

Đơn vị tổ chức / Organisers



BỘ TÀI CHÍNH
BẢO TÀI CHÍNH - ĐẦU TƯ



Đối tác Đồng hành / In partnership with



Sharing Practical ESG

Implementation & Enhancing Investment Efficiency

Agenda

- **ResponsibleSteel™ – The ESG Journey of NS BlueScope VN**
- **Case Study: ESG Criteria Implemented in NS BlueScope VN**

ENVIRONMENT

- Climate Change and Greenhouse Gas Emissions
- Noise, Emissions, Effluents and Waste
- Case Study: EPD & Green Certification

SOCIAL

- Occupational Health and Safety

GOVERNANCE

- Responsible Sourcing

BLUESCOPE: WORLD'S LEADING PROVIDER OF COATED STEEL

BlueScope

A global leader in premium branded Coated and Painted steel products.

NS BlueScope

50:50 joint venture enterprise between BlueScope and Nippon Steel Corporation of Japan, operates in ASEAN and North America.

NS BlueScope Vietnam

NS BlueScope Vietnam is now operating three factories in Phu My coating line (since 2005), Bien Hoa roll-forming line (since 1997) and Hung Yen.



Colorbond® **Zincalume®**



Social negative perception of a highly polluted heavy industry

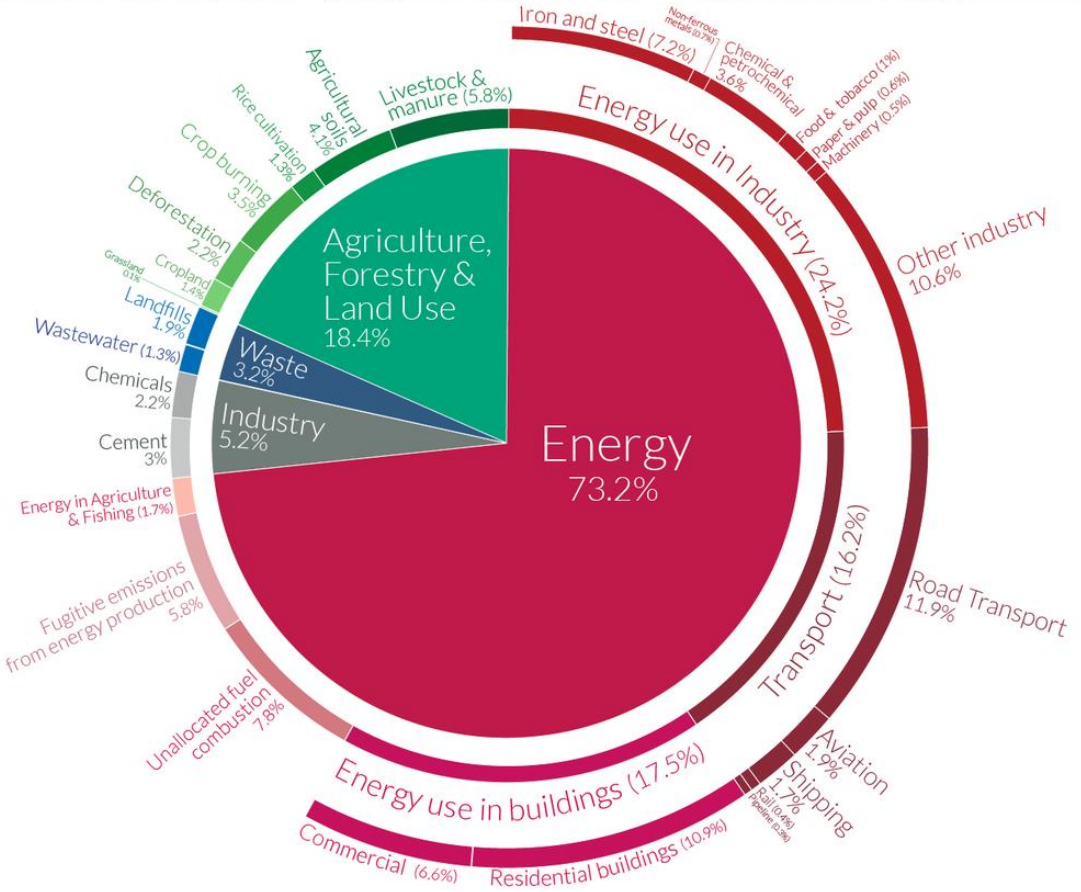


Pictures for reference only

Global greenhouse gas emissions by sector

This is shown for the year 2016 – global greenhouse gas emissions were 49.4 billion tonnes CO₂eq.

Our World
in Data



OurWorldinData.org – Research and data to make progress against the world's largest problems.
Source: Climate Watch, the World Resources Institute (2020).
Licensed under CC-BY by the author Hannah Ritchie (2020).

Can we implement a sustainable **ESG** strategy for heavy industry?



BLUESCOPE - THE 1st STEEL BRAND TO APPLY “RESPONSIBLE STEEL” - AN INTERNATIONAL CUSTOMIZED ESG FRAMEWORK FOR STEEL INDUSTRY



- ✓ General framework for all industries
- ✓ Early stage in Vietnam



- ✓ Global steel industry's multi-stakeholder sustainability standard & certification program - **Customized for Steel industry**
- ✓ Audit and assessment against **the 13 principles** of the ResponsibleSteel™, covered a range of environmental, social & governance **(ESG) criteria**
- ✓ **Clearer roadmap** and specific focused with global certified standard

**THE ESSENTIAL FACTOR
TO SUSTAIN BRAND LEADER POSITION
OF BLUESCOPE IN STEEL INDUSTRY**

“A structured framework used to evaluate how a company manages its impact on the environment, treats its employees and communities, and ensures effective governance practices” .

