



AL TAISEER ALUMINIUM COMPANY

Sustainability Report 2020





King Abdul Aziz Al Saud
Founder of Kingdom of Saudi Arabia



His Majesty
King Salman Bin Abdul Aziz



HRH Crown Prince
Mohammed Bin Salman

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1. INTRODUCTION

1.1 ALTaiseer Aluminium Company was established in 1976 as a fabricator to manufacture doors, windows and kitchen cabinets.

From its humble beginning, the Company has continued to diversify and expand to manufacture world class façade & architectural aluminium works in 1983.

With this progress, we were able to move to a larger space in 2nd Industrial City – Riyadh, Kingdom of Saudi Arabia. The Company did not stop to innovate and strengthen its abilities to develop its strategies and techniques.

As a result, we achieved our first milestone, to commence the processing of powder coating, the first ever commercial powder coating line in the Kingdom of Saudi Arabia in 1989.

The Company continues its progress and diversity in the field by introducing and achieving further progress by commence of production of aluminium extrusion in 1994. At present, there are 6 extrusion lines from SMS Germany.

As pioneers of the aluminium extrusion process in Saudi Arabia, TALCO has continually adopted advances in the technology and manufacturing processes. This commitment to leadership, allied to advance in metallurgy, has seen TALCO's products continue to enhance TALCO's reputation for excellence across every function.

With our culture of advanced thinking and design innovations, when it comes to transforming aluminium, almost anything is possible with TALCO.

TALCO has grown to become the Saudi Arabia's most modern and efficient manufacturer of extruded aluminium profiles. During that time, we have earned an enviable reputation for the manufacture of aluminium extrusions to the highest quality standards, with our products used across a wide range of applications and industry sectors.



From the CEO

We have witnessed the continued realignment of the relationship between business and sustainability.

Companies are not only focused on understanding and managing the impact they have on the environment and society, but increasingly developing strategies to address the impact of the environment and society on the company itself.

Sustainability has always been an integral part in the way TALCO operates and one of our strategic priorities.

This represents our focus on developing and maintaining a company with engaged employees who use sustainability to differentiate our operations and products. We take sustainability seriously because it is good for our business and for our stakeholders. It is the right thing to do.

Our actions in support of this priority in 2020 included:

- Minimizing costs and increase production
- Complying to regulations
- Refreshing a number of our strategic, long-term sustainability goals to better align with our expectations and those of our stakeholders.
- Adopting new corporate standards for biodiversity management and water and wastewater management.
- Deploying a new Global Supplier Sustainability Program to reduce our supply chain risks.

While we made progress toward our sustainability goals in 2020, we will continue to have opportunities for improvement as we move forward.

Sadly, we experienced COVID-19 pandemic in 2020. But we continue to monitor developments of the COVID-19 pandemic and are focused on the health and well-being of our employees, visitors and communities, while minimizing any undue impact to our customers.

I encourage you to read this Sustainability Report to learn more about our efforts to advance sustainably not only for our company but for the aluminium industry.

Sustainability really does mean better business.

Suliman S. Al-Oufi
Chief Executive Officer



1.3 Policy

1.3.1 QHSE Policy



ALTAISEER ALUMINIUM COMPANY

QUALITY ASSURANCE MANUAL

TALCO

QUALITY, HEALTH, SAFETY & ENVIRONMENTAL (QHSE) POLICY STATEMENT

TALCO is committed to provide customer focused efficient production of Aluminium extrusion in various alloys and shapes for architectural applications and for various other fields including surface functional and decorative finishes, Recycling of Aluminium scrap through in-house remelting. We will achieve it by meeting and exceeding the highest standards of quality of products & services, technical expertise and exemplary customer service in a safe manner, while respecting and protecting the health, safety & environment.

TALCO considers Quality, Health, Safety, and Environment (QHSE) as an integral part of commitment for providing outstanding products and delivering the highest level of customer services. For its fulfillment;

- We ensure utmost professionalism and ethical practices.
- We strive to achieve customer satisfaction by delivering and completing the projects on time.
- We make employees and other interested parties aware of their individual QHSE obligations and responsibilities through different mode of communication.
- We ensure prevention and protection of environment pollution injury and ill health to employees and other stakeholders by consulting, communication, monitoring, identifying, avoiding, investigating and where possible eliminating significant environmental aspects, occupational risks and hazards.
- We continually improve our performance by periodically reviewing our QHSE performance, business processes, employees' skills and suppliers/subcontractor's performance.
- We will be meeting all the applicable statutory, legal and other regulatory requirements in the territories we operate and execute our activity.
- We conduct our business activity in a socially responsible manner.

This policy shall be communicated to all **TALCO** employees, contractors, and appropriate external stakeholders. It shall be reviewed periodically to ensure that it remains relevant, appropriate and according to the current international standard requirements.

