



Charoen Pokphand Foods Public Company Limited Sustainability Report 2021





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CPF, a Leading Food Innovation Organization

From Materiality



CPF 2030 Sustainability Goals **Driving Structure**



Self-Sufficient Society

Balance of Nature

CPF at a Glance

The Company operates integrated agro-industrial and food business as follows:

Feed Business

production and distribution of animal feed.



Farm and Processing **Business**

animal breeding, farming and primary meat processing.



Food **Business**

production of semi-cooked and cooked products as well as ready-to-eat meals, and food distribution channels, including restaurants.









Animal Feed Production

developed the feed production innovation along with the environmental care while minimizing any impact on the community. The Company provides support to local agricultural production and puts in place the traceability system for raw materials to enhance transparency and to build trust among stakeholders.

Farming and Processing

Advanced and eco-friendly technology are adopted throughout the farming process while the animal welfare is maintained in accordance with the global standards to deliver safe and quality products in line with the internationally recognized requirements and regulations.

Food Production

Valued addition is constantly enhanced for processed food products and ready-to-eat food with top quality and good nutrition for healthiness at affordable price. Modern innovation is applied to ensure eco-friendliness as well as full traceability throughout the production process.

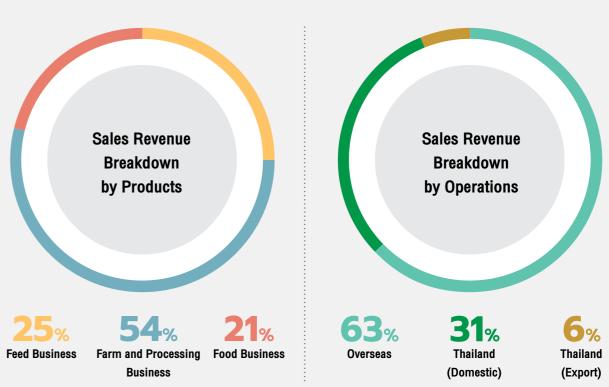
Thailand Operations

Operates an integrated agro-industrial and food business for domestic distribution and export to more than 40 countries around the world.

Ensuring CPF's sustainability with the sales revenue of THB 512,704 million

Ensuring shareholders' sustainability with the dividend^{**} of THB 5,467 million

* Income Tax Paid is from the Statements of cash flows in Consolidated Financial Statements of Charoen Pokphand Foods PCL. (CPF) and its subsidiaries. ** The Board of Directors Meeting on 25th February 2022 reached a consensus to propose to the 1/2022 Annual General Meeting of Shareholders, that a dividend payment for the Company's 2021 performance made to the shareholders at THB 0.65 per share or a total value of THB 5,467 million be considered.



Ensuring the country's sustainability with the tax^{*} amount of THB 8,282 million

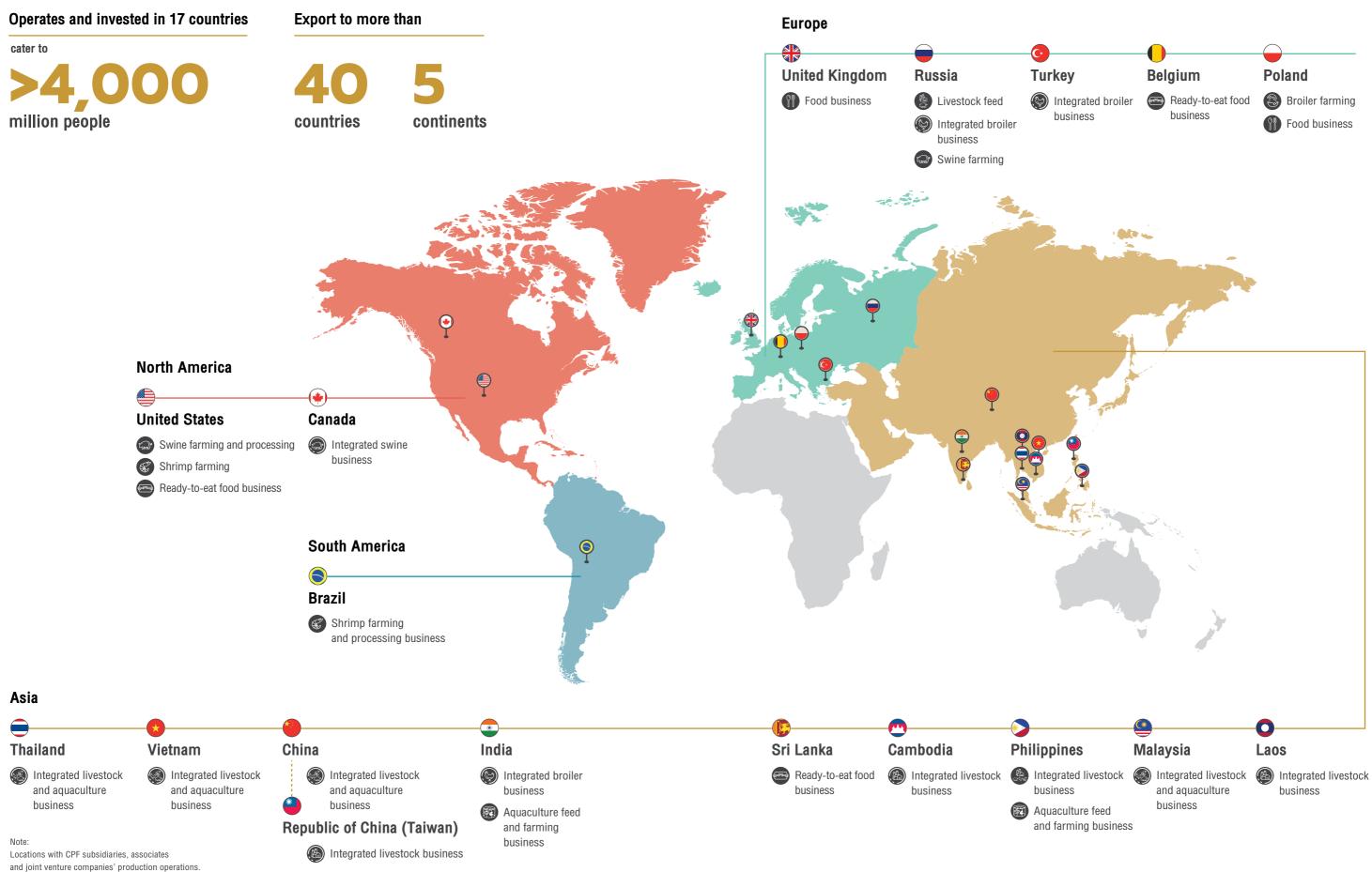
Ensuring employees' sustainability with the compensation and welfare of THB 58,309 million

