 Tuesday, 14 May 2024

 Mövenpick BDMS Wellness Resort Bangkok

Special introduction to  
'ESG for Private Entities'

Moderator



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CMU STeP

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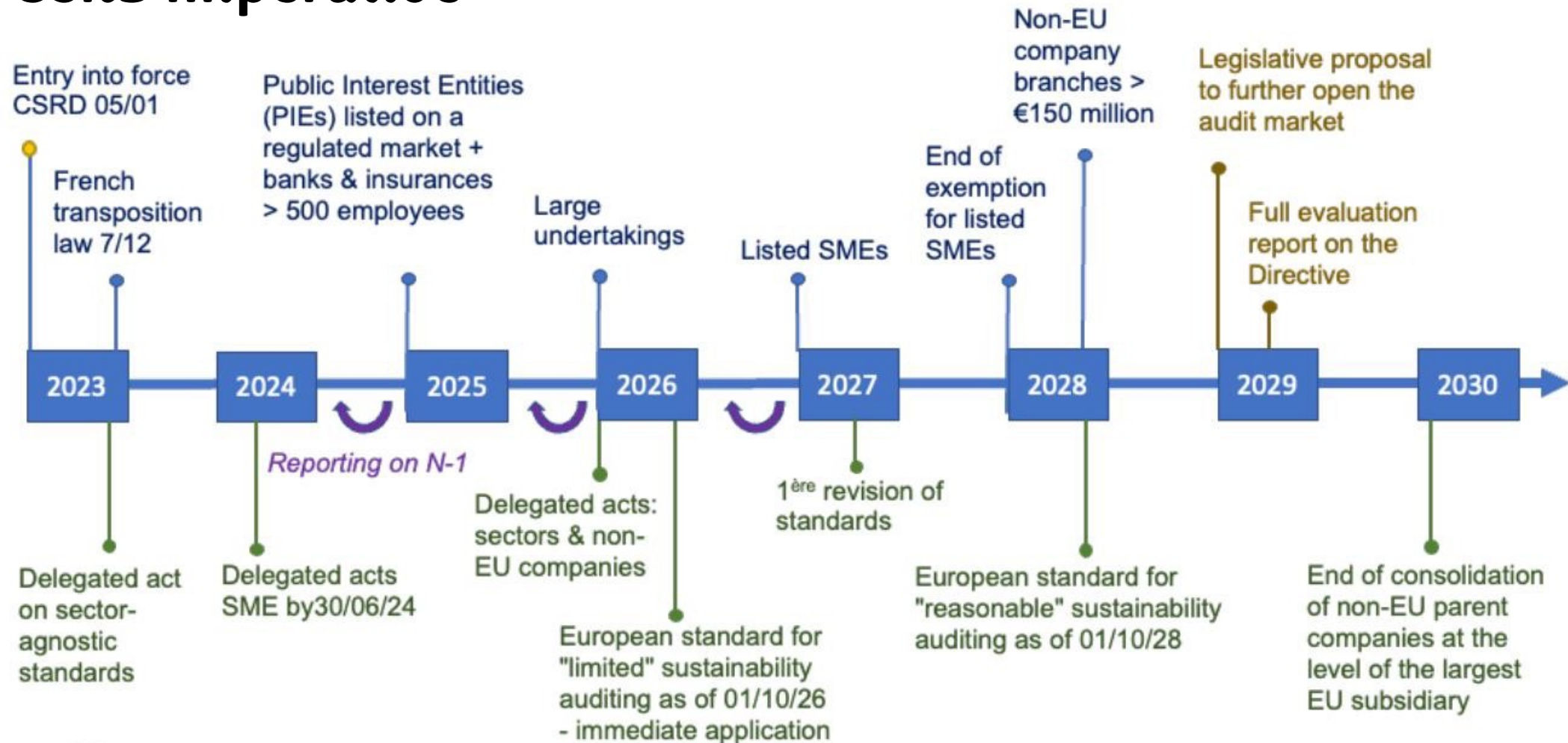
# ESG for Private Entities

Thaipat Institute



# Why NOW?

## CSRD Imperative



# Corporate Sustainability Reporting Directive (CSRD)

The rules will start applying between 2024 and 2028, as follows:

- ❑ from **1 January 2024** for large public-interest companies (with over 500 employees) already subject to the non-financial reporting directive, with reports due in 2025;
- ❑ from **1 January 2025** for large companies (with more than 250 employees and/or €40 million in turnover and/or €20 million in total assets) not presently subject to the non-financial reporting directive, with reports due in 2026;
- ❑ from **1 January 2026** for listed SMEs and other undertakings, with reports due in 2027. SMEs can opt-out until 2028.



# Additional reporting for a non-EU headquartered company

Even if the ultimate parent does not have debt or equity securities listed on an EU-regulated market, global consolidated reporting will be required beginning in fiscal year 2028 (reporting in 2029) if:

**At least one entity in the consolidated group is within the scope of the CSRD**

OR

**At least one EU branch generated net turnover (revenue) of more than €40 million in the preceding year**



**Consolidated net turnover (revenue) generated in the EU exceeds €150 million for each of the last two consecutive fiscal years**

# Voluntary European Sustainability Reporting Standard (ESRS) For Private Entities

The private entities fall outside the scope of the Corporate Social Reporting Directive (CSRD) are encouraged to use this Standard to prepare and share with whomever such sustainability information may concern.

## Basic Module

- B 1. Basis for preparation
- B 2. Practices for transitioning towards a more sustainable economy
- B 3. Energy and greenhouse gas emissions
- B 4. Pollution of air, water and soil
- B 5. Biodiversity
- B 6. Water
- B 7. Resource use, circular economy, and waste management
- B 8. Workforce – General characteristics
- B 9. Workforce – Health and safety
- B 10. Workforce – Remuneration, collective bargaining, and training
- B 11. Workers in the value chain, affected communities, consumers and end-users
- B 12. Convictions and fines for corruption and bribery

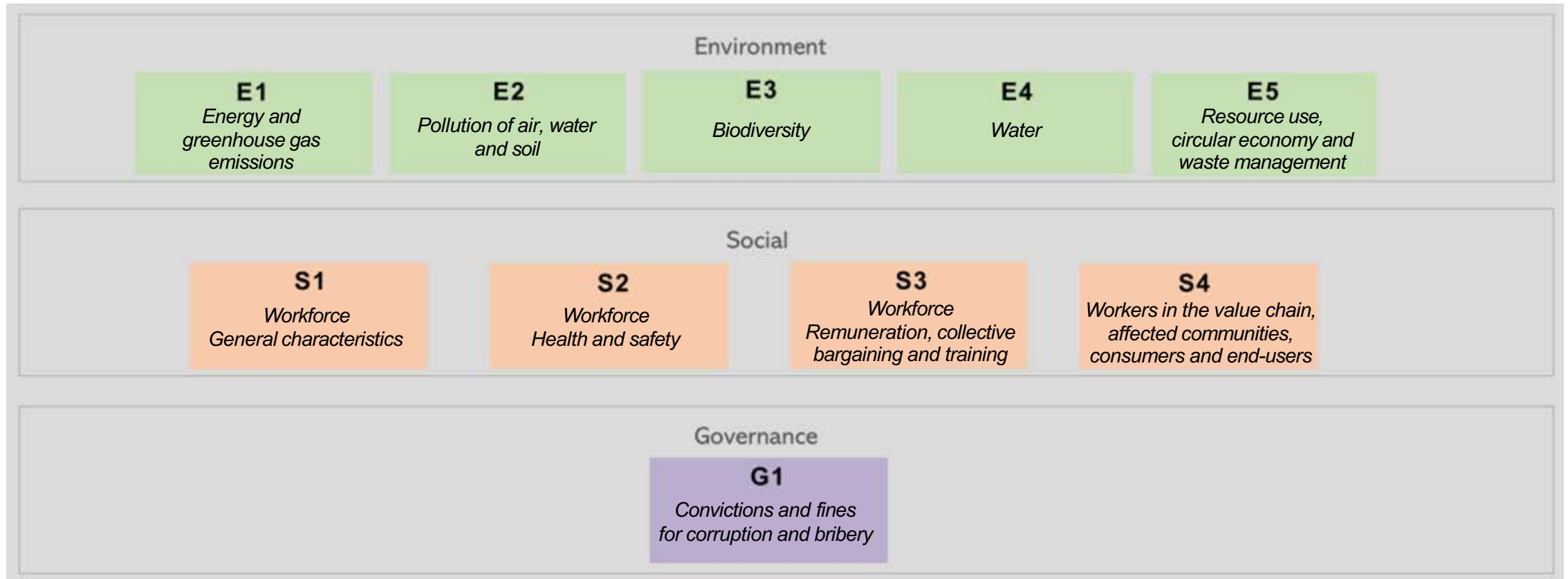
## Narrative-PAT Module

- N 1. Strategy: business model and sustainability related initiatives
- N 2. Material sustainability matters
- N 3. Management of material sustainability matters
- N 4. Key stakeholders
- N 5. Governance: responsibilities in relation to sustainability matters

## Business Partners Module

- BP 1. Revenues from certain sectors
- BP 2. Gender diversity ratio in governance body
- BP 3. GHG emissions reduction target
- BP 4. Transition plan for climate change mitigation
- BP 5. Physical Risks from climate change
- BP 6. Hazardous waste and radioactive waste ratio
- BP 7. Alignment with internationally recognized instruments
- BP 8. Processes to monitor compliance and mechanisms to address violations
- BP 9. Violations of OECD Guidelines for Multinational Enterprises or the UN Guiding Principles (including the principles and rights set out in the 8 fundamental conventions of the ILO Declaration and the International Bill of Human Rights)
- BP 10. Work-life balance
- BP 11. Number of apprentices

