing, mitigating, and controlling environmental risks of the operation and therefore compliance with environmental obligations. 103-2/307-1

The framework of the Environmental Management System includes strategic committees comprised of management and those responsible for each mining unit, charged with







making decisions regarding environmental performance. In addition, there is a committee (Committee Level 2) comprised of superintendents for each operation, who share information on environmental situations and opportunities for improvement.

IN 2017 21 ENVIRONMENTAL SUPERVISIONS WERE REGISTERED AMONG SPECIAL AND **REGULAR CARRIED OUT BY OEFA, 5 OF WHICH** CORRESPOND TO VOLCAN COMPAÑIA MINERA AND 16 TO SUBSIDIARY COMPANIES. NO FINES WERE RECORDED BY THE AUDIT ENTITY.

Likewise, regulatory compliance is evaluated through the following mechanisms:

- Correction of findings identified in environmental inspections.
- Reduction of findings detected during inspections conducted by the environmental authority.
- Decrease in fines imposed by the environmental authority.

COMPLIANCE WITH **ENVIRONMENTAL REGULATIONS**

THE COMPANY MET **ALL REQUIREMENTS OF ENVIRONMENTAL REGULATIONS ON MINING REQUIRED BY THE PERUVIAN GOVERNMENT.**

In addition, the Company submitted quarterly reports to the Ministry of Energy and Mines on water and air quality, and noise levels. It also submitted guarterly reports to the National Water Authority on effluent and water guality in receiving water bodies.

Volcan also submitted reports on its environmental obligations to the Ministry of Energy and Mines as established by Supreme Decree No. 040-2014-EM, as well as the Environmental Sustainability Report, the Environmental Strategy Compliance Report,

Finally, environmental training was provided to personnel in all mining units in compliance with Article 153 of Supreme Decree environmental instruments. 103-3/307-1

CLOSURE PLANS

The final stage of a mine requires appropriate procedures to ensure that disturbed areas are able to recover both socially and environmentally and to avoid generating environmental liabilities that affect future generations. To date, all Volcan units have mine closure plans in place. The Company developed its first closure plans starting in 2009, under Law No. 28090 and its regulation, Supreme Decree No. 033-2005. Those plans have been updated, and in some cases modified, since 2012. 103-1/103-2/103-3/MM10

of influence. Progress in the activities executed and their results are reported to the Ministry of Energy and Mines; these are then enforced by the Agency for Environmental Assessment and Enforcement.

As part of the execution of government-approved mine closure plans, the re-vegetation and progressive restoration program has been implemented to recover areas affected by mining activities, to benefit communities in the area

> MINE CLOSURE BUDGET APPROVED BY THE MINISTRY OF ENERGY AND MINES 2017

| | | | 1 | MINE CLOSU | JRE BUDGET (U | SD 000) | |
|-------------------|-------------------|-----------------------------------|------------------------|------------------|---------------|---------|------------|
| | UNIT | MINE CLOSURE PLAN APPROVED BY: | PROGRESSIVE CLOSURE | FINAL Closure | POSTCLOSURE | TOTAL | GUARANTEES |
| Yauli | Andaychagua | RD.176-2013-MEM-DGAAM | 6 | 9.9 | 1.1 | 16.5 | 6.1 |
| | Carahuacra | RD N° 074-2017-MEM- DGAAM | 14 | 16 | 2.8 | 32.8 | 25.7 |
| | San Cristóbal | RD.142-2016-MEM-DGAAM | 10 | 21.5 | 1.8 | 32.9 | 11 |
| | Ticlio | RD.055-2017-MEM-DGAAM | 1 | 2.7 | 0.8 | 4.9 | 3.4 |
| Chungar | Alpamarca | RD.096-2016-MEM-DGAAM | 2 | 8 | 1 | 11.3 | 4 |
| | Animón | RD.096-2016-MEM-DGAAM | 2 | 10.5 | 1.1 | 13.5 | 11.5 |
| Cerro de Pasco | Cerro de Pasco | RD.514-2015-MEM-DGAAM | 20 | 22.9 | 2.6 | 45.5 | 7.2 |
| | Vinchos | RD.116-2016-MEM-DGAAM | 6.30 | 1.1 | 1 | 8.4 | 2.7 |
| San Sebastián | San Sebastián | RD.458-2014-MEM-DGAAM | 0 | 0.3 | 0.2 | 0.5 | 0.4 |
| Total | | | 60.78 | 93.18 | 12.25 | 166.21 | 71.89 |



Commitments in mine closure plans in 2017 were centered around carrying out activities in relation to inoperative mine components and environmental liabilities incorporated in the mine closure plans. Closure activities were executed by Volcan and its subsidiaries as part of the progressive closure program.

