CPI
GHG Report
2023

SUSTAINABILITY STRATEGY

RICE BUSINESS TRANSPORTATION AND SERVICE

Sustainability readiness

Q1.1 What is your overall attitude/ awareness of the drive towards sustainability?

CPG 2030 Sustainability Goals

CPG 2030 Sustainability Strategy Framework

To be a leading tech and innovation conglomerate, providing food for body and mind that creates shared value and brings health and well-being for all

Three-Benefit Principle

Sufficiency Economy Philosophy	C.P. Excellence Management Approach	The 10 UNGC Principles 17 UN SDGs & UNGP	Regulations and Standards

Heart: Living Right	Health: Living Well	Home: Living Together
CORPORATE GOVERNANCE	HEALTH & WELL-BEING	CLIMATE RESILIENCE
HUMAN RIGHTS & LABOR PRACTICES	SOCIAL IMPACT	CIRCULAR ECONOMY*
EDUCATION & INEQUALITY REDUCTION	INNOVATION	WATER STEWARDSHIP
LEADERSHIP & HUMAN CAPITAL DEVELOPMENT	STAKEHOLDER ENGAGEMENT	ECOSYSTEM & BIODIVERSITY PROTECTION
CYBER SECURITY & DATA PROTECTION*	SAFETY AND OCCUPATIONAL HEALTH	RESPONSIBLE SUPPLY CHAIN MANAGEMENT

Enabled by Partnerships, Capability, and Culture of Sustainability

Note: * New materiality issues

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Q1.2 Has your company made any commitments/ set any goals?

CPI RICE

CPI 2030 SUSTAINABILITY GOALS

Heart: Living Right

CORPORATE GOVERNANCE
100% of businesses implement a corporate governance impact scoring assessment

HUMAN RIGHTS & LABOR PRACTICES
100% of businesses periodically conduct human rights impact assessment in high risk own operations and tier 1 suppliers

EDUCATION & INEQUALITY REDUCTION
100,000 people supported through educational support, lifelong learning, and upskilling

LEADERSHIP & HUMAN CAPITAL DEVELOPMENT
100% employees engaged in sustainability training and initiatives

CYBER SECURITY & DATA PROTECTION
100% of businesses certified on international standard of data security and data privacy

Health: Living Well

HEALTH & WELL-BEING
50% of total sales volume of consumer products and services help promote health and well-being

SOCIAL IMPACT
100,000 farmers jobs supported to generate incomes for small farmers, SMEs and vulnerable groups along our supply chain

INNOVATION
100 Million Baht Cost saving from Process innovation

STAKEHOLDER ENGAGEMENT
80% of multi-stakeholder engagement surveys score positively

OCCUPATIONAL HEALTH & SAFETY
Zero Accident achieve zero lost time injury frequency rate

Home: Living Together

CLIMATE RESILIENCE
Net Zero carbon emissions of organization's operations

CIRCULAR ECONOMY
100% achieve zero food waste from organization's activities and use of sustainable packaging

WATER STEWARDSHIP
10% reduction in water withdrawals per unit revenue compared to baseline year 2020

ECOSYSTEM & BIODIVERSITY PROTECTION
800,000 Rai agriculture area of protection and restoration of land ecosystems in the countries where CPI operates passed sustainability standard cover biodiversity issues

RESPONSIBLE SUPPLY CHAIN MANAGEMENT
100% of high-risk raw materials are traceable and high-risk suppliers audited

SUMMARY OF THE PERFORMANCE 2023

CPI RICE

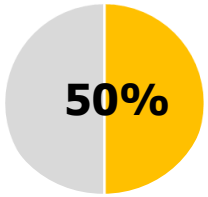
HEART: LIVING RIGHT

CORPORATE GOVERNANCE
PERCENTAGE OF BUSINESS ASSESSED ON CG PRACTICES. (ETHISPHERE)

HUMAN RIGHTS & LABOR PRACTICES
PERCENTAGE OF BUSINESS WITH HUMAN RIGHTS IMPACT ASSESSMENT.

EDUCATION & INEQUALITY REDUCTION
SUPPORT 19,903 CHILDREN, YOUTHS, AND ADULTS WILL GAIN ACCESS TO EDUCATION AND NECESSARY SKILLS DEVELOPMENT.

LEADERSHIP & HUMAN CAPITAL DEVELOPMENT
PERCENTAGE OF EMPLOYEES ENGAGED IN LEARNING AND INITIATIVES



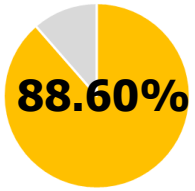
CYBER SECURITY & DATA PROTECTION
PERCENTAGE OF BUSINESS WITH CERTIFIED INTERNATIONAL STANDARD

HEALTH: LIVING WELL

HEALTH & WELL-BEING
ALL PRODUCTS ARE CERTIFIED FOR FOOD SAFETY, GHPS, BRC

SOCIAL IMPACT AND ECONOMIC CONTRIBUTION
IMPROVED EMPLOYMENT PROSPECTS AND QUALITY OF LIFE FOR 20,158 FARMERS AND VULNERABLE GROUPS

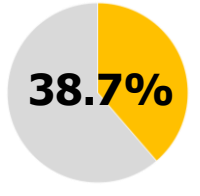
OCCUPATIONAL HEALTH & SAFETY
ZERO ACCIDENT



INNOVATION MANAGEMENT
SAVING FROM INNOVATION PROJECTS. INCREASE EFFICIENCY AND REDUCE COSTS, INCREASE 88.60 MILLION BAHT FROM THE GOAL OF 100 MILLION BAHT.

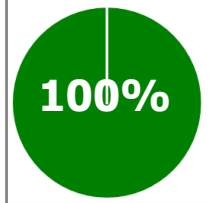
STAKEHOLDER ENGAGEMENT
90% ENGAGEMENT SCORE OF MULTI-STAKEHOLDER PERCEPTION SURVEY

HOME: LIVING TOGETHER

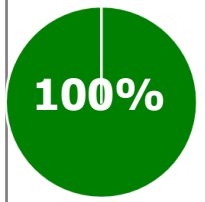


CLIMATE RESILIENCE
AMOUNT OF GREENHOUSE GAS EMISSIONS PER REVENUE REDUCTION BY 6.24% IN BASE YEAR 2020.

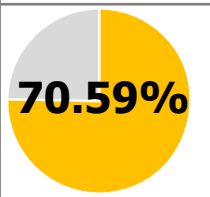
CIRCULAR ECONOMY
90% OF ALL PLASTIC PACKAGING ARE RECYCLABLE, REUSABLE OR COMPOSTABLE



WATER STEWARDSHIP
23.68 % REDUCTION IN WATER WITHDRAWAL PER UNIT REVENUE COMPARED TO BASELINE YEAR 2020.



