

Thank You Everyone!



With a legacy exceeding 60 years, ALCOM has journeyed faith-filled steps through time to emerge as the leading manufacturer of rolled aluminium products in the region of Asia Pacific today. Anchored through a sustainable business model, ALCOM desires to continue to represent Malaysia as an industry leader we serve in.

Today, we are humbled to share and celebrate that ALCOM has been awarded the **Most Successful Sustainable Valuable Brand in the Rolled Aluminium category at The BrandLaureate Sustainable Business & Brands Inspirational Achievement Awards 2022-2023**. This award is for everyone who had and continues to support ALCOM; Congratulations and we thank you from our hearts!



We have always been committed to build a better future along a sustainable vision and now, ALCOM is all the more determined through this recognition to continue our dedication and investments into the fundamentals of Environmental, Social and Governance. All of us at ALCOM aspire to be a global brand spearheading environment, innovation, servanthood and quality. God's blessings be with you!



INFINITE POSSIBILITIES



01.

MODERNIZATION FOR PRECISION
ALUMINIUM COMPANY OF MALAYSIA

02.

BUILDING A SUSTAINABLE TOMORROW
YOUR CONTRIBUTIONS TO PLANETARY HEALTH

03.

OVERVIEW OF REGULATIONS & LEGAL:
THE CBAM LEAD

04.

ALUMINIUM
CIRCULAR ECONOMY | ALCOM INITIATIVES | CARBON SCOPES

05.

ALUMINIUM
THE SOLUTIONS

ALUMINIUM COMPANY OF MALAYSIA BERHAD

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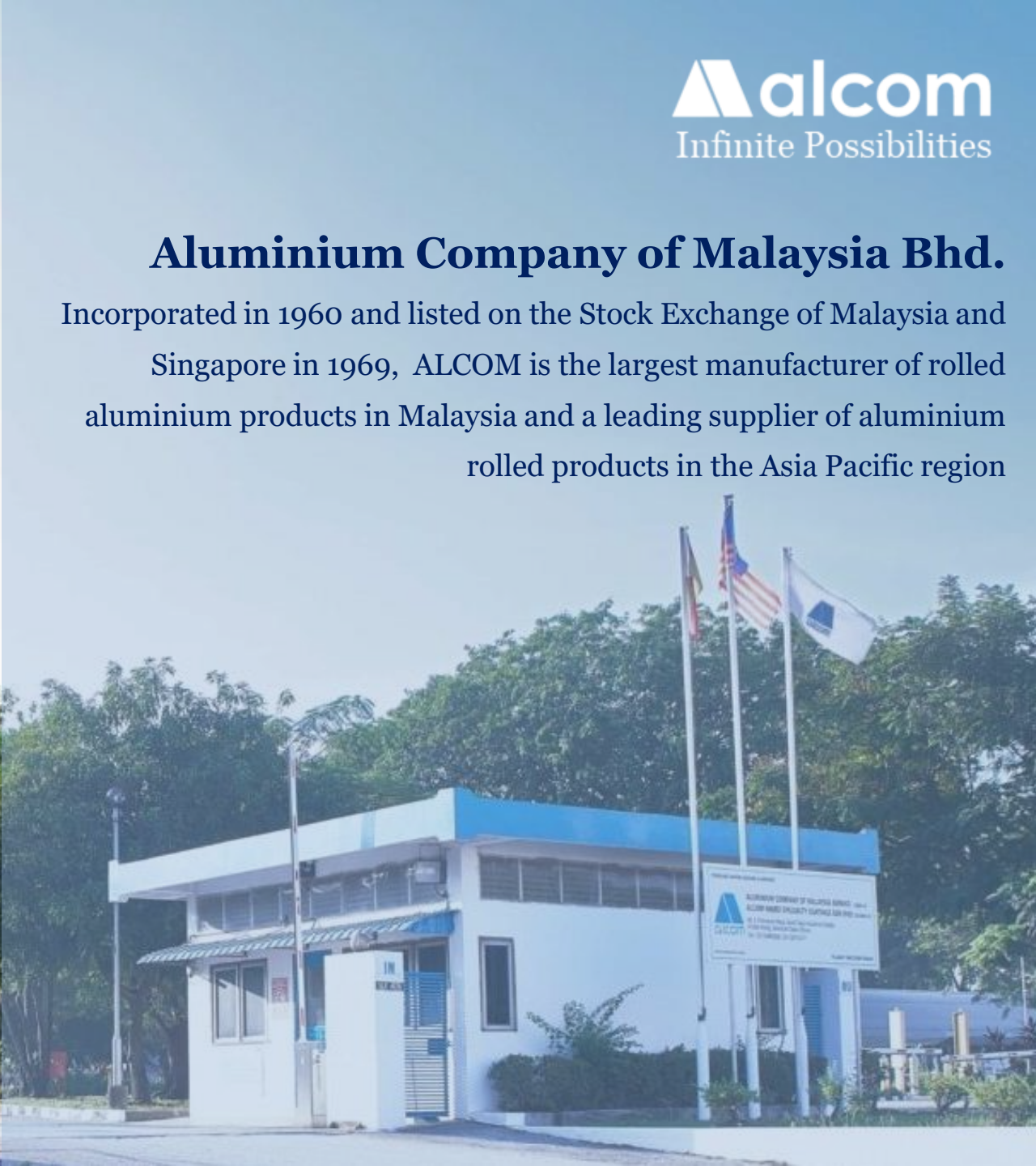
05.

ALUMINIUM
THE SOLUTIONS



Aluminium Company of Malaysia Bhd.

Incorporated in 1960 and listed on the Stock Exchange of Malaysia and Singapore in 1969, ALCOM is the largest manufacturer of rolled aluminium products in Malaysia and a leading supplier of aluminium rolled products in the Asia Pacific region