It should be noted that during the year, Volcan provided a financial guarantee of USD 71.9 million to the Ministry of Energy and Mines for final closure and postclosure commitments, in accordance with the program approved each year. This ensures sufficient funding for closure activities or remediation in the final stage. In addition, the closure plans for the Carahuacra and Ticlio (Yauli) mines were modified, and new closure schedule were established. 307-1

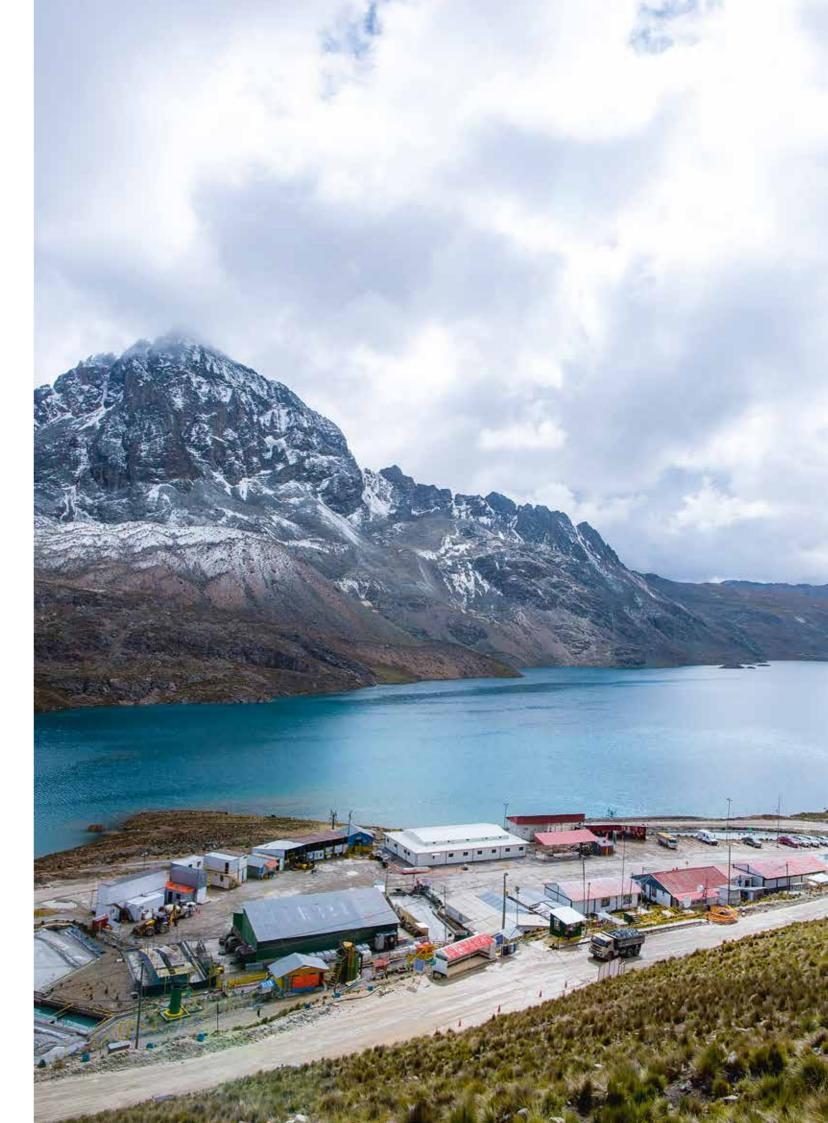
ENVIRONMENTAL CERTIFICATIONS AND PERMITS GRANTED IN 2017