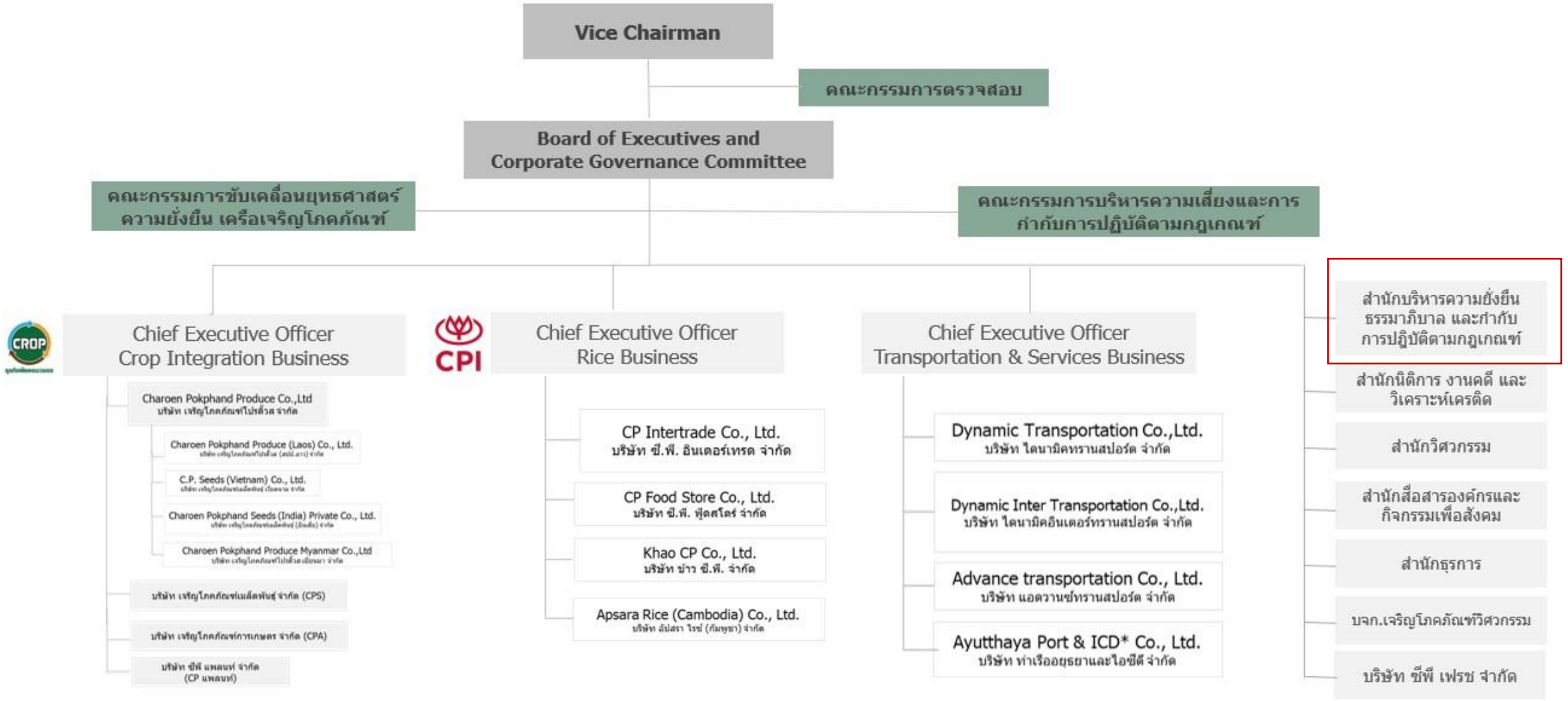
ECOSYSTEM AND BIODIVERSITY PROTECTION
PROTECTED AND RESTORED TERRESTRIAL ECOSYSTEMS 94,153 RAI FROM TARGET 80,000 RAI.



RESPONSIBLE SUPPLY CHAIN MANAGEMENT
SUSTAINABILITY AUDIT WITH 24 HIGH-RISK SUPPLIER FROM 37 SUPPLIER

Q1.3 Specific ESG questions:
-Do you have an ESG department? Any plan to create one?

Yes, company have ESG department. "Sustainability Governance and Compliance Office"



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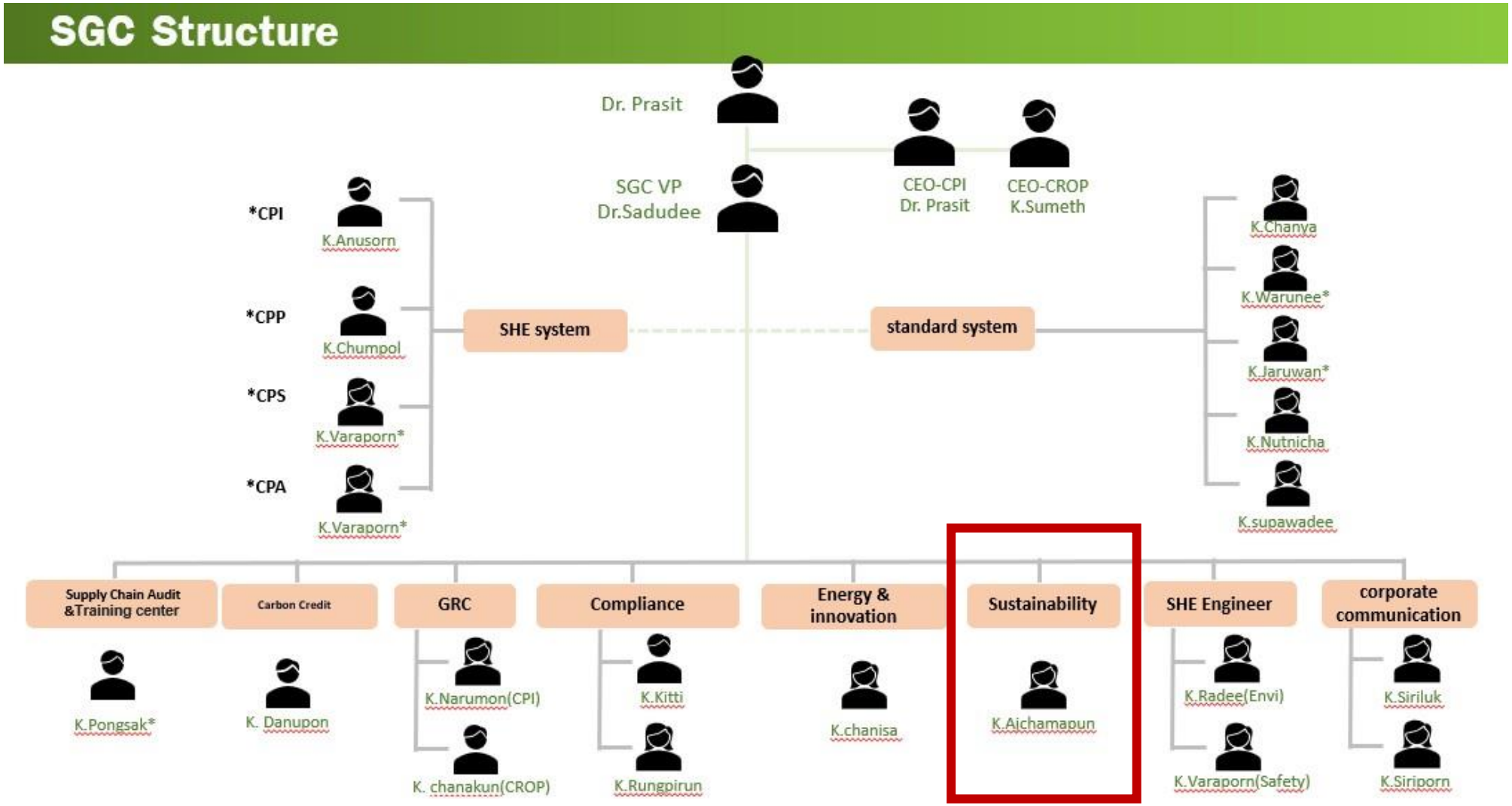


Q1.3 Specific ESG questions:
- In the past, have other customers approached you for ESG related questions?

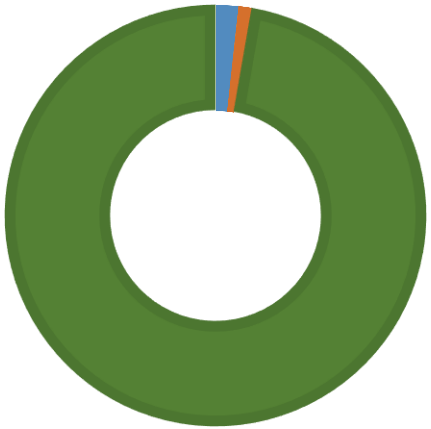
Yes, have many supplier.

- COSTCO
- WALMART
- THAI BEV
- UNILEVER

Q1.3 Specific ESG questions:
- Do you track your greenhouse gas emissions (Scope 1, 2, or 3)? Any plans to do so?