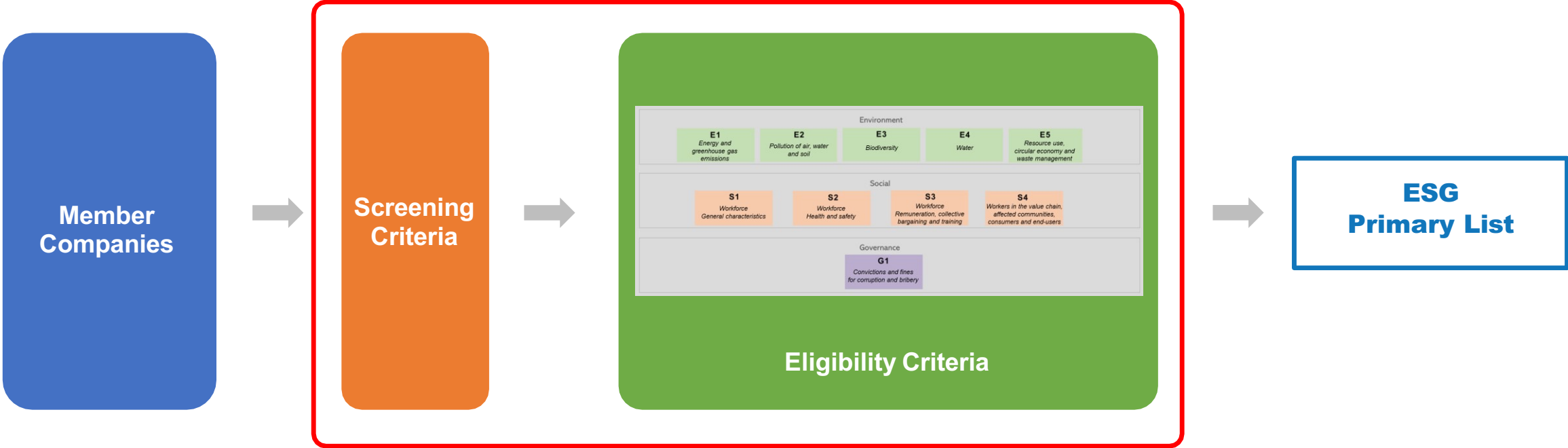
# Thaipat ESG Primary Factors for Private Entities



Source: Voluntary European Sustainability Reporting Standards (ESRS) for Non-listed SMEs, 2024.



# Establishing ESG Primary List



Thaipat ESG Primary Rating

# What companies will get



# Know Your ESG

Knowing your ESG score



Benchmarking your ESG score against the industry and overall

Ranking from all reporting entities in Thaipat Sustainability Disclosure Database

Ranking from industry-specific universe in Thaipat Sustainability Disclosure Database

Comparing your ESG score/Total ESG Score with previous periods  
**(Updated)**

The rating has been conducted by using ESG factors according to the WFE ESG Guidance and Metrics.

Note that the above rating score is unverified. The ratee may grant the verified status by using our ESG Verification Services.



Comparing your ESG score with other entities



# **Key Benefits of ESG for Private Entities**

- #1 Staying ahead of regulatory obligations**
- #2 Keeping up with industry trends**
- #3 Understanding today's risks & opportunities**
- #4 Creating sustainability to businesses**
- #5 Making real-world impacts**

# Thaipat ESG-related Activities



# About Thaipat

Thaipat is a public benefit organization in accordance with Section 34 of the Social Welfare Promotion Act, BE 2546 (2003) with its mission to work with organizations and companies – individually and collectively – to develop effective solutions and endure business growth with social progress by driving integration of environmental, social and governance (ESG) factors into core business practices. Since its inception in 1999, Thaipat has been recognized as a leading advocate in corporate responsibility and sustainability movement in Thailand.

In 2014, Thaipat launched ESG Rating Unit to provide corporate sustainability data research and analysis to encourage the ESG disclosure of Thai companies to the investment community, both locally and globally.

Prior to setting up the rating unit, Thaipat developed ratings criteria and provided CSR and Anti-corruption progress indicator sets to the Securities and Exchange Commission (SEC), Thailand. The initiatives encourage the uptake of ESG disclosure

that places performance in the broader context of sustainability challenges, risks and opportunities. To date, more than 800 listed securities in the Thai stock market (both SET and mai) had been assessed by using [Thaipat rating methodology](#).

Currently, Thaipat has several investment products: the [Thaipat ESG investment universe](#) consists of the ESG100 list (the 100 outstanding ESG performing listed securities in Thai stock market), the ESG Emerging List (the attractive listed securities with promising ESG progress), the ESG Turnaround List (the listed securities shown a turnaround signal and upside opportunity from market recovery backed by ESG factors), and the [Thaipat ESG Indices](#), which constructed from the Thaipat ESG investment universe, consist of Price Return, Total Return, and Net Total Return. The Indices are calculated by S&P Dow Jones and fed via Bloomberg and Reuters terminals to the investors worldwide.





# Navigating the Path to Sustainability

**Supply Chain Decarbonization:  
An essential step towards net-zero**



# About Schneider Electric Sustainability Business



Recognized **global leader** in energy and sustainability consulting and managed services.



More than **2,700** employees worldwide across over **100** countries.



**Develop** strategies for meeting energy management and sustainability objectives and help to **implement** those strategies.

## Solutions Portfolio

### Core services:

- Market and climate risk analysis
- Energy efficiency
- Energy management
- Sustainability consulting
- Renewable energy and carbon advisory