ESG

ENVIRONMENTAL

- 8. Climate Change & GHG emission
- 9. Noise, Emissions, Effluents & Waste
- 10. Water Stewardship
- 11. Biodiversity

SOCIAL

- 3. Occupational Health & Safety
- 4. Labor Rights
- 5. Human Rights
- 6. Local Communities
- 7. Stakeholder Engagement & Communication

GOVERNANCE

- 1. Corporate Leadership
- 2. ESG Management Systems
- 12. Decommissioning & Closure
- 13. Responsible Sourcing

ENVIRONMENT

- Climate Change and Greenhouse Gas Emissions
 - Noise, Emissions, Effluents and Waste
-



BLUESCOPE'S CLIMATE STRATEGY

Our climate strategy outlines our plans to address the climate challenge. Our decarbonisation pathway sets out BlueScope's approach to reducing GHG emissions across the business



Reduce our GHG emissions in response to evolving climate science, technology availability and key investment decisions



Use quality and cost-effective carbon offsets, only where direct abatement is not feasible



Create carbon-efficient and climate-resilient solutions for our customers



Making the case for local, sustainable steel in our communities



Increase our use of affordable and reliable renewable energy



Monitoring and appropriately managing climate risks and engaging with external stakeholders and partners.

BLUESCOPE CO₂ EMISSION REDUCTION AMBITION

Continuing our pursuit of emissions reduction projects in line with our 2050 Net Zero goal and 2030 steelmaking and non-steelmaking targets

SET A GOAL FOR:

**NET
ZERO**

Green House Gas (GHG) emissions across our operations by 2050¹

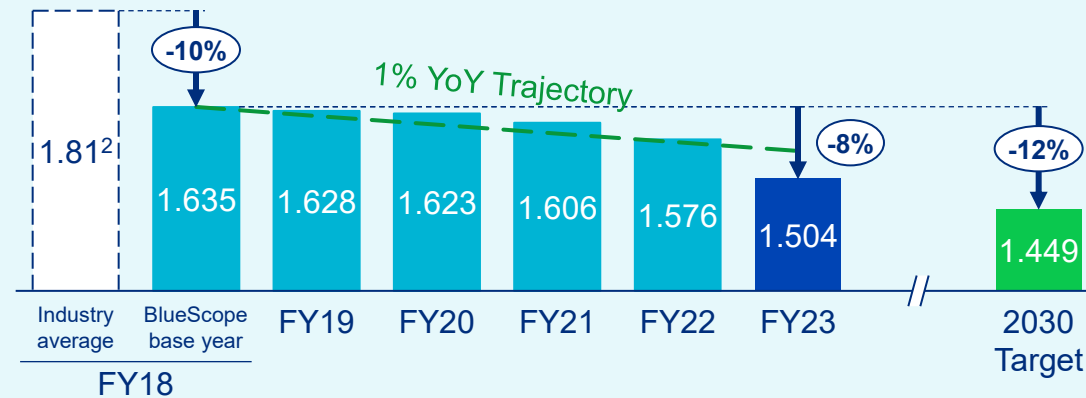
SET TARGETS FOR:

12% GHG emissions intensity reduction by 2030 for our steelmaking activities (based on 2018 levels)

30% GHG emission intensity reduction by 2030 for our non-steelmaking activities² (based on 2018 levels)

Steelmaking target¹: 92% of total emissions

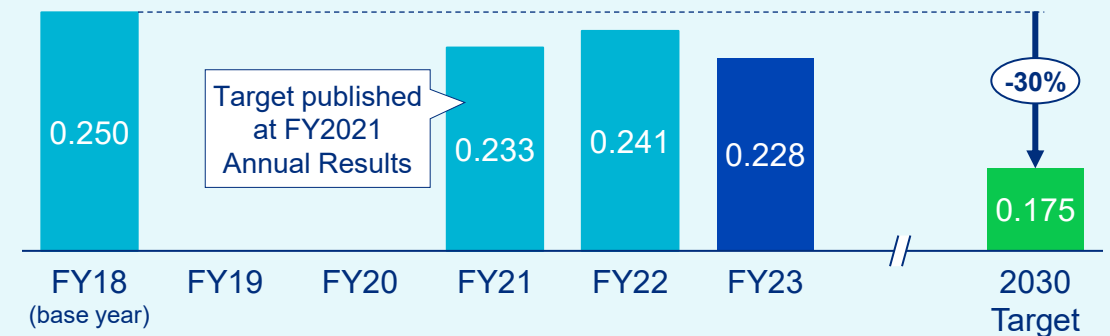
GHG emissions intensity (tCO₂-e per tonne raw steel)



Steelmaking target: **12% by 2030**

Non-steelmaking target³: 7% of total emissions

GHG emissions intensity (tCO₂-e per tonne despatched steel)



Non-steelmaking target: **30% by 2030**

BLUESCOPE CO₂ EMISSION REDUCTION - SCOPE 1 & 2

NS BlueScope Vietnam Climate Change Strategy

Phase 1 (All activities from FY13 until FY22)

- LED lighting installation
- Insulation incinerator
- Auto LEL control oven CPL
- Enhance operation process efficiency (Oven, Furnace, Incinerator)
- Reduce temperature set point incinerator MCL&CPL
- Zero N. Gas at MCL cleaning section
- Mixed purge oxygen with N. Gas MCL & CPL incinerator
- Furnace and Ovens Insulation improvement
- Enhance motor efficiency
- Inverter installation for hydraulic, cooling system
- Automation system
- New Air-Conditioner