Greenhouse Gas Emissions Classified by Scope 1+2 and 3

1,908,105.04 Tons CO_2eq

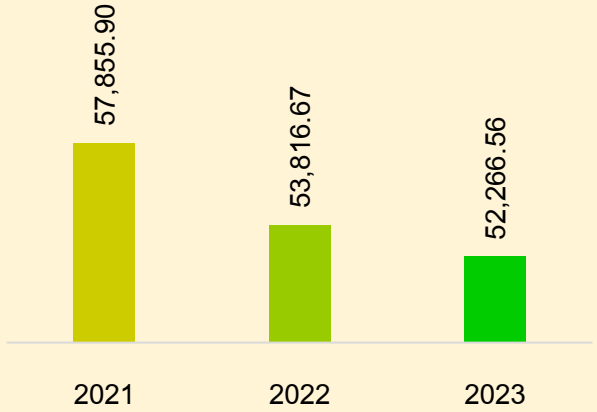


Scope 1	32,196.55	1.69%
Scope 2	20,070.01	1.05%
Scope 3	1,855,838.48	97.26%

Greenhouse Gas Emissions (Scope 1+2)

52,266.56

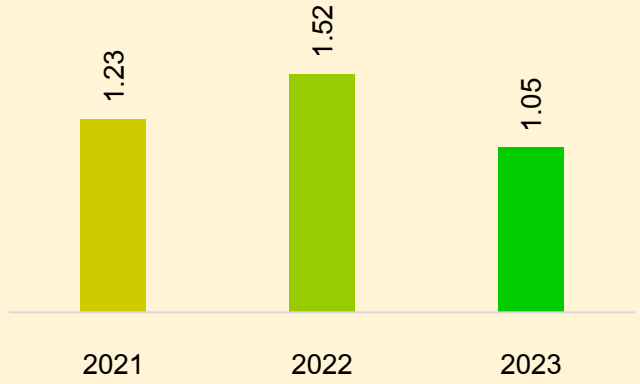
tons CO_2eq



Greenhouse Gas Emissions to Revenue

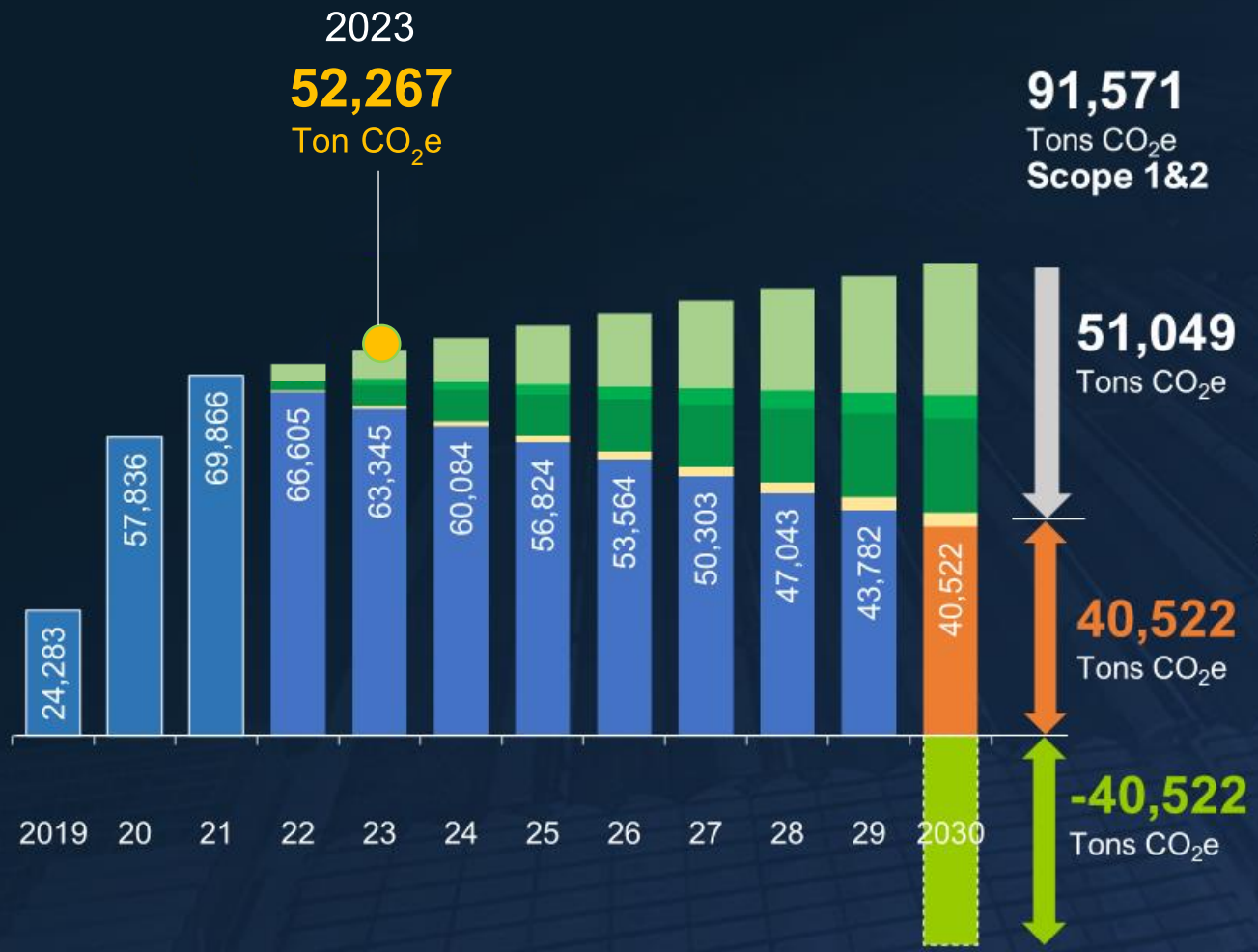
1.05

tons CO_2eq / Million Baht



Neutral 2030 (Scope 1&2)

ต้องลดการปล่อยก๊าซเรือนกระจก 91,571 ตัน CO_2e



GHG Reduction	Tons CO_2e	%
Solar Energy	25,524	20%
Energy Efficiency	18,232	17%
Biomass / Biogas	4,558	5%
Green Transportation	2,735	3%
า Carbon Credit	40,522	

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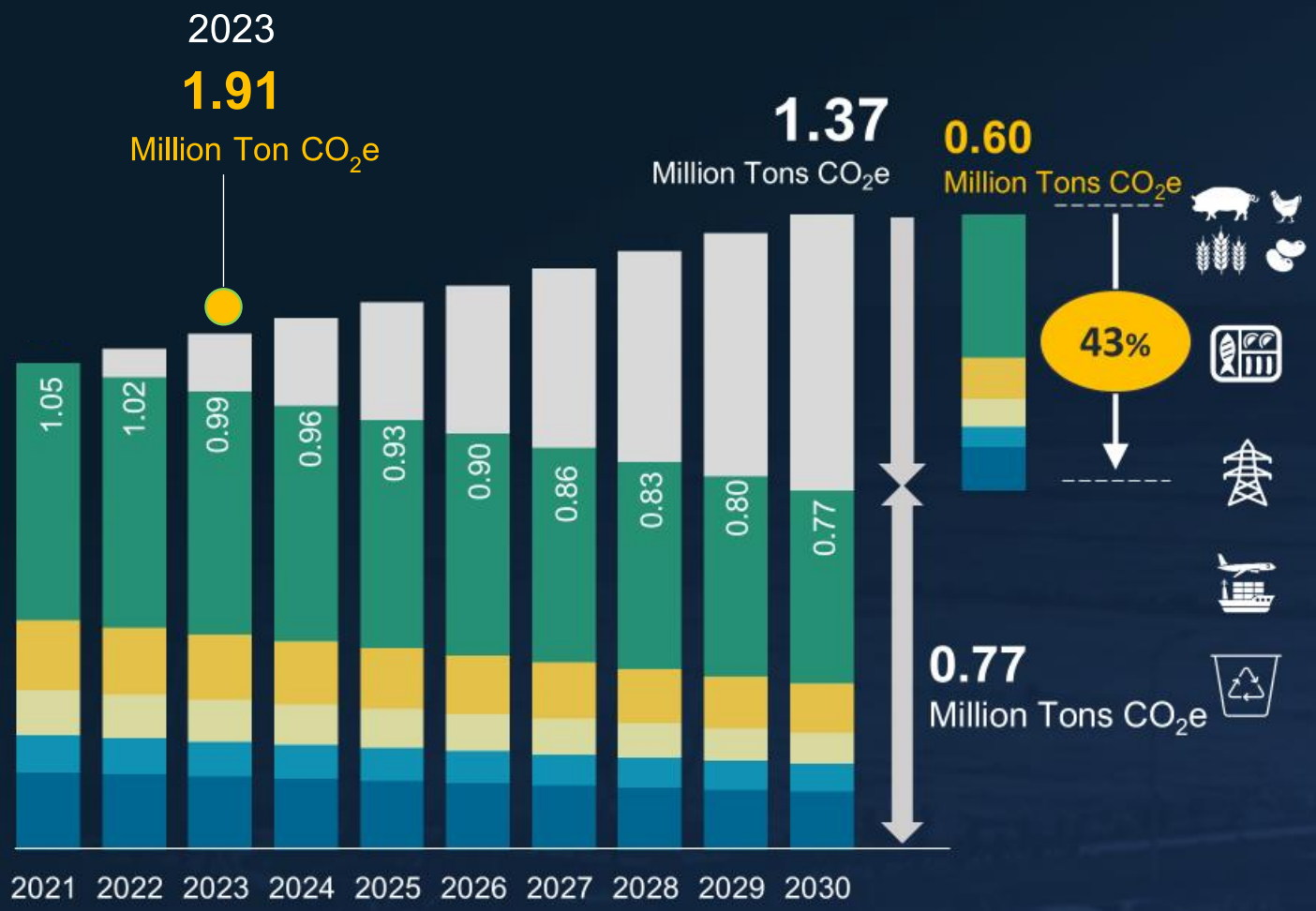
Zero 2030 (Scope 1, 2, 3)

