



CPF's Sustainability Journey Passion towards Net-Zero

Charoen Pokphand Foods PLC (CPF)
August 2025



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Environment “Passion Towards 2030”

Transition towards Sustainable Business

Our vision is to achieve long-term business growth alongside sustainable and responsible management of natural resources and the environment. By utilizing world-class technology and digital system, we are able to reduce impacts on the society and the environment.



Environmental Sustainability

CPF are committed in conducting sustainable business; protecting the environment with the use of digital technologies, data management, and artificial intelligence to address environmental issues in three key areas:



GHG Emissions



Water



Waste

World-class technologies implemented by CPF

Digital Systems
and Artificial
Intelligence

Data Science

Innovation and
Technology

CPF is steadfast on **three industry-leading goals** built on our on-going journey to reduce the environmental impact:

Achieve Net-Zero Emissions

Near-term target for 2030

- Reduce GHG emissions from energy use by 42.0%
- Reduce GHG emissions from land use change and management by 30.3%

Long-term target for 2050

- Reduce GHG emissions from energy use by 90.0%
- Reduce GHG emissions from land use change and management by 72.0%

Plan for water risk

Develop a plan to manage the impacts of flooding, drought, and water scarcity in all high-risk areas, with a commitment to achieving zero liquid discharge at food processing plants. The pilot plant will be completed by 2025.

Move to zero waste to landfill

We embrace circular economy principles by maximizing the use of organic raw materials in production, transforming by-products into valuable resources, and eliminating single-use plastics across all CPF operations. Additionally, we are committed to achieving zero waste to landfill by 2030.

CPF is dedicated to achieve environmental sustainability across the value chain by 2050
with 5,000 million baht worth of investment.

SDG Goals Mapping



1 Raw Material

- Traceability System
- Zero Deforestation Sourcing

2 Feedmill

- Smart Feedmill
- Bunker Oil to Cleaner Fuel
- Zero Liquid Discharge
- Zero Waste to Landfill

3 Farm

- Environmentally Friendly Feed RE100
- Centralized Biomethane Hybrid Biogas
- No Land Use Change
- Zero Liquid Discharge
- Zero Waste to Landfill

4 Ready-to-eat Manufacturer

- Biomass Energy Green Building
- Solar Energy Smart Data
- EV Transportation
- Zero Liquid Discharge
- Zero Waste to Landfill

5 Clients and Consumers

- Sustainable Packaging
- Environmentally Friendly Feed
- Low-Carbon Products



Setting the Scene

CPF's Journey Towards Setting Net-Zero SBT Targets





BUSINESS AMBITION FOR 1.5°C  

A Message from Our CEO

Mr. Prasit Boondoungprasert

Chief Executive Officer
Charoen Pokphand Foods Public Company Limited

“

CPF commits to reach Net-Zero greenhouse gas emissions across the value chain by 2050.

”

GHG Reduction Target against Base Year 2020

Near-term Targets by 2030

42%	30.3%
from energy usage	from land use change and management

Long-term Targets By 2050

90%	72%
from energy usage	from land use change and management

Charoen Pokphand Foods
is the first food processing company
in the world

with near- and long-term FLAG SBT validated by
the SBTi in an attempt to limit global warming to
1.5 °C*

*above pre-industrial levels

Our Scope

Charoen Pokphand Foods Public Company (CPF) operates agricultural and food industry in

14 countries

America

USA



Europe

UK, Belgium, Türkiye, Russia



Asia

Thailand, China, Vietnam, India, Cambodia, Philippines, Malaysia, Laos, Sri Lanka



**Remark :* Since 2024, the subsidiary in Poland has been restructured as a joint venture, therefore adjusting the scope and recalculating the base year.

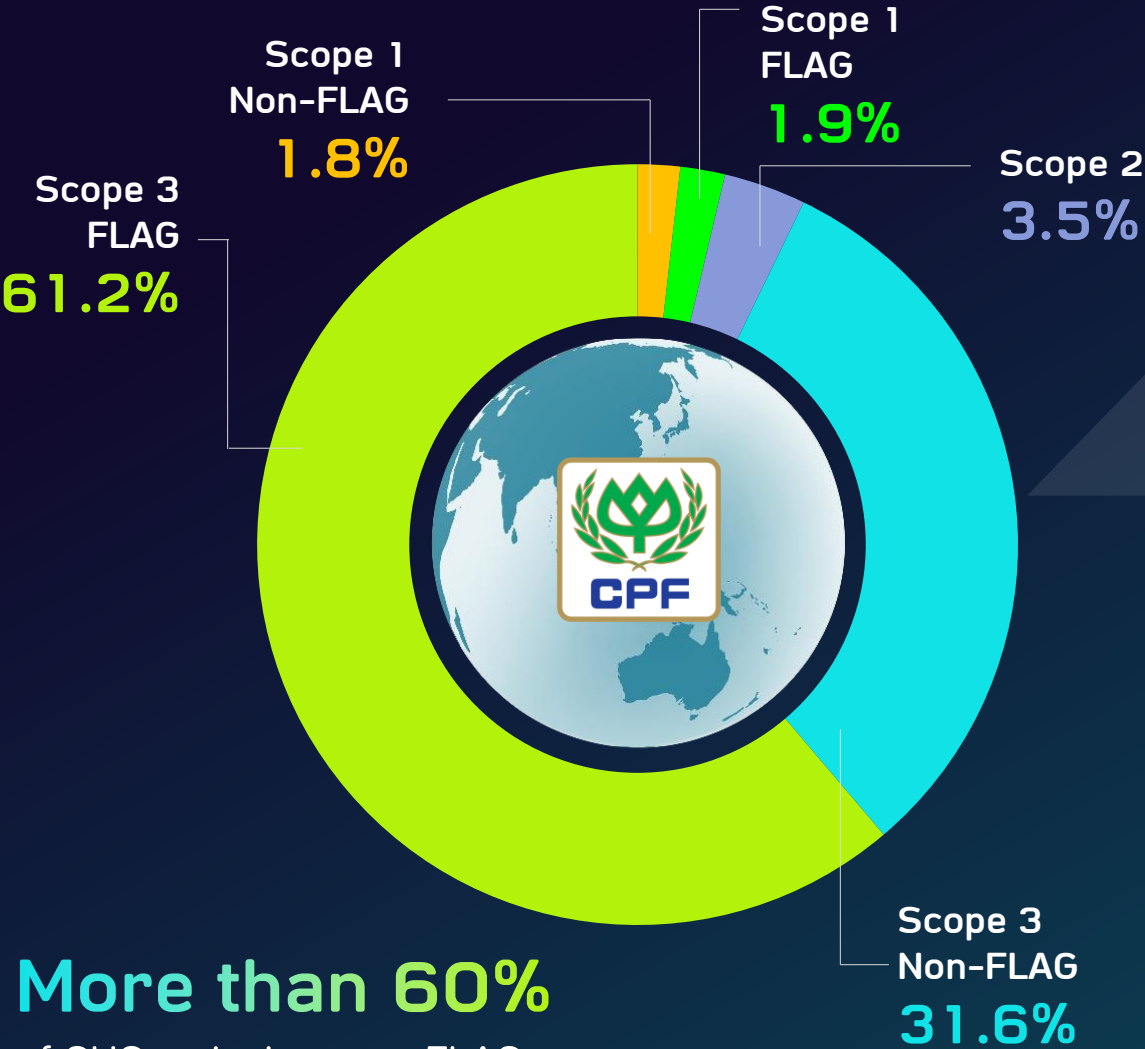


Methodology



CPF's

Global GHG Emissions



More than 60%
of GHG emissions are FLAG

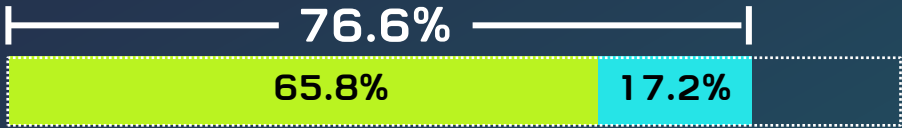
Scope 3 Breakdown

92.8%

●● Scope 3



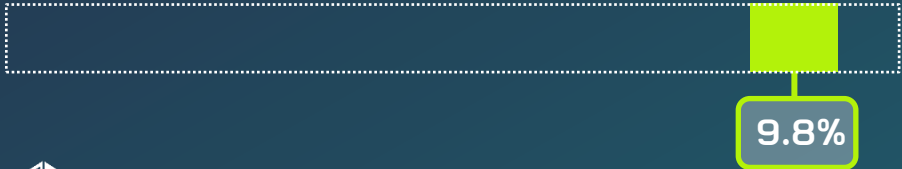
Purchased Goods and Services (PG&S)



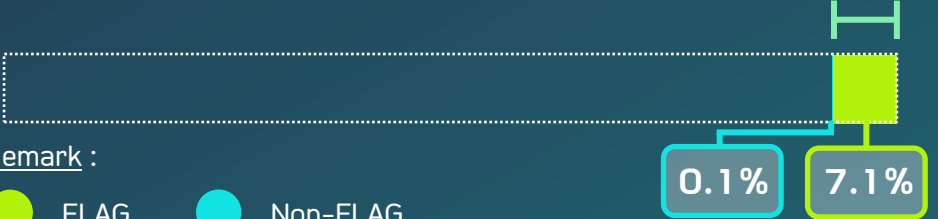
(More than 65% comes from raw materials)



Upstream Transportation and Distribution



The Remaining Scope



Remark :

● FLAG ● Non-FLAG

GHG Protocol and SBTi

GHG = CO₂ + CH₄ + N₂O + HFCs + PFCs + SF₆ + NF₃

Accounting
7 GHG emissions
and reporting
3 Scopes
of GHG emissions

- Divided into
- Non-FLAG
 - FLAG

3.1 83% of Scope 3



Purchased goods & services
(FLAG & Non-FLAG)



Capital
goods



Fuel & Energy
related



Transportation &
distribution

3.4 10% of Scope 3

Scope 3 Indirect

Leased
assets



Employees
commuting



Business travel



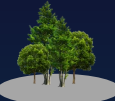
Waste from
operation



Scope 1 Direct



Company facilities
& vehicles

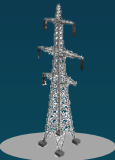


Land use change
(FLAG)



Livestock digestion
and Manure
management
(FLAG)

Scope 2 Indirect



Purchased
electricity, steam
and cooling

Scope 3 Indirect



Transportation &
distribution



Processing of
sold products



Use of sold
products
(FLAG)



End-of-life
treatment of sold
products



Leased assets

Using
Forest, Land and
Agriculture (FLAG)

Is SBTi's specific guidance for
agricultural and food sector



Franchises



Investments

Upstream activities

CFP

Downstream activities

FLAG Guidance

(Forest, Land and Agriculture Guidance)

Covers Scope 1, Scope 3.1: Purchased Goods and Services Emissions, and Scope 3.11: Use of sold products (FLAG)