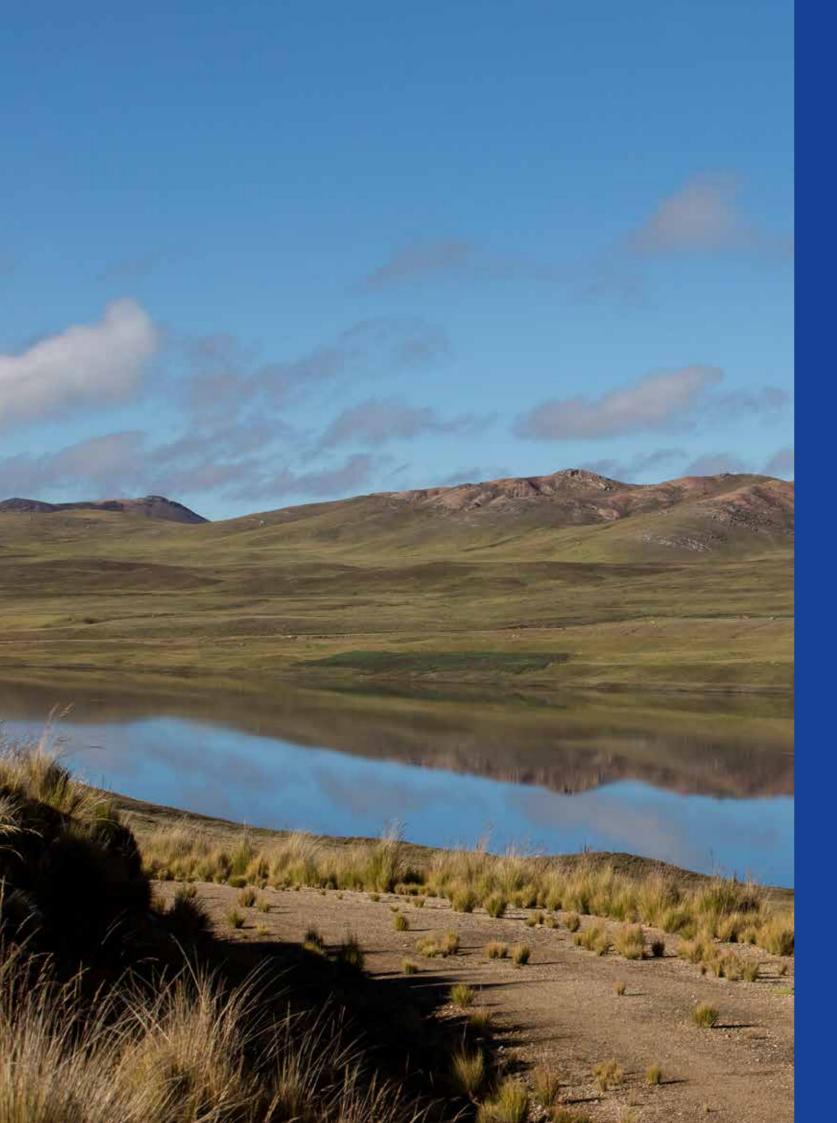
The following environmental certificates and permits were granted to Volcan and its subsidiaries in 2017: 307-1

> ENVIRONMENTAL CERTIFICATIONS AND PERMITS

| COMPANY | AUTHORIZATION | DESCRIPTION | STATUS |
|---|----------------------------------|---|----------|
| | R.D N° 083-2017-mem- DGAAM | ITS of reconfiguration of old tailing deposits and equipment replacement of Mahr Tunnel concentrator plant. | Approved |
| Volcan Compañía Minera S.A.A. | R.D N° 298-2017 -MEM- DGAA | Detailed technical report of Ticlio Mine | Approved |
| | N°004-2017-MEM- DGAA | Chumpe mining explorations | Approved |
| | RDN° 021-MEM-DGAAM | Ticlio Mine exploration | Approved |
| Empresa Administradora | RD_249_2017_SENACE_ DCA | ITS Paragsha Concentrator Plant optimization for stock piles treating | Approved |
| Cerro S.A.C. | RD 009-2017-MEM-DGAAM | Chuco Project - Environmental Impact Declaration | Approved |
| Empresa Administradora de Vinchos S.A.C. | R.D.037-2017-SENACE-JEF- DEAR | ITS Vinchos Exploration | Approved |
| Compoñía Minoro | R.D. N° 288-2017-MEM- DGAAM | ITS modification of the Environmental Impact Declaration of Romina 2 | Approved |
| Compañía Minera Chungar S.A.C. | R.D. 236-2917- mem/ DGAAM | Seconfd modification of the semidetailed Environmental Impact Declaration of Palma Project tunnel | Approved |