For and on behalf of,
ALTAISEER ALUMINIUM COMPANY (TALCO)

SULIMAN S. AL OUFİ
Chief Executive Officer (CEO)

1.3.2 Sustainability Policy



AL TAISEER ALUMINIUM COMPANY **SUSTAINABILITY POLICY STATEMENT**

TALCO is committed to improving the sustainability performance of the organization through promoting a culture of sustainability, managing our operations in a manner that minimizes our environmental and social impacts and enabling the integration of sustainability principles and practices into our process and community engagement.

TALCO will meet this commitment by:

- Ensuring sustainability is reflected in Talco's strategic documents.
- Development an annual sustainability reporting framework
- Incorporating the principles of Ecologically Sustainable Design (ESD) into all capital and infrastructure projects as far as possible.
- Providing training and support for staff to adopt sustainability principles and practices to achieve sustainable behavior change in the workplace.
- Partnering with community to respond to the regional needs for sustainable future and provide leadership in our region.

Responsibility

The CEO or nominee of the CEO will have responsibility for ensuring the policy is implemented.

The QAM team and Health and Safety team will have responsibility for monitoring and reviewing the policy.

Implementation

The Sustainability Policy will be implemented and communicated in the following ways:

- Presentation to CEO forum.
- Email to all staff of Talco.
- Information workshops to be held as appropriate.
- Section on Sustainability @ Talco website in near future.

Suliman S. Al-Oufi
Chief Executive Officer

1.4 Quality in the Foreground

Given that Al Taiseer Aluminium Company (TALCO) is an integral part of the society, we fully embrace the concept of "Corporate Social Responsibility (CSR)". TALCO puts quality of its products and services in the first place. Thus, contributing to the development of our industry and aiming for the continuous improvement. This is demonstrated by the number of certificates / memberships with associations obtained which are necessary for high demands of aluminium. The certificates are the proof that our company operates a management system that is proven by an independent expert body.

Certificates

- **QUALITY MANAGEMENT SYSTEM**

ISO 9001 is the ISO International Standards for 'Quality Management System' and outlines organizational requirements related to quality, consistency and customer satisfaction in addition to regulatory standard.



- **QUALICOAT**

Quality Label for liquid and powder organic coatings on Aluminium for Architectural Applications.



The quality control and certification of powder-coated aluminium products is determined by the QUALICOAT Specifications standard. TALCO holds the QUALICOAT certificate since Nov. 7, 2005.

- **QUALANOD**

Quality Label for Sulfuric Acid-Based Anodizing of Aluminium (Architectural Anodizing)

TALCO's anodizing unit has been certified since Nov. 24, 2005 according to Specifications for the QUALANOD Quality Label, a European standard that ensures high quality in anodized aluminium profiles.



- **SAUDI ARABIAN STANDARD ORGANIZATION**

License for the use of The Quality Mark.

This certificate signify compliance with the applicable standards and technical regulations.



- **SOCIAL ACCOUNTABILITY**

The SA 8000:2014 Standard is the leading social certification standard for factories and organizations across the globe. It was established by Social Accountability International in 1997 as a multi-stakeholder initiative. Over the years, the Standard has evolved into an overall framework that helps certified organizations demonstrate their dedication to the fair treatment of workers across industries and in any country.



- **MANAGEMENT SYSTEM**

ISO 14001:2015 is the international standard that specifies requirements for an effective Environmental Management System (EMS). It provides a framework that an organization can follow, rather than establishing environmental performance requirements.



Memberships with Associations

- **QUALI MIDDLE EAST ASSOCIATION**

Is an international non-profit membership-based organization formed under the Law No. 9 of 2012 Concerning the Organization of Dubai Chamber of Commerce and Industry. Registered and licensed by the Dubai Chamber by the mentioned law above under the Dubai Association Centre (DAC); (DAC has been established by the Dubai Chamber of Commerce & Industry, the Department of Tourism and Commerce Marketing and the Dubai World Trade Centre).



- **ALUMINIUM ANODIZERS COUNCIL**

The Aluminum Anodizers Council serves to promote the common interests of its members and the progress and growth of the aluminum anodizing industry through educational programs, technical bulletins and networking opportunities that include the annual International Anodizing Conference and Exposition.

AAC is a progressive and influential industry force, a reputation proudly earned through years of dedication, commitment, and involvement by its members. Members gain exposure to non-members and potential customers through the AAC brand.



- **ALUMINIUM EXTRUDERS COUNCIL**

Is an international trade association dedicated to advancing the effective use of aluminum extrusion in North America. AEC is committed to bringing comprehensive information about extrusion's characteristics, applications, environmental benefits, design and technology to users, product designers, engineers and the academic community. Further, AEC is focused on enhancing the ability of its members to meet the emerging demands of the market through sharing knowledge and best practices.