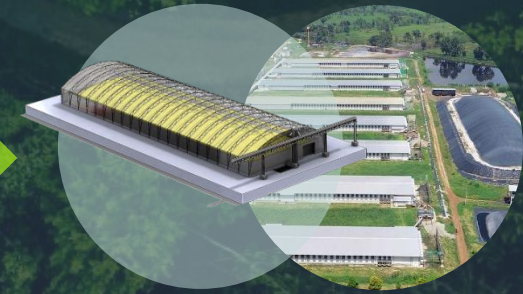
Land Use Change

from forests to farms



Forest

Change



Farm or Factory

Land Management

from enteric fermentation, manure management and fertilization



Enteric Fermentation







Manure Management



Fertilization

Key Actions



 **2020**
Base Year

- 2025**
-  **Zero Deforestation Sourcing**
for corn, soybeans, palm oil, cassava of CPF own global operations, and paper of CPF Thailand operation
 -  **100 MW Solar PV**
in Thailand's operations
 -  **Environmentally Friendly Feed**
in 100% of CPF swine and layer own farms
 -  **Cleaner Fuel Conversion**
from bunker oil to LPG in Thailand's operations

2030

-  **Zero Deforestation Sourcing**
for wheat, barley and paper of CPF own global operations
-  **Methane Capture (High-Efficiency Biogas System)**
100% of CPF own farms in Thailand and Vietnam
-  **No Additional Land Use Change**
in 100% of CPF own farms
-  **Coal-Free**
In 100% of CPF own global operations
-  **Zero Food Waste**
100% of CPF own global operations
-  **Sustainable Packaging**
100% of CPF own global operations

2040

-  **Methane Capture**
in 100% of CPF own global farms
-  **100% Smart Feedmills**
in CPF global operations

2050

- Decarbonization**
in all of CPF upstream road & sea freight
- Decarbonization**
of 100% of CPF goods suppliers and capital goods
- Renewable Electricity**
100% of CPF own global operations
- Electric Vehicles**
in 100% of CPF own global operations

Scope 1+3
(FLAG)

2030 Target

- FLAG: 30.3%
- Non-FLAG: 42%

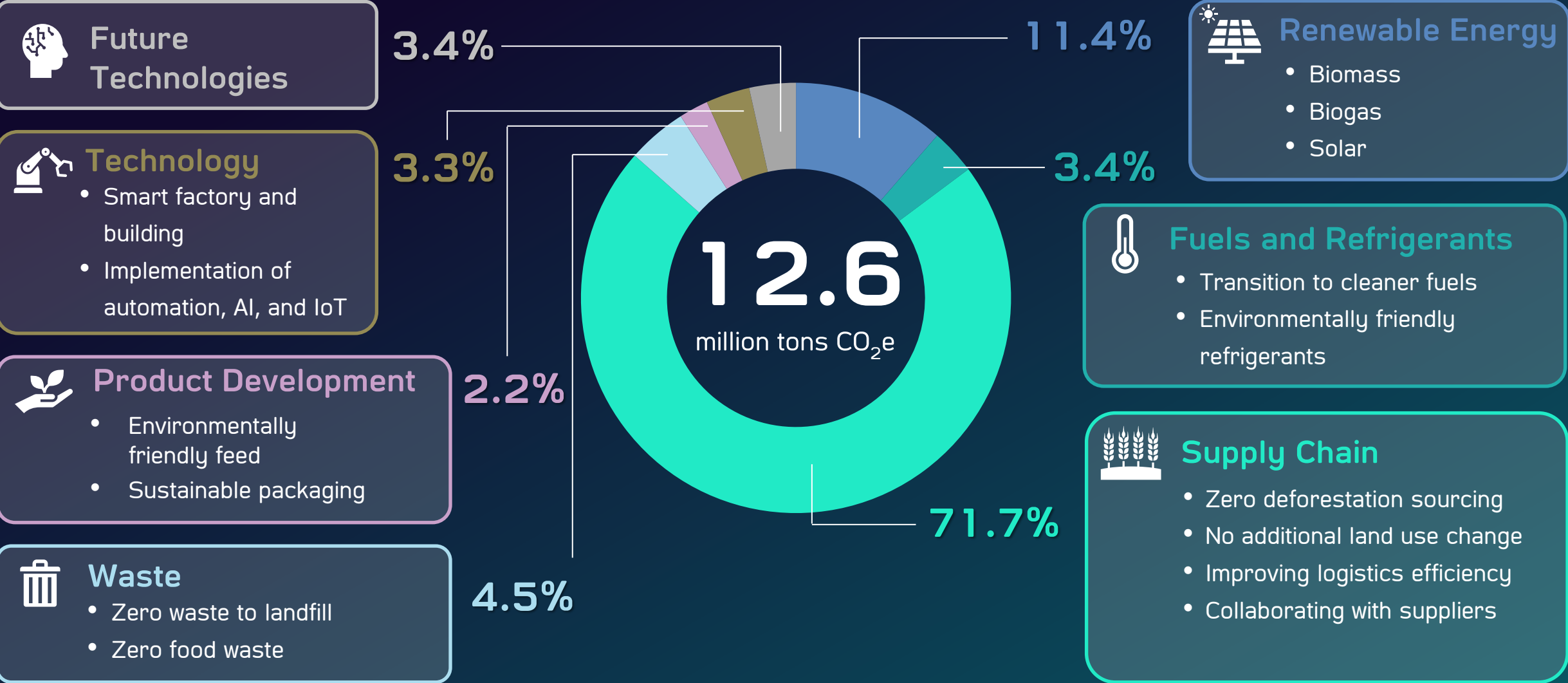
Scope 1+2+3
(Non-FLAG)

2050 Target

- FLAG: 72%
- Non-FLAG: 90%



In achieving GHG Emissions Reduction Targets by 2030



4 Intelligences Strategies



CPF Net-Zero Strategies Driven by 4 Intelligences

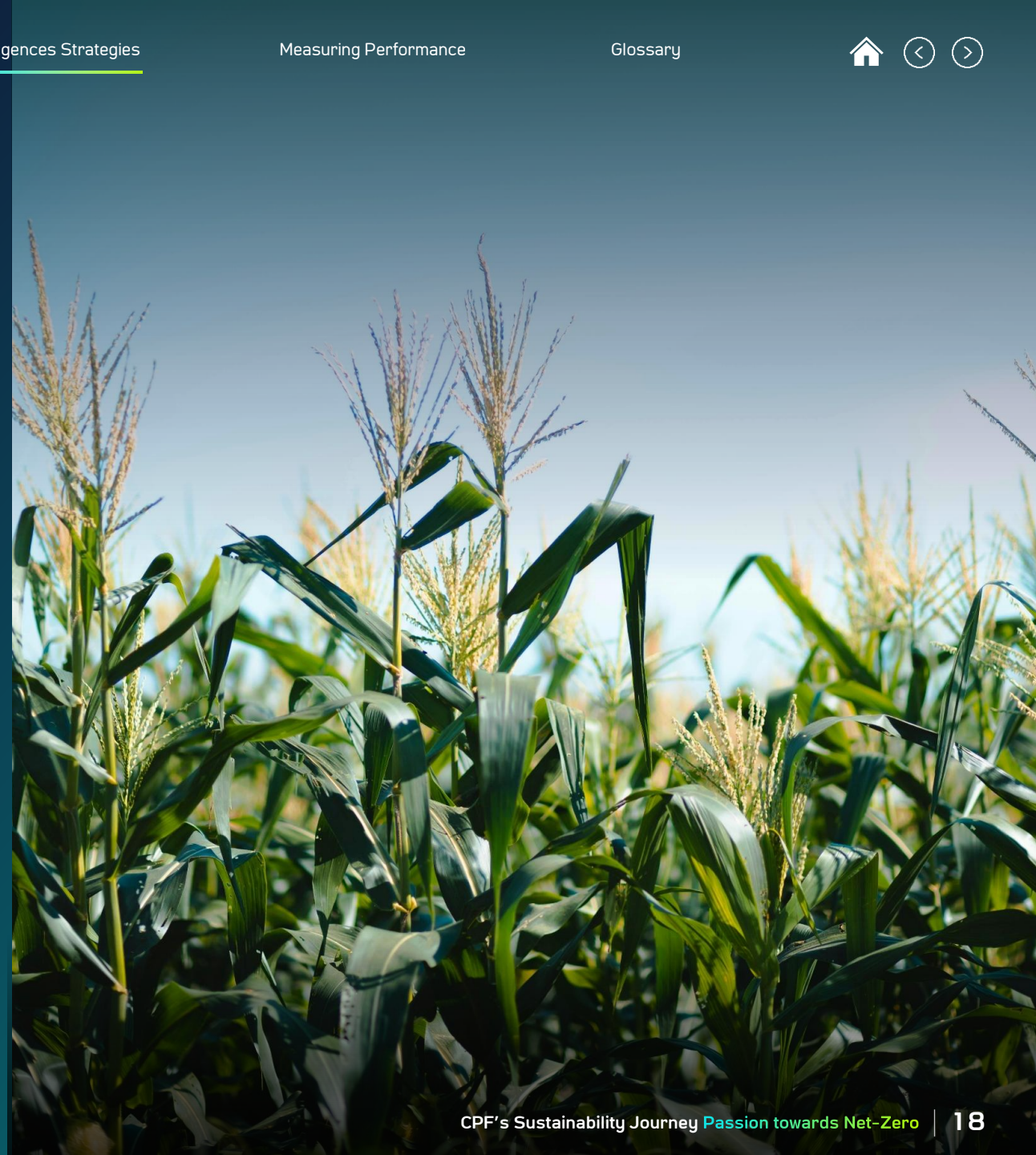




C – Carbon* Reduction from Sustainable Sourcing

*Carbon dioxide equivalent (CO₂e)

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Traceability System

Our Ambitions

- Achieve zero deforestation sourcing goals for corn, soy, palm oil and cassava by 2025
- Expand zero deforestation sourcing towards wheat, barley and paper by 2030
- Create positive impacts on biodiversity by 2030
- Expand FOR FARM application to neighboring countries of Thailand