Phase 2 (From FY23-FY26)

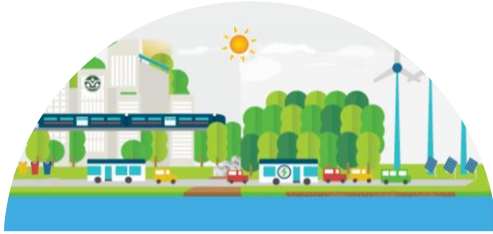
- Solar rooftop on Manufacturing building
- 2000-2500KWh

Phase 3 (From FY27-FY30)

- RTO CPL

  **Over 04 millions**

NS BlueScope Vietnam Climate Change Road Map



Total Scope 1&2 Reduction



FY18-FY22

FY23-26

FY27-FY30



Reduce Natural Gas

FY18 to FY22 Carbon intensity not change due to change technology from AZ to AM
FY18 =0.173 tCO₂e/t , FY22 =0.177

7% reduction from FY26

11% reduction from FY28

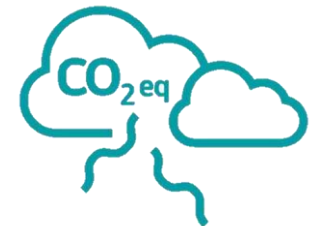


Renewable Energy

FY18 to FY22 Carbon intensity not change due to change technology from AZ to AM
FY18 =0.173 tCO₂e/t , FY22 =0.177

6% reduction from FY29

6% reduction from FY18-22



Total 30%

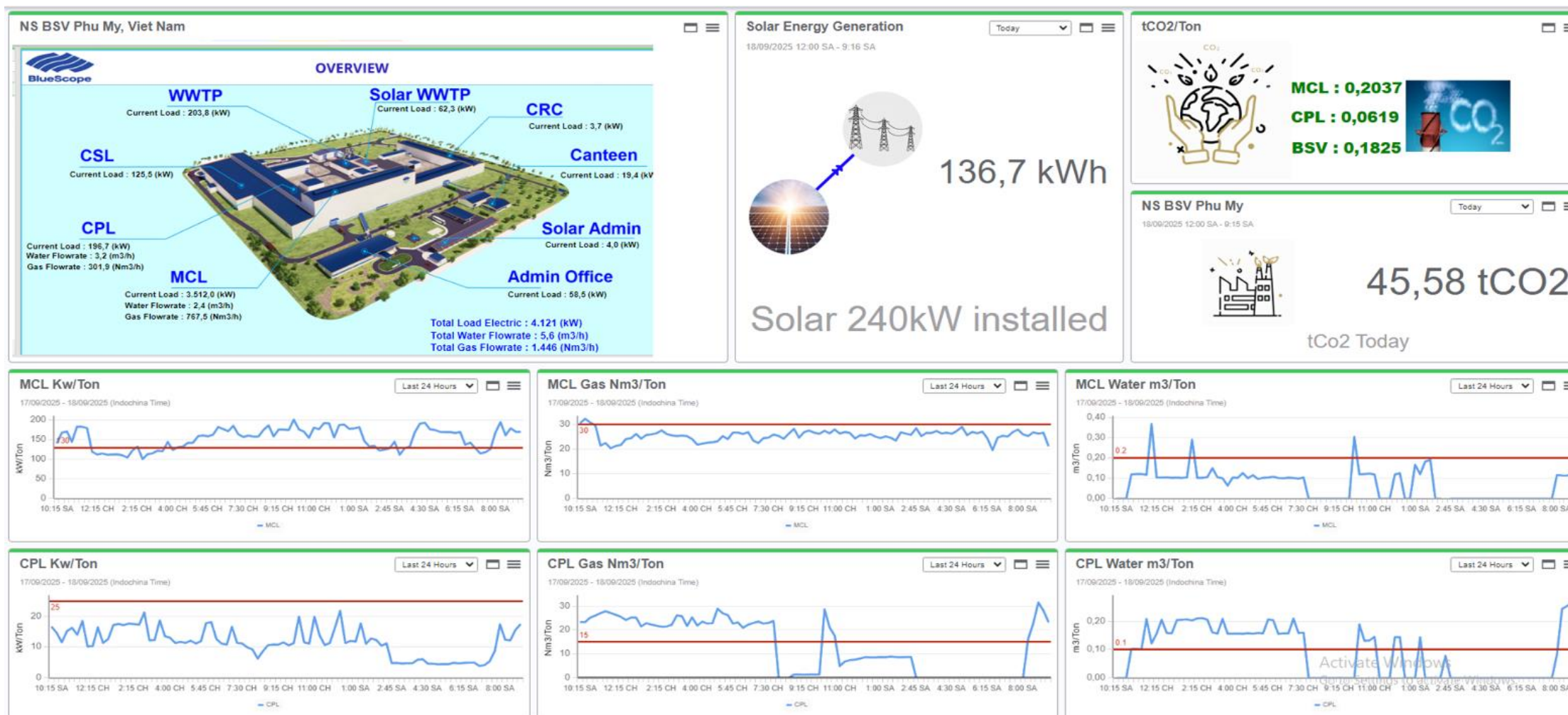
GHG emission reduction from 0.173 tCO₂e/t to 0.121 tCO₂e/t (30% target)

BLUESCOPE CO₂ EMISSION REDUCTION - SCOPE 1 & 2

Power management energy

The system installed 2023

From the system, we will know energy consumption per lines and CO2 generate real time



#1. HAZARDS WASTE TO NON-HAZARD WASTES

Yearly **38 tons** slugs need outsourcing. Improved by: Reduce 25% weight by drier process & Convert to non-hazard wastes



OLD PROCESS: Old technology, low capacity



NEW PROCESS: Investment slugs treatment machine



Next: Convert hazard waste to normal waste
Saving: ~65mil VND

#2. RECYCLE SOLVENT



33T waste solvent, Recycled **3.5T** (9%) for coater cleaning purpose.