Business Operations

Overseas Operations

Operates agro-industrial and food businesses in 16 countries outside Thailand, namely Vietnam, China including Republic of China (Taiwan), United Kingdom, United States, India, Malaysia, Philippines, Russia, Cambodia, Turkey, Laos, Poland, Belgium, Sri Lanka and investment in Canada and Brazil.

CPF Worldwide







Message from Our Chairman and Our CEO

The situation of Coronavirus 2019 or COVID-19 which has seriously affected the global community throughout the past two years is a catalyst for people of all ages to use and become engaged in digital society in responding to a new decade that moves towards a more innovative and technological economy. In the meantime, limiting the global temperature rise to lower than 1.5 degrees Celsius compared to a pre-industrial baseline is the global agenda that will lead to changes in the manufacturing sector's decarbonization and consumer involvement in climate change solutions.

To serve as a good citizen of the country and the world society and to welcome dynamics of change that are expected in the Decade of Action, CPF has proclaimed CPF 2030 Sustainability in Action that aims to create positive changes in daily business operations and directly supports the 17 Sustainable Development Goals of the United Nations. CPF has promoted and implemented its 9 Ambitions under the 3 Pillars: Food Security, Self-Sufficiency Society and Balance of Nature on the basis of good corporate governance. We have placed importance on research, development and creation of **nutrition** innovations, created added value to food products, continuously focused on healthy foods and good nutrition, and provided distribution channels in accordance with consumer behaviour. In addition, CPF has

Mr. Soopakij Chearavanont Chairman Mr. Prasit Boondoungprasert Chief Executive Officer established effective resource management by employing **automation** and **digitization** to systematically collect and analyze data to reduce business risks and increase efficiency, resulting in the production that emits lowest greenhouse gas emissions, which, in turn, ensures food security through low-carbon manufacturing, maintains quality of life and employee safety, and supports farmers, suppliers and society to grow together.

In these challenging circumstances, ensuring food security is one of the most significant factors that supports the world to overcome this crisis. Therefore, CPF has planned to comprehensively manage the markets in 17 countries by strictly implementing preventive measures in the production and work processes to ensure safety. We have ensured safety and sanitized work environments for our employees in the production bases around the world. We have also coordinated with the government of each country and taken the prescribed actions to take care of CPF employees and their families as well as Thai people living in that country. With regard to public health of the production base in Thailand, CPF has provided vaccines to employees, along with building a field hospital to accommodate infected green, yellow and red level patients, and setting up a system to connect to hospitals for red level patients.

07

In addition, CPF has contributed to food security for Thai society. Since 2020, through the "CPF's Food from the Heart against COVID-19 Project" and the "CP Merging Hearts to Fight against COVID-19 Project," we have delivered millions of packs of ready-to-eat foods to medical personnel and the public, as well as millions of bottles of drinking water and healthy drinks together with fresh food ingredients and seasonings to main hospitals, field hospitals, vulnerable groups, vaccination centers, proactive COVID-19 testing checkpoints, waiting centers and agencies for more than 500 locations across the country. Moreover, we have been organizing similar activities in other countries in which CPF has invested, such as Vietnam, Cambodia, Laos, Philippines, Turkey, USA, and Russia.

Furthermore, CPF has joined forces with Charoen Pokphand Group and more than 100 partners such as foundations, volunteer groups, civil society, and media organizations to carry out the "Krua Pan Im, Merging Hearts to Fight against COVID-19 **Project"** to deliver two million boxes of hot and ready-to-eat lunch boxes. The first million boxes have been provided by small restaurants in Bangkok and its vicinity, while the other million have been provided by CPF. The aim was to distribute foods to affected communities and to alleviate suffering of people who lack income and those who represent the unemployed groups, vulnerable groups, guarantined groups and home isolation and treatment groups, while at the same time supporting small restaurant businesses.