### Digital solutions:

- Resource Advisor
- Zeigo by Schneider Electric

## Vital Statistics

**2,700+**

Global clients

**3,000**

Resource data streams tracked in Resource Advisor

**125+**

Million tons CO<sub>2</sub> in Resource Advisor

**€40B+**

In resource spend managed globally

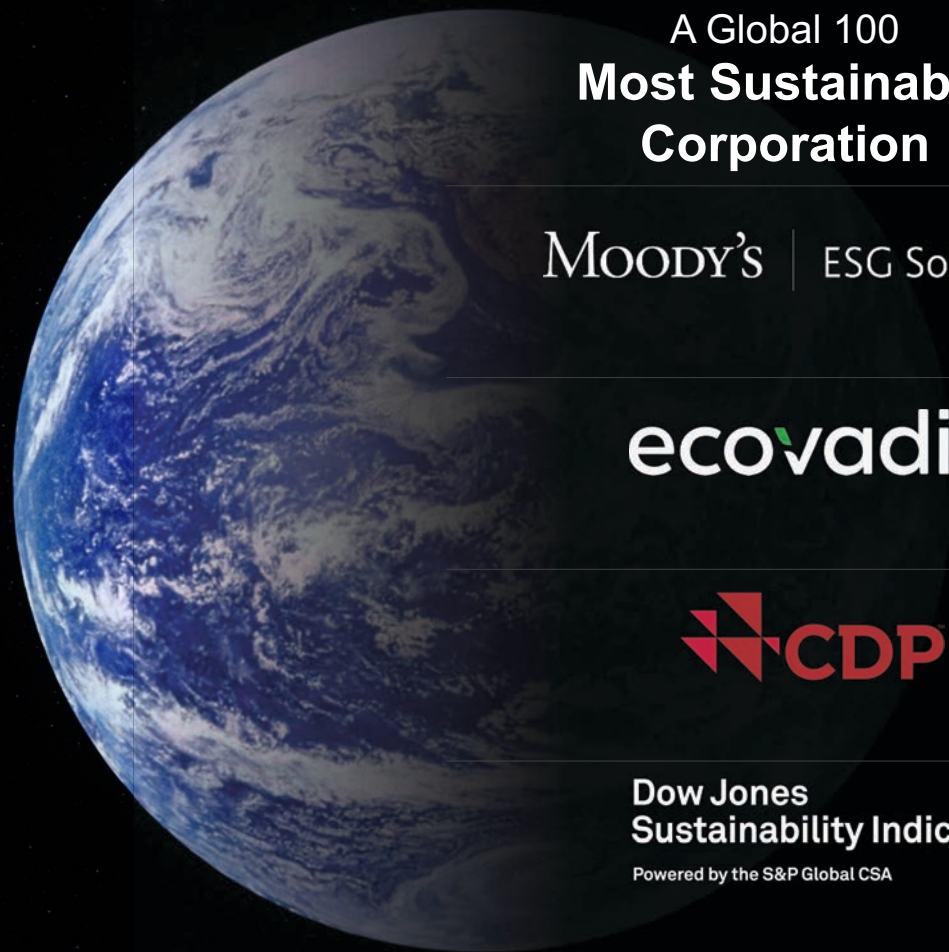
**2,700+**

Professionals with specific market expertise

**16+GW**

Advised corporate PPA's since 2014

**Leading ESG  
by example**  
in our ecosystem



A Global 100  
**Most Sustainable  
Corporation**

MOODY'S | ESG Solutions

**12th consecutive year  
in the list - 7th in 2023**

Included in **World** 120  
and **Europe** 120 indices

ecovadis

The **top 1%**  
(among 100,000 companies)  
**Platinum** medal



On the **Climate A-list** for  
12th year in a row

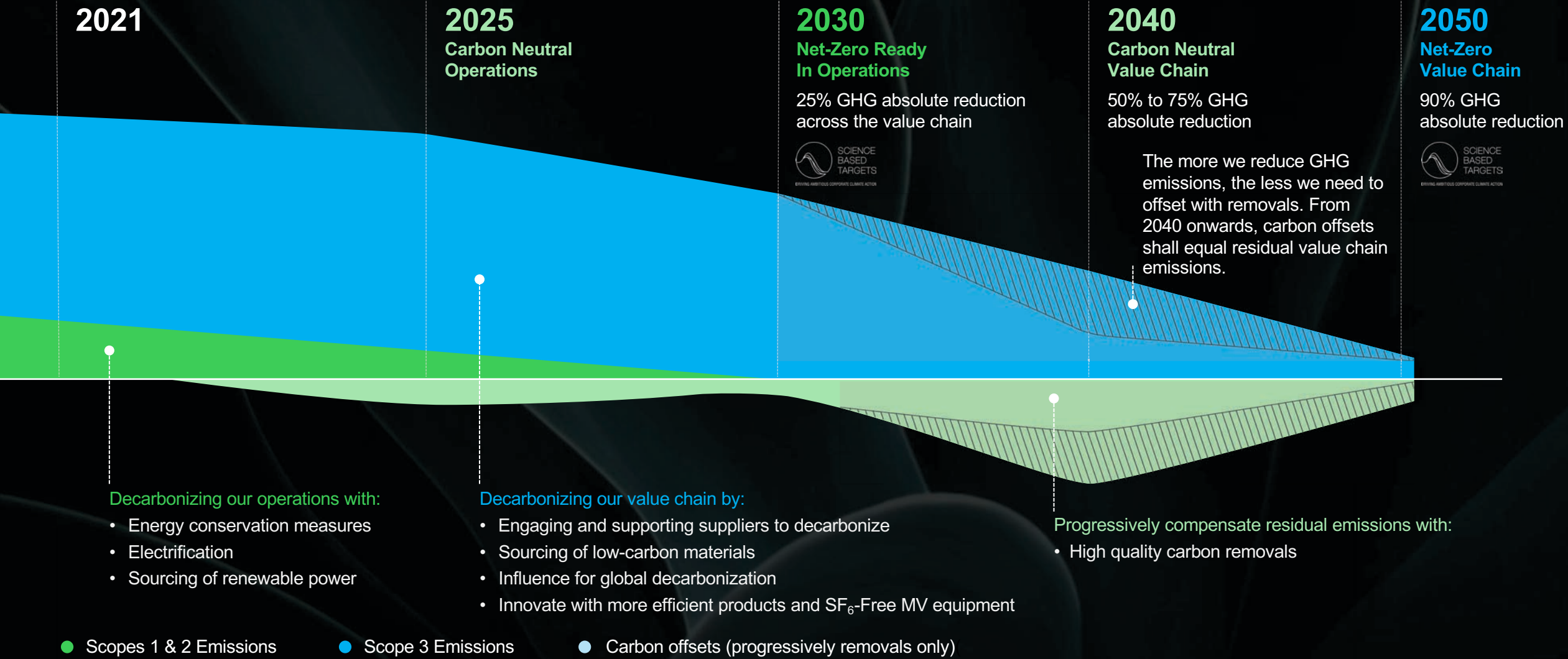
Dow Jones  
Sustainability Indices

Powered by the S&P Global CSA

**1st** in our industry  
Included in **World**  
and **Europe** indices



# Our Commitment: Net-Zero on entire value chain by 2050



2021

2025  
Carbon Neutral  
Operations

2030  
Net-Zero Ready  
In Operations

2040  
Carbon Neutral  
Value Chain

2050  
Net-Zero  
Value Chain

25% GHG absolute reduction  
across the value chain

50% to 75% GHG  
absolute reduction

90% GHG  
absolute reduction



The more we reduce GHG emissions, the less we need to offset with removals. From 2040 onwards, carbon offsets shall equal residual value chain emissions.

Decarbonizing our operations with:

- Energy conservation measures
- Electrification
- Sourcing of renewable power

Decarbonizing our value chain by:

- Engaging and supporting suppliers to decarbonize
- Sourcing of low-carbon materials
- Influence for global decarbonization
- Innovate with more efficient products and SF<sub>6</sub>-Free MV equipment

Progressively compensate residual emissions with:

- High quality carbon removals

- Scopes 1 & 2 Emissions
- Scope 3 Emissions
- Carbon offsets (progressively removals only)

Disclaimer: emission reduction curves are indicative and do not commit the group to annual reduction targets. Proportions between scope 1, 2 and 3 are not exact to facilitate the visualization of our emissions reduction's trajectories. All precise carbon footprint data are published in the Group's Universal Registration Documents, and CDP Climate Change responses and are externally assured by accredited third party verifiers

# Top 5 Takeaways Supply Chain Decarbonization: An Essential Step Towards Net-Zero Report

**1** **Alliances are key to achieving net zero**

Decarbonization planning with supply chain partners is progressing, but influence and leadership are required to speed up practices.

43% 57%

- Survey respondents who have not calculated their carbon footprint (of these respondents, 94% represent large companies)
- Respondents who said they disclose Scope 3 emissions (this cohort has more mature practices than the overall global average - according to CDP, only 41% of companies are reporting supply chain emissions)

**2** **SMEs continue to face unique Scope 3 challenges**

With small-to-mid-sized enterprises (SMEs) accounting for 90% of the world's firms (OECD), support provisions and engagement with these key spokes of the supply chain are essential.

25% 40%

- SME respondents who have not analyzed the carbon footprint of their supply chain
- SME respondents who require financing to help them decarbonize their supply chain

**3** **Regulatory compliance and stakeholder interest are driving adoption of practices**

Navigating the evolving regulatory landscape, while also implementing unified processes and practices across the supply chain, requires partnerships, resources and technology.

75% of survey respondents said regulatory pressures and stakeholder requirements are prompting their organization to initiate decarbonization planning with supply chain partners

**4** **Financial institutions are a catalyst for change**

The financial sector provides access to the necessary investments and resources needed to adopt sustainable practices in businesses.

90% of a financial institution's downstream emissions are attributed to clients' operations

**5** **Technology is pivotal to decarbonizing upstream and downstream emissions**

Digital solutions help establish intelligent energy systems to monitor and measure energy consumption and carbon reduction efforts within a business and across the partner ecosystem.

80% 33% 6%

- Survey respondents who said digitalization is a key enabler for supply chain decarbonization
- Respondents who have a system in place to measure their suppliers' carbon footprint
- Currently use digital tools to measure impact and progress

Research methodology

72%

5%

4%

13%

6%



# Best practices and Case studies



## Partnerships

### Public initiatives

- **Race to Zero:** United Nations-led initiative promoting a coalition of leading net zero emissions initiatives, representing thousands of government actors, companies, and financial institutions.
- **Blackcycle:** European project to design new tires from end-of-life tires.

### Private initiatives

- **Energize:** The world's leading pharmaceutical companies are helping hundreds of suppliers they collaborate with to gain access to renewable energy purchases.
- **The Climate pledge 1.5:** Co-founded by Global Optimism and Amazon, it is driven by 445 companies in 38 countries around the world to achieve net-zero carbon emissions by 2040. Among them are Iberdrola, Schneider Electric, Prologis, ARPA, P&G, Telefónica and Heineken.

# Best practices and Case studies



## Supplier engagement

### Access to renewables

- **L'Oréal**: Through its [Spread the Green Vibes](#) program helps suppliers around the world by training programs and providing access to renewable energy for their entire supply chain.
- **PepsiCo**: Launched its [pep+ REnew](#) program to help its suppliers access renewable energy procurement.
- **Microplásticos**: Gains access to renewable energy procurement through [Schneider Electric](#) commitment to its supply chain.

### Supplier training and capacity building

- **BASF & Grupo Antolin**: Together with other companies promote [the United Nations Global Compact's Sustainable Supplier Training Program](#) aimed at SMEs to help them in their sustainability training.
- **Beiersdorf**: Collaborate with local suppliers through [Women in Circularity](#) program by training local women entrepreneurs on circularity and establishing local plastic recycling infrastructure.
- **Almirall SA**: Through their [Supplier Engagement Program](#) monitor their suppliers to support them in their sustainability commitments.
- **Danone**: Promotes [sustainability in its livestock farms](#) through regenerative agriculture actions and proximity to food to reduce its farmers' emissions by 25%.

### Supplier incentives

- **CEPSA**: has a comprehensive supplier plan, including incentives such as [WePioneer](#) recognition program.
- **Ferrovial**: collaborates with its suppliers to contribute to [improving processes and adding value](#).

# Best practices and Case studies



## Digitalization

### Digital tools to help decarbonization

- [Supplier Cascade](#)
- [SME Climate Hub](#)
- [Zeigo](#)
- [Dcycle](#)
- **Bayer:** Creates the digital tool [ImpacTest](#) to help its suppliers to measure and monitor the footprint of their suppliers.
- **Enagas:** Relies on [digital technologies](#) to verify and track the sustainability compliance of its suppliers.
- [Resource Advisor](#)



# Best practices and Case studies



## Innovation & Technology

### Hydrogen

- **PepsiCo & Fertiberia:** Launched a pioneering program to reduce emissions in potato cultivation through the use of [Impact-Zero](#) fertilizers from green hydrogen and precision agriculture.
- **Arpa Equipos Móviles de Campaña:** Bets on [hydrogen](#) by establishing the first hydrogen plant for public use in Aragón.
- **Enagás:** Launches [Call For Interest](#) process for the first axes of the Spanish Hydrogen Backbone.

### Renewable raw materials

- **BASF:** Includes [renewable raw materials](#) through life cycle analysis in its production chain.
- **Michelin:** Introduces resin of circular origin in its production chain through [Resicare](#).

### Use of biofuels

- **Freixenet:** Collaborates in a [pilot test](#) with Repsol, Serveto, and Scania to contribute to the decarbonization of freight transport through the use of renewable biofuels.

### Circularity

- **ACCIONA and AENA:** Collaborate through the use of low-emission [circular steel](#) in the remodeling and expansion of the Son Sant Joan airport.
- **BRITA IBERIA:** Uses [bio-based plastic](#) that comes only from the residues of other processes.
- **Signus:** Uses [recycled materials](#) from end-of-life tires
- **Schneider Electric and Enagás:** [District Cooling Project](#), an innovative system that takes advantage of the residual cold produced in the regasification process of the Enagás plant in Barcelona for the air conditioning of facilities such as Mercabarna or the port of Barcelona.

### Innovation in materials and eco-design

- **Roca Group:** Collaborates with its suppliers in [materials innovation and eco-design](#).
- **Puig:** Includes eco-design and innovation throughout its value chain through the [SPICE](#) tool.

# Best practices and Case studies



## Financing

### Creation of sustainable investment products

- Banco Santander: Has created [Santander Green Investment](#), a new platform for acquiring and investing in renewable energy projects in Spain. It has also [aligned its portfolios](#) to achieve net-zero by 2050.
- BBVA: Promotes [sustainable investment](#) through different products for individuals and companies, as well as wholesale financing, being the first Spanish bank to issue green bonds.

### Supplier financing and education

- Cajamar: Collaborates with farmers through financing and education actions to promote sustainable and profitable agriculture [Agrosostenibilidad](#).