ต้องลดการปล่อยก๊าซเรือนกระจก **0.60** ล้านตัน CO_2e



GHG Reduction	MillionTon CO_2e	%
Sourcing Low-Carbon Raw Materials	0.31	22%
Low Carbon Product Development	0.09	7%
Renewable Energy & Energy Efficiency	0.09	6%
Green Transportation	0.06	4%
Zero Waste, Sustainable Packaging, etc.	0.04	3%
Total GHG Reduction	**0.60**	**43%**

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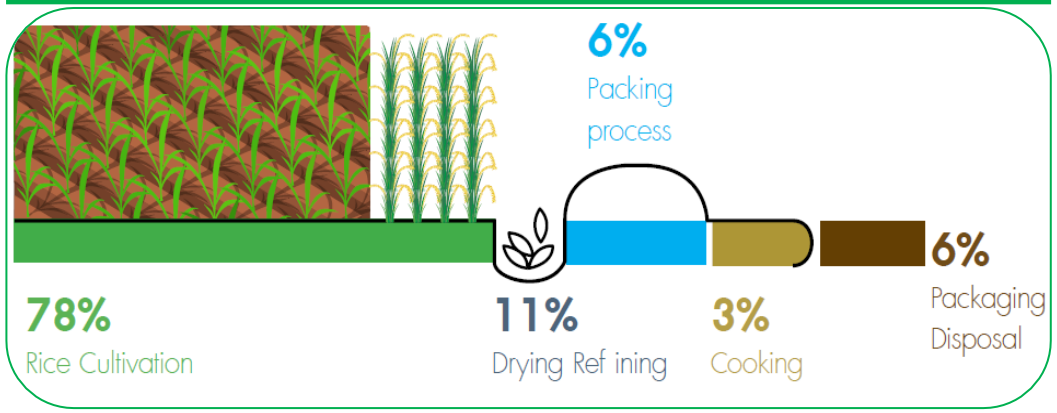
STRATEGY

Reduce Methane in Rice Field

CPI TRADING

Greenhouse gas emissions in the rice process



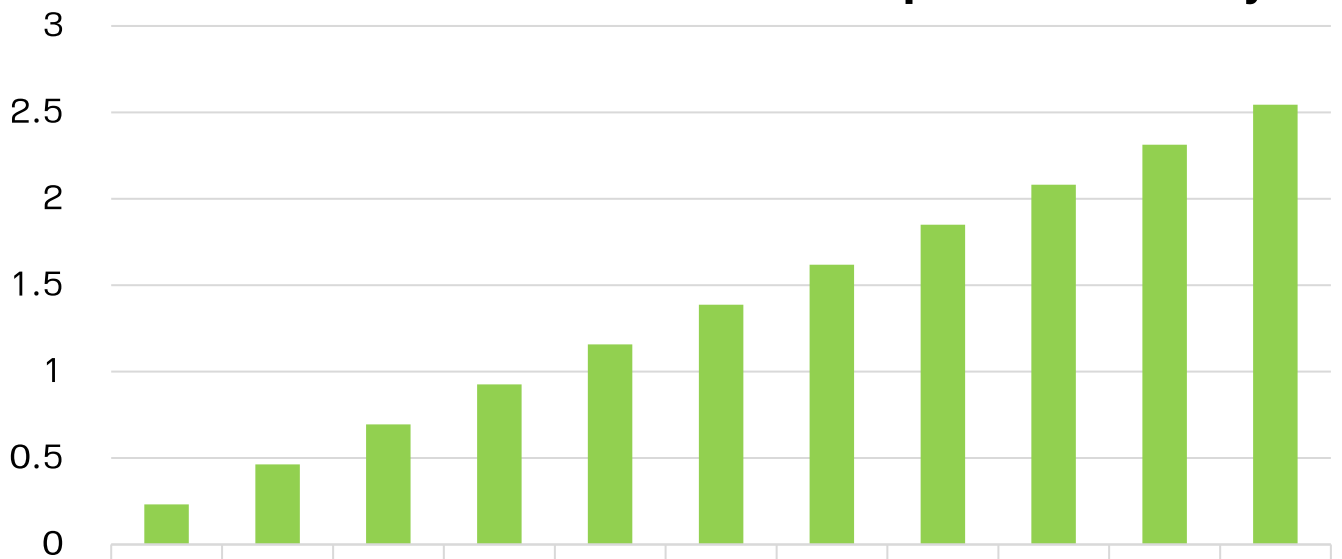
- Methane Sequestration in the soil
- Nutrient Management

190,198 Rai

Paddy field that promotes

2020-2030

Increased Sequestration 1%/year



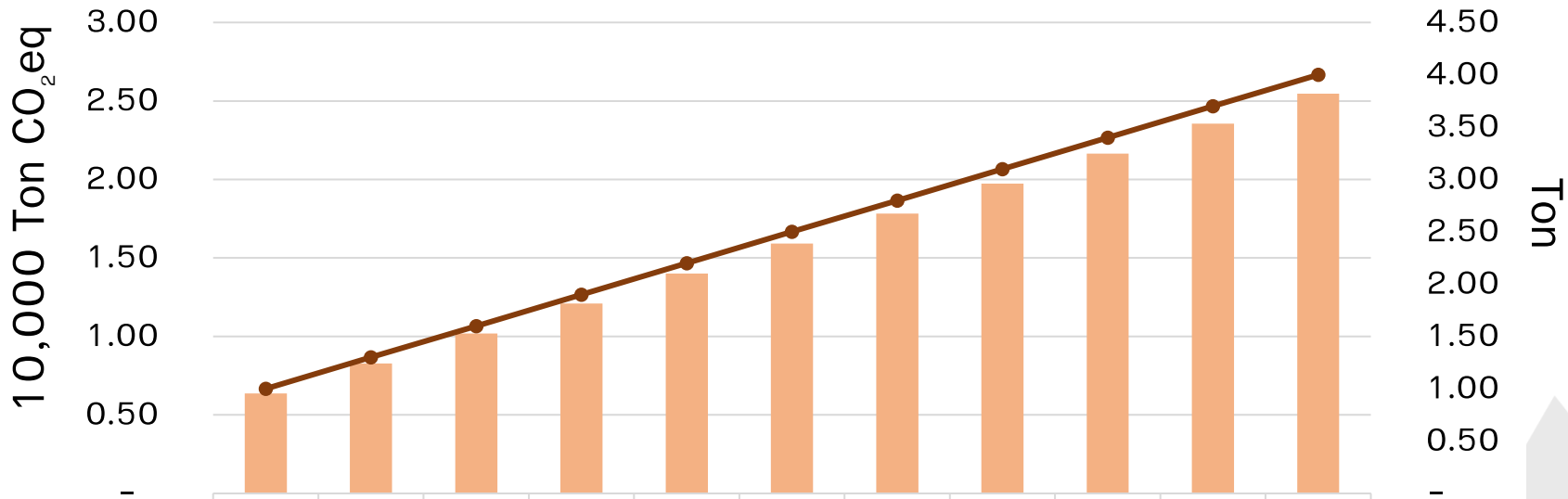
	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Carbon Sequestration	0.231	0.463	0.694	0.925	1.157	1.388	1.619	1.851	2.082	2.314	2.545

Reference; PCR, IPCC 2007

STRATEGY

Increase the potential of transportation from land to water

Ayutthaya Port & ICD Co., Ltd.