CPF's efforts to drive a sustainable business based on good corporate governance continued to be recognized in 2021. We were listed in the 2021 Dow Jones Sustainability Emerging Markets Index (DJSI - Emerging Markets) and the FTSE4Good Emerging Index for the seventh and fifth consecutive years, respectively. The Stock Exchange of Thailand included CPF in the 2021 Thailand Sustainability Investment (THSI) Index. We also received the 2021 Outstanding Human Rights Model Organization Award for Large Organization from the Ministry of Justice, and the "Excellent" Award in the 2021 Low Carbon and Sustainable Business Index (LCSi) Assessment from the Thailand Greenhouse Gas Management Organization (Public Organization). Additionally, we were awarded the 11th Asian Excellence Awards 2021; Best Investor Relations Company and Best CSR Company by the Corporate Governance Asia, the leading Hong Kong and Asia media focusing on economic and corporate governance issues. All of these reaffirm our commitment to conducting businesses with social and environmental responsibility, adhering to principles of good governance and focusing on building food security for the global society.

The achievements of sustainable development of CPF resulted from commitment, determination, and dedication of all CPF executives and employees who are ready to take part in propelling the sustainability goals towards actions in line with United Nations Sustainable Development Goals (SDGs). These allow CPF to be take part in building quality society and happiness, along with preserving natural resources and environment to maintain a balance, all of which bring about the global sustainability. On behalf of the Board of Directors and all executives and employees, we would like to extend our sincere gratitude to investors, communities, business partners, suppliers, farmers, financial supporters, private organizations, the public sector and all other related parties for taking part in inspiring, developing and supporting our sustainable growth journey.

We pledge that we will conduct our businesses on good governance principles, with consideration towards social and environmental balance, and continue to stand with our country and citizens while fulfilling our role as the sustainable "Kitchen of the World".

Mr. Soopakij Chearavanont Chairman

Mr. Prasit Boondoungprasert Chief Executive Officer

Awards, Recognition and Sustainability Assessment

Member of **Dow Jones** Sustainability Indices Powered by the S&P Global CSA

DJSI 2021: A Member of the Dow Jones Sustainability Index; Emerging Market, in the Food Products Industry

S&P Global Silver Class Sustainability Award

The Sustainability Yearbook 2021:

Sustainability Award Silver Class 2021

S&P Global



FTSE4Good Index: A Member of the FTSE4Good Emerging Indexes



MSCI ESG Indexes: Participated in the Sustainability Assessment for the Food Products Industry



SET Awards 2021:

Thaipat Institute: • Listed on the ESG100

Award Level

· Listed on the Thailand Sustainability Investment (THSI)

• Sustainability Disclosure Awards 2021:

· Highly Commended Sustainability Awards: Sustainability Excellence

Vietnam Business Council for Sustainable Development (VBCSD):

CSI100 certification and one of the top ten companies in the manufacturing

sector with the most outstanding sustainability performance in Vietnam











The Asset ESG Corporate Awards 2021 - Gold Award for ESG

- · Best CEO Award in the Agro & Food business
- Gold Award for ESG





Excellent CG Scoring



Best **Investor Relations** Company





SET Awards 2021: Outstanding Innovative Company Awards: Business Excellence for "Chiva Pork", High-Fat Pork with High Omega-3



(Public Organization)

Self-Sufficient Society



HR Asia, Asia's HR Magazine: HR Asia Best Companies to Work for in Asia Awards 2021

Balance of Nature



CDP 2021:



Corporate Governance Report of Thai Listed Companies 2021 (CGR):

A member of the Thai Private Sector Collective Action Against Corruption (CAC)

 CAC Change Agent Award 2021 CAC Certified

Asian Excellence Award 2021:

Best Investor Relations Company

National Innovation Awards 2021 by the National Innovation Agency

Outstanding Innovation Organization Award 2021 (Large Organization; Honorary Award)

Human Rights Awards 2021:

Outstanding Human Rights Award 2021 in the Category of Large Business Organization

Climate Change - C, Water Security - B-, Forests - BBB

Low Carbon and Sustainable Business Index (LCSi) by Thailand Greenhouse Gas Management Organization or TGO: "Excellent" Award for the Year 2021

a single unified solution. ERP systems aim to streamline business processes.

in unison, they are known as having "ambient intelligence."

CPF, a Leading Food Innovation Organization Promoting Sustainable Food Security with Modern Technology