Disposal solvent in cleaning



Outsource Qualified



Recycle solvent & ready to use



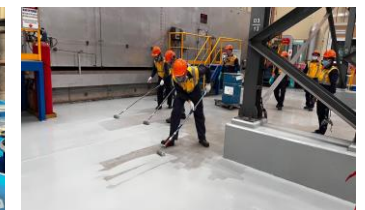
External distillation process



Saving: ~200mil VND ≈ 9.3 tons CO₂

#3. RE-USE PAINT

45.387 L paint aging in FY25, Re-used **2500L** ≈ 3.2T (5%) for internal floor/ equipment painting.



Saving: ~500mil VND ≈ 6.7 tons CO₂

WATER STEWARDSHIP

In FY25, NS BlueScope VN consumption is 53k m³ water \approx 0.41m³/ton product:

- ❖ Initiative: Install 3 tanks cap 1200m³ harvest raining water:



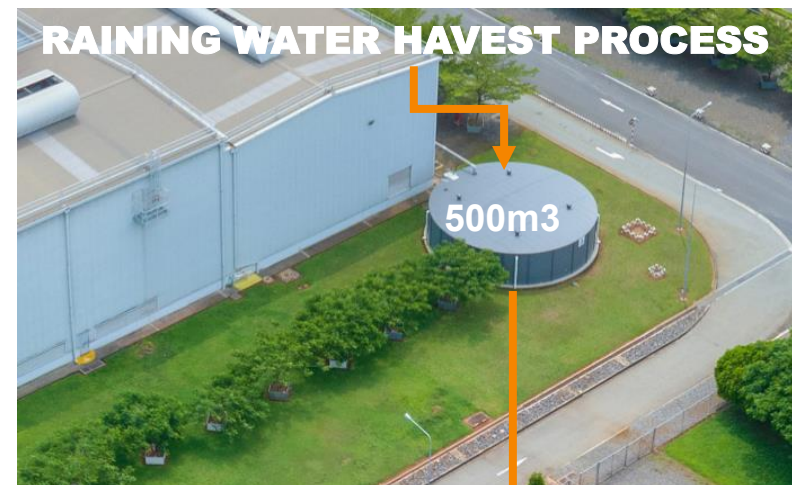
Saving: ~5,109 m³ \approx 64mil VND

- ❖ Compliance: The MSS process treats water to B level before sending to IZICO, where it is further treated to A level before discharge into the environment.
- ❖ Compliance: We are using 100% city water source.