	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
GHG Reduction	0.64	0.83	1.02	1.21	1.40	1.59	1.78	1.97	2.17	2.36	2.55
ton	1.00	1.30	1.60	1.90	2.20	2.50	2.80	3.10	3.40	3.70	4.00

In case, Max capacity (8M ton)

GHG Reduction = 50,900 tonCO_2

Net Carbon Emission = -22,000 tonCO_2 (For Sell)

Emission factor

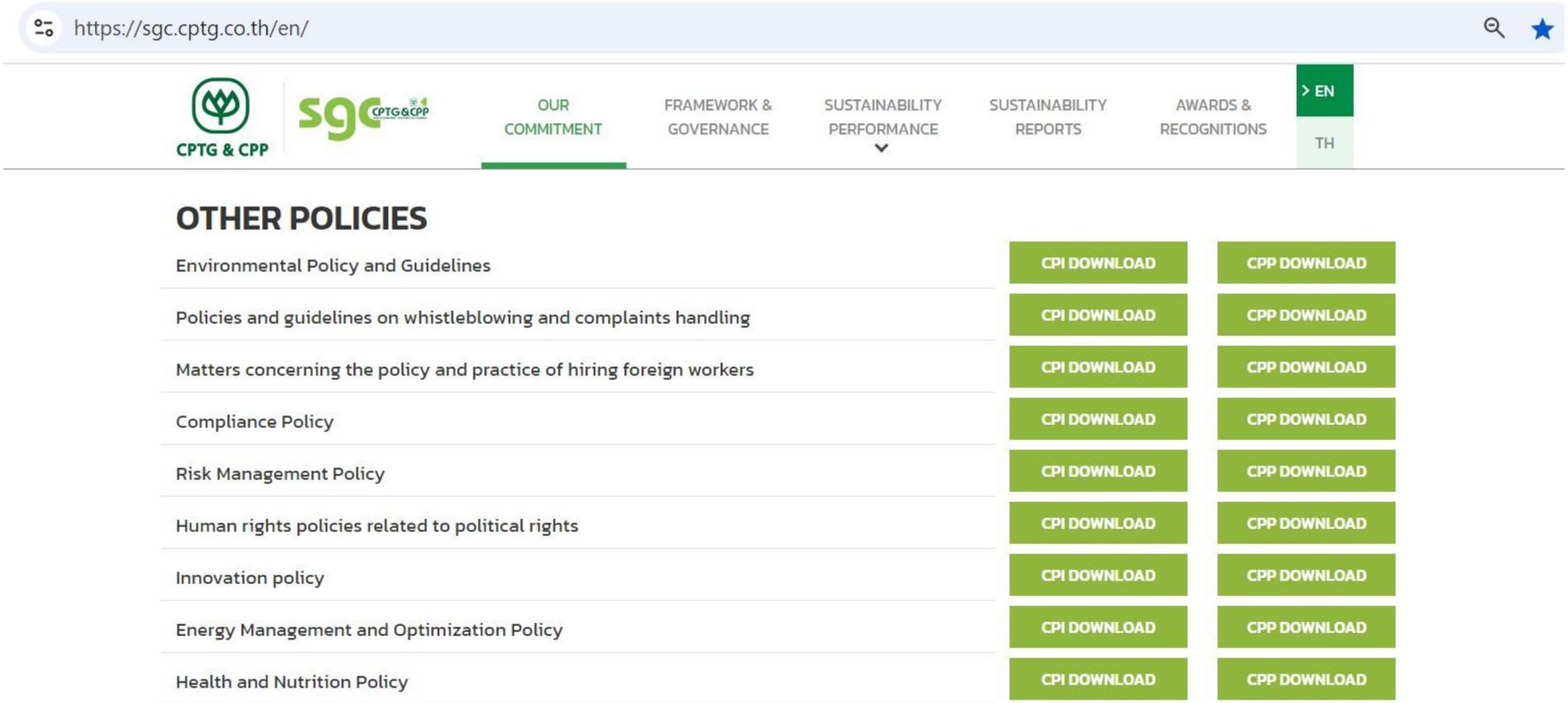
Ship = 0.0107 kgCO_2/tkm

Truck = 0.0404 kgCO_2/tkm

Reference; Ecoinvent 2.2, IPCC 2007 GWP 100a

Q1.3 Specific ESG questions:
-Any no-deforestation/ plastic reduction/ other commitments?

Consider sustainable policy at **“ https://sgc.cptg.co.th/en/ ”**

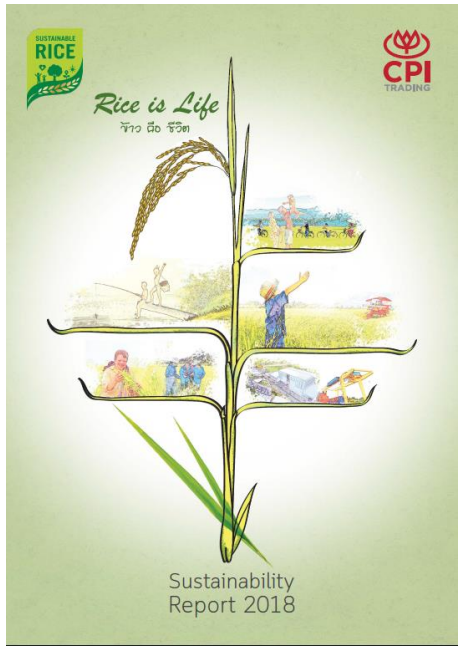


Q1.3 Specific ESG questions:
- Any sustainability initiatives that are ongoing/ planned/ were implemented in the past?