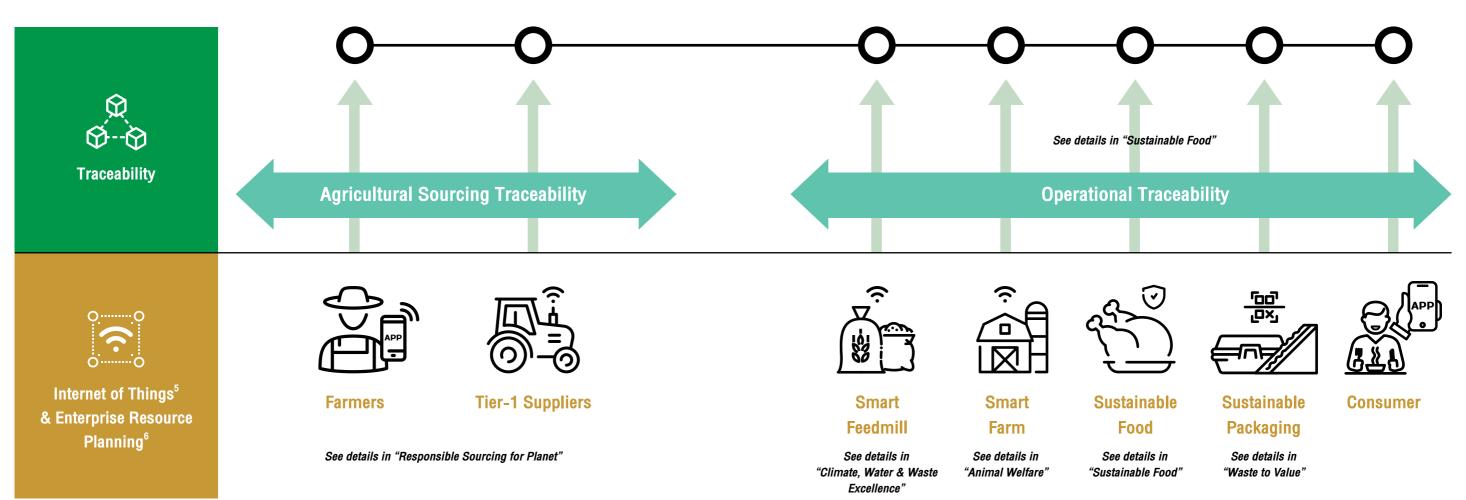
CPF is committed to researching and developing innovations to create foods with high nutritional value for consumers of all ages. The Company has applied digital systems including blockchain¹ in traceability practice throughout the supply chain; starting from raw material procurement to consumer product delivery in a fast and more efficient manner, which display food product details in a digital form to ensure product safety. Thus, it can be ensured that the raw materials used in the production are not sourced from areas of deforestation, nor do they involve forced labour.

CPF has also adopted and integrated digital technology, robotics², automation³, and artificial intelligence⁴ into

the production and transportation processes to ensure efficient use of raw materials, water and energy. In addition, CPF's Smart Farm System is operated to enhance production efficiency and promote animal welfare in a closed farming system that is clean and hygienic, enhancing health of animals which then ensures safe raw materials and thus positive impacts on consumer health.

With technology, science and innovation, CPF will continue to produce sufficient amounts of foods to meet consumer demands at reasonable prices and to generate sustainable food security.





¹ A blockchain is a tamper-resistant distributed ledger that is used to validate and store digital transactional records. No single authority is responsible for maintaining a Blockchain. Instead, computers in a peer-to-peer (P2P) network each store a copy of the ledger and transactions are verified through a decentralized consensus mechanism.

² Robotics is the engineering and operation of machines that can autonomously or semi-autonomously perform physical tasks on behalf of a human. Typically robots perform tasks that are either highly repetitive or too dangerous for a human to carry out safely.

³ Automation is the creation and application of technologies to produce and deliver goods and services with minimal human intervention. The implementation of automation technologies, techniques and processes improve the efficiency, reliability, and/or speed of many tasks that were previously performed by humans.

⁴ Artificial intelligence (AI), also known as machine intelligence, is a branch of computer science that focuses on building and managing technology that can learn to autonomously make decisions and carry out actions on behalf of a human being.

⁵ An Enterprise Resource Planning system (ERP system) is an information system that incorporates enterprise-wide internal and external information systems into

⁶ The Internet of Things (IoT) is a computing concept that describes the idea of everyday physical objects being connected to the internet and being able to identify themselves to other devices and send and receive data. The IoT is significant because an object that can represent itself digitally becomes something greater than the object by itself. No longer does the object relate just to its user, but it is now connected to surrounding objects and database data. When many objects act

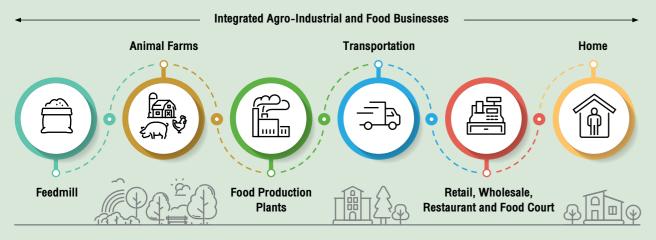


The Sustainable Food System¹ for the World

is a system that can deliver safe food which is full of nutrition and is sufficient for everyone while still being able to maintain the natural balance in order to ensure food security in the next generations. The sustainable food system must be:

- Creating economic benefits (economic sustainability);
- Useful and creating value for broader society (social sustainability); and •
- Not causing environmental impact, or creating positive impact on nature (environmental sustainability). •