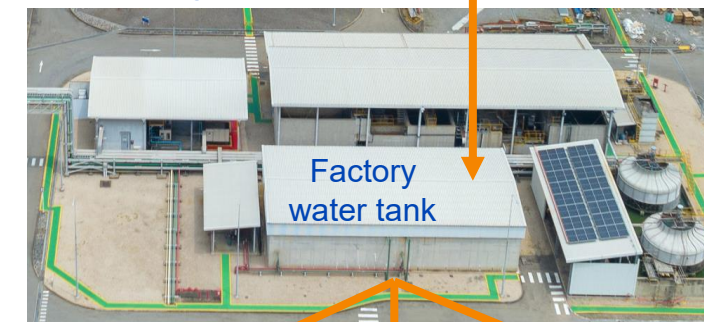
Water treatment plan



3 tanks for raining harvesting



Water treatment plant processing



Production lines



Tree watering

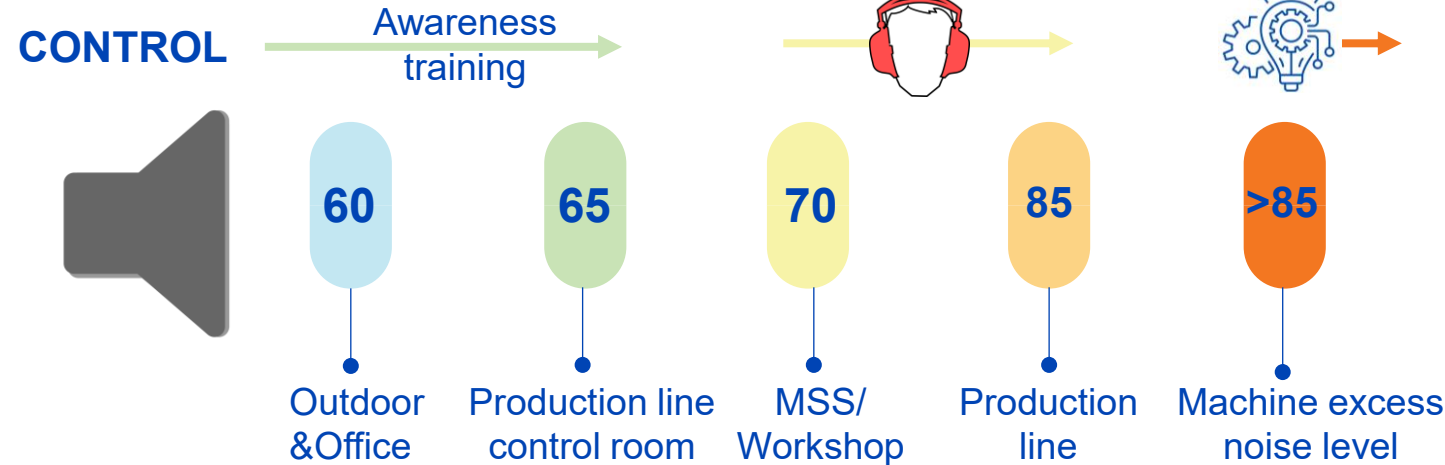


Utilities process

BLUESCOPE CO₂ EMISSION REDUCTION - SCOPE 3

NOISE REDUCTION

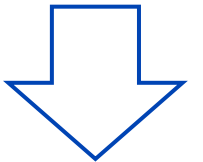
NSBV's coil coating plant is classified as the heavy industry with noise levels >85 dB. Annual 3rd party measurements & control plans ensure compliance with legal requirements & improve daily work.



WORKING STATION: NO ROOM



Installed room in production line, reduced 85db to 65db.

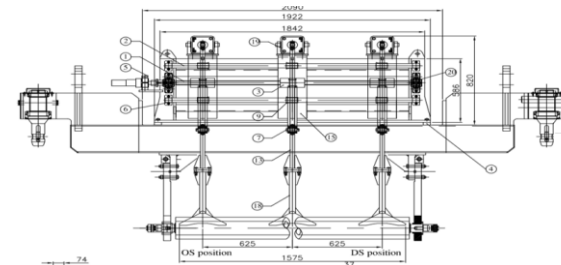
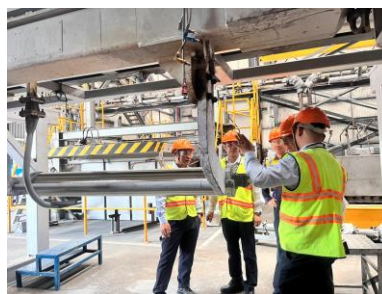


PPE COMPLIANCE & available tools: 100% ear protection at workplace.



MACHINE NOISE REDUCTION

Examples: Switch air motor to electric system to eliminate noise. Add noise level limit to seller's machine specification.



65



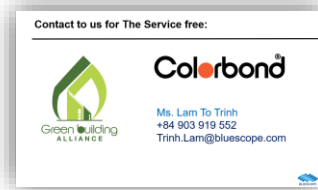
CASE STUDY

BLUESCOPE - THE LEADING GREEN BUILDING JOURNEY



1st coated steel material meet LEED standard

THERMATECH®



1st "Green Basic offer" promoted by BlueScope



1st coated steel material meet higher requirement from LEED Ver.4



2010
2011

1st LEED Green buildings in Vietnam using COLORBOND® steel



2012

1st "mini workshop series" promote Green buildings concept by BlueScope



2016



2017

1st "coated steel" office LEED O+M Ver.4 - GOLD certificate



2021



2024

1st "coated steel" office LEED BD+C Ver.4 - GOLD certificate





CASE STUDY

BLUESCOPE - THE LEADING GREEN BUILDING JOURNEY



1ST “STEEL” OFFICE WITH LEED O+M GOLD CERTIFICATE



LEED Scorecard

Gold 66/110

✓ INTEGRATIVE PROCESS CREDITS

0 / 2



✓ LOCATION & TRANSPORTATION

10 / 14



✓ SUSTAINABLE SITES

Building Envelop - SRI value



3 / 4



✓ WATER EFFICIENCY

9 / 15



✓ ENERGY & ATMOSPHERE

M&E system



24 / 35



✓ MATERIAL & RESOURCES

5 / 9



✓ INDOOR ENVIRONMENTAL QUALITY

15 / 22



✓ INNOVATION

0 / 1



5- year validity certificate



CASE STUDY

BLUESCOPE - THE LEADING GREEN BUILDING JOURNEY



1ST “COATED STEEL” OFFICE WITH LEED BD+C GOLD CERTIFICATE



LEED Scorecard

Gold 67/110

✓ INTEGRATIVE PROCESS CREDITS	2 / 2	
✓ LOCATION & TRANSPORTATION	17 / 20	
✓ WATER EFFICIENCY	10 / 12	
✓ ENERGY & ATMOSPHERE	19 / 38	
✓ MATERIAL & RESOURCES	4 / 13	
✓ INDOOR ENVIRONMENTAL QUALITY	Fresh air system ✓ 8 / 17	
✓ REGIONAL PRIORITY CREDITS	3 / 4	
✓ INNOVATION	4 / 6	

One-time certification – no renewal required

LEED BD+C VS LEED O+M ?



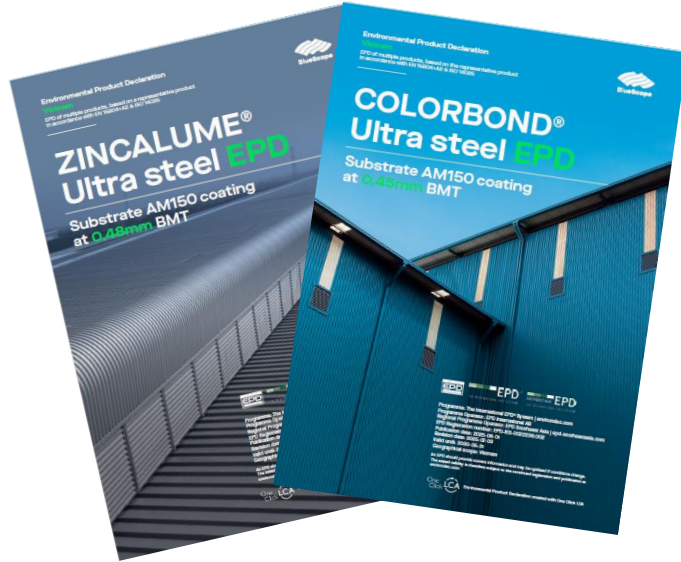
**Building Design
& Construction**



**Building Operation
& Maintenance**

EPD CERTIFICATE TO MEET GREEN BUILDING REQUIREMENT

GRANTED in July 2025



Environmental **P**roduct **D**eclaration (EPD) is an **independently verified and registered document** that communicates transparent & comparable information about **the life-cycle environmental impact of products** in a credible way.