Asia's Best Sustainability Report (First Time) Level "Gold" 2019

FROM >> CSR Works International and partner organizations

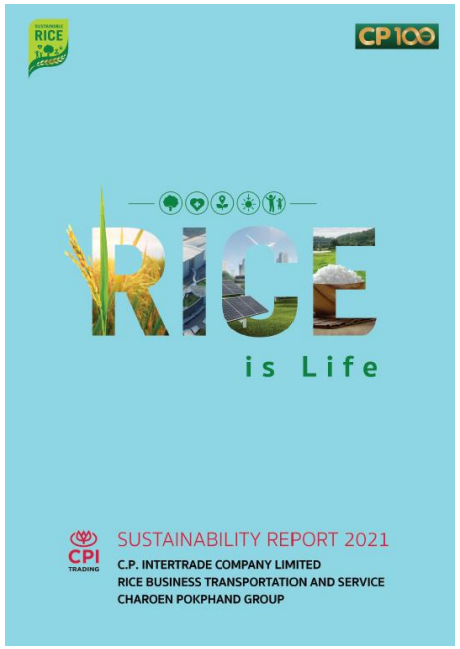
Sustainability Report



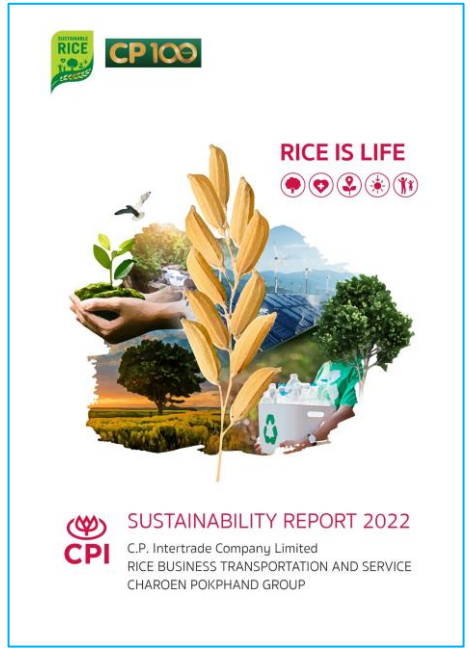
Report 2018

Report 2019

Report 2020



Report 2021



Report 2022

HEART : LIVING RIGHT

TARGET : CPI TO WORLD SUSTAINABILITY RANKING

CORPORATE GOVERNANCE IS AN IMPORTANT FOUNDATION FOR ACHIEVING SUSTAINABLE GROWTH IN A BUSINESS. C.P. INTERTRADE HAS IMPLEMENTED A CORPORATE GOVERNANCE SYSTEM TO PROMOTE AND ENSURE COMPLIANCE IN THE FOLLOWING AREAS: CORPORATE GOVERNANCE PRINCIPLES, BUSINESS CODE OF CONDUCT, POLICIES AND ETHICAL BEST PRACTICES, AND SUPPLIER CODE OF CONDUCT, ALL OF WHICH ARE RELATED TO LAWS, SOCIAL NORMS, AND CORPORATE REGULATIONS IN THE VALUE CHAIN.

THESE PRINCIPLES ALSO RESPECT HUMAN RIGHTS AND LABOR PRACTICES WITHIN OUR ORGANIZATION. WE ALSO FOCUS ON HUMAN CAPITAL AND LEADERSHIP DEVELOPMENT, AS WELL AS STAKEHOLDER ENGAGEMENT TO PROMOTE EFFICIENCY WITHIN OUR ORGANIZATION. SUCH ACTIVITIES ARE CRUCIAL TO OUR SUCCESS AND FOR CONTINUALLY BUILDING THE LEVEL OF TRUST IN CP INTERTRADE CONSISTED OF;

GOVERNANCE STANDARDS (ETHISPHERE)

LABOR STANDARDS

- INTERNAL HI-PO TALENT
- LEADERSHIP DEVELOPMENT
- MANAGERIAL DEVELOPMENT

CORPORATE GOVERNANCE	HUMAN RIGHTS & LABOR PRACTICES	EDUCATION & INEQUALITY REDUCTION	LEADERSHIP & HUMAN CAPITAL DEVELOPMENT	CYBER SECURITY & DATA PROTECTION

SUSTAINABILITY AGRICULTURE

KCP RICE PRODUCTION PRACTICE

PARTICIPATED WITH GLOBAL RICE SUSTAINABILITY PROGRAM

fsa Farm Sustainability Assessment BY SAI PLATFORM

SAI PLATFORM

USDA ORGANIC

KHAO C.P. SUSTAINABILITY

SUSTAINABLE RICE

THE AGRICULTURAL SECTOR IS STILL AN INTEGRAL PART OF THE ECONOMIES OF THAILAND AND MANY OTHER COUNTRIES AROUND THE WORLD, AS IT IS RELEVANT TO THE LIVELIHOOD OF MANY PEOPLE. YET, MOST FARMERS ARE STILL IN POVERTY DUE TO THE LACK OF CAPITAL, KNOWLEDGE, TECHNOLOGY, AND ACCESS TO MARKETS. MEANWHILE, C.P. INTERTRADE HAS THE RESOURCES AND CAN COLLABORATE WITH RELEVANT PARTIES IN ORDER TO IMPROVE THE FARMERS' QUALITY OF LIFE, ESPECIALLY TO ERADICATE POVERTY AS PART OF ADDRESSING GOAL 1 OF THE SDGS.

CP INTERTRADE HOLISTIC OPERATIONS SEEK TO SUPPORT FARMERS BY DEVELOPING THEIR SKILLS AND ENHANCING THEIR LAND MANAGEMENT CAPABILITY. OUR OPERATIONS PRIORITIZE PROGRAMS THAT CAN CREATE ECONOMIC, SOCIAL, AND ENVIRONMENTAL VALUES AND ALIGN WITH THE FOUR-IN-ONE APPROACH COMPRISING THE PUBLIC SECTOR, PRIVATE SECTOR, FINANCIAL INSTITUTIONS, AND FARMERS. WE ALSO SUPPORT THE LEGISLATION OF CONTRACT FARMING AND OTHER INTEGRATED PROJECTS TO ENSURE SELF-SUFFICIENCY AND SUSTAINABILITY FOR FARMERS.

TARGET:

SUPPORTED TO GENERATE INCOMES

FOR FARMERS AND VULNERABLE GROUPS ALONG OUR SUPPLY CHAIN

15,000 FARMER — 2021

50,000 FARMER — 2025

100,000 FARMER — 2030

HOME : LIVING TOGETHER

CP INTERTRADE RECOGNIZING THE URGENCY OF ACTION ON SUSTAINABLE DEVELOPMENT HAPPENING AROUND THE WORLD. OUR BUSINESS GROUP IS **COMMITTED TO OPERATING IN ACCORDANCE WITH THE PARIS AGREEMENT. TO LIMIT GLOBAL TEMPERATURE, RISE TO NO MORE THAN 1.5 DEGREES CELSIUS ABOVE PRE-INDUSTRIAL LEVELS** AND SET LONG-TERM TARGETS FOR GLOBAL GREENHOUSE GAS EMISSIONS BOTH THE VALUE CHAIN WILL BE ZERO BY 2050, COUPLED WITH SETTING SCIENTIFIC GOALS OR SCIENCE BASED TARGETS IN ALL RELEVANT AREAS.

CPI NET ZERO TARGETS

NET ZERO CO_2 Scope 1&2

NET ZERO CO_2 Scope 1,2,3

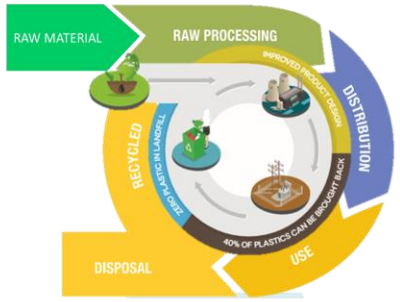
SCOPE 1: DIRECT EMISSIONS
SCOPE 2: INDIRECT EMISSIONS FROM PURCHASED ELECTRICITY, HEAT
SCOPE 3: INDIRECT EMISSIONS FROM UPSTREAM ACTIVITIES

2020	2030	2040	2050

CARBON FOOTPRINT

WATER FOOTPRINT

SUSTAINABILITY PACKAGING



GREEN SUPPLY CHAIN

THIS IS IN LINE WITH THE CRITERIA AND RECOMMENDATIONS OF THE SCIENCE BASED TARGETS INITIATIVE (SBTI). IT ALSO **AIMS TO REDUCE GREENHOUSE GAS EMISSIONS PER UNIT OF REVENUE BY 10% IN 2022** COMPARED TO THE BASE YEAR 2020 BY DEFINING ACTION GUIDELINES TO **BEING A ZERO EMISSIONS ORGANIZATION SCOPE 1,2 IN 2030 AND ZERO EMISSIONS ORGANIZATION SCOPE 1,2,3 IN 2050**

Q1.3 Specific ESG questions:
- Would you be interested in partnering with DFI on sustainability? If not, why?

Yes, Company interested in partnering with DFI on sustainability.

Lever evaluation and overall capabilities

Q2.1 Have you thought of/ planned implemented any of these levers? How realistic do you think this lever is?

- Do you have any visibility on what method of rice farming your farmers deploy? (irrigation methods, seeding preference) // Are you in close contact with local distributors to engage them as well?