Key raw materials sourcing



Corn



Soy



Palm Oil



Cassava



Operation in Thailand

100%

of corn sourced by CPF comes from deforestation-free areas

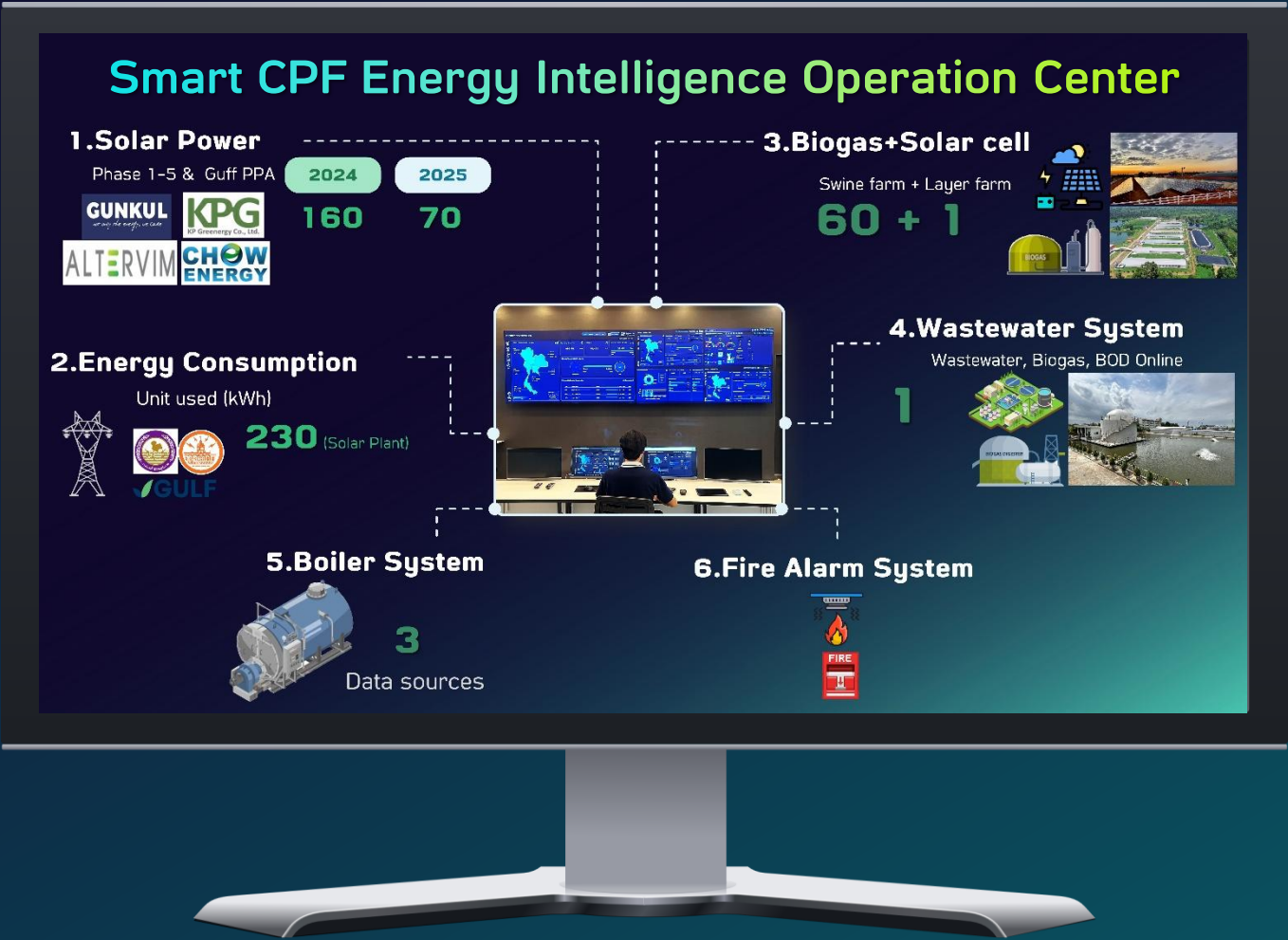


P – Power Circulation



Smart Energy

Smart CPF Energy Intelligence Operation Center



In 2024:

> 200 data points

Achieve 100% by 2026

Renewable Energy

2024

Ratio of renewable energy consumption

34%



67%
Biomass

GHG emissions reduced by

710,000 tCO₂e



31%
Biogas

Equivalent to installing solar power system of

980 MW



2%
Solar



Since 2022

100%

coal-free

switching to biomass usage in Thailand and Vietnam operations and expanding globally by 2030



CPF Thailand has begun replacing bunker oil with **LPG** to support cleaner energy use, aiming to complete by **2025**.




CPF's Sustainability Journey **Passion towards Net-Zero**

22

100%

Renewable Energy Farm

(RE100 Farm)

- **Pilot Project**
Complex Layer Farm
in Chanthaburi Province
- GHG Emissions Reduction
over 16,500 tCO₂e /year/farm
- **by 2030**
in 8 Complex Layer Farms



EV Trucks



By 2030

CPF aims to use

> 300 EV trucks

Pilot Project

First EV truck in CPF by CP Foton

More than **4.7** tCO₂e / year
GHG emissions reduced

More than **220** kilometers
average distance per single charge

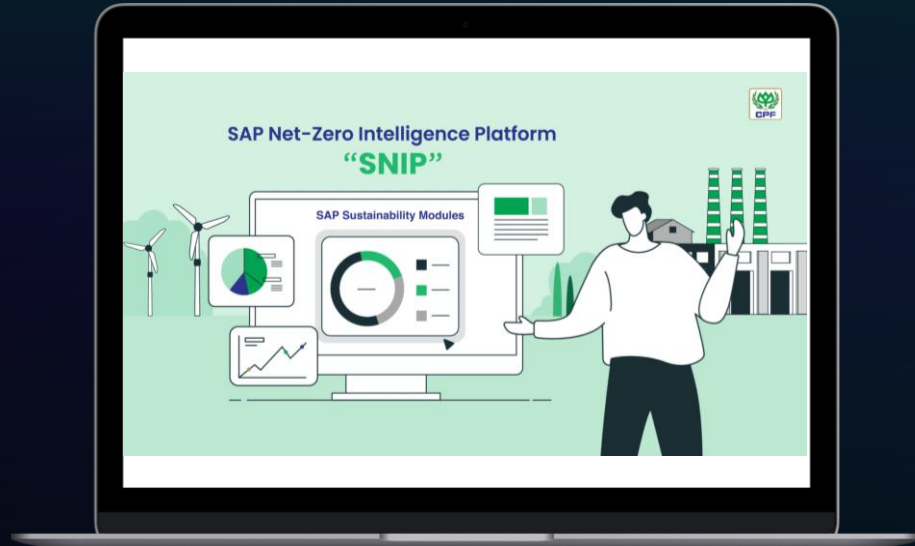


F- Future Generation



SAP Net-Zero Intelligence Platform (SNIP)

Connecting data across the value chain to record, calculate, analyze, and report carbon emissions along with other environmental metrics.



The world's **first company** to implement **SAP Sustainability Solutions**



SAP Sapphire

ORLANDO | MAY 2025



SNIP was selected as one of the global sustainability highlights from **over 100 countries** and invited as an official speaker at **SAP Sapphire 2025** in Orlando to showcase the development of SAP Net-Zero Intelligence Platform on the global stage.

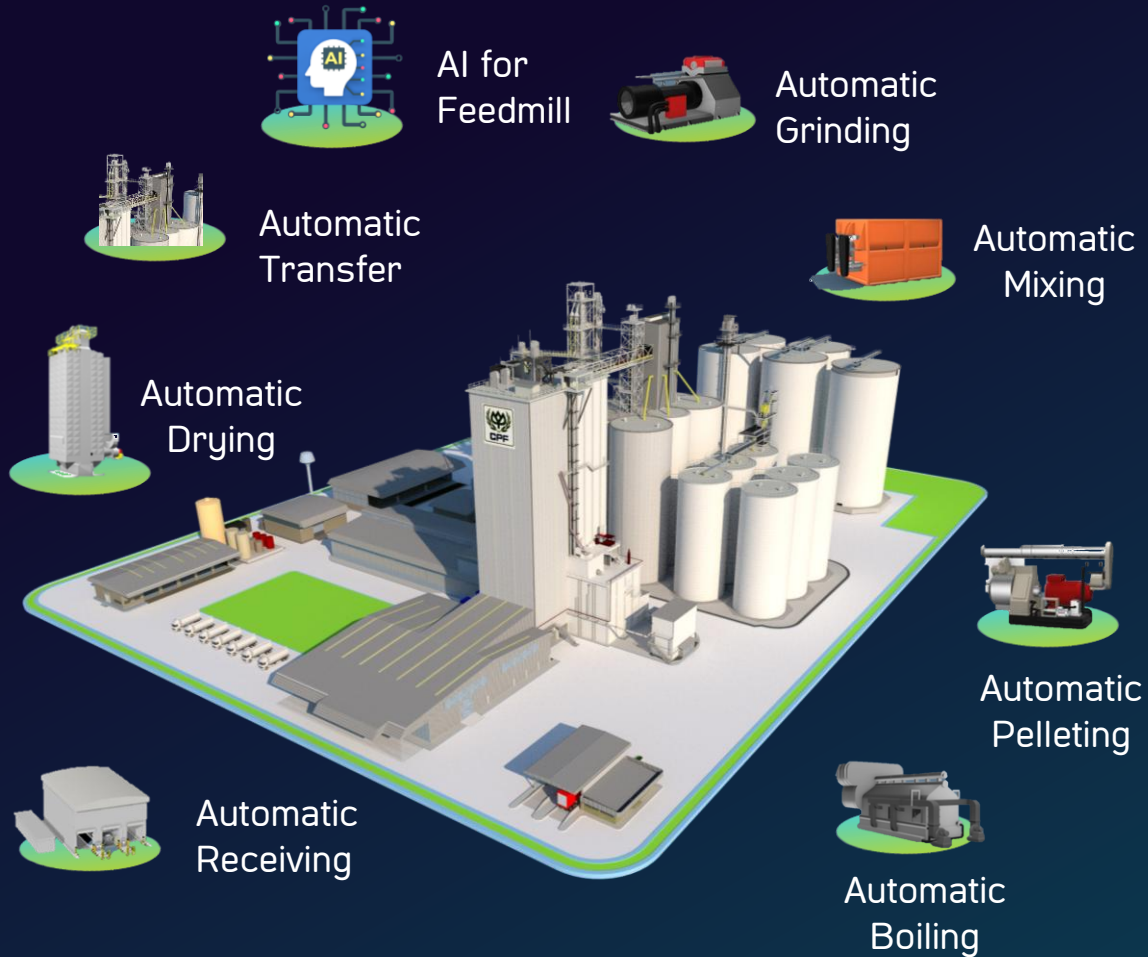
SAP Customer Excellence Awards SEA 2025

SINGAPORE | JULY 2025



SNIP achieved **1st Runner-Up** in the Business Data category at the **SAP Customer Excellence Awards SEA 2025** in Singapore, highlighting the company's excellence in utilizing business data for innovation and sustainable growth.

Smart Feedmill



Machine to Machine : Smart Boiler

The program controls smart boilers which produce steam of sufficient quality and volume necessary to the production. It is controlled by AI which communicates Machine to Machine to maximize efficient energy use.



- Improved livestock feed quality
- Enhanced production efficiency

- Reduced production costs

Reduce energy use

25% per ton of feed

- Reduced waste
- Reduced electricity consumption
- Minimized workload

Smart Factory

Concept :

All that are visible are manageable

Use of Visualization Technology

Production Process

- Increase efficiency
- Reduce idle time
- Reduce GHG emissions



Operational Data Visualization : MES

(Manufacturing Execution System)

The solution software connects data from equipment, machines and organization-level application which allows users to see overall production and helps increasing efficiency and control the entire production.