Compliance with
ISO standard

Environmental
product certification

Verified by 3rd party

Published on
independent EPD
operation

Valid in 5 years

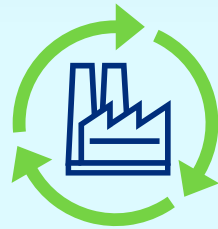


THE SMART CHOICE FOR YOUR FACTORY

LONG-TERM SERVICE LIFE FOR ROOF AND WALL SOLUTIONS



Meet
=



Lifecycle of
**Roof & Wall
Solution**

Lifecycle of **Building**
40 - 50 Years
or more



EFFECTIVE INVESTMENT



High Return on
Investment
(ROI)*

(*) Typical manufacturing investment period is 10 years.

1 AESTHETICS and DURABILITY



SUPERIOR DURABLE
PAINT SYSTEM



CLEAN
TECHNOLOGY

Activate™

2 RESPONSIBILITY



Thermatech®
TECHNOLOGY

3 PEACE OF MIND





THE SMART CHOICE FOR YOUR FACTORY



1

AESTHETICS
and **DURABILITY**



**SUPERIOR DURABLE
PAINT SYSTEM**



**CLEAN
TECHNOLOGY**

Activate™

2

RESPONSIBILITY



**Thermatech®
TECHNOLOGY**

3

PEACE OF MIND



SOCIAL

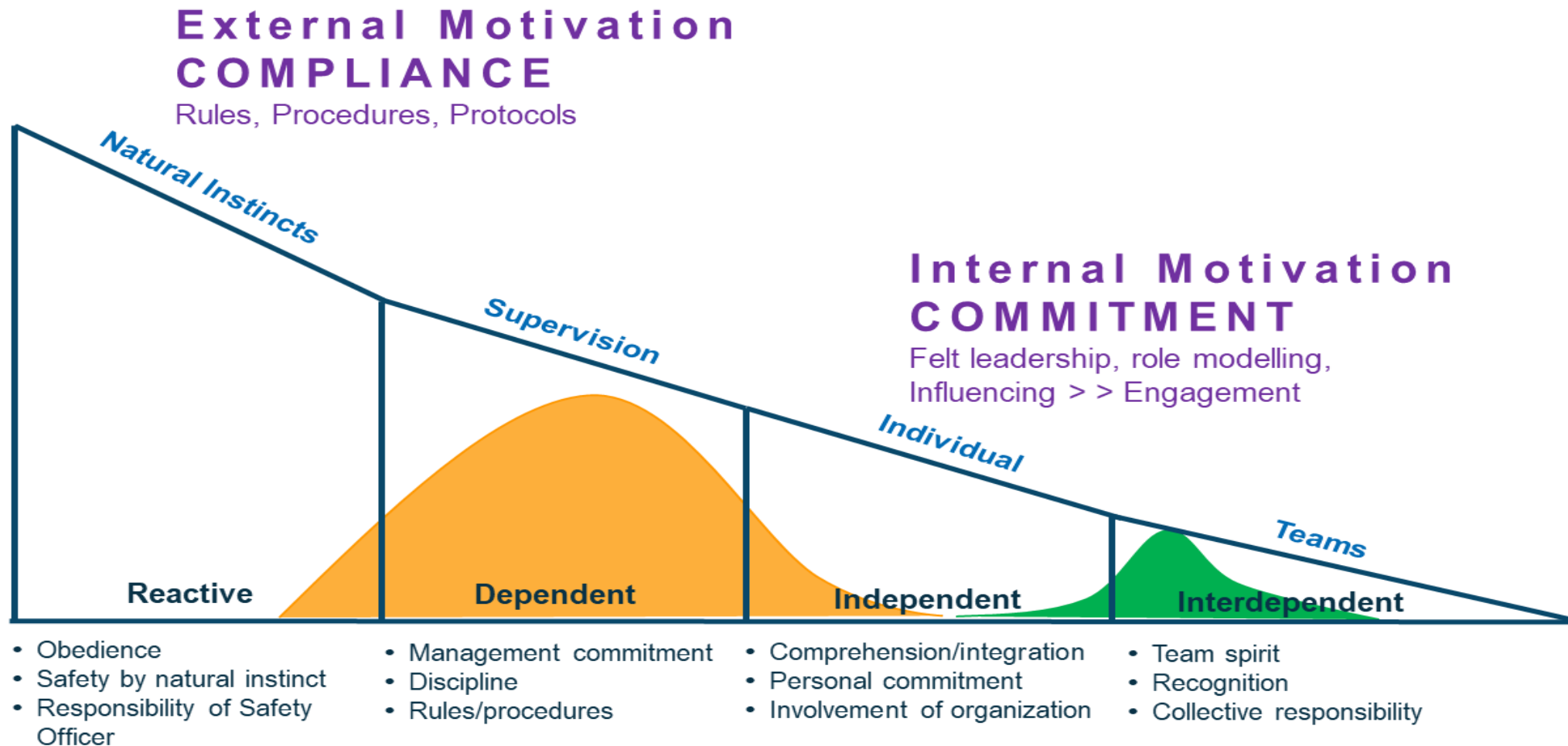
Occupational Health and Safety





CASE STUDY

SAFETY CULTURE – Endless Journey to Interdependent Stage



“I follow the rules because I have to”

“I follow the rules because I want to”



CASE STUDY

FALL PREVENTION – Safety is not defined by the absence of accidents, but by the presence of capacity





CASE STUDY

Health & Wellbeing – Our People are Our Strength!