2. SUSTAINABILITY AT TALCO



OUR CORE VALUES



MISSION

To provide high quality Aluminium Extruded Products through world-class sustainable manufacturing practices while meeting our obligations to society and the environment. We value strong, long-term business relationships.



VISION

To lead the aluminum industry and to maximize the contribution of aluminium to a sustainable society. To generate sustainable growth for stakeholders; with focus on customers, employees, and suppliers.



VALUES



SAFETY must be at the forefront of all our decision making.



RESPECT to each other encourages us to share valuable ideas & will guide us in our decisions.



INTEGRITY is at the heart of our individual to provide high-quality service & maintain a positive reputation.



TEAMWORK empowers and motivate our individual strengths and builds morale.



that we are responsible for achieving good **ENVIRONMENTAL** practice and operating in a sustainable manner.

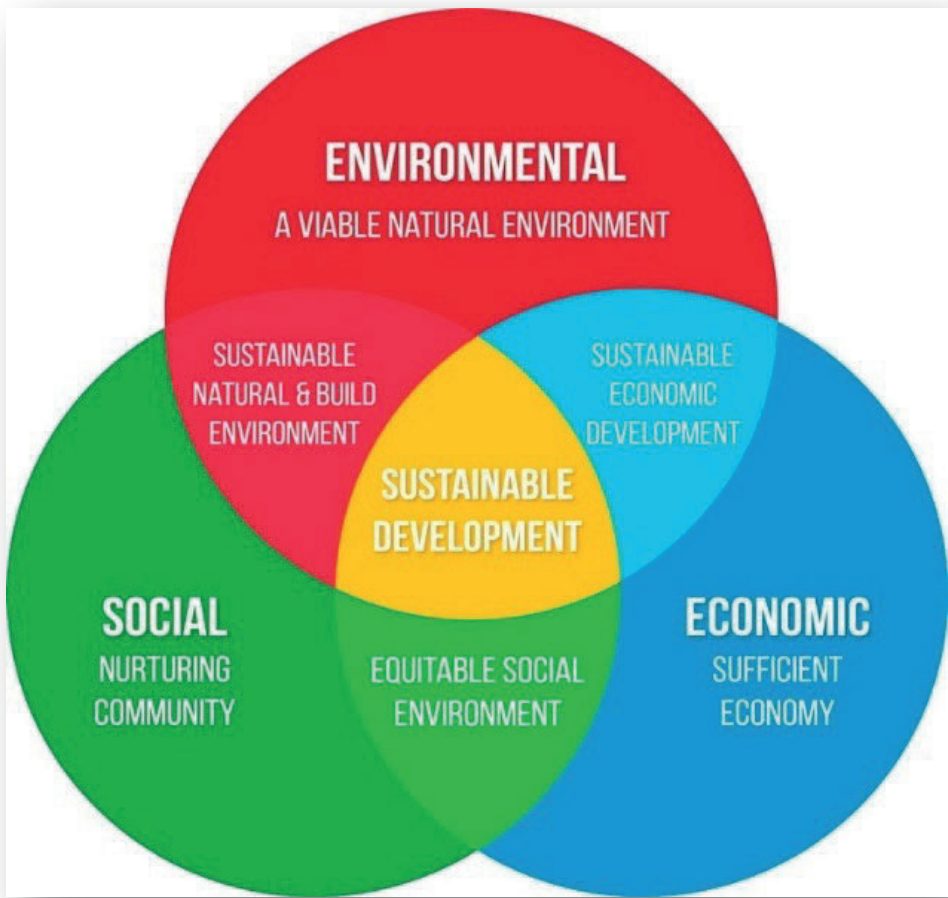
WE BELIEVE

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3. KEY ASPECTS OF OUR SUSTAINABLE MANAGEMENT

Sustainability Pathway: A Life-Cycle View and Approach

It has been a core business strategy and a long-term commitment of the aluminum industry in the Middle East to deliver sustainable products. To achieve this, the industry has focused on all aspects of a globally accepted triple-bottom-line concept of sustainable development (see Figure below): economic benefits, environmental soundness, and social well-being. A key approach the industry has taken to address sustainability is “life-cycle thinking” and management of its products.



The Triple Bottom Line of Sustainability

4. MATERIAL HEALTH

Aluminium is the world's most abundant metal and is the third most common element comprising 8% of the earth's crust. The versatility of aluminium makes it the most widely used metal after steel.

4.1 Production of Aluminium

Aluminium is derived from the mineral bauxite. Bauxite is converted to aluminium oxide (alumina) via the Bayer Process. The alumina is then converted to aluminium metal using electrolytic cells and the Hall-Heroult Process.