IST: technical report





12 ABOUT THE SUSTAINABILITY REPORT



THIS DOCUMENT REPORTS ON **ECONOMIC, SOCIAL, AND ENVIRONMENTAL MANAGEMENT BY VOLCAN COMPAÑÍA MINERA S.A.A. AND ITS SUBSIDIARIES** IN PERU, INCLUDING MINE **OPERATIONS, HYDROELECTRIC** PLANTS, AND ADMINISTRATIVE **OFFICES, FOR THE PERIOD FROM JANUARY 1 TO DECEMBER 31,**

2017. 102-1/102-45/102-50/102-51/02-52

For the third consecutive year, it was prepared in accordance with the methodology and guidelines of the Global Reporting publication is annual, the date of the previous report was on March 28, 2017, corresponding to the year 2016.

To determine the contents, an internal and external documentary review was carried out, as well as the monitoring of indicators GRI These contents were modified and expressed according to the tool "Mapping G4 to the GRI Standards - Disclosures - Full overview ". 102-49

MATERIALITY PROCESS

In 2015, Volcan carried out a preparatory cycle to prepare a sustainability report for the first time according to the GRI protocols. In June 2016 he commissioned a consultancy to identify and select your topics materials that determine the contents of your reports, reflecting the expectations of its stakeholders and the management of the potential impacts that could affect the sustainability of its operations. The identification of Material issues were determined by the following process: 102-46



| STAGE | DESC |
|----------------------------|---|
| Stage 1: Review | To identify expectations and perceptions regarding this report, the results of 166 online surveys targe with community consultations prepared in 2015. In carried out by report 2015, where improvement surveys were taken by managers and the Company |
| Stage 2: Identification | On the basis of the information obtained and the a Volcan officers were held to identify the main impact sustainability topics defined in Robeco Sam's "Th comparisons were made against sustainability report aspects that are common across the sector. |
| Stage 3: Prioritization | To determine their maturity, relevance and prioritiz risk assessment methodology was used. This stakeholders, as well as the review of documents a and environmental aspects. |
| Stage 4: Validation | The materiality matrix obtained was validated by m and was followed by the selection of indicators and Report. In 2016, the material aspects identified held with officers of strategic areas. Focus groups collaborators, and the person in charge of commun Moreover, an induction workshop on GRI standard was held. Finally, the responsibility process 2016 w of the Company. |



CRIPTION

ig management, as well as the aspects to be included in eted at collaborators and suppliers were used, together In 2016, this stage was concluded through the evaluation opportunities are identified. In addition, sustainability v's shareholders, and customers were also surveyed.

analysis of different management tools, interviews with acts of operations with regard to sustainability. Emerging The sustainability yearbook 2016" were identified and ports of other international mining companies to identify

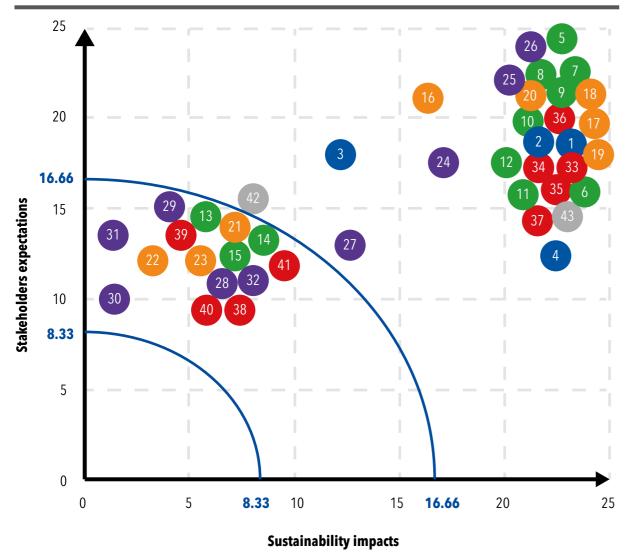
ization of the topics addressed in this report, Perú2021's assessment takes into account the expectations of and reports related to management of economic, social