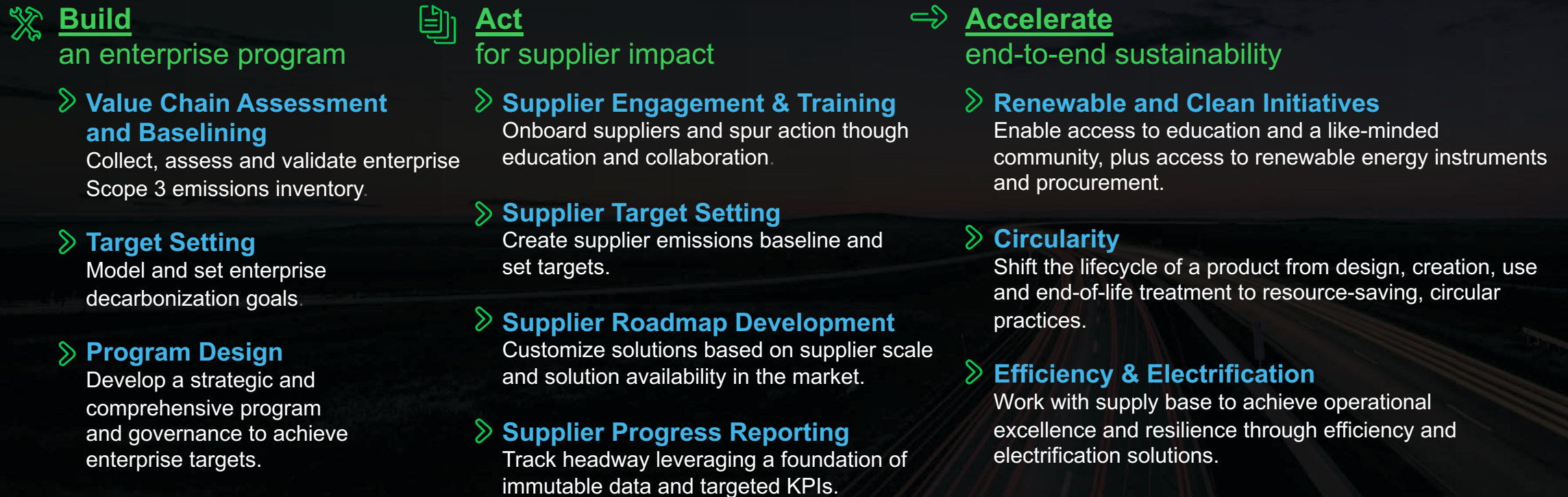


# Our Supply Chain Decarbonization Framework

## End-to-End approach

### Program Management

End-to-end deployment and tracking of supplier decarbonization initiatives



### Sustainability Communication Services

Monitor progress, demonstrate leadership, and influence through storytelling / communications throughout project lifecycle

# Our Supply Chain Decarbonization Programs

## A collective effort

Feb 2021



- Part of Schneider Electric's initiatives toward achieving net-zero by 2050
- Halve the operational emissions of Schneider Electric's top 1,000 suppliers, which account for 70% of all upstream emissions
- Support the implementation of all decarbonization levers
- As of July 2022, over 1,000 companies have joined and over 1,300 supplier participants joined technical trainings on decarbonization

Nov 2021



- Collaborative funding from 10 global pharmaceutical companies
- Designed to help suppliers take action on climate change through accelerated renewable energy adoption, starting with education and functional support

Mar 2022



- Part of Pepsico's initiatives to achieve net-zero emissions by 2040
- Aim of increasing value chain partner access to renewable energy, through education and aggregate PPAs and other renewable energy procurement options
- First of its kind in food and beverage industry

Jul 2023



- The Catalyze program enables the acceleration of renewable energy adoption in the semiconductor value chain through industry wide collaboration
- Catalyze is designed to address one of the most notoriously challenging aspects of decarbonization scope 3 upstream

Powered by:



EcoStruxure  
Resource Advisor

Life Is On





# Speakers' contact

Feel free to reach out to the speaker by email should you have any questions



## Anh-Hà de Foucauld

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Sustainability Business  
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## LinkedIn Profile



# Thank You!

Download the “Supply Chain  
Decarbonization: An Essential  
Step Towards Net-Zero” report



Access to Schneider Electric  
Supply Chain decarbonization  
Knowledge Hub





# GREEN SUPPLY-CHAIN – FOCUS AT THE FACILITY LEVEL

MAY 14<sup>TH</sup> 2024



# Consulting and engineering for sustainable buildings and industries



**European Actor - Pioneer since 1993**  
Leading specialist in building sustainability



**Experts of international standing**  
a multidisciplinary team of 90 people  
working on 5 continents



**Worldwide implantation and + 2 000 references**  
Offices in Thailand, China, Vietnam, Malaysia,  
Singapore, Europe, Africa and Americas  
Projects in +30 different countries!



**Whole life cycle of the building**  
with a strong involvement and a tailored  
approach throughout the projects




**3 key Business units:**

- Low-Carbon Building
- Energy Efficiency and Energy Management
- Certifications (green building, energy, carbon)



**+ 10M of sqm committed** across sectors:  
Industrial, Logistics, Hospitality, Commercial,  
Healthcare, Infrastructure



An aerial, high-angle view of a modern, sustainable campus. The buildings are multi-story with large windows and green roofs. There are wide, paved walkways, green spaces with trees, and people walking and cycling. The overall atmosphere is clean, modern, and eco-friendly. The image is overlaid with a semi-transparent teal circle on the left side.

# How to increase the sustainability of your facilities?

# ESG Criteria at the building level

## ESG CONSIDERATIONS IN INVESTMENT DECISIONS



### Environmental

- Renewable fuels
- Climate risk
- Greenhouse gas emissions
- Energy efficiency
- Water management
- Recycling processes
- Population growth
- Emergency preparedness



### Social

- Health & safety
- Human rights
- Working conditions
- Employee relations
- Inclusion & diversity
- Impact on local communities



### Governance

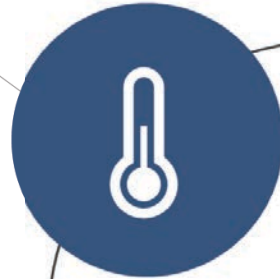
- Ethical standards & corporate behaviour
- Board diversity & structure
- Stakeholder engagement
- Executive compensation
- Shareholder rights

Source: World Economic Forum

# Facilities Sustainability Indicators

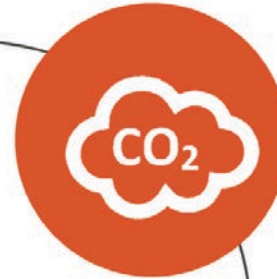
## Thermal comfort and well-being

Improve thermal comfort, natural daylighting, indoor air quality for the building users



## Carbon emissions

Calculate emissions, identify reduction strategies and set reduction roadmap,



## Energy and water efficiency

Improve energy and water efficiency



## Renewable energy

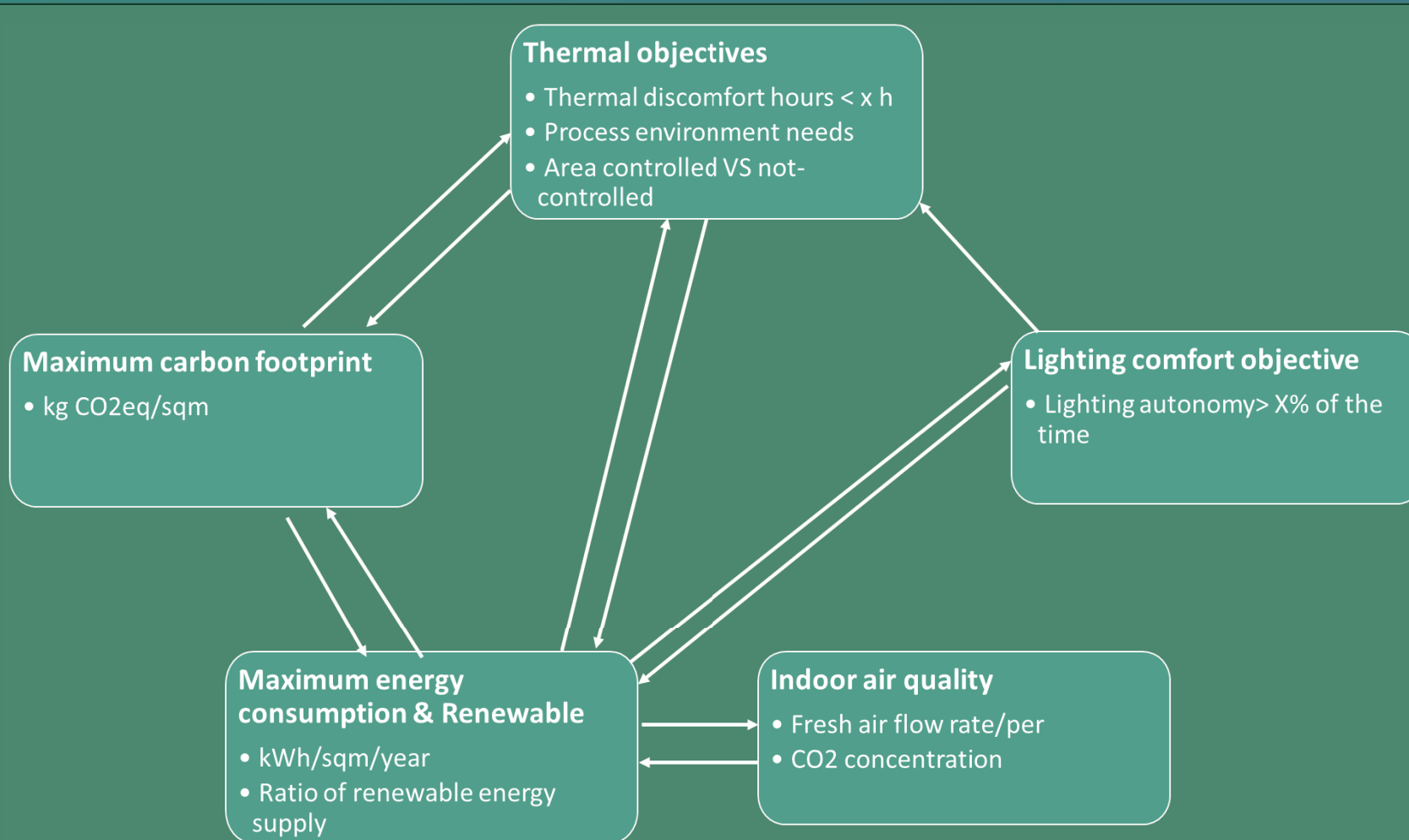
Solar PV (PPA and EPC), cogeneration, biomass



**TERAO focuses on analyzing from a technical and financial point of view**



# Indicators of Building ESG-Performance



The objectives are all linked and somehow act against each other

An architectural rendering of a modern industrial facility, featuring a large, multi-story building with a glass facade and a series of interconnected walkways and courtyards. The scene is set in a cityscape with other buildings in the background. A large green circle is overlaid on the left side of the image, partially obscuring the building. The text "Case Study of an existing Industrial Facility" is written in white, bold, sans-serif font across the center of the image.