61,800

*Capacity in mt per year



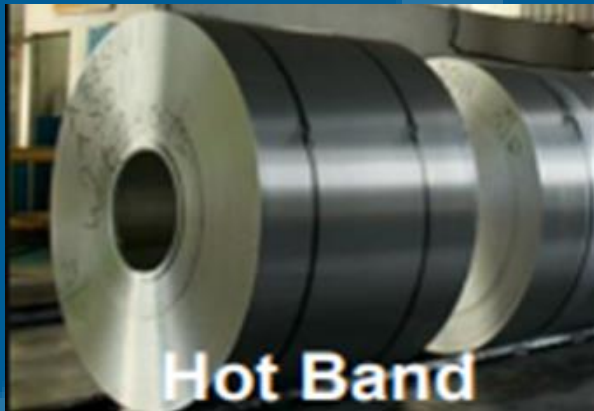
Cast Coil



Value Life
Over Profit

alcom
Infinite Possibilities

HOW WE OPERATE



Hot Band

471

Manpower



Coating Line

9,137

ANSC build-up area in m2

122,555

Land area in m2



Cold Rolling

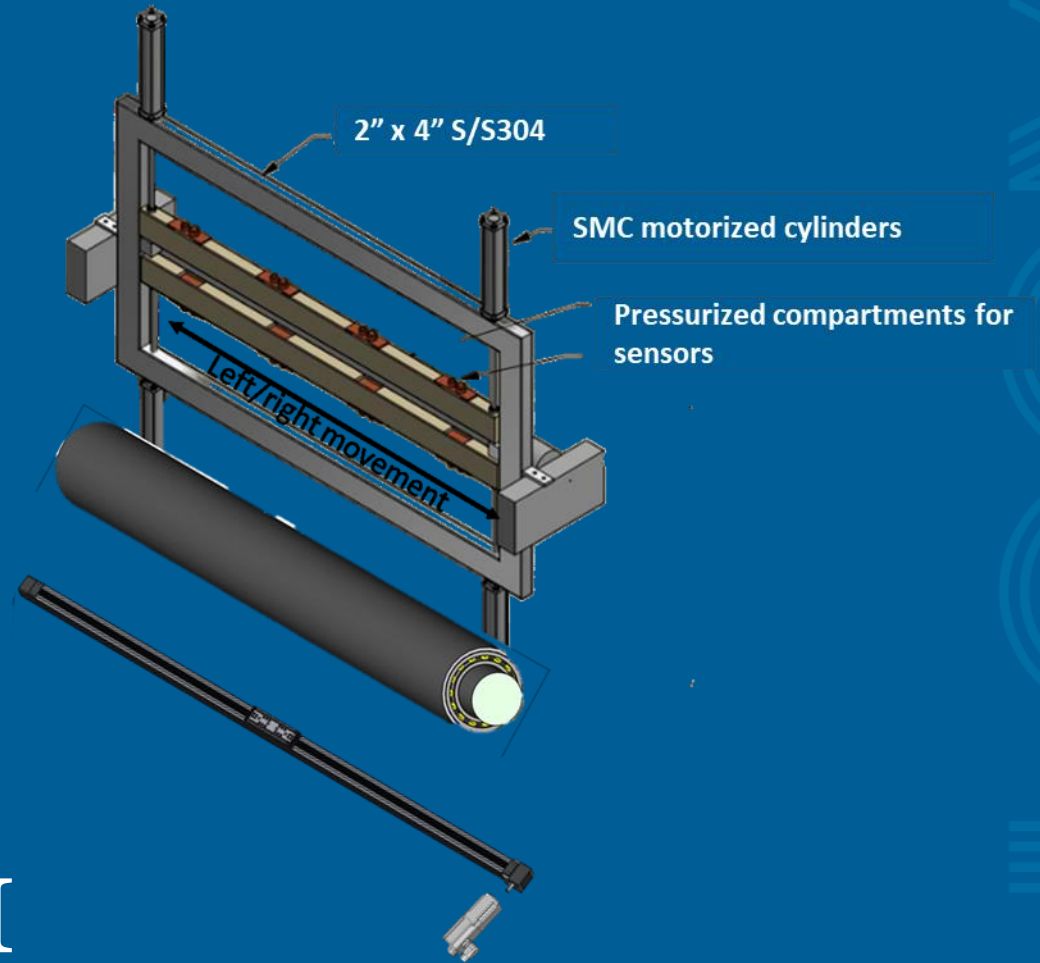
38,641

ALCOM build-up area in m2



Slitter

MODERNIZATION FOR PRECISION



Machine Learning & AI

Algorithm | Close Loop System | Data Collection

Sensors Thermometer Camera

RM 1.3mil
Investment