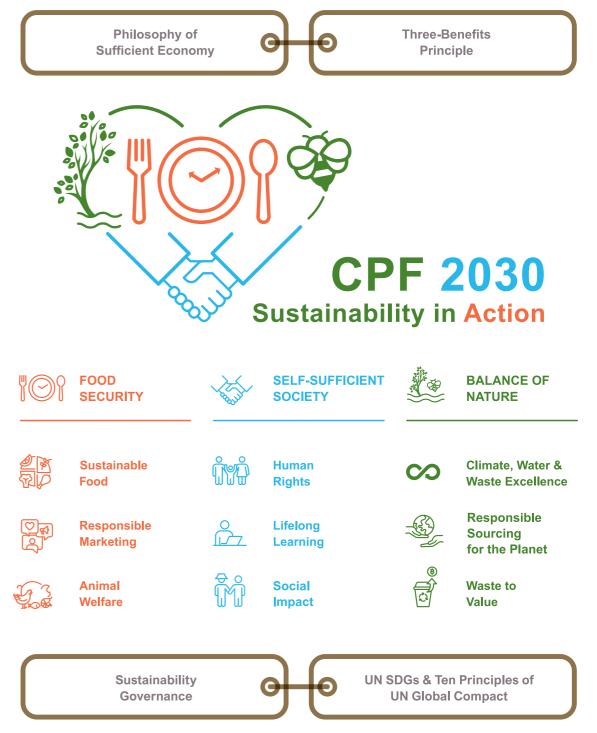
CPF Food System Value Chain



CPF 2030 Sustainability Strategy

Sustainability in Action

CPF drives its corporate sustainable development under CPF's Sustainability Strategy "CPF 2030 Sustainability in Action" which has been developed from the three pillars towards sustainability comprising "Food Security, Self-Sufficiency Society, and Balance of Nature". CPF demonstrates its commitment to create value for society, restore balance of nature including soil, water, and forests, which is an important starting point of food production under the Sufficiency Economy Philosophy and our "Three-Benefit" core principle based on good corporate governance. CPF also supports the United Nations Sustainable Development Goals and the ten principles of the United Nations Global Compact.

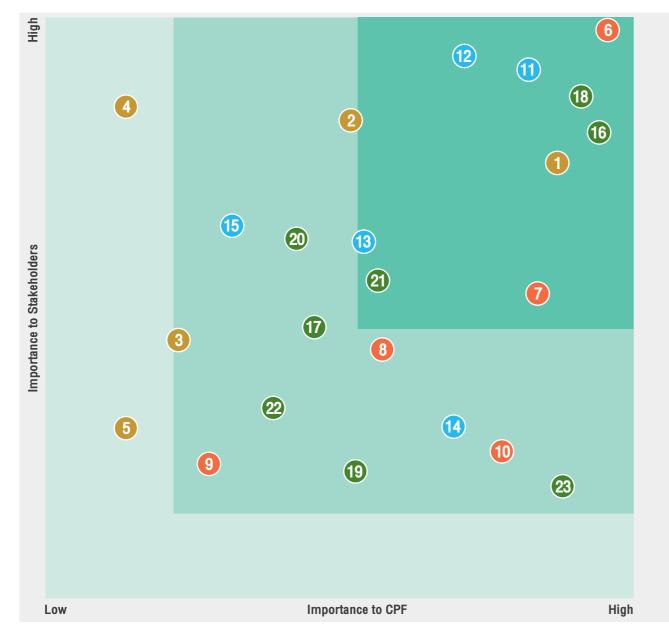


Ambitions

From Materiality to Sustainability Strategy

Twenty-three material issues obtained from the sustainability survey that are important to internal and external stakeholders and have significant impacts on the business, in conjunction with a consideration on the new normal emerging from the changing context after the spread of COVID-19, are used to formulate a new sustainability strategy comprising three pillars and nine ambitions.

Materiality Boundary





Response to Material Issues

Moderate High Low

For issues of low interest to stakeholders, For issues of moderate interest to For issues of high interest to stakeholders, as necessary.

closely manage such issues.

responsiveness and management stakeholders, there shall be determination high-ranking executives shall give shall be made according to routine of duties and responsibilities of units, priority, set the KPIs and monitor the procedures and disclosure of information set the KPIs and monitor the performance performance in order to efficiently and in order to be responsive and to respond to the issues and closely manage the issues.

Details regarding materiality assessment and stakeholder engagement are available at www.cpfworldwide.com; Topic: "Sustainability"; Subjects: "Materiality Assessment" and "Stakeholder Engagement"

	•			Bour	Idary	/ -		
Material Issues	Agriculture	Suppliers	Feed	Farm and Processing	Food	Transportation	Retail	Consumers
nce and Risk Management nd Compliance vacy and Security der Engagement and Transparency c Disasters and Geopolitical Events	•	•	•	•	• • •	•	•	•
ality and Safety on and Technology	•	•	•	•	•	•	•	•
nd Nutrition ible Marketing and Product Labelling	•	•	•	•	•		•	•
Velfare				•				•
Rights and Labour Practices e Well-Being, Health and Safety	•	•	•	•	•	•	•	•
tional Culture and Management anagement			•	•	•			
nity Development and Support	•	•	•	•	•		•	
Change Management Nanagement anagement Ianagement	•	•	•	•	•	•	•	•
ible Sourcing sity and Ecosystems	•	•	•	•	•	•	•	•
Economy and Packaging ss and Food Waste			•	•	•	•	•	•