On-Floor Management :

Edge AI & Machine Learning
(Manufacturing Execution)

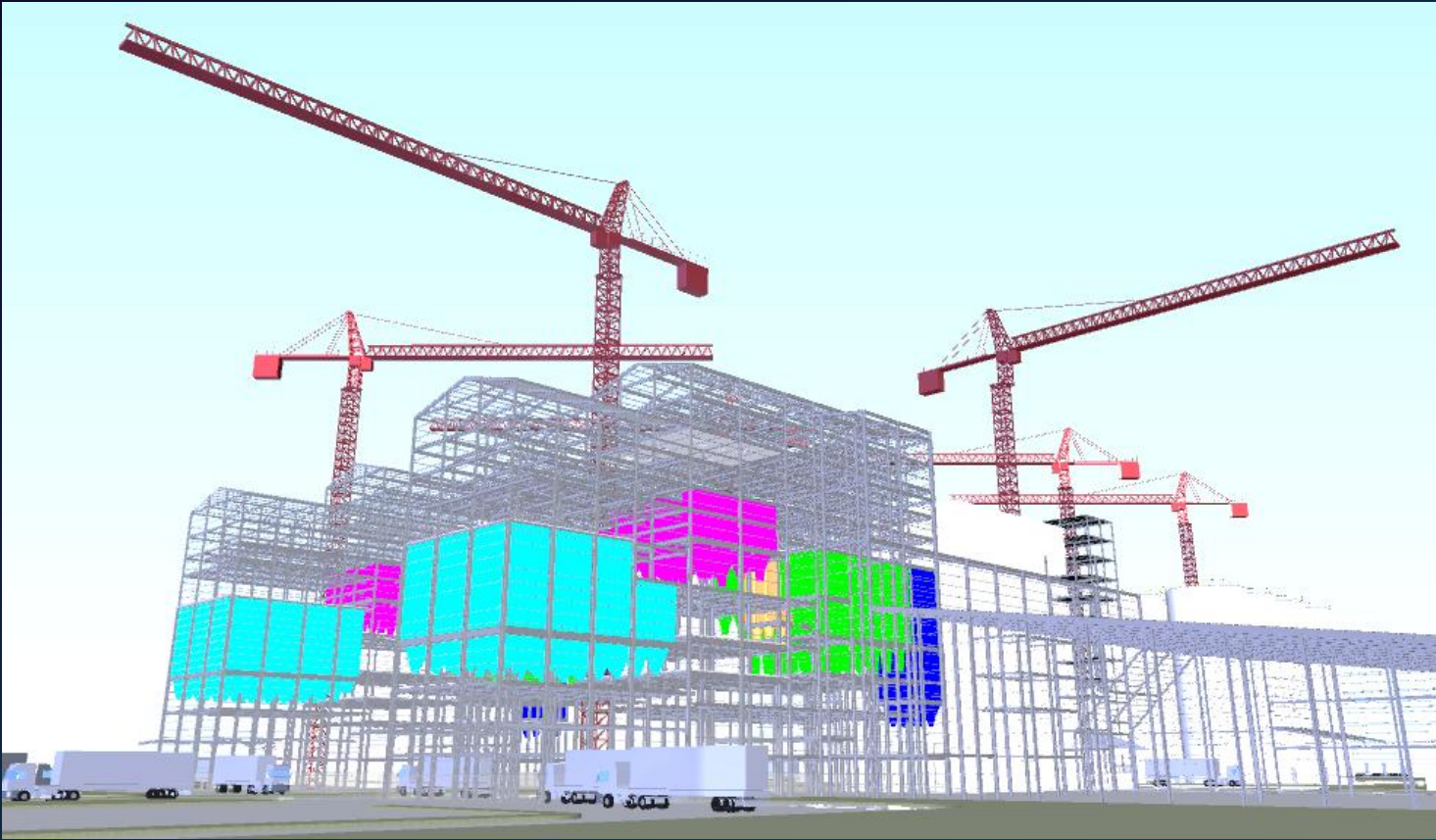
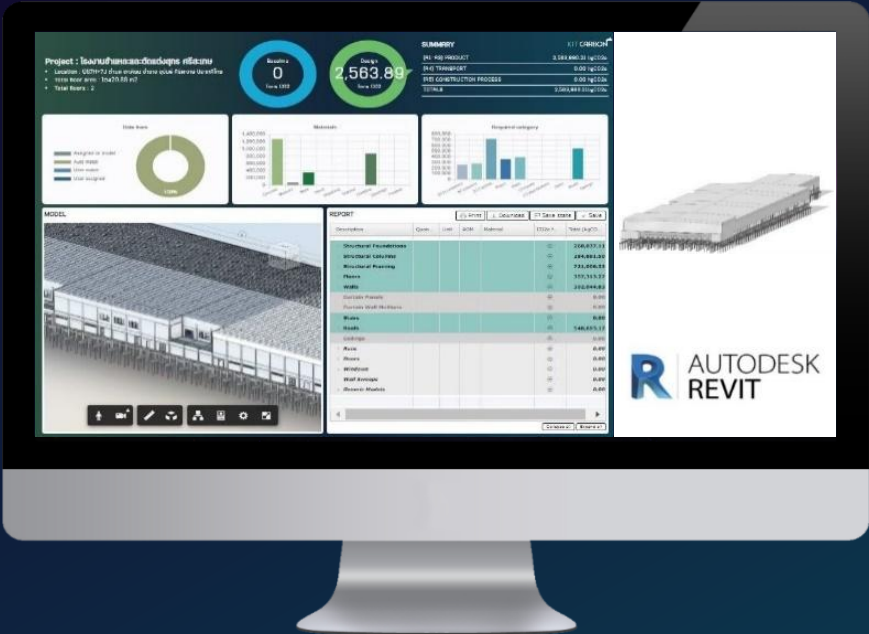
The machine system which uses cameras to process picture data and control operations to enhance production efficiency.

Smart Factory and Building

Building Information Modeling (BIM)
for design and construction

Digital Twin
for building operations and management

Augmented Reality (AR/VR)
for buildings audit



10 projects with a total value of over 700 million baht
covering all BUs.



- Reduce GHG emissions
- Reduce expenditure



- Improve indoor environmental quality

Smart Building

Green Building

CPF

Refrigerants Usage Measure



Limit Refrigerants for Business Operations

According to Kyoto Protocol to the United Nations Framework Convention of Climate Change



Carbon Dioxide



Ammonia



Hydrocarbon



HFOs and certain HFC

Environmentally Friendly Construction Materials

- Low carbon materials
- Environmentally friendly refrigerants
- Low Volatile Organic Compounds (Low VOCs) materials

Energy Efficient Building



Electricity reduction

35%



Water reduction

45%

Hygiene and Safety

- Interior air quality
- Sufficient lighting
- Increasing green areas

Reduce GHG Emissions > 6,000 tCO₂e

Smart Building

7 Green Building Projects



Khon Kaen Office Building



Si Sa Ket Swine Slaughtering Plant



Samut Prakan Laboratory



Nong Chok Center of Engineering Excellence



Nakhon Ratchasima 5 Star Factory



Lopburi Swine Slaughtering and Processing Plant



Phanom Sarakham Duck Slaughtering Plant

Upcycling Products from Plastic Waste

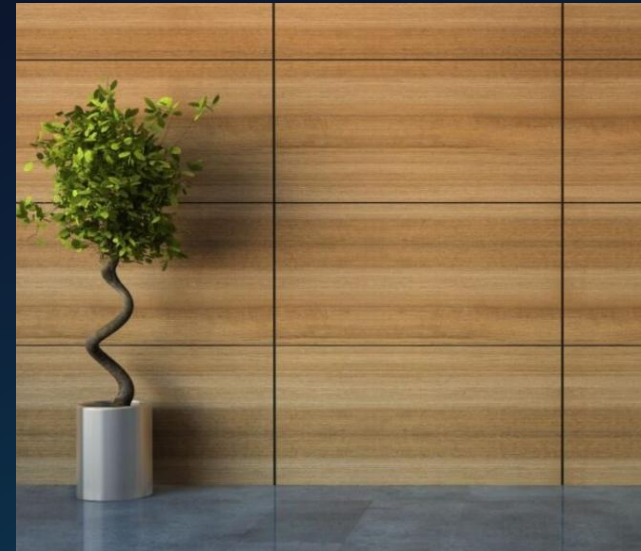
upcycling plastic waste from production processes into products such as furniture, decorative panels, and restroom partitions.

Eco-Friendly Plastic Roads

A pilot project utilizing plastic as a substitute for asphalt at the Center of Engineering Excellence.



Furniture



Decorative Panels



Restroom Partitions

Extruded
Plastic Sheets



Upcycling Products from Packaging Waste

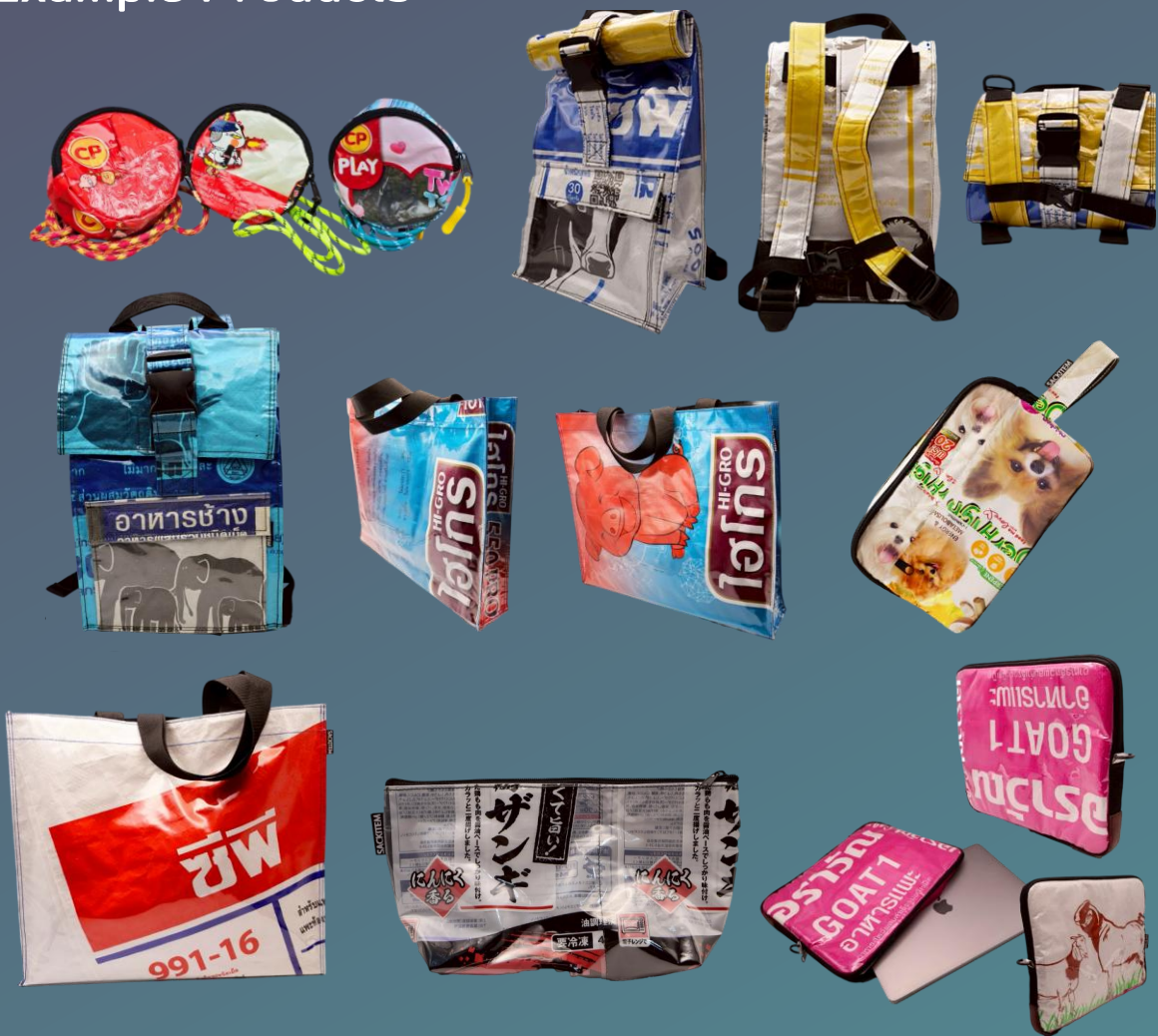
Loop Bag

Turning waste into bags adds value through material reuse, promoting resource efficiency and maximizing benefits.