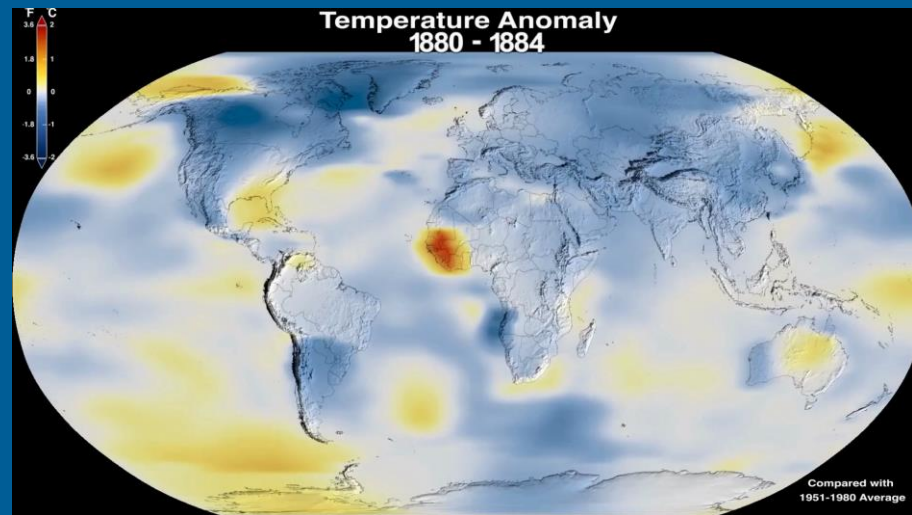
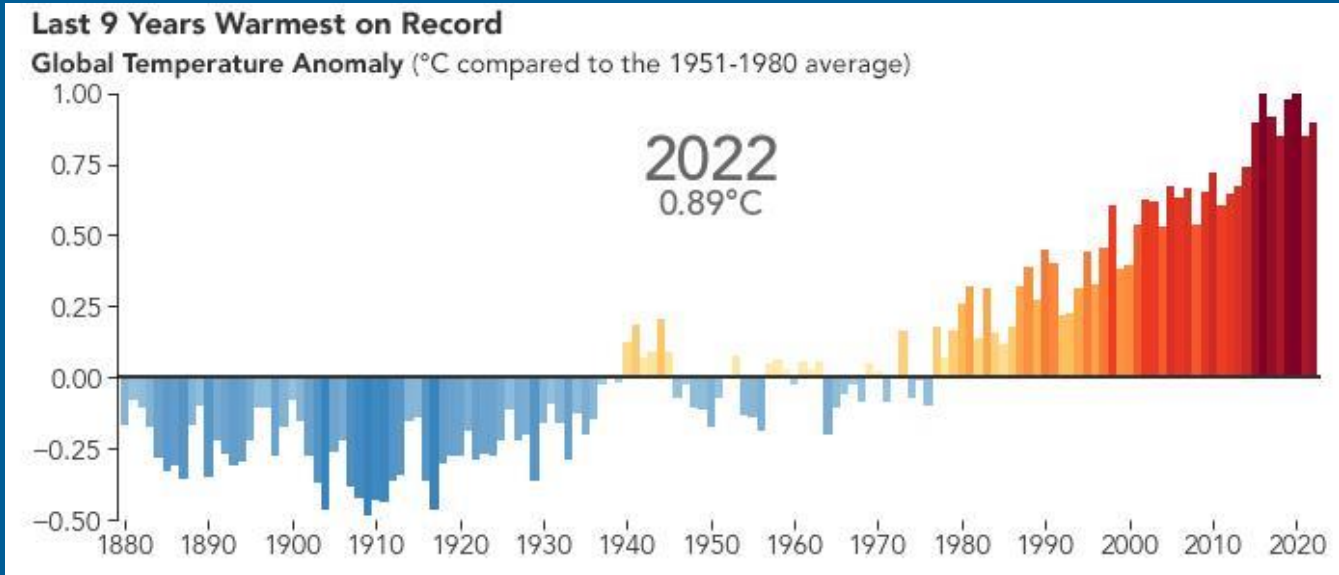
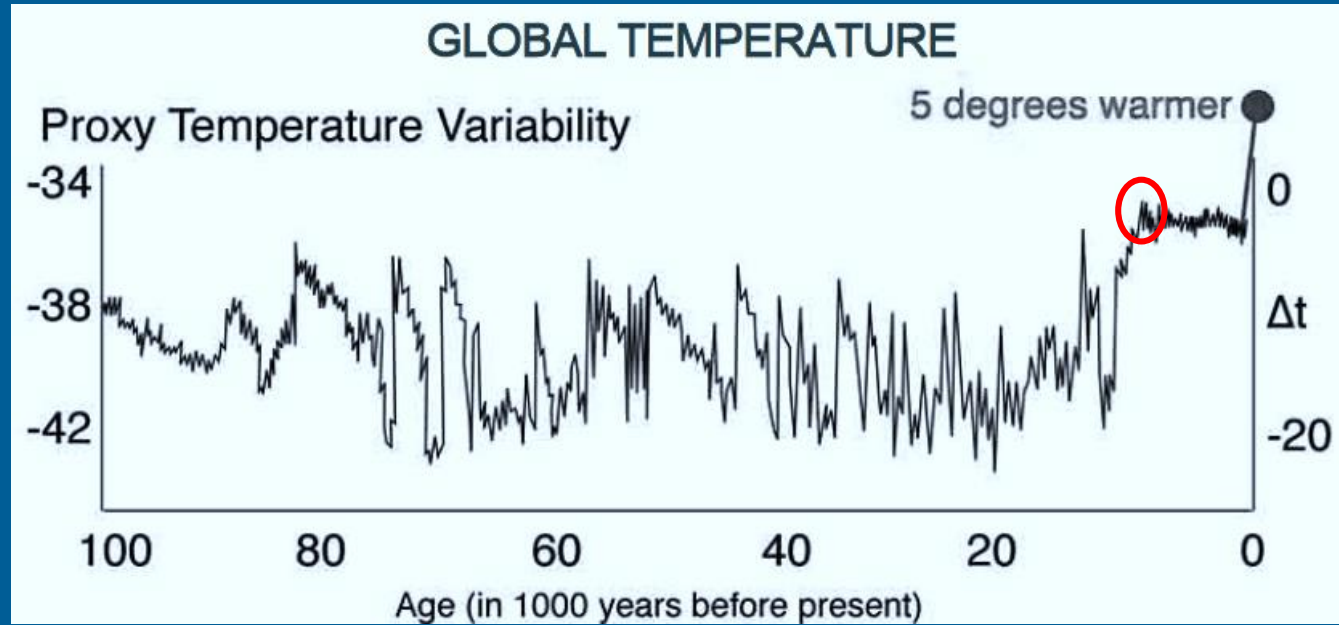
**BUILDING A
SUSTAINABLE
TOMORROW:**

**YOUR
CONTRIBUTIONS TO
PLANETARY HEALTH**



GLOBAL LAND-OCEAN TEMPERATURE INDEX

Data source: NASA/GISS; Credit: NASA's Scientific Visualization Studio and W



WHAT IS THE PLANETARY BOUNDARY CONCEPT?

A framework developed by scientists to define and quantify the safe operating limits for key Earth system processes and environmental parameters