4.2 Annual Demand of Aluminium

Worldwide demand for aluminium is around 29 million tons per year. About 22 million tons is new aluminium and 7 million tons is recycled aluminium scrap. The use of recycled aluminium is economically and environmentally compelling. It takes 14,000 kWh to produce 1 tonne of new aluminium. Conversely it takes only 5% of this to remelt and recycle one tonne of aluminium. There is no difference in quality between virgin and recycled aluminium alloys.

4.3 Applications of Aluminum

Pure aluminium is soft, ductile, corrosion resistant and has a high electrical conductivity. It is widely used for foil and conductor cables, but alloying with other elements is necessary to provide the higher strengths needed for other applications. Aluminum is one of the lightest engineering metals, having a strength to weight ratio superior to steel.

By utilising various combinations of its advantageous properties such as strength, lightness, corrosion resistance, recyclability and formability, aluminum is being employed in an ever-increasing number of applications. This array of products ranges from structural materials through to thin packaging foils.

4.4 Alloy Designations

Aluminum is most commonly alloyed with copper, zinc, magnesium, silicon, manganese and lithium. Small additions of chromium, titanium, zirconium, lead, bismuth and nickel are also made and iron is invariably present in small quantities.

There are over 300 wrought alloys with 50 in common use. They are normally identified by a four-figure system which originated in the USA and is now universally accepted. Table 1 describes the system for wrought alloys. Cast alloys have similar designations and use a five digits system.

Table 1. Designations for wrought aluminium alloys.

Alloying Element	Wrought
None (99%+ Aluminium)	1XXX
Copper	2XXX
Manganese	3XXX
Silicon	4XXX
Magnesium	5XXX
Magnesium + Silicon	6XXX
Zinc	7XXX
Lithium	8XXX

For unalloyed wrought aluminium alloys designated 1XXX, the last two digits represent the purity of the metal. They are the equivalent to the last two digits after the decimal point when aluminium purity is expressed to the nearest 0.01 percent. The second digit indicates modifications in impurity limits. If the second digit is zero, it indicates unalloyed aluminium having natural impurity limits and 1 through 9, indicate individual impurities or alloying elements.

For the 2XXX to 8XXX groups, the last two digits identify different aluminium alloys in the group. The second digit indicates alloy modifications. A second digit of zero indicates the original alloy and integers 1 to 9 indicate consecutive alloy modifications.

4.5 Physical Properties of Aluminium

4.5.1 Density of Aluminium

Aluminium has a density around one third that of steel or copper making it one of the lightest commercially available metals. The resultant high strength to weight ratio makes it an important structural material allowing increased payloads or fuel savings for transport industries in particular.

4.5.2 Strength of Aluminium

Pure aluminium doesn't have a high tensile strength. However, the addition of alloying elements like manganese, silicon, copper and magnesium can increase the strength properties of aluminium and produce an alloy with properties tailored to particular applications.

Aluminium is well suited to cold environments. It has the advantage over steel in that its' tensile strength increases with decreasing temperature while retaining its toughness. Steel on the other hand becomes brittle at low temperatures.

4.5.3 Corrosion Resistance of Aluminium

When exposed to air, a layer of aluminium oxide forms almost instantaneously on the surface of aluminium. This layer has excellent resistance to corrosion. It is fairly resistant to most acids but less resistant to alkalis.

4.5.4 Thermal Conductivity of Aluminium

The thermal conductivity of aluminium is about three times greater than that of steel. This makes aluminium an important material for both cooling and heating applications such as heat-exchangers. Combined with it being non-toxic this property means aluminium is used extensively in cooking utensils and kitchenware.

4.5.5 Electrical Conductivity of Aluminium

Along with copper, aluminium has an electrical conductivity high enough for use as an electrical conductor. Although the conductivity of the commonly used conducting alloy (1350) is only around 62% of annealed copper, it is only one third the weight and can therefore conduct twice as much electricity when compared with copper of the same weight.

4.5.6 Reflectivity of Aluminium

From UV to infra-red, aluminium is an excellent reflector of radiant energy. Visible light reflectivity of around 80% means it is widely used in light fixtures. The same properties of reflectivity makes aluminium ideal as an insulating material to protect against the sun's rays in summer, while insulating against heat loss in winter.

Table 2. Properties for Aluminium.