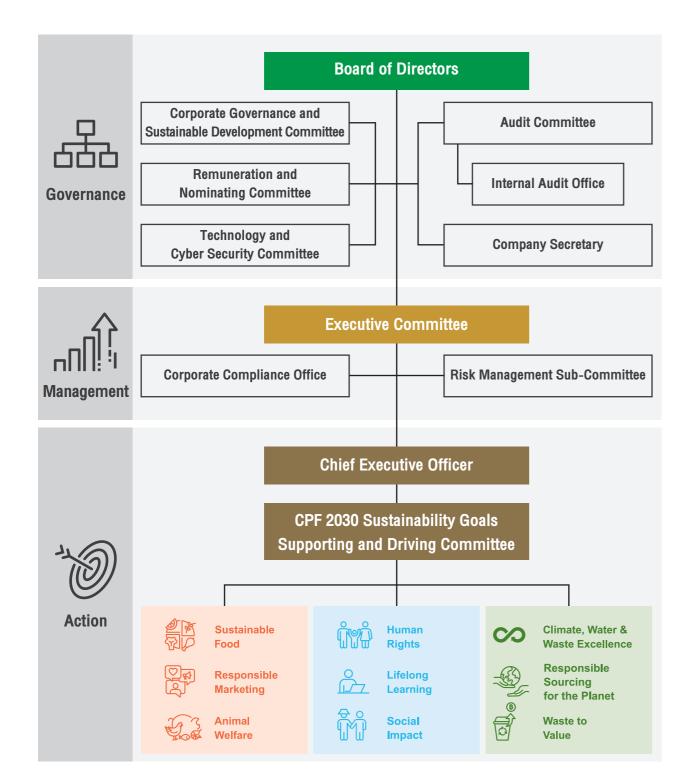


CPF 2030 Sustainability Goals Driving Structure

Sustainability implementations are under the leadership of Chief Executive Officer, Mr. Prasit Boondoungprasert. CPF has clearly identified executives or working groups responsible for each commitment in order to continuously drive implementation processes to achieve the set goals, all of which are governed by the Board of Directors comprising sub-committees as follows:

- The Corporate Governance and Sustainable Development Committee
- The Remuneration and Nominating Committee
- The Technology and Cyber Security Committee

- The Audit Committee
- The Executive Committee



Executives responsible for each ambition are as follows: CPF 2030 Sustainability As of 31st December 2021



Mr.Prasit Boondoungprasert **Chief Executive Officer** Chair of CPF 2030 Sustainability Goals **Supporting and Driving Committee**

Food Security



Dr.Sommai Tachasirinugune, **Executive Vice President** Product Research & Development, Head of Ambition – Sustainable Food



Dr.Payungsak Somyanontanagul, D.V.M, Vice President Farm Standard and Regulatory, Head of Ambition – Animal Welfare

Self-Sufficient Society



Ms.Pimonrat Reephattanavijitkul, **Chief People Officer,** Head of Ambition -Human Rights & Lifelong Learning

Balance of Nature



Mr.Peerapong Krinchai, **Executive Vice President** Corporate Engineering, Head of Ambition -Climate, Water & Waste Excellence



Mr.Pairoj Apiruknusit, **Executive Vice President** Agua Integrated Business Thailand Area Waste to Value Ambition, **Sponsor for Food Loss** Sub-Working Group



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in Action



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Ms.Anarkawee Chooratn, **Senior Vice President** Corporate Marketing, Head of Ambition -**Responsible Marketing**



Mr.Wuthichai Sithipreedanant, **Senior Vice President** Corporate Sustainable Development, Head of Ambition – Social Impact





Mr.Siripong Aroonratana, **Chief Operations Officer** Livestock Business, Head of Ambition -**Responsible Sourcing for the Planet**

Mr.Sathit Sangkanarubordee, **Chief Operating Officer** Five Stars & Restaurant Business, Waste to Value Ambition, **Sponsor for Food Waste** Sub-Working Group

Sausage and Ready-to-Eat Food Business,

Key Actions during 2021-2030

CPF Strategic Plan Years 2021-2030

CPF 2030 Sustainability Strategy by Ambitions

Reporting Framework (GRI Standards) CPF has determined strategic plans to drive sustainability covering 10-year period from 2021 to 2030, which link to the GRI Standards and the United Nations Sustainable Development Goals (SDGs).

			(GRI Standards)	
10 1	Food Security			
	Sustainable Food	Delivering food products of highest quality and safety, and supporting a sustainable food system through green products	• Economic Performance	 Investing on R&D and open innovation Development of green products Operations in line with international best practice safety standards Ensuring regulatory compliance throughout value chain
C C C	Responsible Marketing	Supporting healthy diets by delivering products with improved nutritional value	• Marketing and Labeling	 Improving and expanding nutrition labelling Increasing availability and sales of healthy products R&D of new healthier and nutritious products Engagement with communities Increasing partnership on sustainable diets
J. C.	Animal Welfare	Following best practices for protecting physical and mental welfare of animals through maintaining appropriate living conditions, good hygiene, comfortable dwelling and sufficient food and water	• Animal Welfare	 Creating good raising environment for farm animals Reduction of antibiotics usage Providing training
	Self-Sufficient S	ociety		
ű¥₽	Human Rights	Upholding fundamental rights of individuals in accordance with international standards and country laws by focusing on employees, supply chain and consumers	 Human Rights Assessment Employment Diversity and Equal Opportunity Occupational Health and Safety 	 Conducting human rights due diligence Managing human rights related complaints received through grievance mechanisms Reporting the performance Managing gender diversity throughout all function level Creating inclusion working culture Protecting and taking care of employee health, safety and well-being
Ê	Lifelong Learning	Enhancing CPF's work culture, workforce management, and supporting tools for employee satisfaction in order to hire, manage, develop and retain the right people with the right skills	• Training and Education	 Providing training Offering scholarship and upskills training Implementing human capital development programs and initiatives
Î	Social Impact	Engaging communities through initiatives which support smallholder farmers, community education, strengthen food and nutrition security, and develop local economy	Indirect Economic ImpactsLocal Communities	 Purchasing local goods and services Donating for charities Assessing impact of CSR in and after process Initiating community projects, focusing on good agricultural practices or increase incomes
	Balance of Natur	9		
\sim	Climate, Water & Waste Excellence	Limiting climate change impacts, efficiently managing energy, water resource and waste and maximize natural resource to its best capacity	 Energy Water and Effluents Emissions Waste 	 Accelerating decarbonization Engaging with suppliers Reducing operational waste Focusing on freshwater management
E Contraction of the second se	Responsible Sourcing for the Planet	Sourcing raw materials, products or services from business partners in compliance with relevant laws and regulations, and with consideration of social and environmental impacts, and engaging with supply chain partners to promote sustainable business practices	 Biodiversity Suppliers Environmental Assessment Suppliers Social Assessment 	 Ensuring that suppliers comply with relevant policies, laws and regulations Sourcing key agricultural raw materials that are traceable back to plantation/sources Ensuring that key agricultural raw materials are deforestation-free Conducting conservation, protection, and restoration of mangrove forests and watershed forests in strategic areas and increasing green area in operations Creating partnerships in supply chain on responsible sourcing
() () () () () () () () () () () () () (Waste to Value	Managing the environmental, social, health and safety impacts of our business in support of a circular economy	• Waste	 Reducing food loss, surplus food, and food waste Investing on innovation related to food waste and sustainable packaging Increasing the use of sustainable materials for packaging