GOVERNANCE

- Corporate Leadership
 - Responsible Sourcing
-

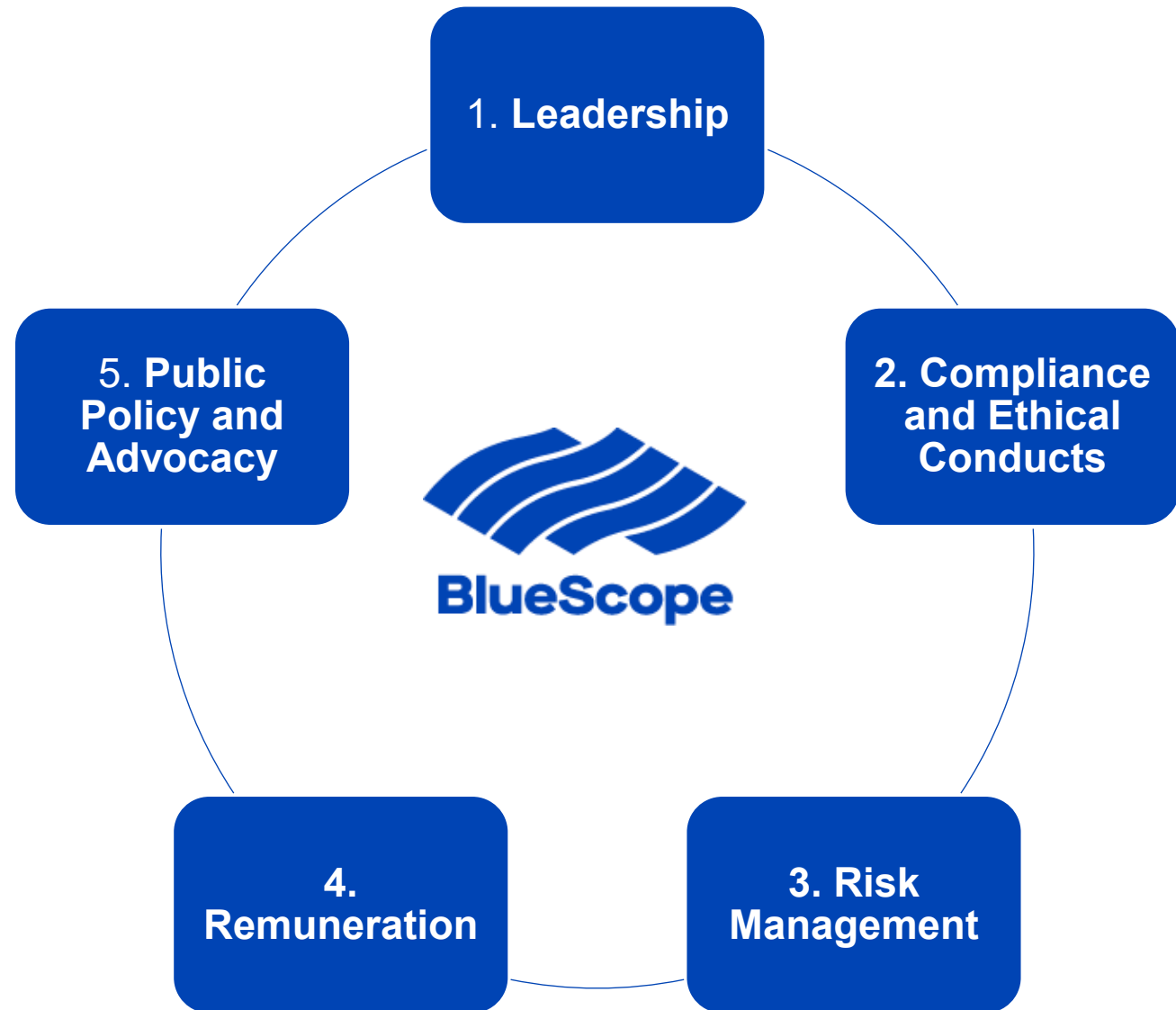


GOVERNANCE AT BLUESCOPE

The “Governance” in ESG (Environmental, Social, and Governance) refers to how an organization is led and managed.

It starts with the need of how to build trust with the stakeholders.

Here are some key aspects from BlueScope standpoint:





CASE STUDY

RESPONSIBLE SOURCING PROGRAM



OBJECTIVE

- ✓ Sustainability principles are embedded within our sourcing processes
- ✓ Create, protect and grow long-term.



BSV RESPONSIBLE SOURCING PROGRAM

- ✓ From 2019, we partner with BSV suppliers to **manage supply chain risk in terms of E,S, G** and follow the guiding pillars:

*BUSINESS ETHICS – LABOUR & HUMAN RIGHT –
HEALTH & SAFETY – ENVIRONMENT – COMMUNITY*



OUR PROCESS

PRIORITISE → ENGAGE → ASSESS → IMPROVE

Supply chain and industry risk factors.