Property	Value
Atomic Number	13
Atomic Weight (g/mol)	26.98
Valency	3
Crystal Structure	FCC
Melting Point (°C)	660.2
Boiling Point (°C)	2480
Mean Specific Heat (0100°-C) (cal/g.°C)	0.219
Thermal Conductivity (0100°-C) (cal/cms. °C)	0.57
Co-Efficient of Linear Expansion (0100°-C) (x106-/°C)	23.5
Electrical Resistivity at 20°C (Ω.cm)	2.69
Density (g/cm3)	2.6898
Magnesium + Silicon	68.3
Poisson's Ratio	0.34

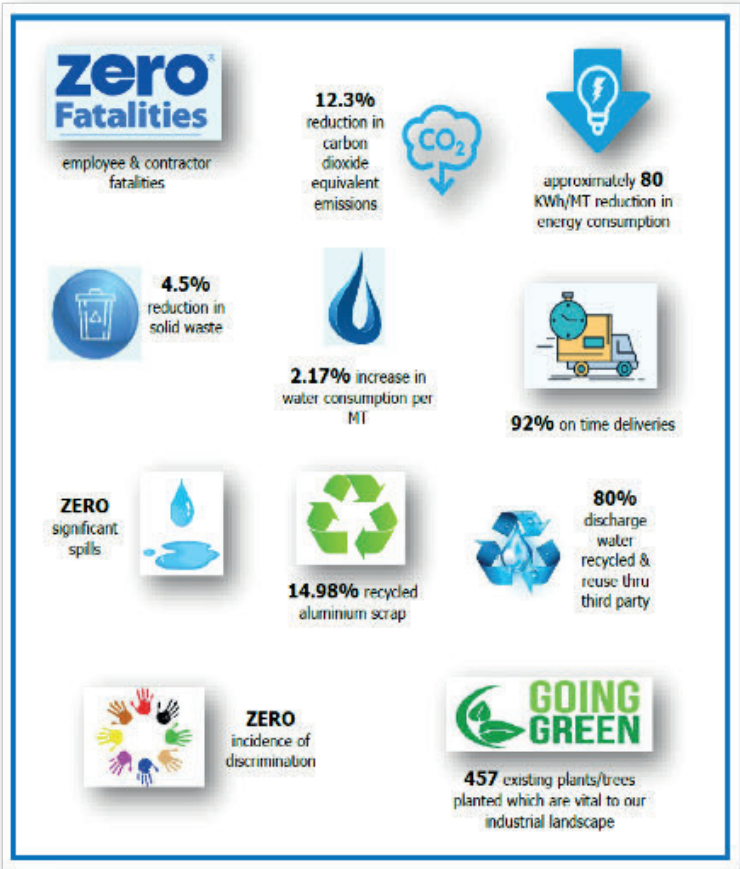
4.5.7 Mechanical Properties of Aluminium

Aluminium can be severely deformed without failure. This allows aluminium to be formed by rolling, extruding, drawing, machining and other mechanical processes. It can also be cast to a high tolerance.

Alloying, cold working and heat-treating can all be utilised to tailor the properties of aluminium.

The tensile strength of pure aluminium is around 90 MPa but this can be increased to over 690 MPa for some heat-treatable alloys.

5. 2020 SUSTAINABILITY PERFORMANCE HIGHLIGHTS



6. MATERIAL REUTILIZATION



6.1 Advantages of recycling aluminium

There are many advantages of recycling aluminium. Since it takes more energy to dig up and produce aluminium than any other metal, recycling not only avoids resources to be extracted from Earth, it also saves energy - lots of energy!

6.2 Recycling aluminium saves a lot of energy!

Recycled aluminium requires 95% less energy than producing new aluminium and generates only 5% of the greenhouse gas emissions. 75% of all aluminium produced in history is still in use.

6.3 Mining avoided

Recycling of aluminium cans not only saves energy. It also avoids the mining of new Bauxite ore used for aluminium production. Every year, recycled cans avoid nearly 5 percent of the world's total mining of Bauxite - and that's just from recycling aluminium cans.

6.4 It never wears out

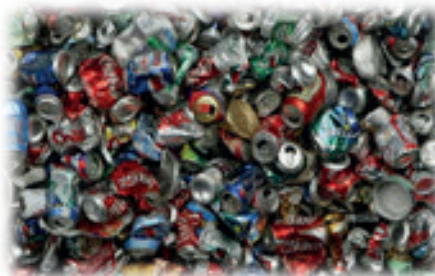
Aluminium can be recycled forever - without losing any of its qualities.

6.5 Infinitely recyclable, 6000 tons of aluminium scrap recycled.

TALCO recycles all the scrap materials generated in-house. It remains essentially unchanged no matter how many times it is processed and used. Therefore, it can be considered as a material with permanent characteristics, one that is not consumed, but used over and over again, without the loss of its essential properties. We also gathered scrap from various sources, from our suppliers, customers and contractors. All of these scraps are purchased locally.

TALCO Management initiative is to enable a more circular economy through our remelt facility, where we sort and remelt used and production scrap aluminium.

Agreements with scrap dealer and supplier to procure recycled aluminium thru various sources like building demolitions, recycled cans and cables from manufacturer's/automobile sectors and fabricators.