# Case Study of an existing Industrial Facility



# Context of the Project





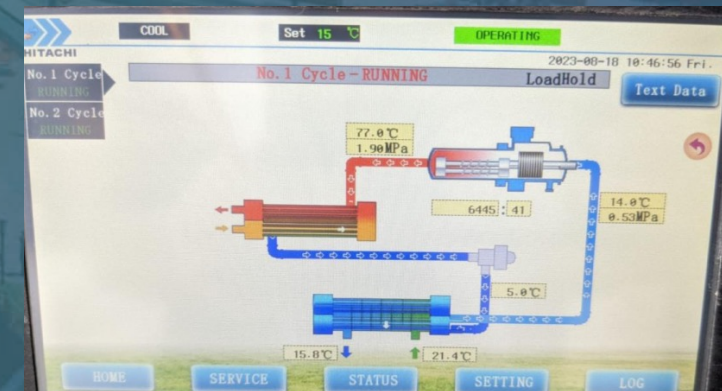
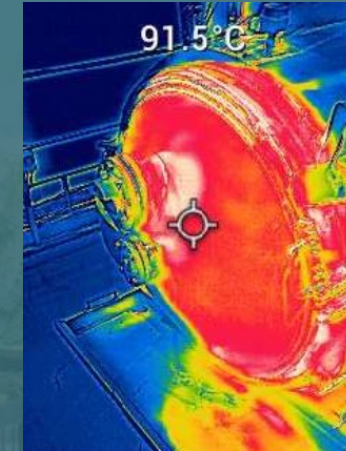
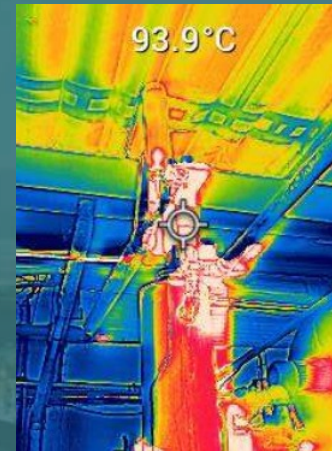
## Onsite visit

The purpose of the site visit is for Terao to **witness the operations**, to assess the facility and its equipment contributing to the different energy-use identified in the energy analysis.

After the site visit, the energy auditor can understand the operations of the energy-intensive equipment, their **technology, conditions, regulations, principles, and setpoints**. It implies a lot of **communication** with the engineering team on-site.

The energy auditor handles some **on-site measurements**:

- Thermal camera measurements,
- Air and surfaces temperature measurements,







# Energy Breakdown

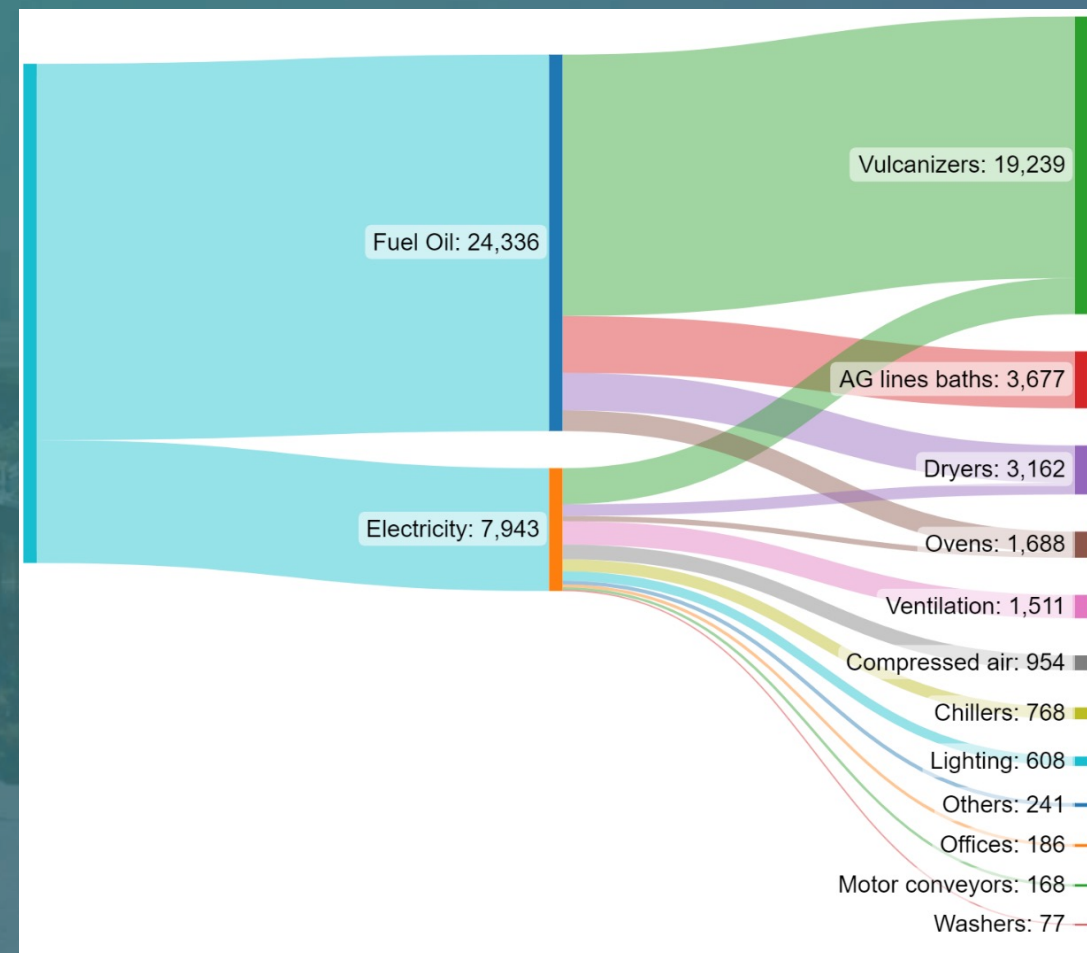
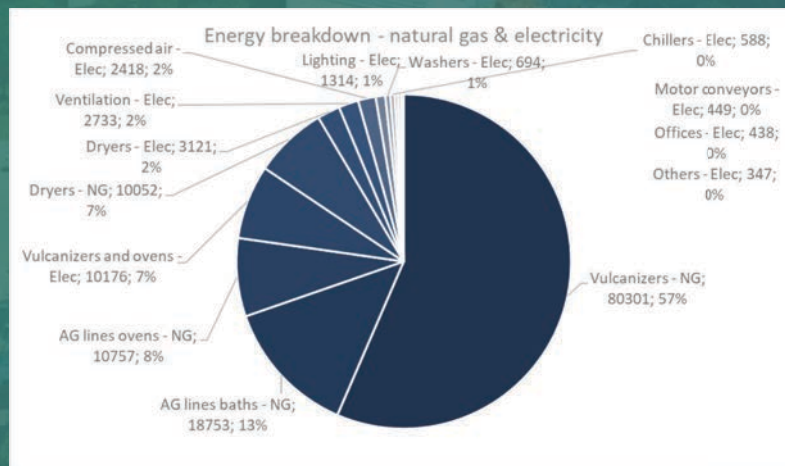
Energy Breakdown done through:

- Through data monitoring (BMS, EMS, energy meter readings, IoT, ...);
- Calculations using technical specifications and assumptions;

It is most of the time a mix of the 2 methodologies.

The Sankey diagram → overview of the main energy use

The rule is to focus on 80% of the energy use to lead to significant energy savings.





# Energy Efficiency Plan



1

**Quick-win actions**  
No investment, immediate ROI

2

**Low investment**  
ROI < 2 years

3

**CAPEX**  
ROI > 2 years

4

**Offset opportunities**  
Switch to less carbonate energy sources





## Energy Efficiency Strategies

1

### Quick-wins

- 6 Energy Conservation Measures
- Energy savings = 8,8%
- Financial savings = 40 kUS\$/year
- Cost = 2 kUS\$
- Payback = Immediate

2

### Quick wins + Equipment upgrade

- 12 ECMs
- Energy savings = 15,3%
- Financial savings = 70 kUS\$/year
- Cost = 37 kUS\$
- Payback = 0,5 year