nanagers, community representatives and collaborators, I management approaches needed for the Sustainability in 2015 were validated through feedback meetings os were held with community representatives and Yauli nity relations in Chungar and CH Baños was interviewed. rd for Data Managers in charge of providing information was launched through a meeting held with 24 managers

2017 VOLCAN SUSTAINABILITY REPORT MANAGEMENT OF SUBCONTRACTORS AND SUPPLIERS

As a result of this process, a list of material issues that remain valid was prioritized. Your level of coverage1, the Interest groups and related business units are shown below: 102-46

> PRIORITIZATION OF MATERIAL ASPECTS



¹Coverage: Description of where impacts are generated in each aspect.

> MATERIAL ASPECTS INCLUDED 102-47/103-1

| gri Category | N° | GRI MATERIALASPECT | COVERAGE | RELATED STAKEHOLDERS |
|--|----|--|--------------------------------|--|
| | 1 | Indirect economic consequences | External coverage | Community |
| Economy | 2 | Economic performance | Internal coverage | Shareholders, collaborators, governme and civil society |
| Eco | 3 | Acquisition practices | External coverage | Suppliers |
| | 4 | Market presence | | |
| | 5 | Water | External coverage | Community and environment |
| - | 6 | Biodiversity | | |
| ŧ | 7 | Regulatory compliance (environmental) | External coverage | Community and environment |
| Environment | 8 | Effluents and waste | External coverage | Community and environment |
| /iron | 9 | Emissions | | |
| EN | 10 | Energy | External coverage | Clients, community and environmer |
| - | 11 | Environmental grievance mechanisms | | |
| | 12 | Transport | External coverage | Clients, community and environmer |
| <u> </u> | 13 | Training and education | Internal coverage | Collaborators |
| tices a | 14 | Employment | Internal and external coverage | Collaborators and community |
| | 15 | Evaluation of suppliers' labor practices | Internal and external coverage | Collaborators and suppliers |
| socia ract gnif | 16 | Relations between workers and directors | Internal coverage | Collaborators |
| 이 ^더 년 | 17 | Occupational health and safety | Internal and external coverage | Collaborators and suppliers |
| | 18 | Local communities | External coverage | Community |
| | 19 | Regulatory compliance (society) | Internal and external coverage | Collaborators, clients, suppliers, Government and community |
| > | 20 | Closure planning | Internal and external coverage | |
| ciet | 21 | Social impact grievance mechanisms | Internal and external coverage | |
| Social: Society | 22 | Freedom of association and collective bargaining | Internal and external coverage | Collaborators and suppliers |
| So | 23 | Safety measures | Internal and external coverage | Collaborators and suppliers |
| | 24 | Non-discrimination | Internal and external coverage | Collaborators, suppliers and commun |
| | 25 | Forced labor | External coverage | Collaborators and suppliers |
| | 26 | Child labor | External coverage | Collaborators and suppliers |
| Social: Responsibility over products | 27 | Labeling of products and services | External coverage | Customers |
| So Respoi over p | 28 | Client confidentialit | External coverage | Customers |