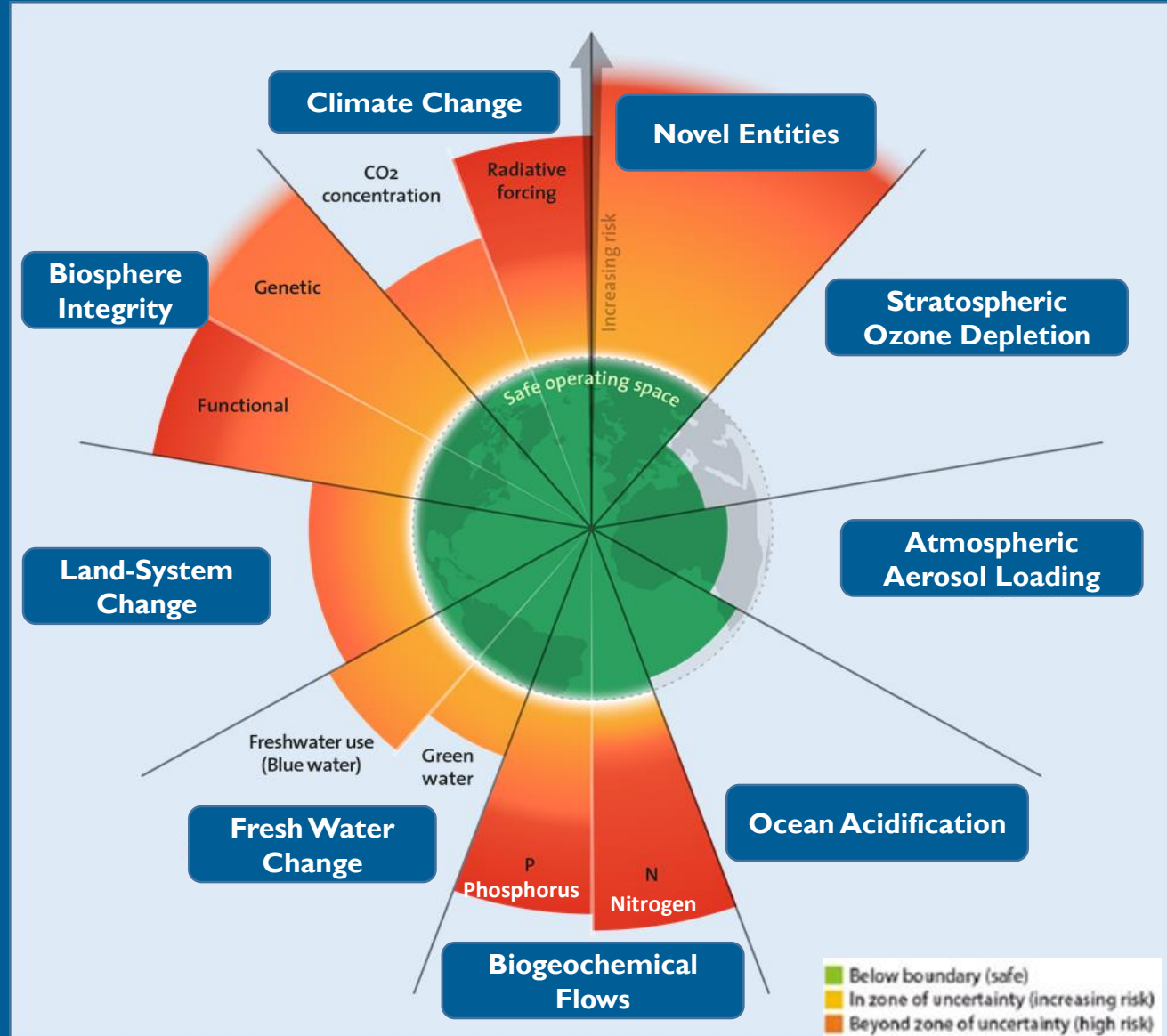


Image source: www.stockholmresilience.org

Boundaries that must not be surpassed for humans to survive sustainability on Earth.

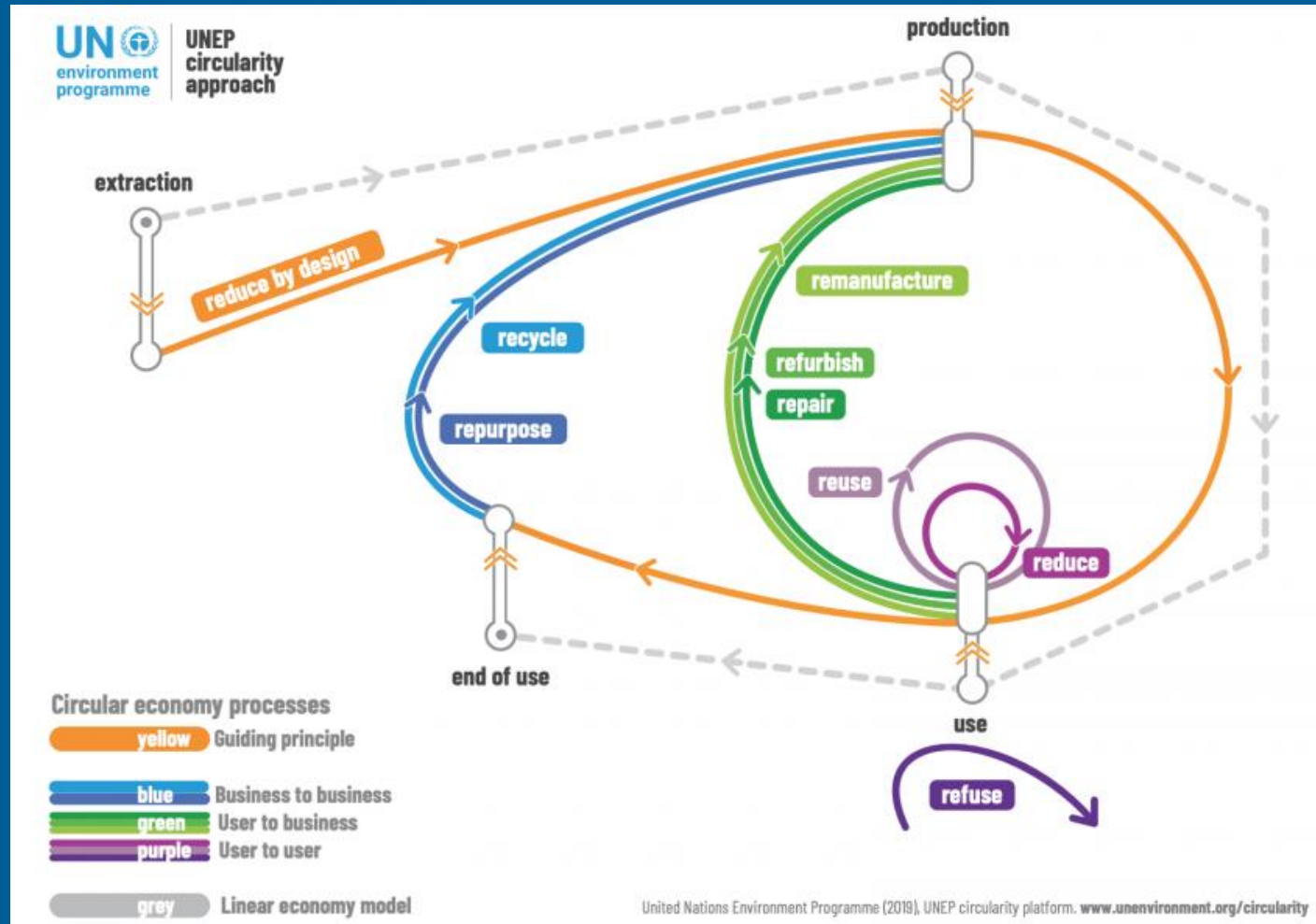
PROMOTE CIRCULAR ECONOMY

Reduce by Design

Design products with a focus on durability, reparability and recyclability.



“
HUMANITY FACES A STARK
AND URGENT CHOICE:
BREAKDOWN OR
BREAKTHROUGH.”
UNITED NATIONS SECRETARY-GENERAL
ANTÓNIO GUTERRES



United Nation Environment Programme Circularity Approach

Image source: <https://www.unep.org/circularity>

Establish take-back programs to ensure responsible disposal and recycling products at the end of their life cycle.

SUPPORT RENEWABLE ENERGY

Transition to renewable energy sources such as solar, wind and hydroelectric power for operations.

Invest in on-site renewable energy generation to reduce carbon emissions.