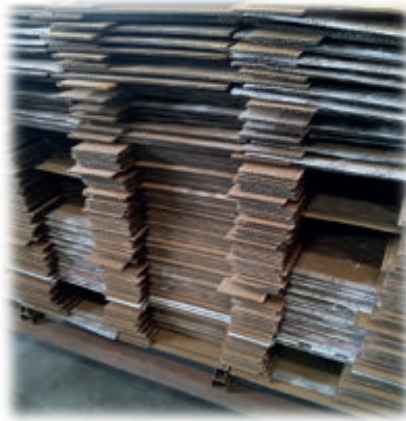
The in-house scrap generated is fully utilized by our in-house remelt facility contributing in reducing the GHG (Greenhouse Gas) Emissions.

The steel scrap generated sent for recycling thru third party.

2019 - 69,316 kgs.
2020 - 80,990 kgs.



30,016 kgs. of carton scrap sent for recycling thru third party.



The polythene scrap generated is recycled in-house.



7. HEALTH & SAFETY / ENVIRONMENTAL RESPONSIBILITY



7.1 Employees' Health and Safety at Work

TALCO has adopted a Basic Policy on Safety and Health so that all employees can focus on their work in a safe environment. We give top priority to worker safety as well as their well-being as a matter of company policy. The work environment relating to employee safety and health is managed according to the Basic Policy. Activities over the past year are reviewed in such areas as workplace safety, fire prevention, mental health and health management, and then plans are laid out for the following year. The Safety and Health Committee meets each month, and these meetings are attended by production representatives. A safety and health officer assigned at each workplace to ensure the effectiveness of day-to-day safety activities.

The employees are trained by a third party to comply with ISO 45001 norms. Regular TBT talks conducted for its effectiveness and it is evident with no accidents and ZERO fatalities.

7.2 Environment and climate

We have committed ourselves to minimize and mitigate our emissions.

Aluminium production has an impact on the environment: locally where we operate, and globally due to greenhouse gas emissions (GHG) and its effect on the climate.

As a fully integrated aluminium company, we are continuously improving our production methods and strive to minimize the impact of our operations have on the environment and climate.

A total of 457 trees surrounding the company premises to generated oxygen and reduce carbon emission. The employees voluntarily contributed for this cause.

7.3 Environment strategy

TALCO's approach to environmental management is based in our commitment to not only comply with local environmental laws and regulations but seek to minimize potential environmental risks and avoid lasting harm to the environment. TALCO's own internal policies and procedures, related to environmental management, ensure that all our sites follow the same minimum HSE management standards.

Our environment strategy targets the key environmental challenges of the aluminium industry:

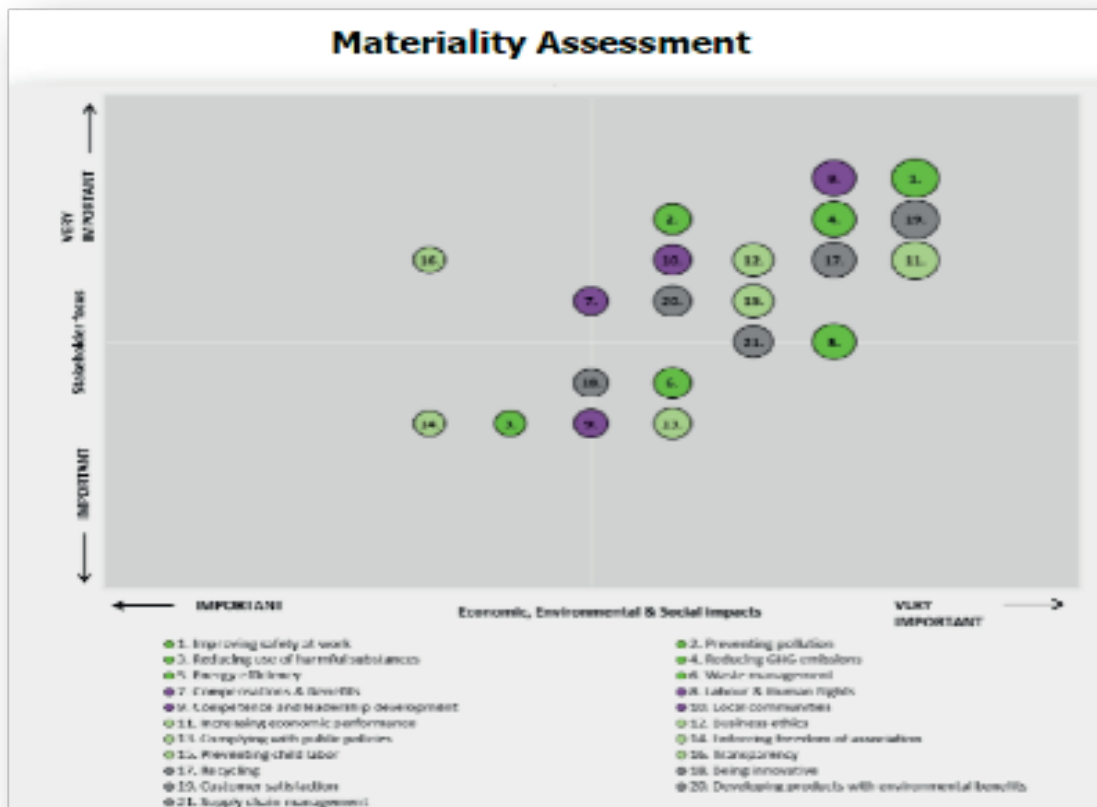
- 50% reduction in non-GHG emissions by 2030.
- The plantation of trees to be increased by 8% in 2021.
- To modify our existing external lighting to a renewable energy source in 2021.