MANAGEMENT OF SUBCONTRACTORS AND SUPPLIERS

GRI STANDARDS 102-55

| RI STANDARD NUMBER | gri Standard Title | DISCLOSURE NUMBER | DISCLOSURE TITLE | DISCLOSURE TITLE | COMMENTS | REQUIRED FOR CORE |
|-----------------------|--------------------------|----------------------|---|---------------------|----------|----------------------|
| ENERAL DIS | CLOSURES | | | | | |
| RI 102 | 1. ORGANIZ | ZATIONAL PRO | FILE | | | |
| | | 102-1 | Name of the organization | | | Core |
| | | 102-2 | Activities, brands, products, and services | | | Core |
| | | 102-3 | Location of headquarters | | | Core |
| | | 102-4 | Location of operations | | | Core |
| | | 102-5 | Ownership and legal form | | | Core |
| | | 102-6 | Markets served | | | Core |
| | | 102-7 | Scale of the organization | | | Core |
| | | 102-8 | Information on employees and other workers | | | Core |
| | | 102-9 | Supply chain | | | Core |
| | | 102-10 | Significant changes to the organization and its supply chain | | | Core |
| | | 102-11 | Precautionary Principle or approach | | | Core |
| | | 102-12 | External initiatives | | | Core |
| | | 102-13 | Membership of associations | | | Core |
| | 2. STRATEG | Y | | | | |
| | | 102-14 | Statement from senior decision-maker | | | Core |
| | | 102-15 | Key impacts, risks, and opportunities | | | |
| | 3. ETHICS A | ND INTEGRITY | , | | | |
| | | 102-16 | Values, principles, standards, and norms of behavior | | | Core |
| | | 102-17 | Mechanisms for advice and concerns about ethics | | | |
| | 4. GOVERN | ANCE | | | | |
| | | 102-18 | Governance structure | | | Core |
| | | 102-19 | Delegating authority | | | |
| | | 102-20 | Executive-level responsibility for economic, environmental, and social topics | | | |
| | | 102-21 | Consulting stakeholders on economic, environmental, and social topics | | | |
| | | 102-22 | Composition of the highest governance body and its committees | | | |
| | | 102-23 | Chair of the highest governance body | | | |
| | | 102-24 | Nominating and selecting the highest governance body | | | |
| | | 102-25 | Conflicts of interest | | | |
| | | 102-26 | Role of highest governance body in setting purpose, values, and strategy | | | |
| | | 102-27 | Collective knowledge of highest governance body | | | |

| GRI STANDARI NUMBER | d GRI Standard Title | DISCLOSURE NUMBER | DISCLOSURETITLE | DISCLOSURE TITLE | COMMENTS | REQUIRED F CORE |
|------------------------|----------------------------|----------------------|---|---------------------|----------|--------------------|
| | | 102-28 | Evaluating the highest governance body's performance | | | |
| | | 102-29 | Identifying and managing economic, environmental, and social impacts | | | |
| | | 102-30 | Effectiveness of risk management processes | | | |
| | | 102-31 | Review of economic, environmental, and social topics | | | |
| | | 102-32 | Highest governance body's role in sustainability reporting | | | |
| | | 102-33 | Communicating critical concerns | | | |
| | | 102-34 | Nature and total number of critical concerns | | | |
| | | 102-35 | Remuneration policies | | | |
| | | 102-36 | Process for determining remuneration | | | |
| | | 102-37 | Stakeholders' involvement in remuneration | | | |
| | | 102-38 | Annual total compensation ratio | | | |
| | | 102-39 | Percentage increase in annual total compensation ratio | | | |
| | 5. STAKEHO | OLDER ENGAG | EMENT | | | |
| | | 102-40 | List of stakeholder groups | | | Core |
| | | 102-41 | Collective bargaining agreements | | | Core |
| | | 102-42 | Identifying and selecting stakeholders | | | Core |
| | | 102-43 | Approach to stakeholder engagement | | | Core |
| | | 102-44 | Key topics and concerns raised | | | Core |
| | 6. REPORTI | NG PRACTICE | | | | |
| | | 102-45 | Entities included in the consolidated financial statements | | | Core |
| | | 102-46 | Defining report content and topic Boundaries | | | Core |
| | | 102-47 | List of material topics | | | Core |
| | | 102-48 | Restatements of information | | | Core |
| | | 102-49 | Changes in reporting | | | Core |
| | | 102-50 | Reporting period | | | Core |
| | | 102-51 | Date of most recent report | | | Core |
| | | 102-52 | Reporting cycle | | | Core |
| | | 102-53 | Contact point for questions regarding the report | | | Core |
| | | 102-54 | Claims of reporting in accordance with the GRI Standards | | | Core |
| | | 102-55 | GRI content index | | | Core |
| | | 102-56 | External assurance | | | Core |
| GRI 103 | MANAGEM | ENT APPROAC | Н | | | |
| | | 103-1 | Explanation of the material topic and its Boundary | | | Core |