ETHICAL SOURCING & SUPPLY CHAIN RESPONSIBILITY

Design, Source & Procure materials and products from suppliers who adhere to robust sustainability practices and ethical standards.

Perform supply chain assessment to proactively manage environmental and social risks, demonstrating our commitment to responsible sourcing and operations.





BIODIVERSITY CONSERVATION

Incorporate eco-friendly landscaping and building designs that actively support biodiversity while minimizing habitat disruption.

Embrace and amplify unwavering initiatives dedicated to preserving and rejuvenating ecosystems and wildlife habitats for sustainability.



alcom
Infinite Possibilities

REDUCE EMISSIONS & CARBON FOOTPRINT

Define sustainability-driven targets to reduce greenhouse gas emissions and craft strategies aimed at achieving carbon neutrality.



Investing carbon offset initiatives or procuring renewable energy certificates to mitigate emissions.



WATER STEWARDSHIP

Embrace sustainable water-efficient technologies and practices to reduce or promote responsible water consumption.

Advocate for sustainable water conservation initiatives and the safeguarding of watersheds.



INNOVATION & RESEARCH

Commit to sustainable research and development efforts aimed at pioneering innovative solutions for addressing challenges on sustainability.

Forge strategic collaborations with academic institutions and research centers to propel the development of cutting-edge sustainable technologies.

COMMUNITY ENGAGEMENT & SOCIAL IMPACT

Foster local community engagement by supporting philanthropic initiatives, volunteering and actively contributing to communal development projects.

Encourage and support programs dedicated to educate and improve healthcare for the betterment of local communities.

EMPLOYEE WELL-BEING & EMPOWERMENT

Give precedence to the welfare of employees through wellness programs, flexible work arrangements, and the creation of a positive work atmosphere.

Empower employees to contribute to sustainability endeavors by providing training, educational opportunities and platforms for sharing innovative ideas.



**OVERVIEW OF
REGULATIONS
& LEGAL:
THE CBAM LEAD**



CBAM INTRO

WHAT IS CBAM?

- EU Carbon Border Adjustment Mechanism (CBAM)
- Aims to prevent '**carbon leakage**'
- Carbon price payable under the EU Emissions Trading System (ETS)
- Applicable when the same goods are produced within the EU
- CBAM Scope: iron and steel, cement, fertilisers, **aluminium**, electricity, and hydrogen
- Scope can increase in the future



WHAT IS CBAM?



CBAM INTRO

IMPLEMENTATION TIMELINE

Dec 2019

European Commission adopted Communication on the European Green Deal envisaging a carbon border adjustment mechanism (CBAM) for selected sectors.

October 2023

The transitional period for the CBAM is expected to start where EU importers must submit quarterly CBAM reports. Such emissions are proposed to include direct and indirect ones occurring during production.

2026 – 2027

The transitional period for the CBAM ends and the carbon levy under the CBAM must be paid through the purchase of CBAM certificates. The EU ETS's free emission allowances are to be replaced by the CBAM, this is to occur from 2026 and 2034.



IMPLEMENTATION TIMELINE





CBAM INTRO

IMPLICATIONS TO OUR BUSINESS - COST

0%

Until end 2026

CBAM cert

~EUR90

per ton CO₂e

penalty

EUR100

per ton CO₂e

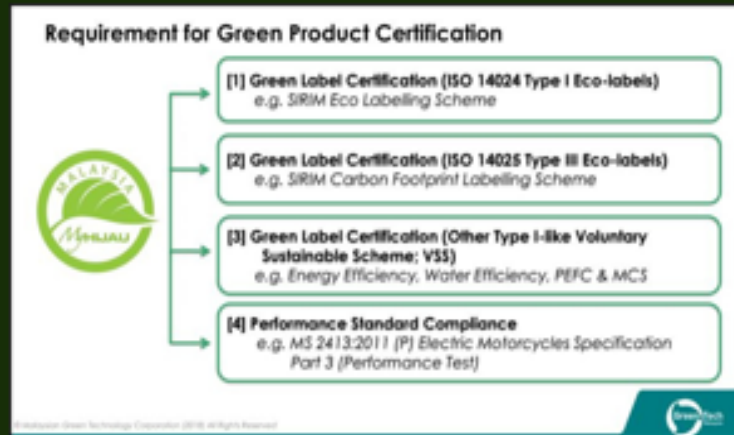
- January 1, 2026, the CBAM will require importers of the covered goods and products to purchase and surrender "CBAM certificates"
- Compliance cost: quantification, verification (local & EU authorised), cost-sharing with client
- Cost for mitigation: e.g. switching to hydro, increasing recycling scrap, decarbonisation, etc.

IMPLICATIONS TO OUR BUSINESS- COST

ECO LABELS & CERTIFICATIONS

MYHIJAU

- MyHIJAU Mark is a Malaysian government initiative to promote the sourcing and purchasing of green products and services in Malaysia
- Routes for registration



ISO 14000

ECO LABELS & CERTIFICATIONS

- Type I environmental labelling, which is commonly referred to as "eco-labelling"
- Type I labels are voluntary and third-party certified
- Type III labels provide detailed information about the environmental performance of a product based on life cycle assessments.
- They use Environmental Product Declarations (EPDs)

STANDARDS FOR GHG MANAGEMENT (QUANTIFICATION)

- Guidelines for quantifying, monitoring, reporting, and verifying GHG emissions and the removals of GHGs
- Guide for quantification and communication of the carbon footprint of products