UN SDGs Supporting

CPF's 2021 Sustainability Performance to Support the United Nations' Sustainable Development Goals (SDGs)



People Improving Quality of Life



Employment prospect and quality of life of **14,700** farmers and small entrepreneurs were improved



1,769,138 of children, youth and vulnerable people had access to safe and nutritious food



40% of new products were developed to promote better health and more nutrition



100% of employees in Thailand operations underwent trainings related to corporate sustainability



34% of executives in Thailand operations were female



Planet Protecting Our Planet

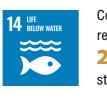


44% of water was reused or recycled

124,114 tons of food loss were used for alternative purposes



Greenhouse gas emissions of **1,483,000** tons of CO₂e were reduced due to low-carbon products



Conservation, protection and rehabilitation areas included **2,388** rais (382 hectares) of strategic mangrove forest areas



Conservation, protection and rehabilitation areas included **8,691** rais (1,391 hectares) of strategic areas of upstream forests and establishments



Prosperity Creating Prosperity



27% of total energy used was renewable energy



70% of employees in Thailand operations benefited from improvements based on suggestions given to the Welfare Committee of the Workplace



Total expense on research and development was THB **1,820** million



726 employees were persons with disability



Paper and plastic used in food packaging were reduced by **1,561** tons



Peace Building Peace



CPF did not have any litigation related to fraud, corruption, giving and receiving bribes, and monopoly or trade barrier



Partnership Partnering for Collaboration



Participated in the "Food Reform for Sustainability and Health (FReSH) Project" with the World Business Council for Sustainable Development (WBCSD) as the mainstay) and joined the Seafood Business for Ocean Stewardship (SeaBOS)





Our Commitment against Targets

l	Goal	Establish food secur and improve quality		
AT Des		2030 Target	Performance	Progress (%)
	Sustainable Food (Thailand Operations)			
	40% of the revenue shall derive from green products	40%	33%	%
	No food products recall	0	0	100 %
	Responsible Marketing (Thailand Operation	s)		
<i>с</i> ф	• Reach 35 million consumers per day	35 Million	9 Million	$\begin{pmatrix} 26 \\ \% \end{pmatrix}$
	with healthy foods and beverages			\times
	50% of our new products are developed	50%	40%	80 %
	to be healthier and more nutritious			
23	Animal Welfare			
TOR	• 100% of sows raised in group gestation pen	100%	27.18%	(27.18)
	housing system			
	Increase production capacity of cage free egg	30%	150%	500 %
	by 30% per year based on year 2020	200		
	(With total production capacity of 12 million eggs in 20 With total production capacity of 30 million eggs in 20			\frown
	• 100% environmental enrichment for broiler	100%	64.87%	64.87 %
- AC	Self-Sufficient Society Goal	Create positive soci and individuals thro		
<u> </u>		2030 Target	Performance	Progress (%)
UNEYU	Human Rights			
	Human Rights	100%	100%	(40)
	 Human Rights 100% conduct human rights due diligence once every 3 years, including risk assessment and 	100%	100%	40 %
	• 100% conduct human rights due diligence	100%	100%	40 %
	 100% conduct human rights due diligence once every 3 years, including risk assessment and 	100%	100%	40 %
	 100% conduct human rights due diligence once every 3 years, including risk assessment and impact assessment in high risk areas of own operations 	100% 3 Million	100%	40 %
	 100% conduct human rights due diligence once every 3 years, including risk assessment and impact assessment in high risk areas of own operations Lifelong Learning 			40 %
	 100% conduct human rights due diligence once every 3 years, including risk assessment and impact assessment in high risk areas of own operations Lifelong Learning 3 million hours of education and training 	3 Million	1,331,688	40 %
	 100% conduct human rights due diligence once every 3 years, including risk assessment and impact assessment in high risk areas of own operations Lifelong Learning 3 million hours of education and training for employees 	3 Million	1,331,688	40 %