MANAGEMENT OF SUBCONTRACTORS AND SUPPLIERS

| GRI STANDARD NUMBER | gri Standard Title | DISCLOSURE NUMBER | DISCLOSURETITLE | DISCLOSURE TITLE | COMMENTS | REQUIRED FOR CORE |
|------------------------|--------------------------|----------------------|---|---------------------|----------|----------------------|
| | | 103-2 | The management approach and its components | | | Core |
| | | 103-3 | Evaluation of the management approach | | | Core |
| GRI 200 | ECONOMIC | PERFORMAN | CE | | | |
| | | 201-1 | Direct economic value generated and distributed | | | |
| | | 201-2 | Financial implications and other risks and opportunities due to climate change | | | |
| | | 201-3 | Defined benefit plan obligations and other retirement plans | | | |
| | | 201-4 | Financial assistance received from government | | | |
| | MARKET PR | RESENCE | | | | |
| | | 202-1 | Ratios of standard entry level wage by gender compared to local minimum wage | | | |
| | | 202-2 | Proportion of senior management hired from the local community | | | |
| | INDIRECT E | CONOMIC IMF | PACTS | | | |
| | | 203-1 | Infrastructure investments and services supported | | | |
| | | 203-2 | Significant indirect economic impacts | | | |
| | PROCUREM | IENT PRACTICE | S | | | |
| | | 204-1 | Proportion of spending on local suppliers | | | |
| | ANTI-CORR | UPTION | | | | |
| | | 205-1 | Operations assessed for risks related to corruption | | | |
| | | 205-2 | Communication and training about anti- corruption policies and procedures | | | |
| | | 205-3 | Confirmed incidents of corruption and actions taken | | | |
| | ANTI-COMP | PETITIVE BEHA | | | | |
| | | 206-1 | Legal actions for anti-competitive behavior, anti-trust, and monopoly practices | | | |
| GRI 300 | MATERIALS | | | | | |
| | | 301-1 | Materials used by weight or volume | | | |
| | | 301-2 | Recycled input materials used | | | |
| | | 301-3 | Reclaimed products and their packaging materials | | | |
| | ENERGY | | | | | |
| | | 302-1 | Energy consumption within the organization | | | |

| TITLE | NUMBER | DISCLOSURETITLE | TITLE | COMMENTS | REQUIRED FO CORE |
|-----------|--------------|--|-------|----------|---------------------|
| | 302-2 | Energy consumption outside of the organization | | | |
| | 302-3 | Energy intensity | | | |
| | 302-4 | Reduction of energy consumption | | | |
| | 302-5 | Reductions in energy requirements of products and services | | | |
| WATER | | | | | |
| | 303-1 | Water withdrawal by source | | | |
| | 303-2 | Water sources significantly affected by withdrawal of water | | | |
| | 303-3 | Water recycled and reused | | | |
| BIODIVERS | ITY | | | | |
| | 304-1 | Operational sites owned, leased, managed in, or adjacent to, protected areas and areas of high biodiversity value outside protected areas | | | |
| | 304-2 | Significant impacts of activities, products, and services on biodiversity | | | |
| | 304-3 | Habitats protected or restored | | | |
| | 304-4 | IUCN Red List species and national conservation list species with habitats in areas affected by operations | | | |
| EMISSIONS | | | | | |
| | 305-1 | Direct (Scope 1) GHG emissions | | | |
| | 305-2 | Energy indirect (Scope 2) GHG emissions | | | |
| | 305-3 | Other indirect (Scope 3) GHG emissions | | | |
| | 305-4 | GHG emissions intensity | | | |
| | 305-5 | Reduction of GHG emissions | | | |
| | 305-6 | Emissions of ozone-depleting substances (ODS) | | | |
| | 305-7 | Nitrogen oxides (NOX), sulfur oxides (SOX), and other significant air emissions | | | |
| EFFLUENTS | AND WASTE | | | | |
| | 306-1 | Water discharge by quality and destination | | | |
| | 306-2 | Waste by type and disposal method | | | |
| | 306-3 | Significant spills | | | |
| | 306-4 | Transport of hazardous waste | | | |
| | 306-5 | Water bodies affected by water discharges and/or runoff | | | |
| ENVIRONM | IENTAL COMPL | | | | |
| | 307-1 | Non-compliance with environmental laws and regulations | | | |