Internal and external engagement



Structured assessment framework with independent assessments



Collaborate with and reassess suppliers to drive continuous improvement.



OUR RECORD

+70 finished assessment
SUPPLIERS

7 CO2 emission reduction commitment
SUPPLIERS

NS BLUESCOPE VIETNAM RESPONSIBLE SOURCING ROADMAP



2019

Sustainability Program Launch

Introduce and conduct Self Assessment Questionnaire (SAQ) with **6 key** suppliers focus on Priority 1 e.g. CRC, Paint, Ingot

Organized first ever in-house Supply Chain Sustainability Day on 6th December 2019

2020

Assessment and conduct corrective action plan

Complete assessment of **12 key** suppliers on Priority 1 & Priority 2 with High & Moderate risk

Working with suppliers on corrective action plan for improvement

2021

On-site audit & building awareness

On-site audit with 3 high-risk suppliers after assessment (ELEVATE)

Continued building awareness and communicate with both current and new suppliers

2022
2025

Responsible Sourcing Program

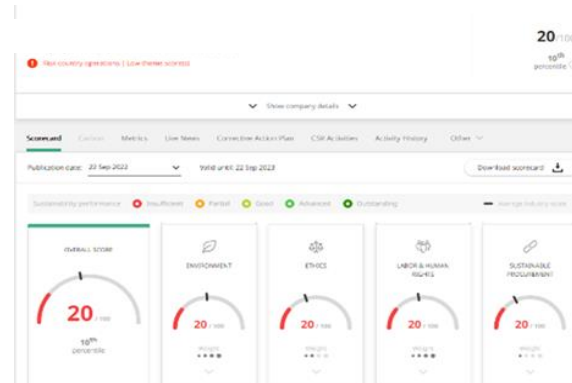
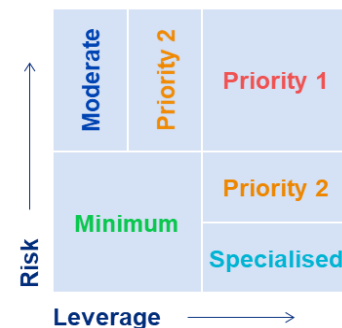
PHASE 1 (2022 – 2023)

- 22 Apr'22 Program launch with **35 key** suppliers
- Training Program
- Assessment for 12 suppliers through 3rd party Ecovadis

PHASE 2 (2024 – 2025)

- Engage supplier's self-assessment via EcoVadis IQ+/Vitals
- Improvement plans based on EcoVadis's assessment
- On-site Audit 3-5 suppliers
- Series of workshops for training / building awareness

Segmentation Model



The Ecovadis Assessment Process (12-16 weeks)



5-10 minutes!

REGISTER ONLINE

Create a company profile
A profile used to optimize survey to your industry, size, and location



QUESTIONNAIRE & DATA COLLECTION

Answer assessment survey and upload documentation
A secure, confidential & multilingual survey with a support team ready to help



EXPERT ANALYSIS

EcoVadis distills answers into an easy-to-read Scorecard
An independent document audit, evaluation & analysis from CSR experts



SHARE & IMPROVE

Online access to Scorecard results, Sharing & Corrective Action Plan
Share results, collaborate directly online with clients, and improve performance

BEST PRACTICE Refer to the Help Center <https://support.ecovadis.com>

Panel discussion





CASE STUDY

RESPONSIBLE SOURCING EMBEDDED IN SUPPLIER SELECTION



We allocate at least 15% weighting for Responsible Sourcing

B Supplier Evaluation & Tender Award (Decision Analysis)

#	Criteria	Transport & Onsite Contractor	Raw Material	Goods & Services offsite
I	Sustainability	25%	20%	15%
1	Safety, Health, Environment Impact	10%	5%	5%
2	Value chain's responsibility** (manufacturer, transport, sub-contractor)	5%	10%	5%
3	Human & Labour rights	10%	5%	5%
4	Supplier Diversity (local, minority, woman owner, etc)	Special criteria (to be decided case by case)		
II	Technical, Quality & Services Capability	75%	80%	85%
III	Commercial Tender (competitive price, payment, etc)			

** Impact assessment to LAWWNE resources (Land, Air, Water, Waste, Noise, Emission) in that supplier's entire value chain.

*** A supplier, with the highest score, however containing a zero scoring for any criteria, only can be awarded if that supplier commits to have an improvement plan in place for that missed item.

C Supplier Performance Re-assessment

#	Criteria	Transport & Onsite Contractor	Raw Material	Goods & Services offsite	Resources
I	Sustainability	60%	50%	40%	
1	Safety, Health, Environment Impact	20%	20%	10%	Lagging KPI
2	Business Ethics	10%	10%	10%	Lagging KPI
3	Social compliance in labour management (Modern Slavery)	20%	10%	10%	Onsite/ offsite audit
4	Good Practice implement in ESG	10%	10%	10%	
II	Quality & Services performance	40%	50%	60%	
III	Cost reduction initiatives				
Assessment Frequency		Half-yearly	Half-yearly	Half-yearly	
<50/100 scoring result		The supplier must have corrective actions plan to be implemented on an agreed timeframe with NSBSV.			
Termination		The supplier fails to commit or act based on the corrective actions on an agreed timeframe			



CASE STUDY



RESPONSIBLE LOGISTIC & TRANSPORTATION



CÔNG TY TNHH TM DV VẬN TẢI

HOA LÂM

E

S

G



BlueScope

THANK YOU!