VERTICAL RICE INTEGRATION

PROJECT 32: TRACEABILITY

GOAL :

from farm to table 100% traceability

Driving Force :

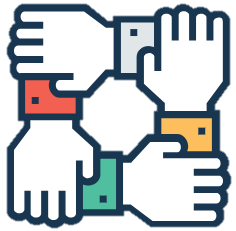
Sustainable Value Chain

1. PLANNING
2. UNDER DEVELOPMENT
3. EXECUTE
4. AGAINST KPI
5. ACHIEVEMENT

CURRENT STATUS

KEY STRATEGY:

[STRATEGY 1: Synergy Traceability system entire Value Chain]



Connect the traceability system of Charoen Pokphand Group products throughout the value chain.

[STRATEGY 2 : Set Pilot Project-expansion]

Prototype a comprehensive traceability process throughout the value chain.

[STRATEGY 3 : Multi Platform Integration]

Collecting/improving/developing traceability programs that can be connected to the whole group and provide information to customers.

KPI & TARGET

KPI	FY19	FY20
Product prioritize	100%	100%
Role model of BU	90%	100%
Analyze and platform integration	90%	100%

TECHNOLOGY & INVESTMENT :

- F2F
- Block chain

PROJECT PARTNERS :

CHIA TAI · C.P GROUP · CPF · CP · CPALL · CPP · CP LAND · CPI TRADING · makro คู่คิดธุรกิจคุณ · true · 7 ELEVEN · CHESTER'S GRILL

PROJECT 32: TRACEABILITY

GOAL :

- Sustainable Value Chain
- Support CPG Traceability's Goal

Driving Force :

- Sustainable Value Chain
- Customer demand

1. PLANNING
2. UNDER DEVELOPMENT
3. EXECUTE
4. AGAINST KPI
5. ACHIEVEMENT

CURRENT STATUS

KEY STRATEGY:

[STRATEGY 1: Upstream Raw material Development Program]

Two-way data linkage management technology from the level of cultivation, production, transportation, distribution points, as well as products to consumers.

[STRATEGY 2 : Sustainable Rice Strategy]

Improving the quality of life of farmers with the production standards of industrial agricultural products (Sustainable Agriculture: Economy/Society/Environment)

[STRATEGY 3 : 3rd party Verification by TUVNORD]

Verification and certification of trace by external agencies.

KPI & TARGET

KPI	FY19	FY20
IT System of Traceability	100%	-
Input Farmer data	100%	100%
Complete 3rd party verification	100%	100%

TECHNOLOGY & INVESTMENT :

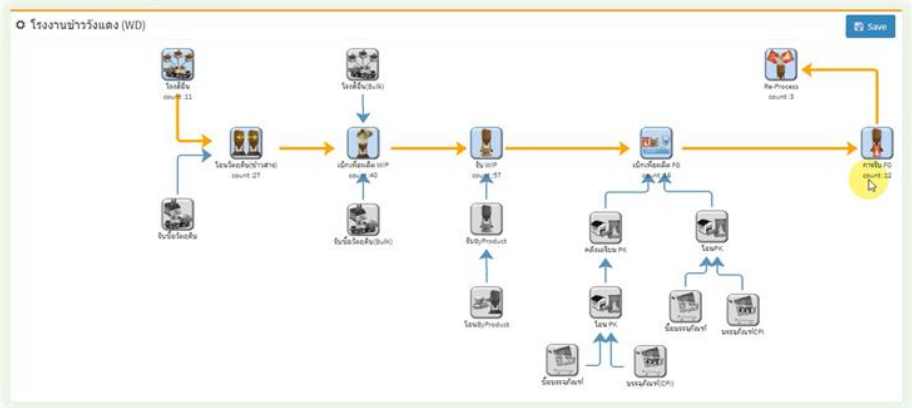
- F2F
- Crop INN
- Internal Control System
- Third Party Verification

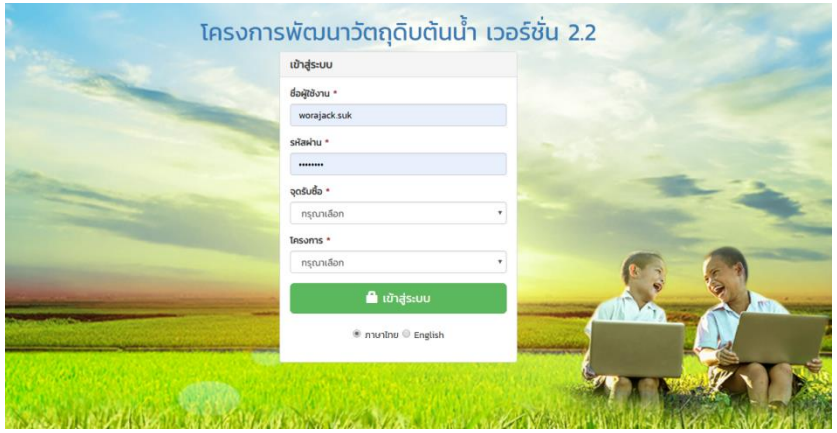
PROJECT PARTNERS :

IT
URD
CSO
TUVNORD / Control Union

[STRATEGY 1: Upstream Raw material Development Program]

F2F program





กระบวนการจัดซื้อ

กระบวนการแปรรูปข้าว

FG

- T/O number
- Production number

SAP >>>

โรงปรับปรุงคุณภาพข้าว

- Production Order
- Batch

SAP >>>

โรงสีข้าว

- Production Order
- Batch

SAP >>>

URD System >>> Queuing System

URD System >>>

โรงสีข้าว

URD System >>>

URD System >>>

ท่าข้าว

- Purchase Order number

แหล่งรับซื้อ

URD System >>>

- Membership data

[STRATEGY 2: Sustainable Rice Strategy]

SUSTAINABLE RICE

3rd party verification

TÜV NORD

USDA ORGANIC

EU Organic

GLOBALG.A.P.
The Global Partnership for Good Agricultural Practice

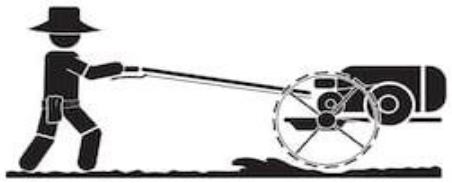
fsa Farm Sustainability Assessment BY SAI PLATFORM

SAI PLATFORM

Unilever

Organic Thailand

กระทรวงเกษตรและสหกรณ์ กรมวิชาการเกษตร



GOOD AGRICULTURAL PRACTICE : GAP PLUS

Q2.1 Have you thought of/ planned implemented any of these levers? How realistic do you think this lever is?