ALUMINIUM

FOR
CIRCULAR ECONOMY
ALCOM INITIATIVES
CARBON SCOPES

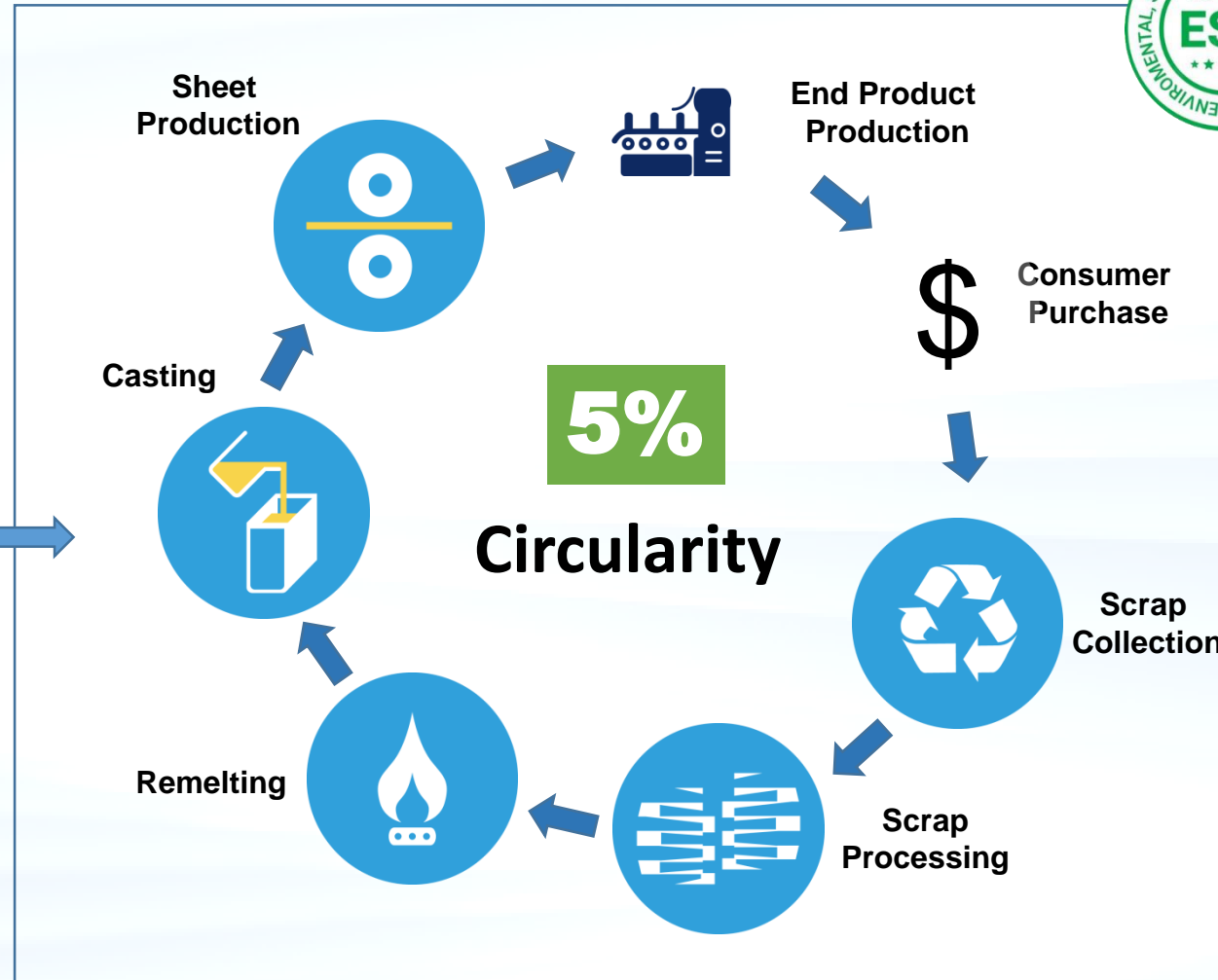
ALCOM'S ALUMINIUM IN THE CIRCULAR ECONOMY



**95%
Target Scrap
Or Hydro
Powered Ingot**

Bauxite Mining Alumina Refining Primary Smelting

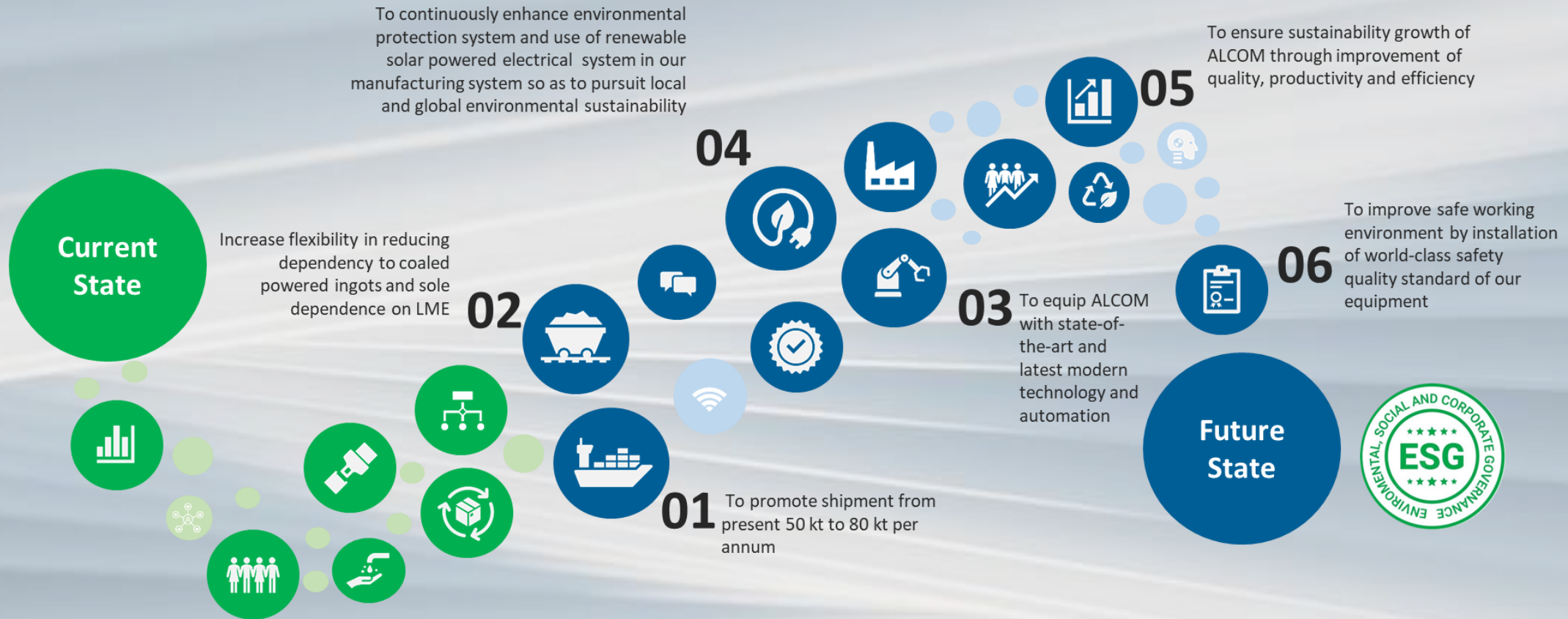
95%



Fun Facts About Aluminium

- Recycled Infinitely
- 75% of all aluminium ever made is still in use today
- Truly a **GREEN METAL** with low carbon footprint
- Recycled content ~ 70% to 100%.
- The recycling process requires 95% less electrical energy and produces 95% fewer greenhouse gas (GHG) emissions than manufacturing Al ingot from bauxite