Packaging Waste

Example Products



Net-Zero

Network



Employee Engagement

Net-Zero SBT 101

The course aims to build basic understandings of our Net-Zero journey to create awareness among all our employees.



100%

of Thailand's office employees
completed courses in April 2024
and overseas expansion to achieve 100% by 2030.



SME Supplier Engagement

SMEx

We enhance our SME partners' capabilities through seminars and excursions, reinforcing our commitment to advancing sustainability-oriented global trade with over 100 partner companies.



- ✓ Low-GHG Raw Materials
- ✓ CFO Certified Suppliers
- ✓ Lower Carbon Tax
- ✓ Cost Control
- ✓ Sales Opportunity



Thailand Greenhouse Gas Management Organization (TGO)

- Supporting SMEs with knowledge on CFO



Faculty of Engineering Chulalongkorn University

- Providing knowledge to enhance competitive capability



CPF

- Upskilling in efficiency and cost reduction using Lean Six Sigma

MOU

for Joint Efforts to Reduce GHG Emissions



Office of Small and Medium Enterprises Promotion (OSMEP)

- Funding Access and Project Development Support



SME Suppliers

- Identify areas for improvement
- Implement projects to reduce environmental impacts (GHG, water, waste)



Announcement of Collaboration to Enhance Personnel and Organizational Capabilities

in Climate Change and Environmental Management

Between the Faculty of Engineering, Chulalongkorn University, Department of Climate Change and Environment, Carbon Institute for Sustainability and Partner Networks



Partner for GHG Reduction

Sustainable Packaging

CPF designs and develops environmentally friendly food packaging to encourage reusing, recycling and reducing GHG emissions.

In 2024

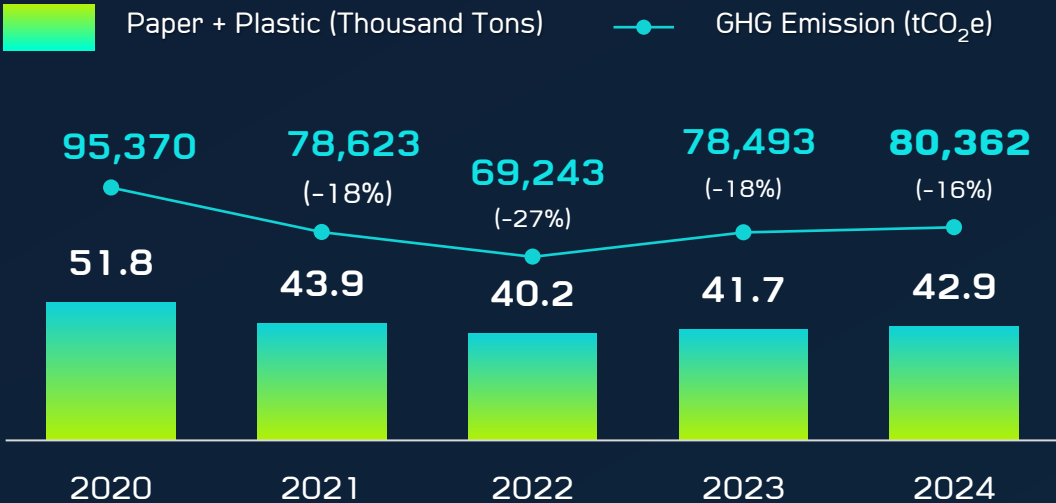
82.43%⁽¹⁾

of our plastic packaging for food products is reusable, recyclable and composable.



(1) Not including mixed plastic and Alufoil. The reported figures covers Thailand, Vietnam, Russia, the Philippines, Malaysia, Türkiye, Laos, and Belgium operations.

Plastic and Paper Food Packaging (Thailand Operations)



Plastic Food Packaging

27,106⁽¹⁾ tons



0.12%
Reusable



82.20%
Recyclable



0.11%
Composable



17.57%
Hard to Recycle

Partner for GHG Reduction

Converting used packaging to energy

Collaborating with Boehringer Ingelheim (Thailand) to convert used packaging to Refuse Derived Fuel (RDF)

In collaboration with



GHG Emissions Reduction over

2.4

tons CO₂e / ton of Packaging



Refuse Derived Fuel
replacing Coal

Communication with Clients and Consumers

Environmentally Friendly Livestock Feed

Protein-balanced and age-appropriate enzyme-selected livestock feeds for swine and layer chicken

- Increase food digestion and nutrient absorption
- Contribute to livestock’s hygienic growth and welfare
- Reduce excess nitrogen from livestock manure which affects GHG emissions



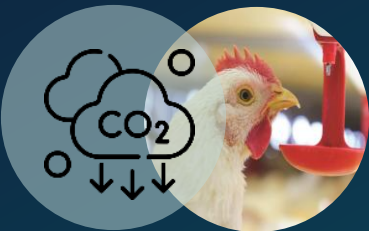
Excess Nitrogen Reduction



20-30%
From swine manure

12-13%
From layer chicken manure

GHG Emission Reduction



74,700
tCO₂e

We control portion and quality of livestock feeds to ensure that all animals receive sufficient and appropriate amount of nutrient.



Swine



Duck



Layer Chicken

Communication with Clients and Consumers



Eco-Friendly Food

CPF is committed to producing environmentally certified green products.

2024 Performance



890 Products have undergone the carbon footprint assessments and certified with the Carbon Footprint Label by Thailand Greenhouse Gas Management Organization (Public Organization) or TGO



88 Products are classified as low-carbon products with the Carbon Footprint Reduction Label verified by TGO

**Remark:* Information as of 31st December 2024



SPACE SAFETY STANDARD

เนื้อสัตว์คุณภาพ มาตรฐานอวกาศ
ความปลอดภัยระดับเดียวกับที่นักบินอวกาศทาน



Our Products which Emits GHG Below **Average***



Fresh Chicken Meat
below average
50%



Chicken Eggs
below average
30%



Fresh Pork
below average
13%

**Remark:* Average of each product's GHG emissions in Thailand

Cooperation with Network and Alliances

Internal Carbon Pricing



Internal Carbon Pricing in Preparation for EU CBAM



Covering both Non-FLAG and FLAG



Taking CPF global investment decisions into account

Thailand Operations

20 USD/tCO₂e

Overseas Operations

10-100 USD/tCO₂e

The Internal Carbon Pricing (ICP) policy announcement is available for download at:
[Announcement on the Internal Carbon Pricing \(ICP\)](#)