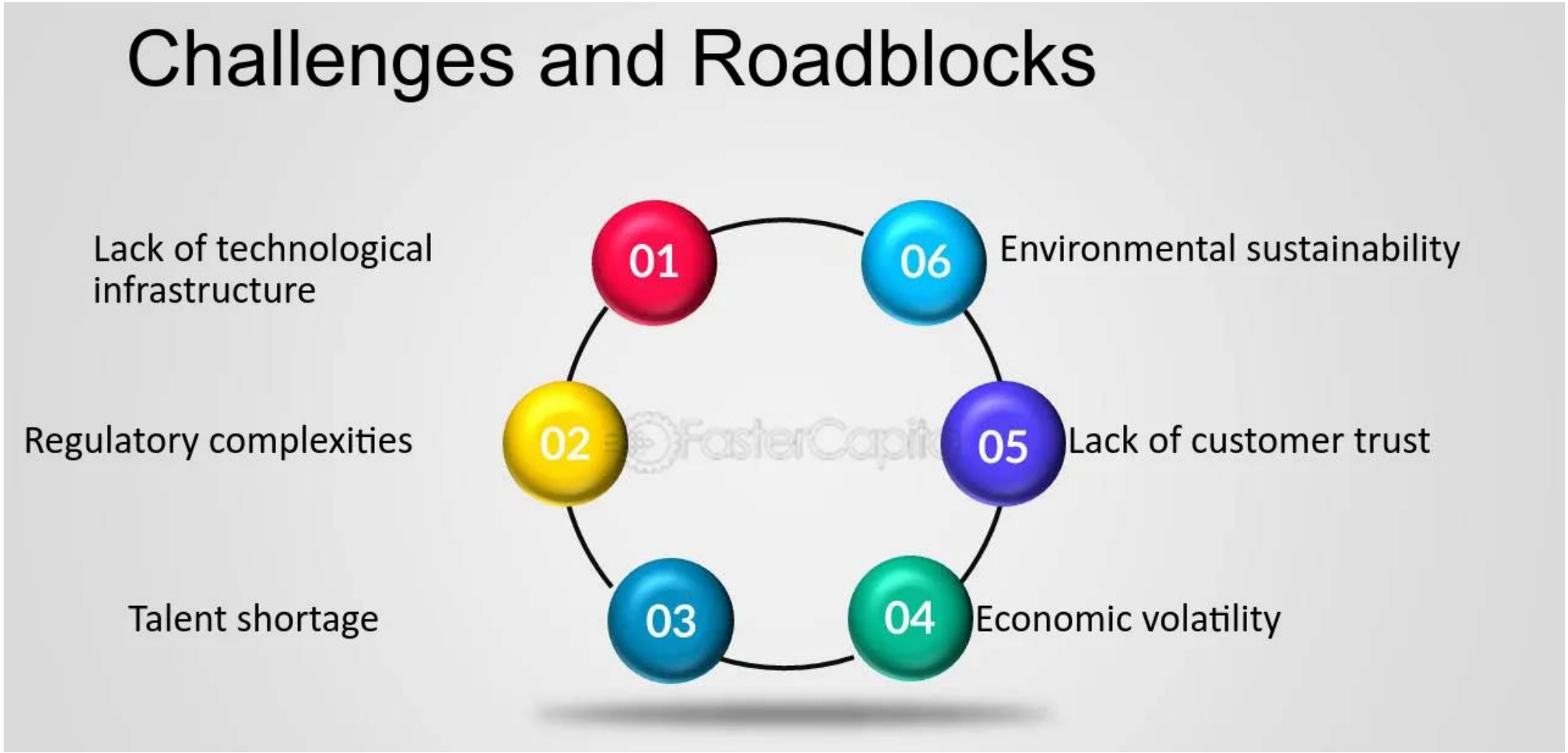
- Do you host workshops/ sessions with farmers on the ground?

Q2.1 Have you thought of/ planned implemented any of these levers? How realistic do you think this lever is?

- Are you up-to-date with incentives and policies on agriculture that government departments are piloting? Do you share information with your upstream distributors/ farmers? Some of the levers mentioned already receive gov support.

- We support a 50% discount on agricultural production factors for farmers and we give an additional 250 baht per tons.

Q2.2 What are the roadblocks that are prohibiting a push towards sustainability?



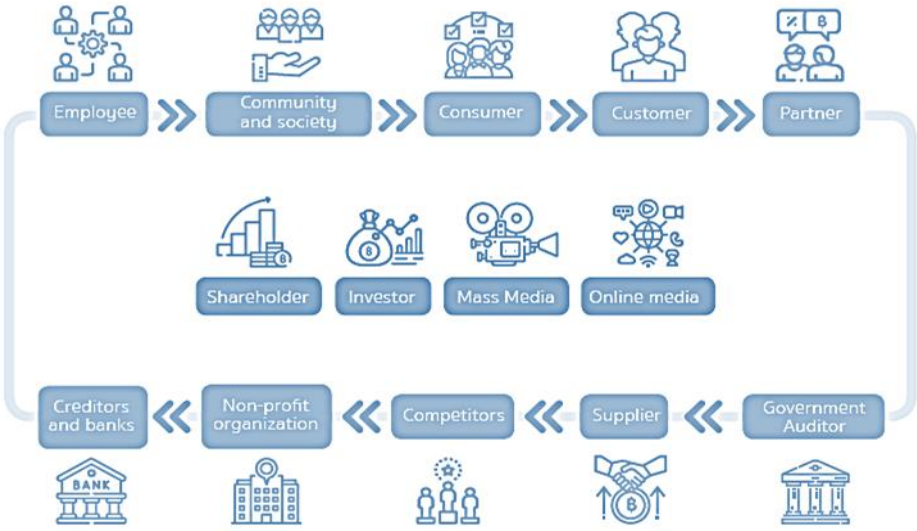
Q2.3 What would it take for you to drive sustainability? (e.g., resources, knowledge)

RESOURCES

Global Reporting Initiative™
GRI TRAINING PARTNER 2024

KNOWLEDGE

TECHNOLOGY



STAKEHOLDER

Q2.4 What might the implementation timeline for this lever look like? How many months would it require?

CPI RICE

CPI 2030 SUSTAINABILITY GOALS

Heart: Living Right

CORPORATE GOVERNANCE
100% of businesses implement a corporate governance impact scoring assessment

HUMAN RIGHTS & LABOR PRACTICES
100% of businesses periodically conduct human rights impact assessment in high risk own operations and tier 1 suppliers

EDUCATION & INEQUALITY REDUCTION
100,000 people supported through educational support, lifelong learning, and upskilling

LEADERSHIP & HUMAN CAPITAL DEVELOPMENT
100% employees engaged in sustainability training and initiatives

CYBER SECURITY & DATA PROTECTION
100% of businesses certified on international standard of data security and data privacy

Health: Living Well

HEALTH & WELL-BEING
50% of total sales volume of consumer products and services help promote health and well-being

SOCIAL IMPACT
100,000 farmers jobs supported to generate incomes for small farmers, SMEs and vulnerable groups along our supply chain

INNOVATION
100 Million Baht Cost saving from Process innovation

STAKEHOLDER ENGAGEMENT
80% of multi-stakeholder engagement surveys score positively

OCCUPATIONAL HEALTH & SAFETY
Zero Accident achieve zero lost time injury frequency rate

Home: Living Together

CLIMATE RESILIENCE
Net Zero carbon emissions of organization's operations

CIRCULAR ECONOMY
100% achieve zero food waste from organization's activities and use of sustainable packaging

WATER STEWARDSHIP
10% reduction in water withdrawals per unit revenue compared to baseline year 2020

ECOSYSTEM & BIODIVERSITY PROTECTION
800,000 Rai agriculture area of protection and restoration of land ecosystems in the countries where CPI operates passed sustainability standard cover biodiversity issues

RESPONSIBLE SUPPLY CHAIN MANAGEMENT
100% of high-risk raw materials are traceable and high-risk suppliers audited

CPI SUSTAINABILITY GOALS

CPI TRADING

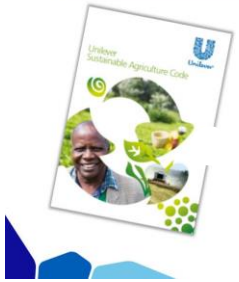
HEART: LIVING RIGHT

CUSTOMER

WORKING TOGETHER IN PARTNERSHIP

Unilever Self Assessment

Industry Wide Standards



SAI PLATFORM

Field to Market
The Alliance for Sustainable Agriculture

CPI TO **WORLD** SUSTAINABILITY RANKING

Dow Jones Sustainability Indexes

HEALTH: LIVING WELL

SUSTAINABILITY AGRICULTURE

In 4 Country :

Thai, Myanmar, Vietnam, Cambodia

Self Claim
: KHAO C.P. Sustainability

Key Stakeholder Audit
: Sustainability Agriculture Code

Global Audit
: Sustainability Rice Platform

SUSTAINABILITY SOCIAL

Sedex®

BUSINESS SOCIAL COMPLIANCE INITIATIVE
BSCI
www.bsci-intl.org
Member of BSCI

FAIRTRADE FOUNDATION

HOME: LIVING TOGETHER

SUSTAINABILITY PACKAGING

: Thailand

SUSTAINABLE RICE AND PACKAGING

DOW

ข้าวตราฉัตร

SCGP

SUSTAINABILITY ENVIRONMENTAL

XX

CO2

CARBON FOOTPRINT

WATER FOOTPRINT
SCARCITY

WATER FOOTPRINT

Q2.5 Are there other initiatives you have considered, but perhaps did not implement? Why?

1. We originally tried to develop our Sustainable Agriculture Standard as the KCP Standard, using the SRP Standard as a template. But it turned out to be past. We currently use the FSA Farm Sustainability Assessment standard in our implementation.
2. The development of renewable energy, solar cells, is another approach that is being developed.