CURRENT STATE VS FUTURE STATE



ALCOM'S ESG

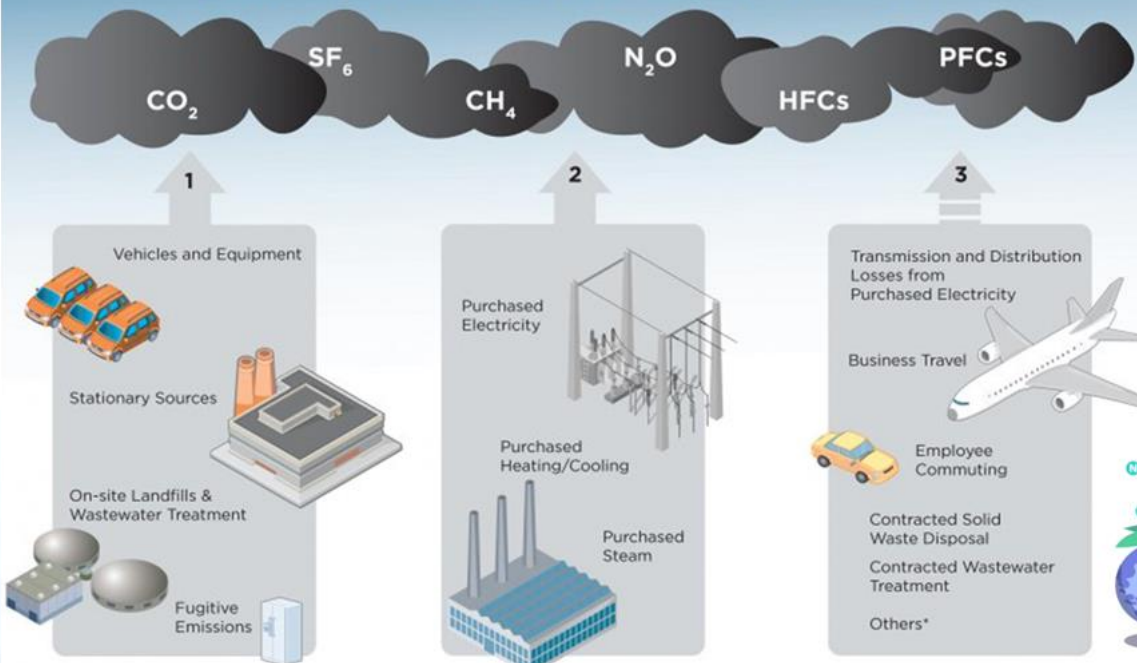
POSITIVE IMPACT VALUE CREATION

Scope 1 :
Direct emissions - ALCOM

Scope 2 :
Indirect emissions - ALCOM

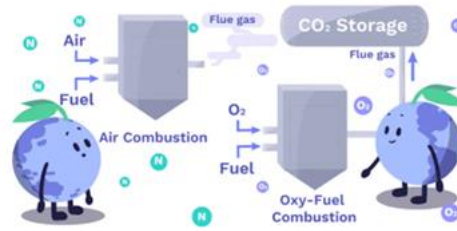
Scope 3 :
Indirect emissions – Suppliers

Common Sources of Federal Greenhouse Gas Emissions



Scope 3 : Ingot Supply

Substituted
with SCRAP or
Hydro power



Low-Carbon Aluminium

Customer: _____ Date: _____
Certificate No: _____

This is to certify that the metal as per the table below is produced with less than 4.0 metric tons of CO₂e per metric ton of metal, for both Scope 1 and Scope 2 (Direct and Indirect)* emissions from aluminium electrolysis, aluminium casting, anodizing production, as well as emissions from electricity generation & heat production associated with these processes.

Invoice No	
Invoice Date	
Tonnage	
Product	

**The GHG inventory calculations methodology adopting ISO 14064 is third-party verified.*

Environmental Product Declaration: Verified in accordance with ISO 14025. Lifecycle analysis is conducted in accordance with ISO 14048.

Production site is located in the Sarawak Corridor of Renewable Energy (SCORE) key areas, the smelter is powered predominantly with hydroelectric generation.

FOR REFERENCE ONLY

Our Commitment & ESG Membership

FTSE4Good | asi | United Nations Global Compact

ALCOM has Highest Aluminium Scrap & Hydro Powered Ingot Process Capability

*Additional, significant Scope 3 emission sources exist beyond the examples provided.

ALUMINIUM

THE SOLUTIONS



Corrosion Based Material

Coating Dependent

CONVENTIONAL ROOFING MATERIAL

High Depreciation Value

High Heat Absorption Material





Sustainable



**Buy-Back
Guarantee**



Recyclable



**Thermal
Conductivity**



Reflectivity



**Corrosion
Resistance**



Lightweight



**Ductile &
Malleable**

ALUMINIUM

**THE SUSTAINABLE METAL
FOR FUTURE**

ONE & ONLY

ALCOM BUY-BACK GUARANTEE

The Buy Back price would be calculated as follow:

Buy Back Value (BBV) = Current LME x **60%** x MYR Ex Rate

LME = USD 3542.93 (Mar'22) x RM Ex Rate = 4.2602 (Mar'22)

RM15,093.60 per Mt \approx **RM 15.09 per kg**

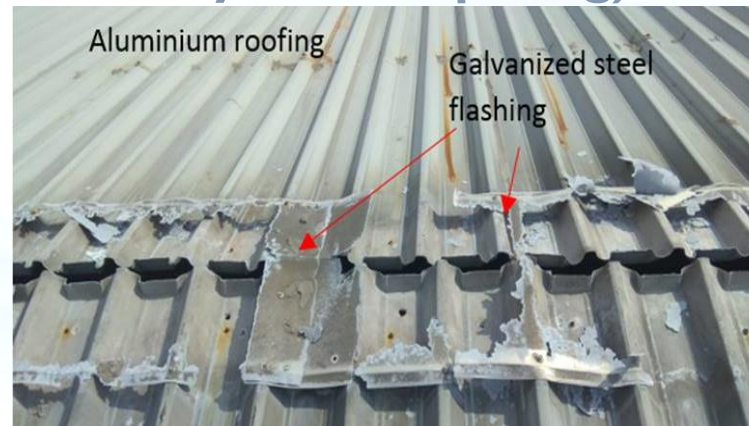
(Steel approximately RM11.00 per kg)

BBV = USD 3542.93 x 60% x RM 4.2602

BBV = USD 2,125.76 x RM 4.2602

BBV = RM 9,056.16 per Mt \approx **RM 9.06 per kg**

(Steel approximately RM11.00 per kg)