Cooperation with Network and Alliances

Safety and Environment



Technology and Efficiency Enhancement


















Education



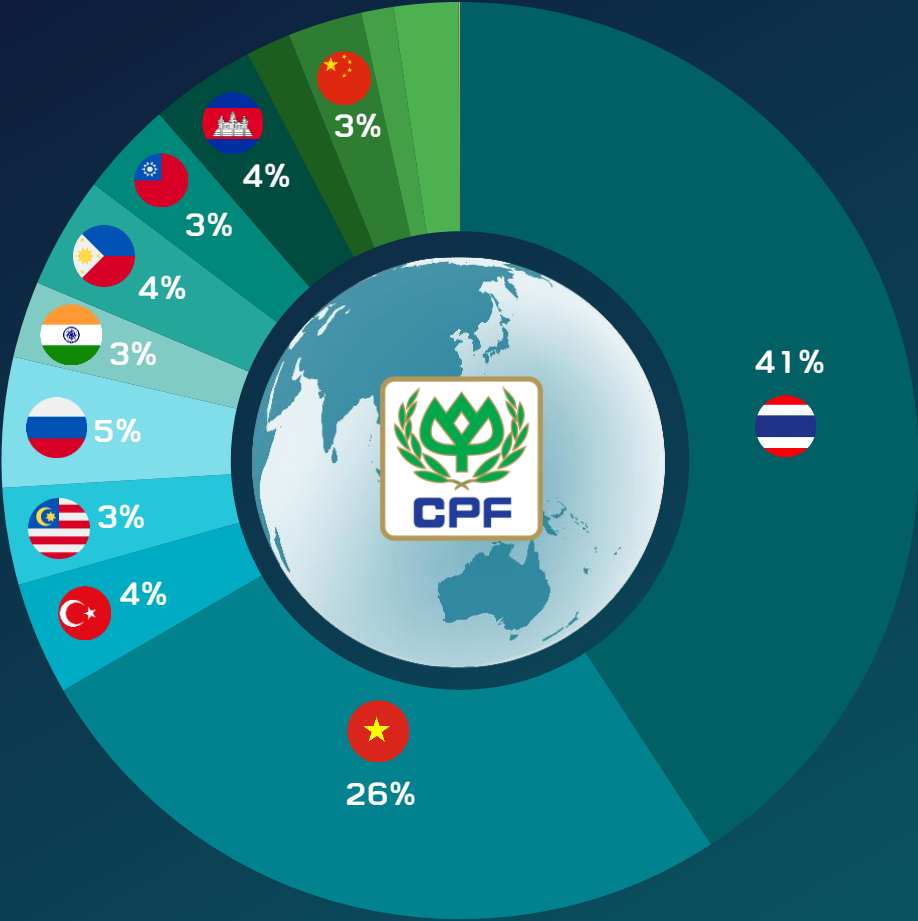
Measuring Performance

CPF's Total GHG Emissions Across All Scopes

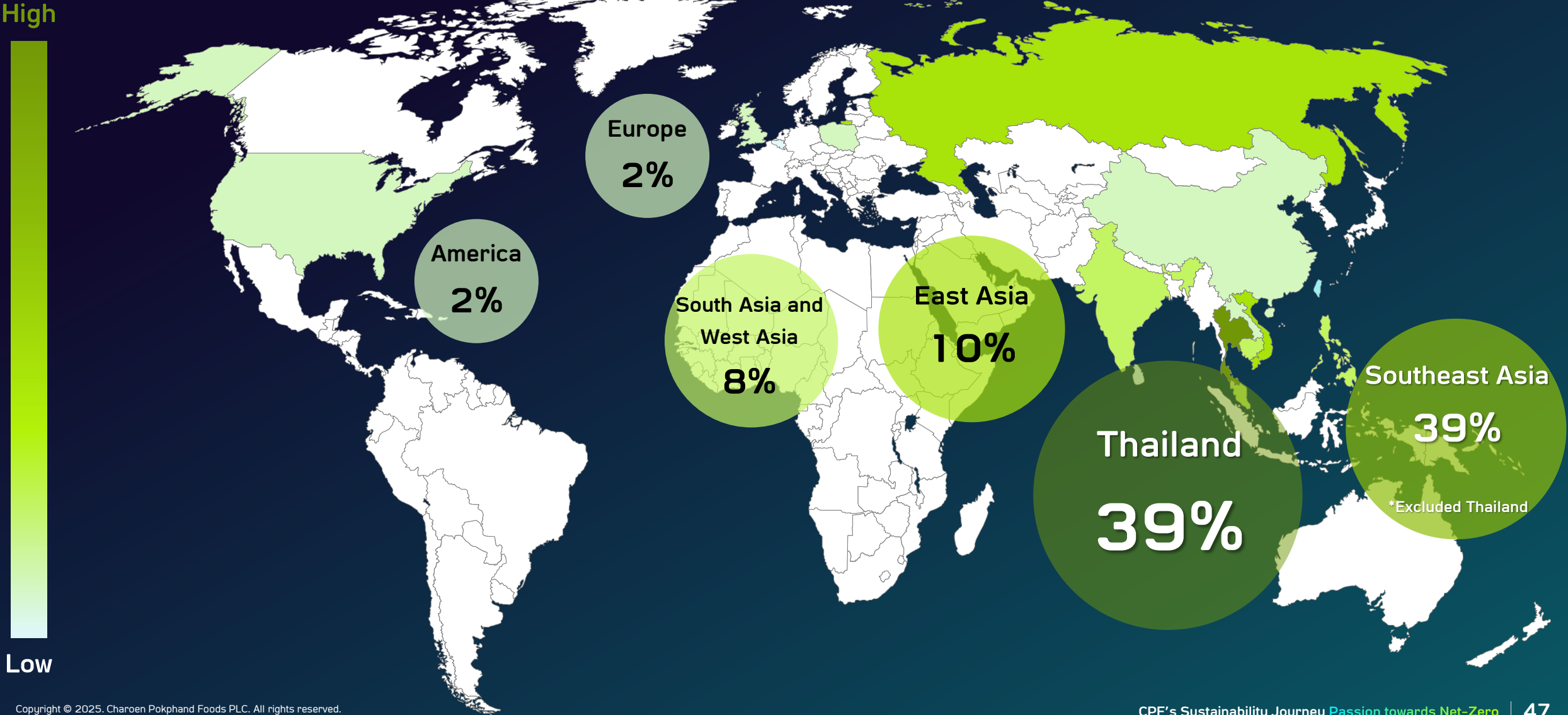
Unit : million tons CO₂e

	2020 Base year	2024	2024 Compared with base year
 Thailand	14.49	13.67	-0.82
 Vietnam	9.91	9.40	-0.51
 Turkiye	2.09	1.90	-0.19
 Malaysia	1.67	1.21	-0.46
 Russia	1.61	1.55	-0.06
 India	1.59	0.96	-0.63
 Philippines	1.26	1.40	+0.14
 Taiwan	1.16	1.18	+0.02
 Cambodia	0.90	1.30	+0.40
 United States	0.68	0.51	-0.17
 China	0.58	0.93	+0.35
 Laos	0.29	0.40	+0.11
 United Kingdom	0.05	0.83	+0.78
 Sri Lanka	0.02	0.01	-0.01
 Belgium	0.003	0.02	+0.017
Total	36.32	35.25	-0.59

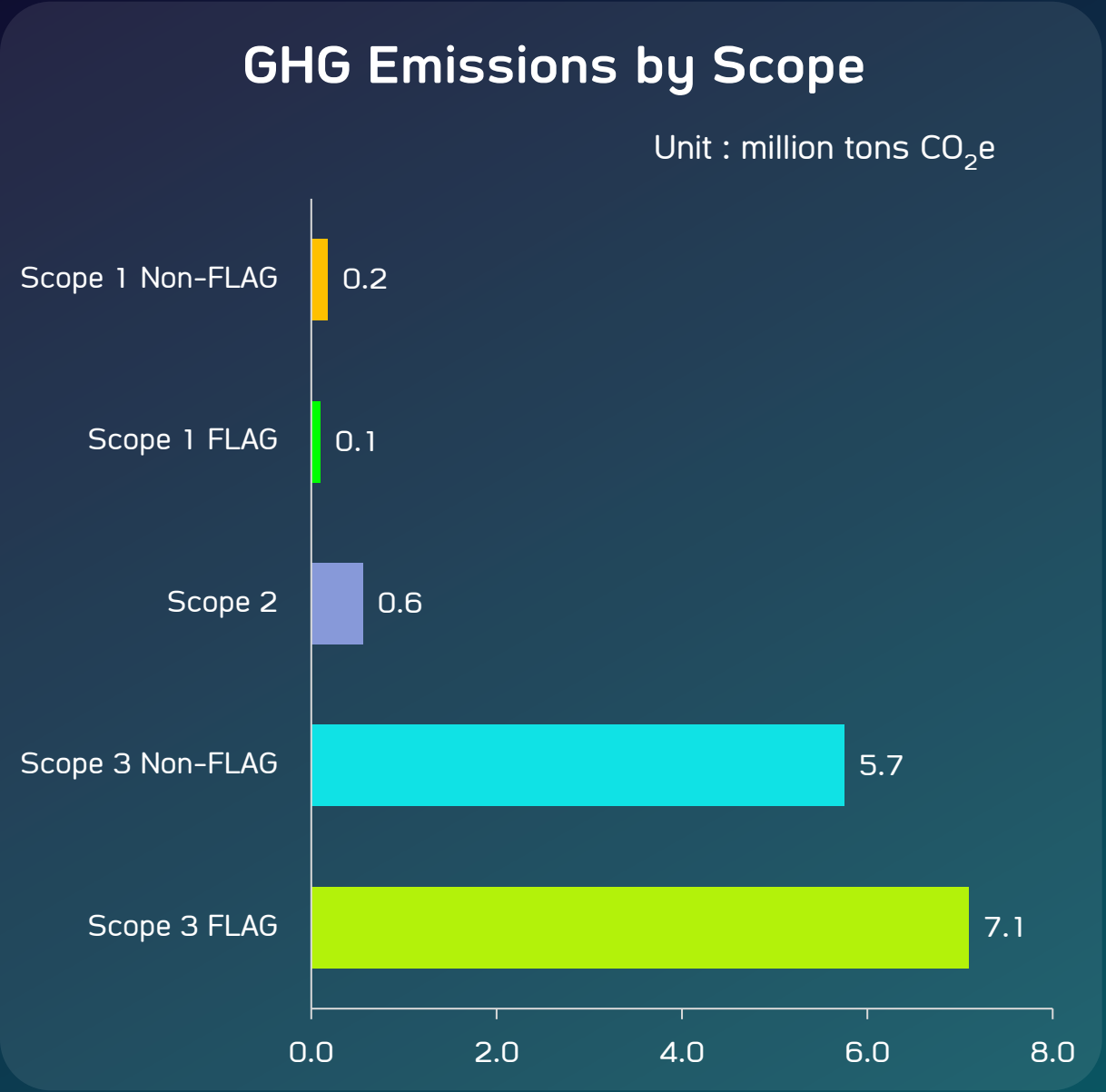
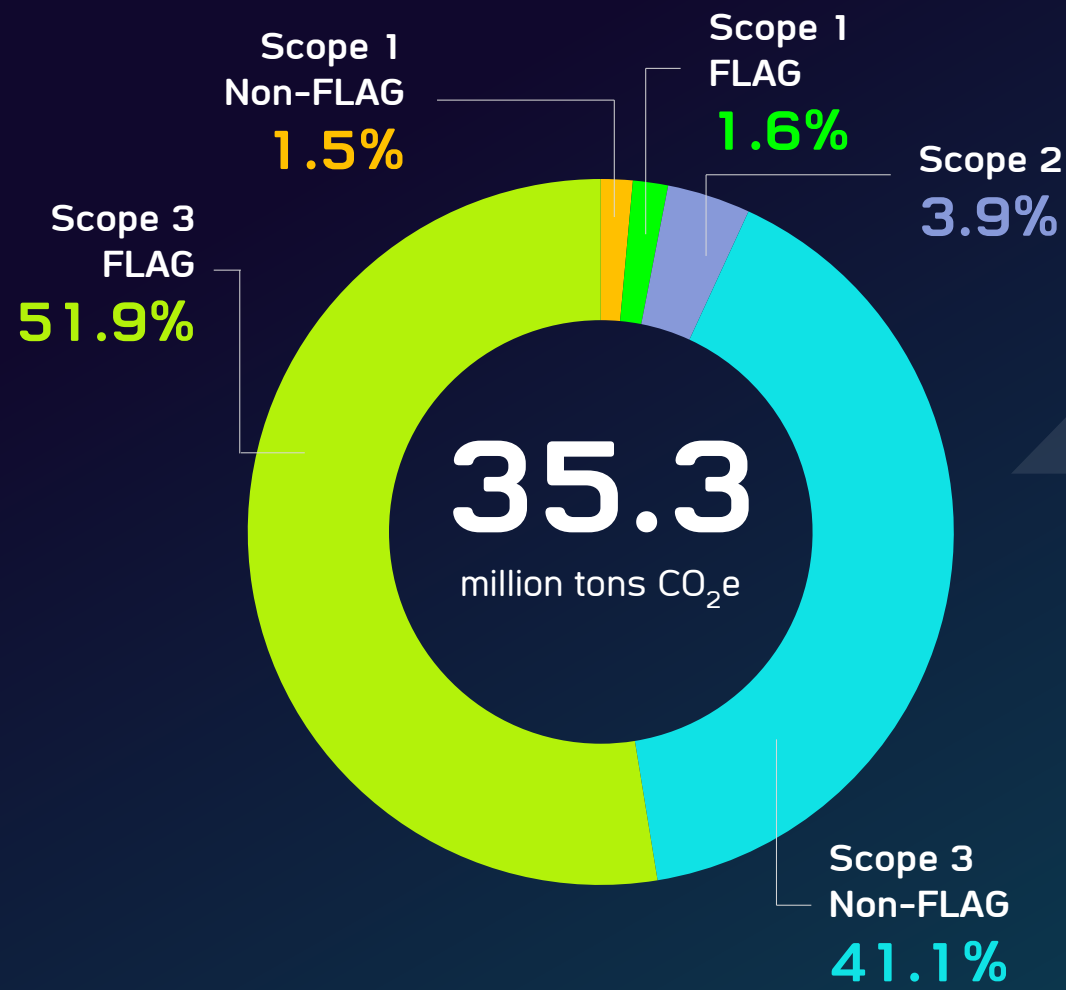
Proportion of GHG Emissions by Country in 2024