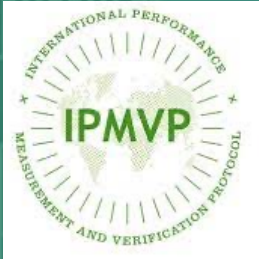
3

### Quick wins + Equipment upgrade + Ambitious improvement

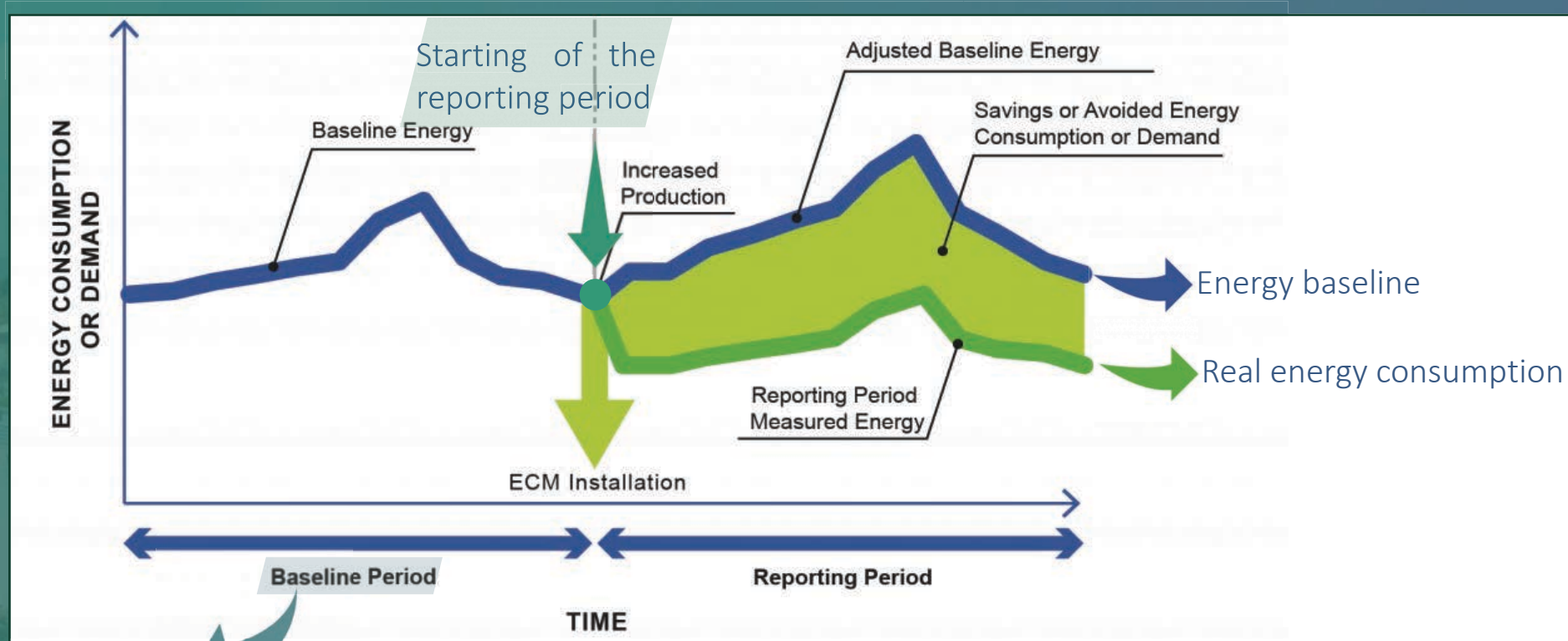
- 16 ECMs
- Energy savings = 17,3%
- Financial savings = 83 kUS\$/year
- Cost = 110 kUS\$
- Payback = 1,4 year



# Reporting: How to Measure and Verify



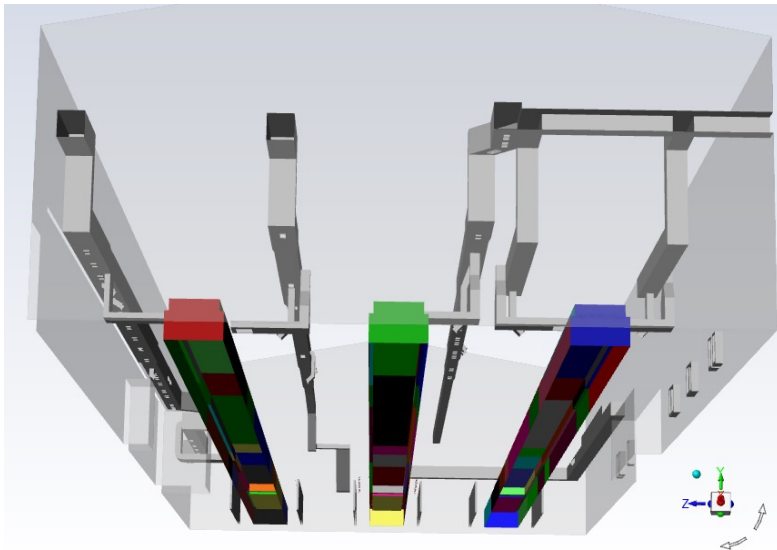
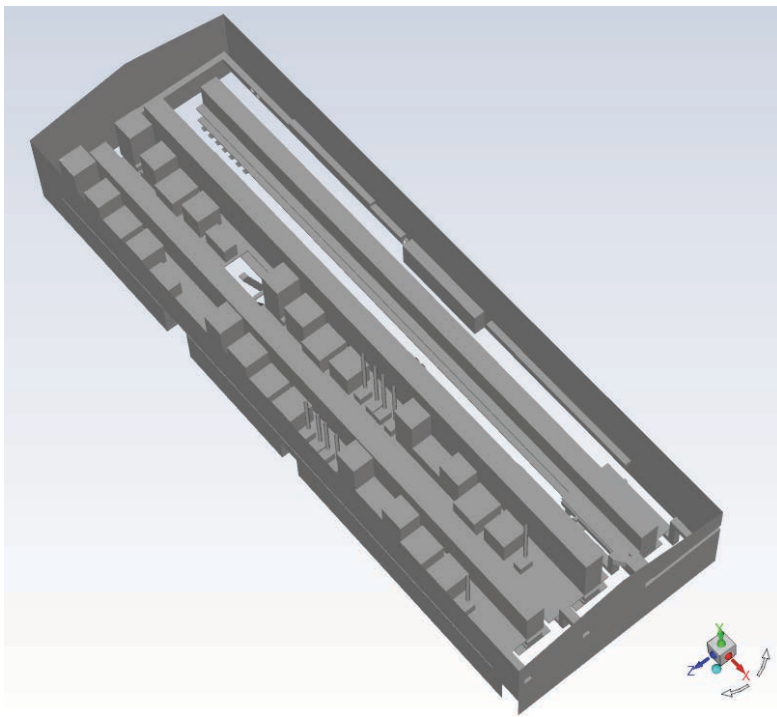
**I**nternational  
**P**erformance  
**M**easurement and  
**V**erification  
**P**rotocol



Period of time used to model statistically (linear to tri-linear regression) the energy consumption of the plant

$$\text{Energy savings} = \text{Energy baseline(prod data)} - \text{real energy consumption}$$

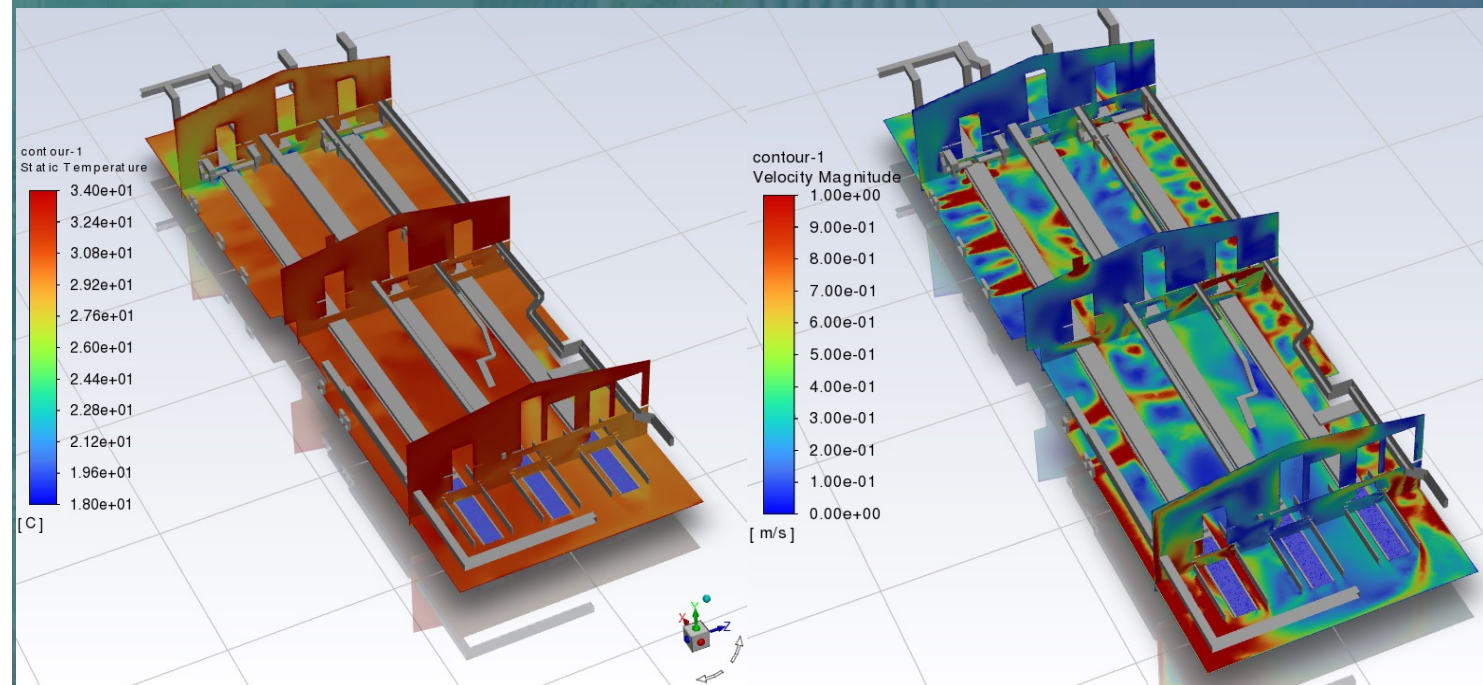




# Comfort improvement - CFD modeling

- Thermal comfort Analysis and Improvement → temperature distribution, air speed distribution in space
- Olfactive comfort Analysis and Improvement → distribution of NH<sub>3</sub> in the air was performed.

## Example of Thermal comfort





An aerial architectural rendering of a modern city, overlaid with a semi-transparent teal filter. The scene shows various buildings, including a prominent curved structure on the left, and a central plaza with people walking. The 'TERAO' logo is centered in white, featuring a stylized sun icon. The background includes a sky with birds and a cityscape in the distance.

TERAO

[www.teraoasia.com](http://www.teraoasia.com)



The image features a large, stylized logo for 'SCCGP' in the center. The letters 'S', 'C', and 'G' are dark blue, while the 'C' and 'P' are multi-colored with a gradient from blue to red to orange. The logo is set against a background of a sustainable city scene. Two large white circular frames are positioned behind the logo, each containing a different scene: the left one shows a person riding a bicycle, and the right one shows a family with a shopping cart. The overall scene is a bright, modern city with green spaces and people engaged in various activities, all under a clear blue sky.