7.4 Climate strategy

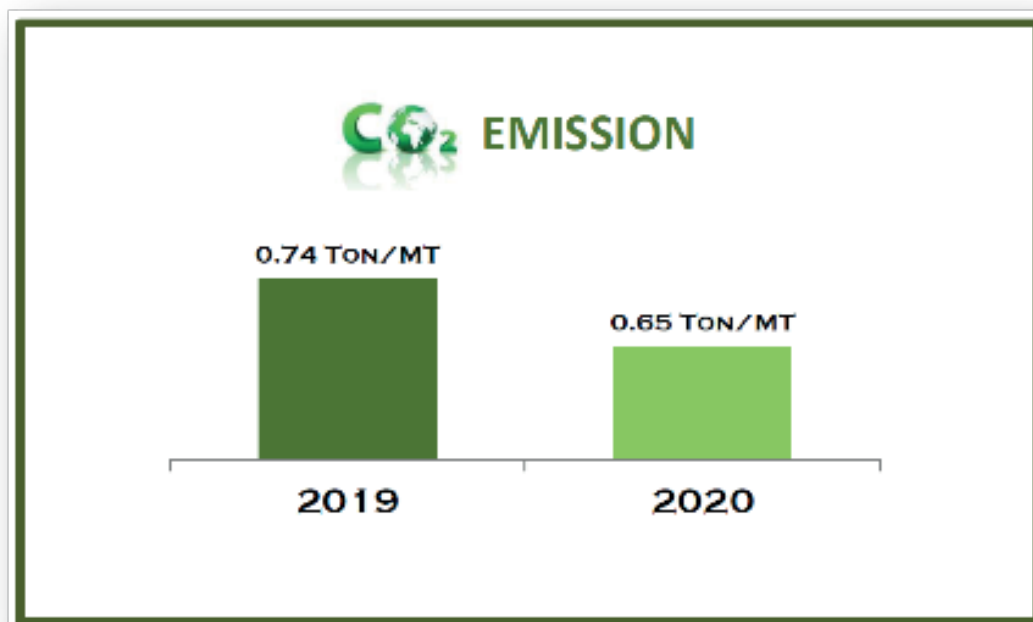
In our climate strategy we have set a target to reduce our own greenhouse gas emissions by 30% by 2030. We aim to do this through greener sourcing and greener production, and to help our customers reduce their emissions through greener products.

7.5 Defining Materiality

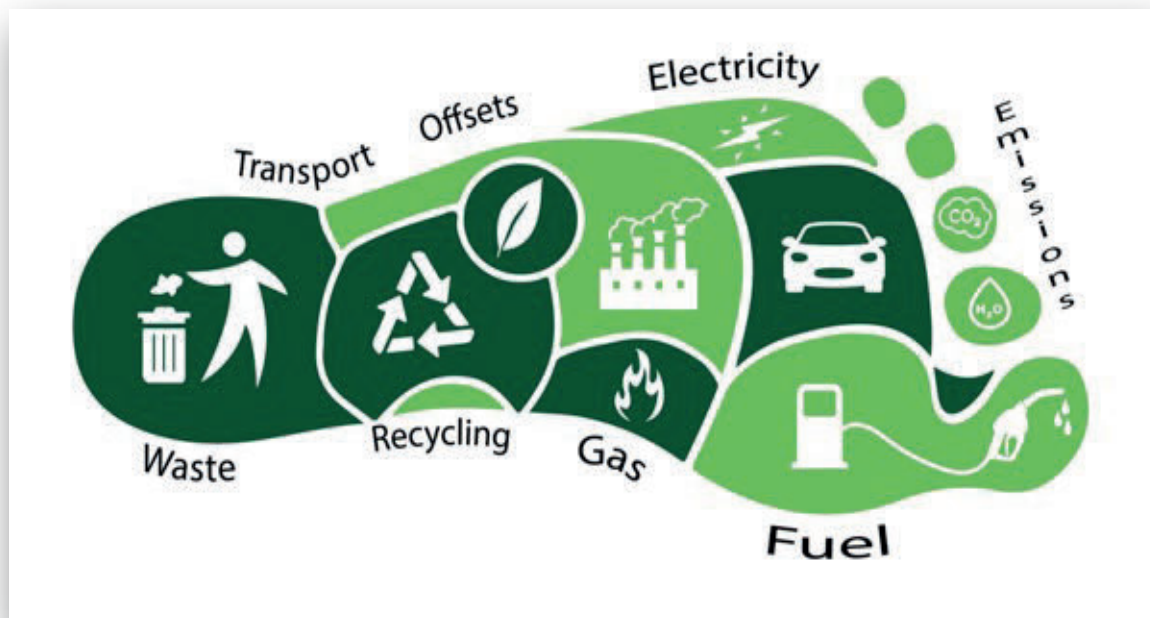
TALCO carried out its first materiality assessment for sustainability report 2019 & 2020 in cooperation with stakeholder groups. The company identified numerous material topics and divided these in four more general groups. The materiality assessment will serve as a building ground for the sustainability report.