ALCOM EXTENDED WARRANTY

	Warranty Against	NATURE (Stucco Embossed)	ELEGANT (PE Coated)	SUPREME (SPE Coated)	INFINITE (PVDF Coated)	Brand B Generic	Brand B Premium	Brand B Enhance
General Area, General Building > 3km from coastal area	Perforation by Corrosion	25 (0.50-0.70) 30 (0.80-0.90)	30	30	35	15	25	30
	Peel or Flake	-	15	15	15	10	15	15
	Excessive Fading	-	10	15	15	5	10	10
	Discolouration	-	5	5	-	-	5	5

Factories / Industries

Case by case (depends on industry, process, chemical used, building structure, location and etc)

ALCOM EXTENDED WARRANTY



	Warranty Against	NATURE (Stucco Embossed)	ELEGANT (PE Coated)	SUPREME (SPE Coated)	INFINITE (PVDF Coated)	Brand B Generic	Brand B Premium	Brand B Enhance
Coastal Area, General Building < 200m 201 – 1000m 1001 – 3000m	Perforation by Corrosion	10	15	15	15			
		15	20	20	20			
		20	30	30	30			
	< 200m	-	No	No	10			
201 – 1000m 1001 – 3000m	Peel or Flake	-	No	No	10	N/A		
		-	6 - 8	10 – 12	15			
		-	No	No	8			
< 200m	-	No	No	8				
201 – 1000m 1001 – 3000m	Excessive Fading	-	4 - 6	8 - 10	12			
		-	-	-	-			
		-	-	-	-			
< 200m	-	-	-	-				
201 – 1000m 1001 – 3000m	Discolouration	-	-	-	-			
		-	-	-	-			
		-	-	-	-			

Factories / Industries

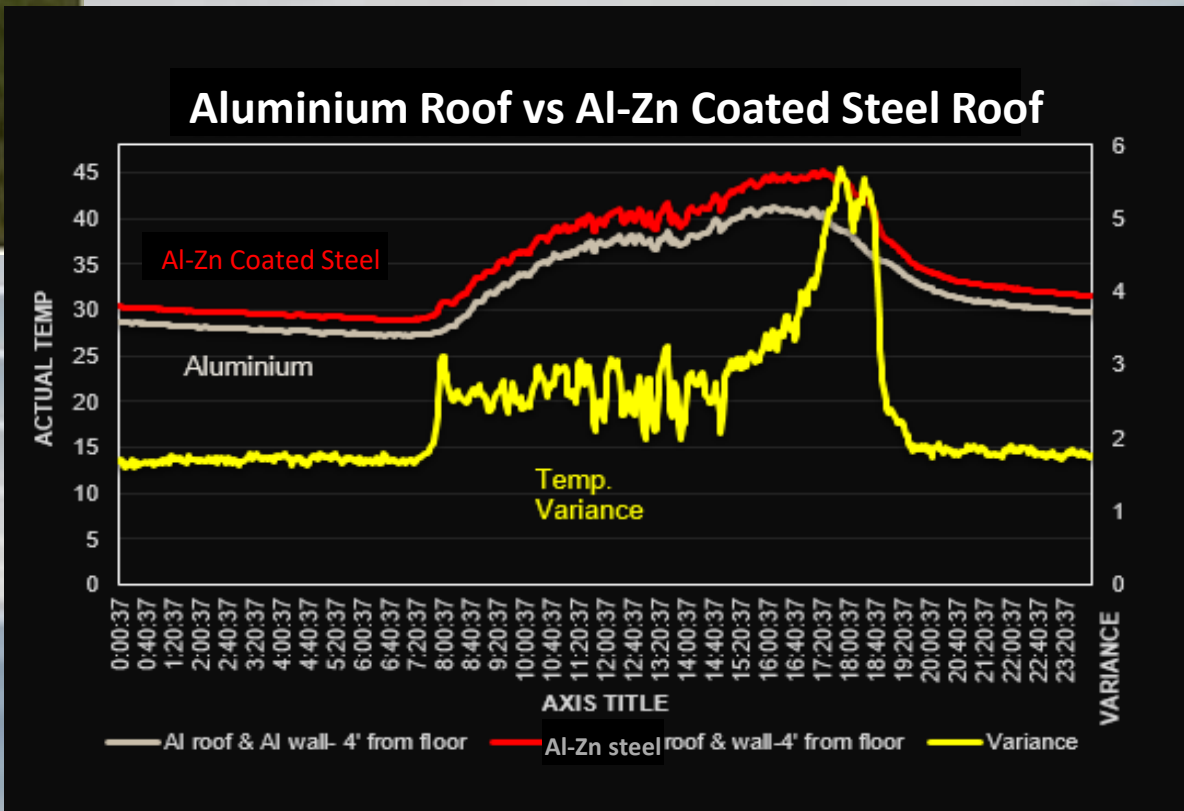
Case by case (depends on industry, process, chemical used, building structure, location and etc)



ALCOM COOLNESS OR THERMAL EFFICIENCY



4° - 5°C
Difference





Sustainability : Our Future
Environment : Circularity and Recyclability
Business : Customer, Banking & Financing

Solar Panel : 48% Savings on Roofing

- A. ONE & ONLY PROGRAM :** Achieve 48% roofing cost savings through tax incentives by including ALCOM Aluminium roofs in the Solar Investment Package.
- B. One-stop Integrated & Converged Solution Provider;** A single provider handles everything from government approvals, incentive claims, financial support, engineering design, procurement, construction, commissioning, project management, operation, maintenance, and warranties for roofing and solar panels.
- C. One-stop Integrated & Converged After Sales Service –** Warranty and After Sales Service/Support under One Liability Window

ONE STOP SOLUTION: ALCOM PREMIUM ALZIP & SOLAR SOLUTION

Items	ALCOM Aluminium 0.6 mm NATURE SE	ALCOM Aluminium 0.6 mm ELEGANT PE (Colour)	Steel Investment Value
Total Roofing	RM1,559,479	RM1,865,299	RM1,766,181
48% Potential Savings Roofing	RM726,748	RM869,265	RM -
Net Investment	RM832,732	RM996,033	RM1,766,181
Net Savings (Compared to Steel)	RM933,450	RM770,148	

*Simulation above is base on RM3.5 million investment on solar. Typical cap of 48% roof savings is at 50% of the investment value of solar panel.

1. Operational costs excellence as well as Sustainability.
2. Sustainable life span for Solar + Re-Roofing project.
3. New Business Route (if New Project) : Roofing directly under Owner. Main Con can be project management partner for costs savings.



ALCOM



**THANK
YOU**