# SCCGP

**Sustainable Solutions for a Brighter Planet**

# SCGP Business model

Continuing to grow the core, expand to adjacencies and break out to new business

## PURPOSE

To grow people and business for better planet

## VISION


A leading multinational consumer packaging solution provider through innovative and sustainable offering

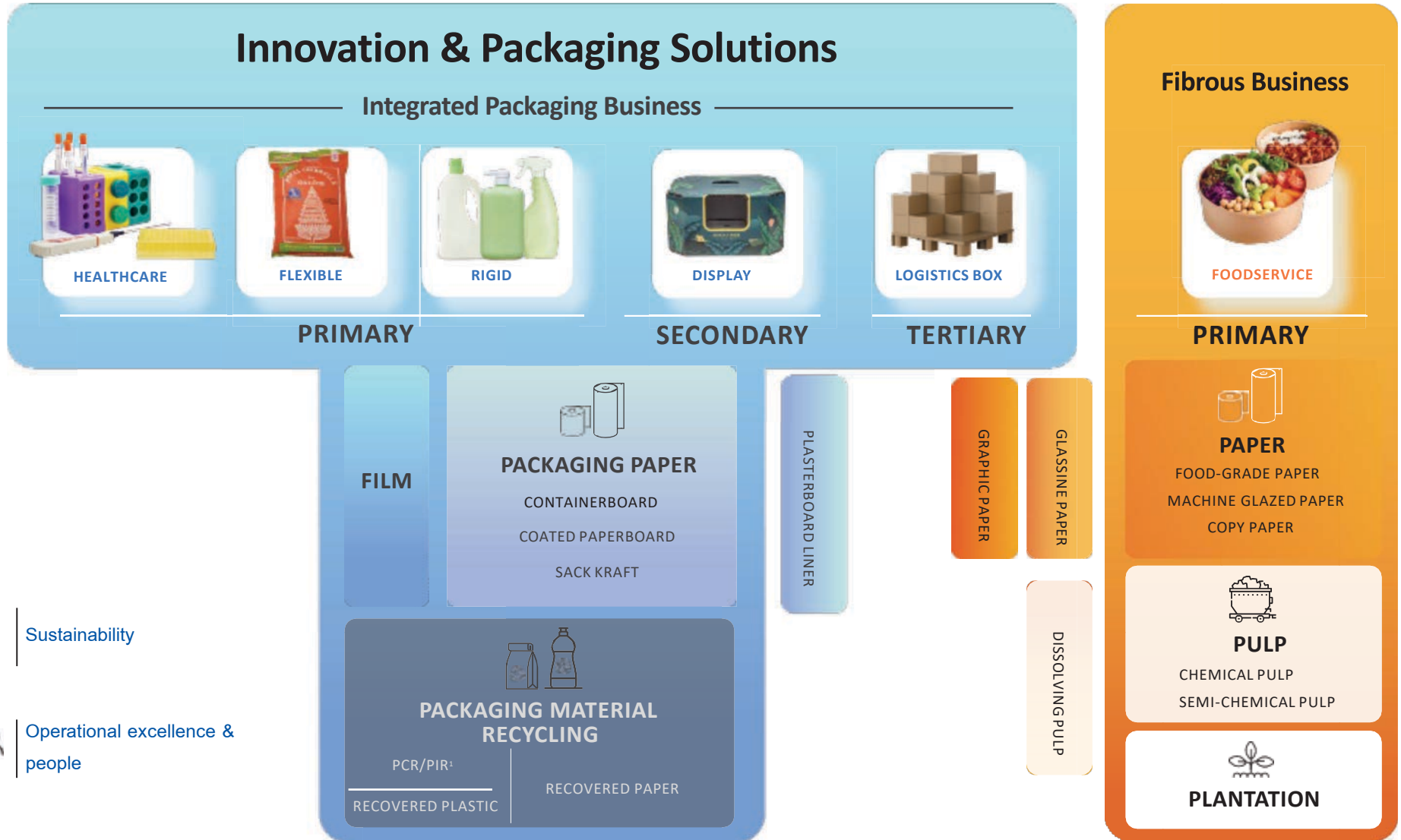
## STRATEGY

 M&P and organic expansion

 Sustainability

 Innovation & packaging solutions

 Operational excellence & people





# SCG ESG 4 Plus

## Net Zero by 2050



## Go Green

**Circular Economy Roadmap**

- 1. DESIGN FOR RECYCLABILITY
- 2. MECHANICAL RECYCLING
- 3. CHEMICAL RECYCLING
- 4. BIOPLASTICS

**SCG GREEN CHOICE**

## Reduce Inequality

ลดเหลื่อมล้ำ สร้างอาชีพ

**พลังชุมชน**  
WATER MANAGEMENT

พัฒนาทักษะช่าง

สร้างอาชีพ  
พัฒนาชนชั้นกรรมาชีพ

เพิ่มผลผลิตการเกษตร  
ด้วยเทคโนโลยี

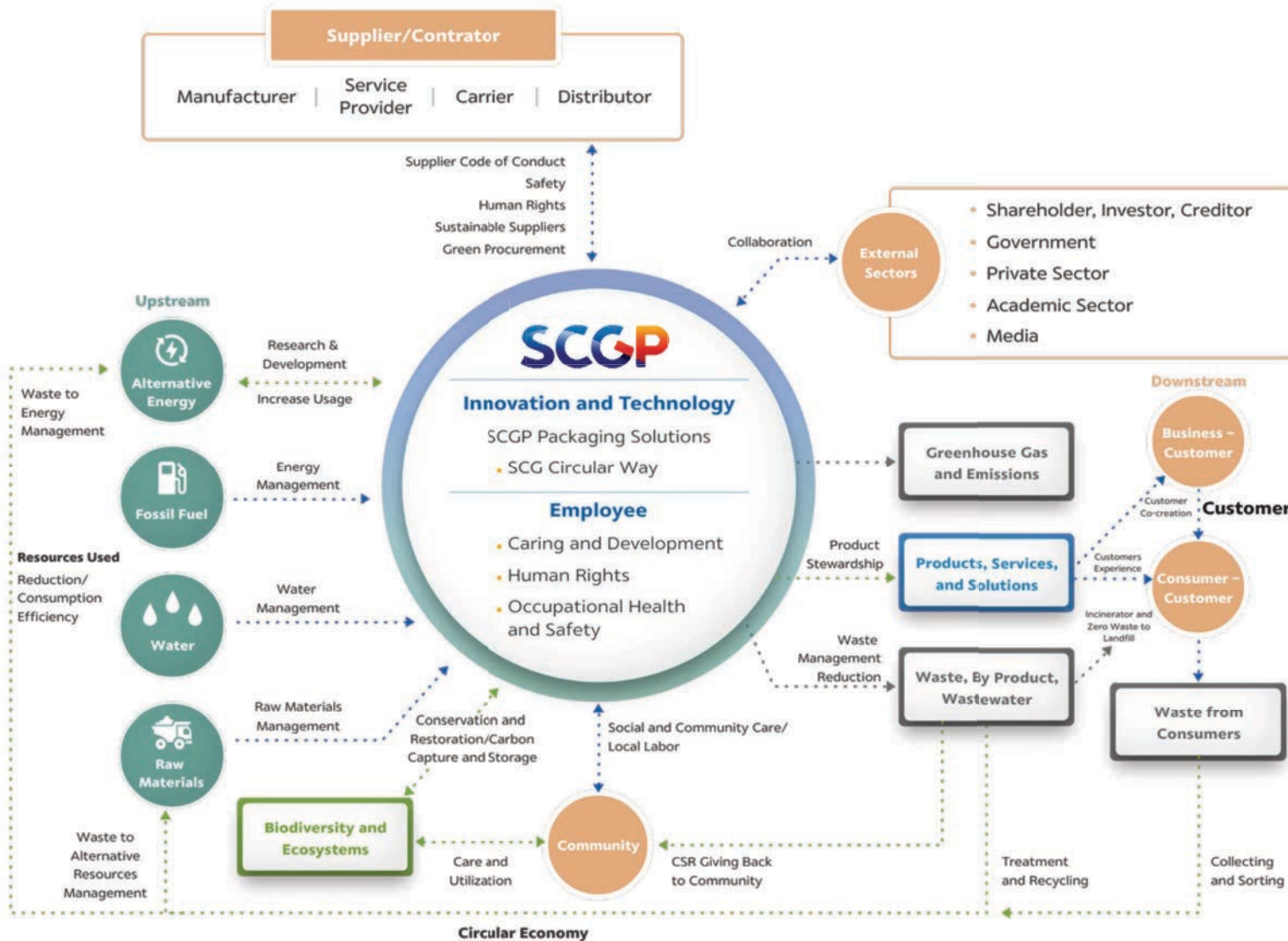
มอบทุนการศึกษาหลักสูตรระยะสั้น  
เชิงชุมชนและได้งานเร็ว เช่น  
ผู้ช่วยพยาบาล ผู้ช่วยทันตแพทย์

## Enhance Collaboration

**Plus Trust Through Transparency**  
In All Operations

# SCGP Sustainable Value Chain

Aligning with Net Zero target and Circular Economy Roadmap



## Key Strategies

Supply commitment of Code of Conduct

Mitigate ESG risk

- ESG Risk assessment including Anti-Corruption, Anti-trust
- Human Rights Due Diligence
- Supplier & Contractor compliance

Establish sustainable sourcing

- Personnel development on Procurement Framework
- Supplier Development

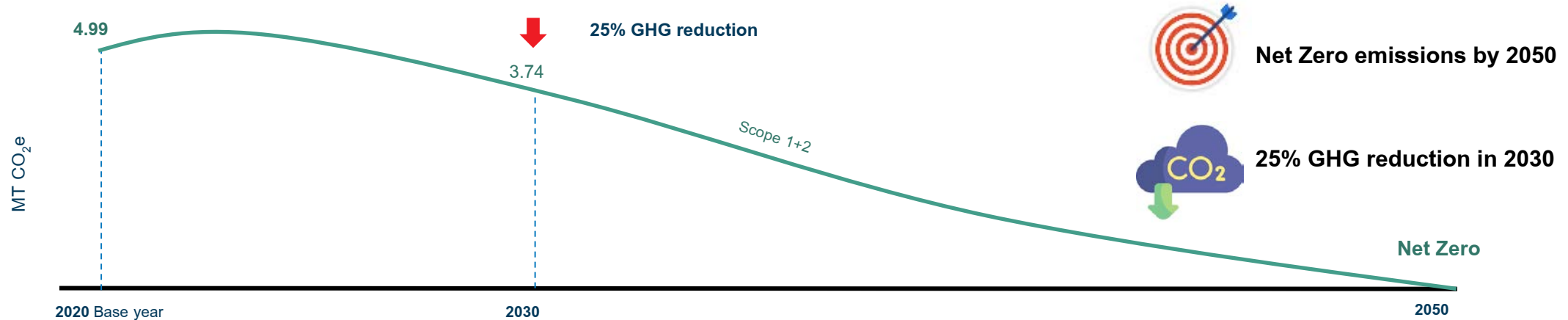
Target	2023 Performance
--------	------------------