8. CARBON MANAGEMENT



Note: The above CO₂ emission is per metric ton of production.



TALCO practicing sustainability from a very long time with respect to electricity.

The following initiatives were executed way back.

S#	ENERGY SAVING PROJECTS	COMPLETED YEAR	ENERGY SAVING / YEAR	CO2 REDUCTION / YEAR
1	OPTIMIZE AIR USAGE AUTOMATION & OF COMPRESSED	2011	1,892,200 KWH	1,026 MT
2	USE MOTORS WITH INVERTER. VARIABLE SPEED DRIVE (VFD)	2015	1,638,000 KWH	888 MT
3	AUTOMATIC POWER SAVING MODE WITH VFD HYDRAULIC PUMPS MOTOR.	2015	628,992 KWH	341 MT
4	MAIN OFFICE LIGHTS SWITCHED TO LED LAMPS.	2018	6,407 KWH	3.47 MT
5	EXTRUSION LINES ELECTRICAL CABIN ROOM AC COOLING OPTIMIZATION.	2018	57,658 KWH	31 MT

9.WATER MANAGEMENT

9.1 Water conservation strategy

- The water conservation initiatives are all part of the water conservation strategy.
- Study and obtain proposal for centralized cooling system to reuse water and electricity consumption.
- Study to reduce fresh water consumption and increase recycle water consumption wherever possible.

9.2 Water conservation initiatives

- Display of signboards to conserve water.
- All anodizing plant discharge partial caustic soda solution to maintain the bath but TALCO with its close monitoring and study doesn't discharge any solution instead the bath is maintained and work with equilibrium resulting in water and discharge.
- Using of recycle water wherever applicable.
- We have 27 sets of D.I. Units which works with close loop system at various production facilities resulting in conserving water because of no overflow use.



9.3 Water conservation strategy

	m3	Year
• Cooling tower recycled water used for watering trees.	2,788	2020
	1,998	2019
• Cooling tower recycled water used in other process.	21,840	2020
	25,200	2019
• Tanks dumping water is recycled in other process.	460	2020
	685	2019
• Discharge water is recycled and reused thru third party facility.	59,413	2020
	59,206	2019

10. FUTURE TARGETS FOR 2021



SECTION	TARGETS 2021
ENVIRONMENT	Further develop the Reverse Supply Chain - Increase the percentage of recycled aluminium: 1. Increase the use of recycled aluminium by 15%. 2. Define the new aluminium scrap sorting process to further increase aluminium recycling. 3. Over 3 years, our goal is the recycled aluminium to constitute 20% of the aluminium that enters the production process. • Maintain a high waterrecycling rate. • Apply SA 8000 that involves the development and auditing of management systems that promotes socially acceptable working practices bringing benefits to the complete supply chain. Continue to comply with SA 8000. • Apply ISO 14001 to enhance environmental performance, fulfillment of compliance obligations and achievement of environmental objectives. Continue to comply with ISO 14001. • Reduce energy consumption in production facilities. • To publish our product in International Environmental Product Declaration. • To achieve Cradle to Cradle Certification version 4 for our product. • To increase trees plantation by 8%. • To modify our existing external lightning to a renewable energy source in 2021. • Air Condition more than 15 years old/used is to be replaced for saving/reducing electricity consumption.
EMPLOYEES	Employee Satisfaction Survey Continuous employee safety training.
SOCIETY	Establish a Corporate Social Responsibility Team to develop actions to protect the environment, support society as a whole and ensure good corporate governance (ESG criteria).
MARKET	Consolidate co-operation with innovative and local suppliers and strengthen the local economy.