Proportion of CPF's GHG Emissions in 2024 by Country Zone

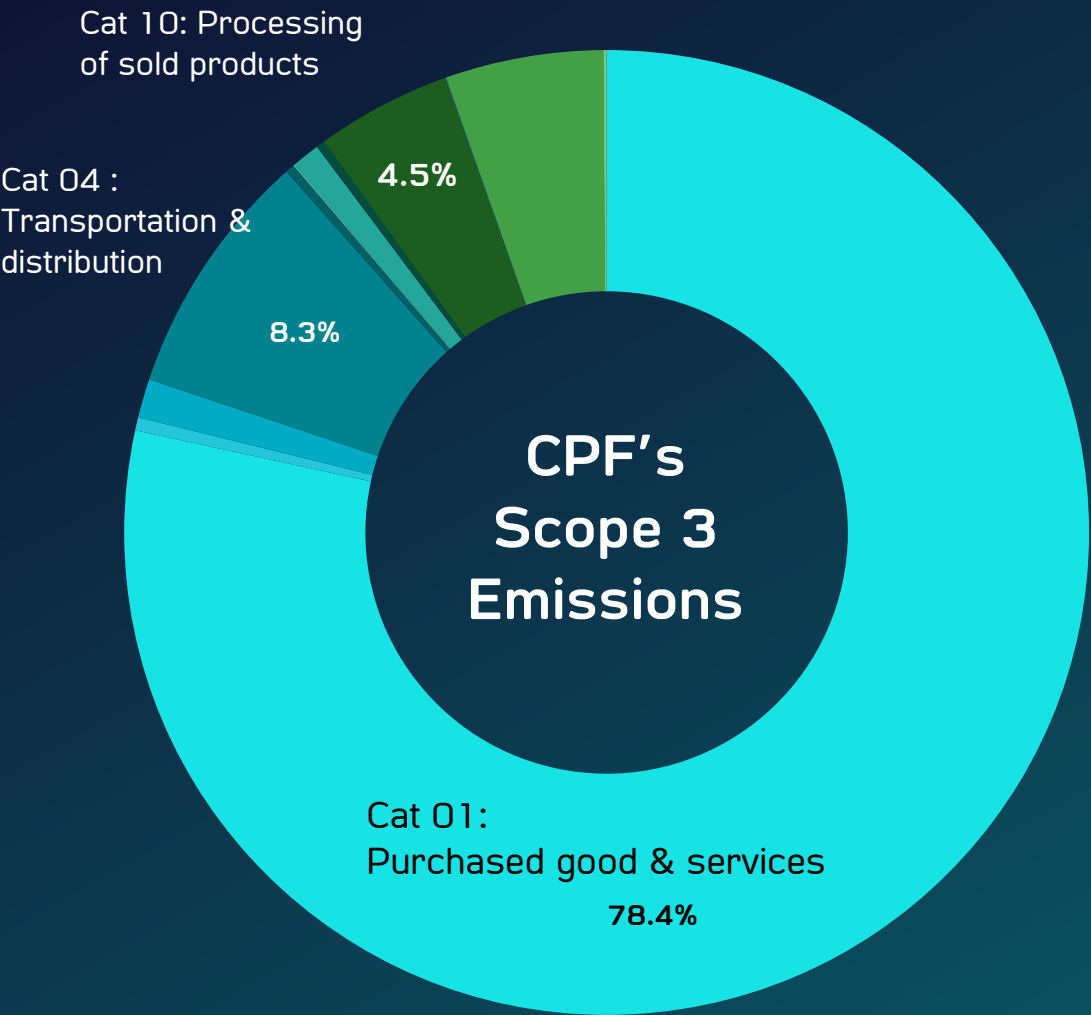


CPF's Global GHG Emissions in 2024



CPF's Global Scope 3 GHG Emissions in 2024

Scope 3 (million tCO ₂ e)	32.7
 Cat 01: Purchased good & services	25.7
 Cat 02: Capital goods	0.1
 Cat 03: Fuel & energy related (Excluded from Scope 1 and 2)	0.4
 Cat 04: Transportation & distribution	2.7
 Cat 05: Waste from operation	0.1
 Cat 06: Business travel	0.01
 Cat 07: Employee commuting	0.3
 Cat 08: Leased assets	-
 Cat 09: Transportation & distribution	0.1
 Cat 10: Processing of sold products	1.5
 Cat 11: Use of sold products	0.01
 Cat 12: End-of-life treatment of sold products	1.7
 Cat 13: Leased assets	-
 Cat 14: Franchises	0.04



Remark: Cat 06: Business Travel (accommodation): 7.4 thousand tCO₂e and Cat15: Investments: 0.8 million tCO₂e are not included in the near-term science-based GHG emissions reduction target of CPF.

CPF's Global GHG Emissions Across All Scopes (2020-2024)

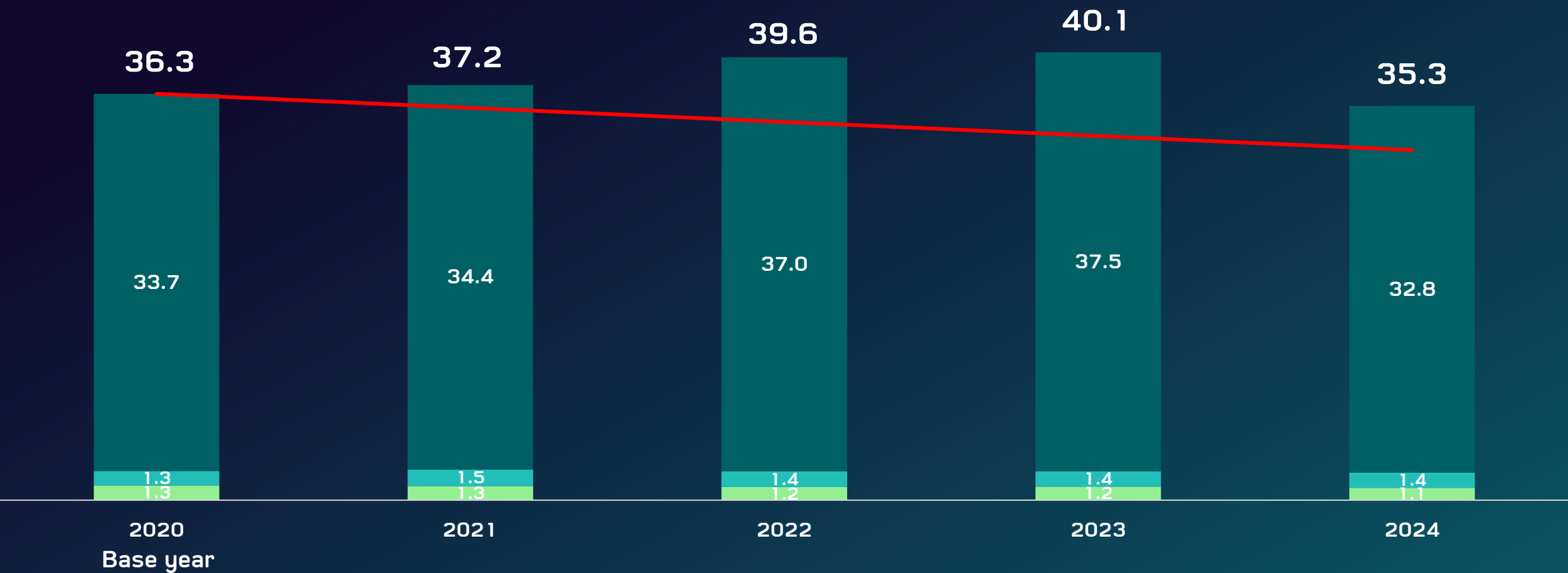
Unit : million tons CO₂e

Scope 1 GHG Emissions

Scope 2 GHG Emissions

Scope 3 GHG Emissions

SBT Target



*Data collection and calculation methods have been adjusted since 2022 onwards
**The 2024 data will be revised by June 2025

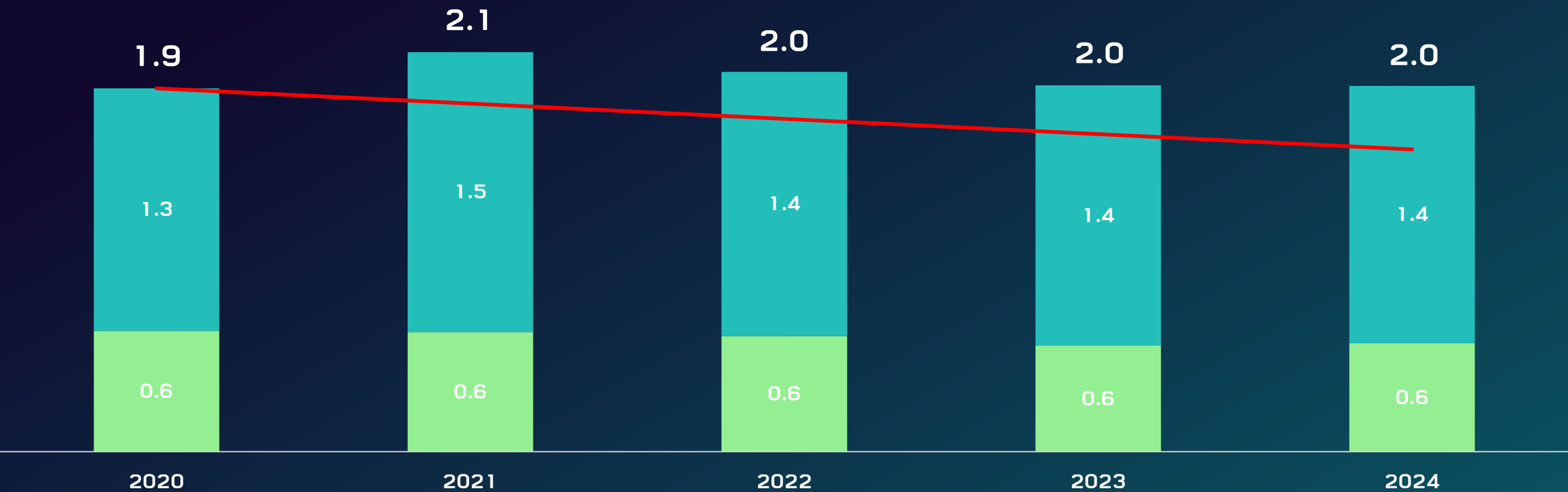
CPF's Global Scope 1 Non-FLAG and Scope 2 GHG Emissions (2020-2024)