• Suppliers complied with SCGP Code of Conduct	100%
• Supplier passed ESG risk assessment	100%
• Contractors received Safety Certification (SCS)	99%



# SCGP Decarbonization

## Aligning with Net Zero target and Circular Economy Roadmap



### Climate change Strategy

#### Energy Transition

#### Energy Efficiency

#### Corporate value chain (Scope 3)

#### Natural Climate Solution

**Biomass Utilization**

**Process optimization**

**Low carbon raw material**

**Forest Restoration**

**Economic tree plantation**

**Solar Power**

**Refurbishment GT**

**Green Transportation**

**Carbon Capture Utilization and Storage**

**Biogas**

**Best available technology**

**Innovative Sustainable Packaging Solution (CE principle)**

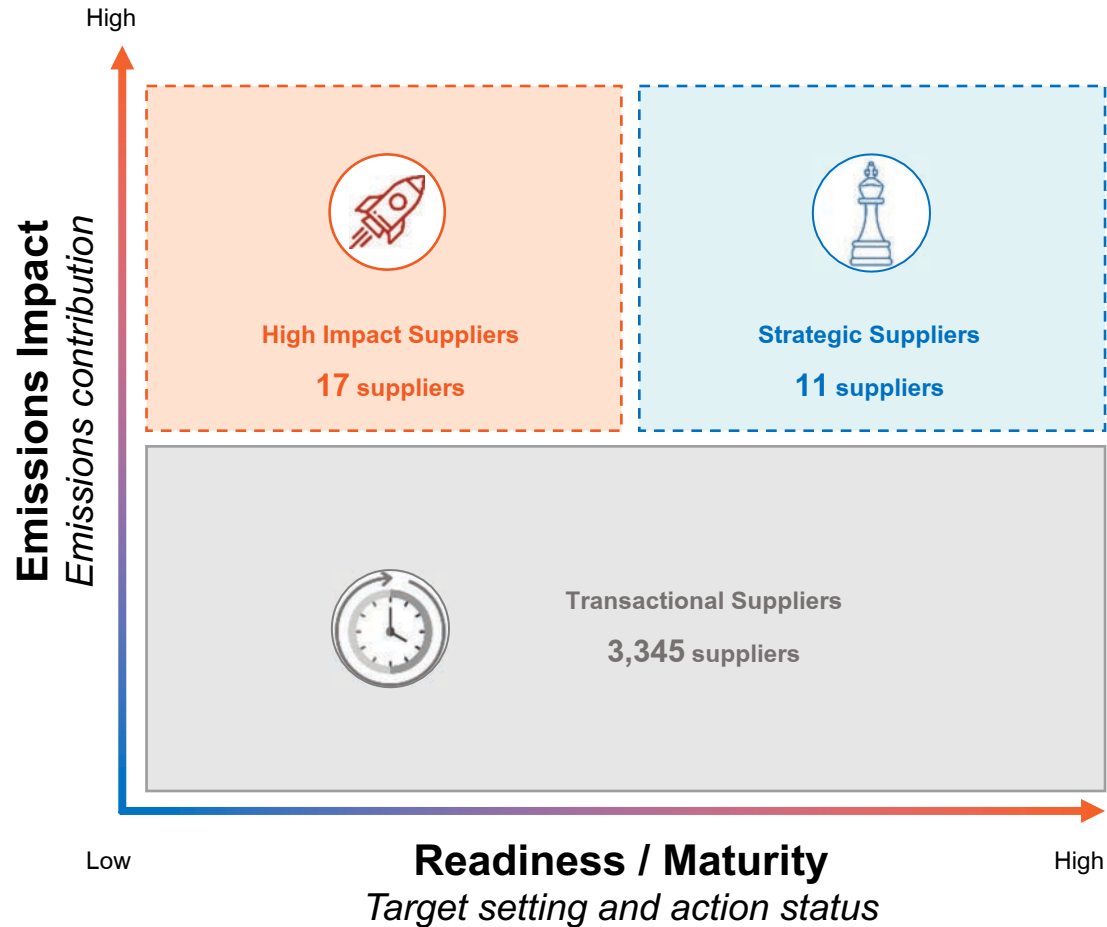
**Carbon capture technologies**



# SCGP Supply Chain Decarbonization (GHG Scope 3)

## Prioritizing Suppliers

- Selected suppliers are prioritized to help achieve GHG reduction of the whole supply chain

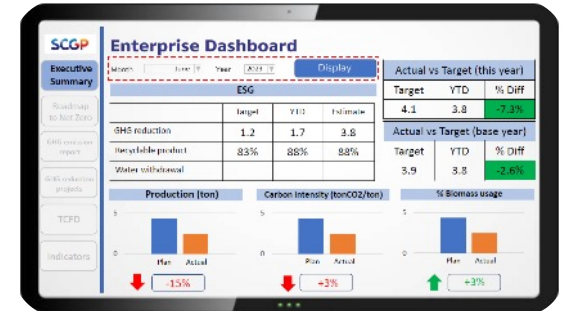


## Our actions towards decarbonization

- Support/Educate personnel and suppliers regarding to GHG reduction plan and activities



Training & workshop for GHG reduction development plan



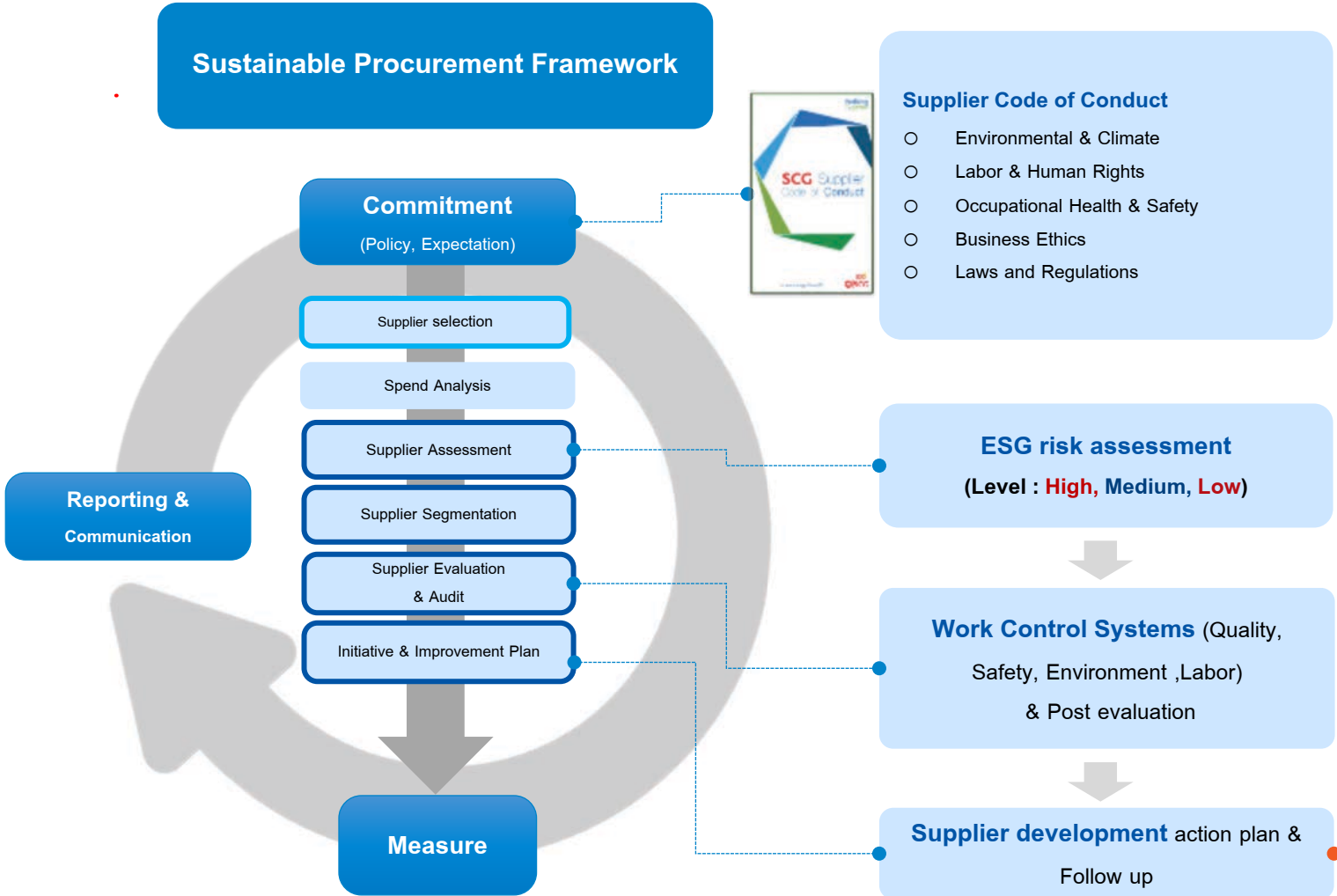
Collecting and Report



Implement of GHG reduction projects

# Establish sustainable sourcing

## 1 Personnel Development on Procurement Framework



## 2 Supplier Engagement



- **ESG Supplier development**
- **Empowering diversity**

“Small businesses owned by women, people with disabilities, veterans, minorities, and LGBTQ+”





SCGP  
Sustainability  
Report 2023



SCGP Supply  
Chain  
Stewardship




SCGP Circular  
Economy

THANK YOU





 Tuesday, 14 May 2024

 Mövenpick BDMS Wellness Resort Bangkok

Special introduction to  
'ESG for Private Entities'

Moderator



**Dr. Pipat Yodpruttikan**  
Thaipat Institute



**Anh-Hà de FOUCAULD**  
Schneider Electric  
Sustainability Business



**Gaspard Lemoine-Scelles**  
TERAO Asia



**Soonthorn Yongvibulsiri**  
SCG Packaging (SCGP)



**Martin Venzky-Stalling**  
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