| GRI STANDARD NUMBER | gri Standard Title | DISCLOSURE NUMBER | DISCLOSURE TITLE | DISCLOSURE TITLE | COMMENTS | REQUIRED FOR CORE |
|------------------------|--------------------------|----------------------|---|---------------------|----------|----------------------|
| | | 308-1 | New suppliers that were screened using environmental criteria | | | |
| | | 308-2 | Negative environmental impacts in the supply chain and actions taken | | | |
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| | | 401-2 | Benefits provided to full-time employees that are not provided to temporary or part-time employees | | | |
| | | 401-3 | Parental leave | | | |
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| | | 403-4 | Health and safety topics covered in formal agreements with trade unions | | | |
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| | | 404-3 | Percentage of employees receiving regular performance and career development reviews | | | |
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| | | 405-1 | Diversity of governance bodies and employees | | | |
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| | | 406-1 | Incidents of discrimination and corrective actions taken | | | |
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| | CHILD LABO | R | | | | |
| | | | | | | |

| GRI STANDARD NUMBER | gri Standard Title | DISCLOSURE NUMBER | DISCLOSURETITLE | DISCLOSURE TITLE | COMMENTS | REQUIRED FC CORE |
|------------------------|--------------------------|----------------------|---|---------------------|----------|---------------------|
| | | 408-1 | Operations and suppliers at significant risk for incidents of child labor | | | |
| | FORCED OR | COMPULSOR | Y LABOR | | | |
| | | 409-1 | Operations and suppliers at significant risk for incidents of forced or compulsory labor | | | |
| | SECURITY P | RACTICES | | | | |
| | | 410-1 | Security personnel trained in human rights policies or procedures | | | |
| | RIGHTS OF | INDIGENOUS F | PEOPLES | | | |
| | | 411-1 | Incidents of violations involving rights of indigenous peoples | | | |
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| | | 412-1 | Operations that have been subject to human rights reviews or impact assessments | | | |
| | | 412-2 | Employee training on human rights policies or procedures | | | |
| | | 412-3 | Significant investment agreements and contracts that include human rights clauses or that underwent human rights screening | | | |
| | LOCAL CON | IMUNITIES | | | | |
| | | 413-1 | Operations with local community engagement, impact assessments, and development programs | | | |
| | | 413-2 | Operations with significant actual and potential negative impacts on local communities | | | |
| | SUPPLIER S | OCIAL ASSESS | MENT | | | |
| | | 414-1 | New suppliers that were screened using social criteria | | | |
| | | 414-2 | Negative social impacts in the supply chain and actions taken | | | |
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| | | 415-1 | Political contributions | | | |
| | CUSTOMER | HEALTH AND | | | | |
| | | 416-1 | Assessment of the health and safety impacts of product and service categories | | | |
| | | 416-2 | Incidents of non-compliance concerning the health and safety impacts of products and services | | | |
| | MARKETIN | G AND LABELIN | IG | | | |
| | | 417-1 | Requirements for product and service information and labeling | | | |

ID SUPPLIERS

MANAGEMENT OF SUBCONTRACTORS AND SUPPLIERS

| GRI STANDARD NUMBER | gri Standard Title | DISCLOSURE NUMBER | DISCLOSURETITLE | DISCLOSURE TITLE | COMMENTS | REQUIRED FOR CORE | | |
|------------------------|--------------------------|----------------------|--|---------------------|----------|----------------------|--|--|
| | | 417-2 | Incidents of non-compliance concerning product and service information and labeling | | | | | |
| | | 417-3 | Incidents of non-compliance concerning marketing communications | | | | | |
| | CUSTOMER | PRIVACY | | | | | | |
| | | 418-1 | Substantiated complaints concerning breaches of customer privacy and losses of customer data | | | | | |
| | SOCIOECONOMIC COMPLIANCE | | | | | | | |
| | | 419-1 | Non-compliance with laws and regulations in the social and economic area | | | | | |

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