Unit : million tons CO₂e

 Scope 1 Non-FLAG GHG Emissions

 Scope 2 GHG Emissions

 Scope 1 Non-FLAG and 2 SBT Target



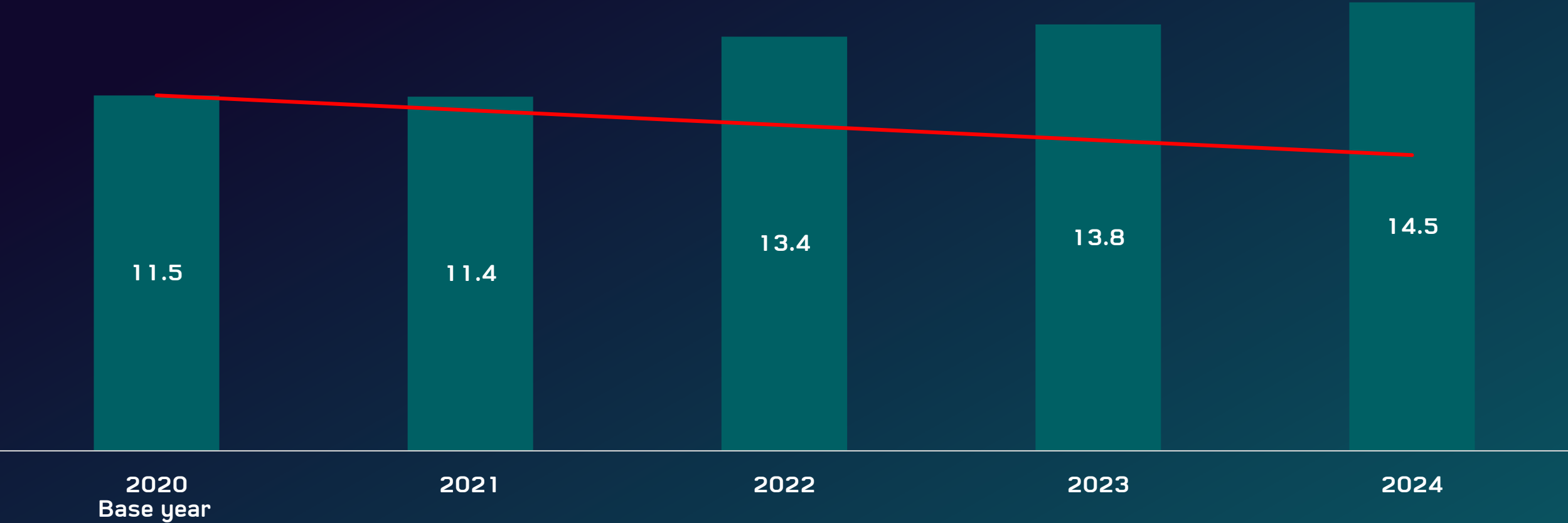
*Data collection and calculation methods have been adjusted since 2022 onwards
**The 2024 data will be revised by June 2025

CPF's Global Scope 3 Non-FLAG GHG Emissions (2020-2024)

Unit : million tons CO₂e

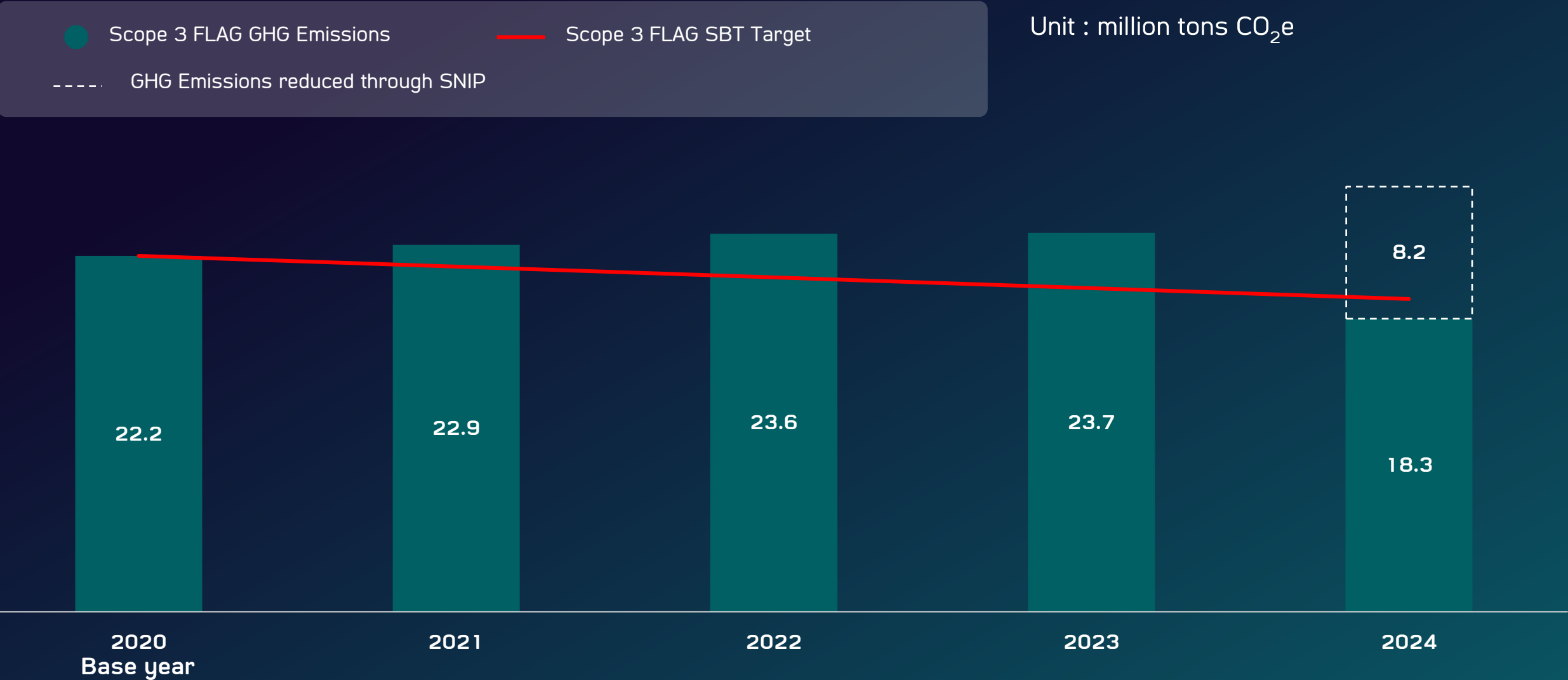
Scope 3 Non-FLAG GHG Emissions

Scope 3 Non-FLAG SBT Target



*Data collection and calculation methods have been adjusted since 2022 onwards
**The 2024 data will be revised by June 2025

CPF's Global Scope 3 FLAG GHG Emissions (2020-2024)



*Data collection and calculation methods have been adjusted since 2022 onwards

**The 2024 data will be revised by June 2025

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Glossary



Term	Details	References
Artificial Intelligence (AI)	<ul style="list-style-type: none">Artificial Intelligence (AI) is the science and engineering of making intelligent machines, especially intelligent computer programs. AI algorithms seek to create expert systems which make predictions or classifications based on input data.	IBM
Augmented Reality/Virtual Reality (AR/VR)	<ul style="list-style-type: none">Immersive technologies that blur the lines between the physical and digital worlds. They offer unique experiences by overlaying digital elements onto the real world or transporting users into entirely computer-generated environments.	IEEE
BAU	<ul style="list-style-type: none">Business as usual (BAU) refers to the usual operations of a business	
Blockchain	<ul style="list-style-type: none">Blockchain is a shared, immutable ledger that facilitates the process of recording transactions and tracking assets in a business network. The traceability system with Blockchain Traceability technology is widely accepted in numerous industries including banking, sourcing and procurement, and supply chain.	CPF
Building Information Modeling (BIM)	<ul style="list-style-type: none">Building Information Modeling (BIM) involves the creation and management of data for constructing buildings. Through the BIM platform, structural data is integrated to create intelligent models that represent information throughout the building's lifecycle, from planning and design to construction and operation.	Autodesk
Digital Twin	<ul style="list-style-type: none">A digital twin is a virtual simulation designed to accurately reflect the physical structure, with real-time data updates. It simulates machine learning processes and provides reasoning to assist in making informed decisions.	IBM
Electric vehicle (EV)	<ul style="list-style-type: none">Electric vehicle (EV) has an electric motor instead of an internal combustion engine.	U.S. Department of Energy
Environmental Management (EM)	<ul style="list-style-type: none">A cloud solution with integrated waste management, a flexible and auditable emissions calculator, and real-time analytical tools for ESG reporting.	SAP

Term	Details	References
EU CBAM	<ul style="list-style-type: none">A carbon tariff on certain carbon-intensive goods imported into the European Union. It aims to prevent carbon leakage and ensure a level playing field for EU producers by ensuring that imported products face a similar carbon price as those produced domestically.	European Commission
FLAG	<ul style="list-style-type: none">Forest, Land and Agriculture (FLAG) is the world’s first standard method for companies in land-intensive sectors to set science-based targets that include land-based emission reductions and removals	SBTi
GHG	<ul style="list-style-type: none">Greenhouse gas (GHG) based on the corporate standard, Greenhouse Gas Protocol, covers the accounting and reporting of seven greenhouse gases that are carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), hydrofluorocarbons (HFCs), perfluorocarbons (PCFs), sulphur hexafluoride (SF₆) and nitrogen trifluoride (NF₃).	Greenhouse Gas Protocol
Global Reporting Initiative (GRI)	<ul style="list-style-type: none">Global Reporting Initiative is a global leader for sustainability reporting standards (GRI).	GRI
Long-term	<ul style="list-style-type: none">Long term targets cover more than 10 years from the date of submission. CPF committed the long-term targets by 2050.	SBTi
Manufacturing Execution System (MES)	<ul style="list-style-type: none">Tracks and controls production processes, optimizing efficiency and data-driven decision-making. It is essential for regulated industries ensuring compliance, traceability, and product recall capability.	SAP
Near-term	<ul style="list-style-type: none">Near-term targets must cover a minimum of 5 years and a maximum of 10 years from the date the target is submitted to the SBTi for validation. Since CPF submitted the base year of 2020, our near-term targets are by 2030.	SBTi
Non-FLAG	<ul style="list-style-type: none">“Non-FLAG” target covers all of the company's other fossil-based emissions	South Pole

คำย่อ	รายละเอียด	แหล่งข้อมูลอ้างอิง
RE100	<ul style="list-style-type: none">The use of 100% electricity from renewable energy sources.	<u>CLIMATE GROUP RE100</u>
Refuse Derived Fuel (RDF)	<ul style="list-style-type: none">A type of fuel obtained by modifying both the chemical and physical properties of waste materials.	<u>Willshee's</u>
Renewable Energy Certificate (REC)	<ul style="list-style-type: none">A certificate that represents the generation of 1 megawatt-hour of clean energy.	<u>The International REC Standard</u>
SAP Analytics Cloud (SAC)	<ul style="list-style-type: none">Combines AI-driven insights, mission-critical analytics, and unified planning to automate reporting, enhance decision-making, and integrate financial, supply chain, and operational planning.	<u>SAP</u>
SBT	<ul style="list-style-type: none">Science Based Targets	
SBTi	<ul style="list-style-type: none">The Science Based Targets initiative (SBTi) drives ambitious climate action in the private sectorby enabling organizations to set science-based emissions reduction targets	<u>SBTi</u>
Sustainability Footprint Management (SFM)	<ul style="list-style-type: none">Utilize an ERP-centric cloud solution to measure, manage, and integrate detailed carbon footprint insights into business processes, ensuring transparency and efficiency.	<u>SAP</u>
Sustainability Control Tower (SCT)	<ul style="list-style-type: none">Capture actual ESG data, report audit-ready metrics, and act on goals with insights, forecasts, and planning embedded in business processes.	<u>SAP</u>
TGO	<ul style="list-style-type: none">Thailand Greenhouse Gas Management Organization	<u>TGO</u>
The Internet of Things (IoT)	<ul style="list-style-type: none">The Internet of Things (IoT) refers to a network of physical devices, vehicles, appliances and other physical objects that allows them to collect and share data.	<u>IBM</u>



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