Balance of Nature

Climate, Water & Waste Excellence

• 25% of direct and indirect GHG emissions per production unit to be reduced compared to the base year 2015 (Thailand Operations)

Goal

- 30% of water withdrawal per production unit to be reduced, compared the base year 2015 (Thailand Operations)
- 200,000 tons of carbon dioxide sequestration from conservation and reforestation projects in strategic areas and green area in CPF operations (Thailand Operations)
- Zero waste to landfill and incineration
- To set science-based target for GHG emissions reduction (Scopes 1, 2 and 3)
- · Support all tier-1 suppliers identified as high water impact to have water management plans in place

Responsible Sourcing for the Planet

- 100% of key raw materials are traceable
- Increase 20,000 rais (3,200 hectares) of conservation protection, and restoration of mangrove forests and watershed forests in strategic areas (Thailand Operati
- 100% of key raw materials from deforestation-free a



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Waste to Value

- Zero food waste from operations
- 100% of plastic packaging for food products to be recyclable or reusable or compostable

Take action towards positive environmental impact throughout our value chain

	2025 Target	Performance	Progress (%)
	25%	18%	72 %
	30%	43%	145 %
	2030 Target	Performance	Progress (%)
2	200,000 ton:	s 11,392 tons	6 %
	0 tons	22 tons (Thailand Operations	On) Progressing
	-	On Progressing	On Progressing
	100%	On Progressing	On Progressing
		25% ailand, Vietnam, China*, India, Philippi aos, Cambodia, and Malaysia Operatior	
on, d	20,000 rais	11,079 rais (1,773 hectares)	55%
ions) areas	100%	On Progressing	On Progressing
	0 tons	of the	On Progressing of the Data Collection
	100%	99.9% (Thailand Operations) (99.9)



Sustainable Food

2030 Target (Thailand Operations)

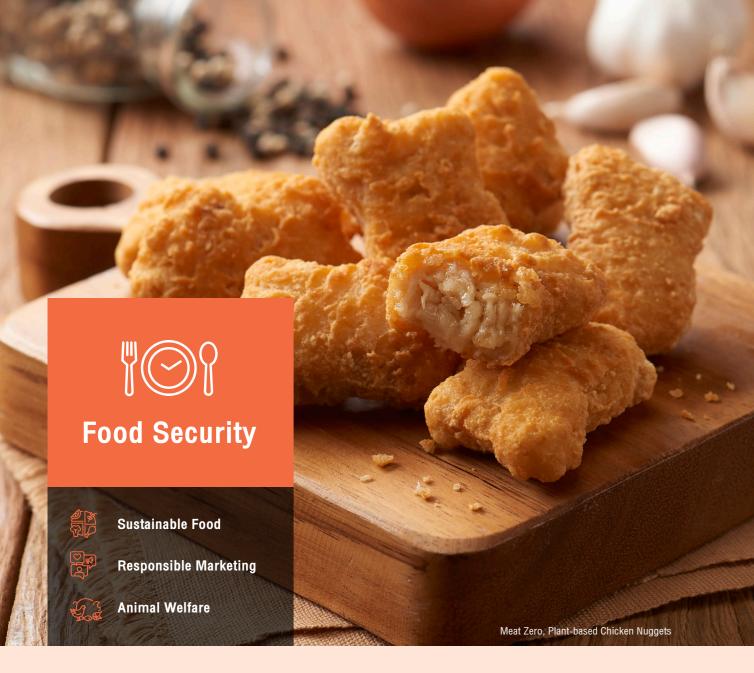
40% of sales revenue are from **CPF** green revenue



Dr.Sommai Tachasirinugune Head of Ambition – Sustainable Food

The United Nations aims to end hunger and malnutrition by 2030. However, there are several challenges that will prevent it from achieving goals, for instance, epidemics, conflicts, inclement weather, and economic slowdown¹. As the world's population continues to rise and is expected to reach 9.7 billion by 2050^2 , it can further cause vulnerability of global food security. Building a sustainable food system is therefore an urgent matter. CPF as a leading integrated agro-industrial and food business, thus, applies sciences, innovations and technologies to produce quality and safe foods that are chemical free and contain sufficient nutrients for all ages with accessible prices, all of which contribute to sustainable food security.

¹ 2021 The state of food security and nutrition in the world "Transforming food systems for food security, improved nutrition and affordable healthy diets for all", Food and Agriculture Organization of the United Nations. Rome. 2021, ISSN 2663-807X (online). ² United Nation, World Population Prospects 2019, June 2019.



Ensuring food security with products that promote health and improve quality of life for consumers



Innovation and Technology: the beginning of innovation that can lead to improvement and economic, social and environmental benefits



Animal Welfare: raising animals with care and allowing for display natural behaviors to ensure quality and safety for consumers



Healthy and Sustainable Health aiming to promote consumption for good health of people and the planet by creating food that can serve as medicine through environmentally friendly production processes



Voice from the Dining Table: conducting surveys on consumer demand, and designing and modifying products to meet consumer demand





CPF places importance on research and development in order to utilize science, technology and innovation to develop nutritious foods for consumers of all ages. CPF also ensures efficient production and transportation processes, which reduce waste and contribute to building a sustainable food system for our planet.

Executive Vice President in Product Research and Development



Sustainable Food Ambition

Management Approach

- Declarations of Policy and Commitment: declaring the commitment under the CPF Healthier Choice Principles, the Health and Nutrition Policy and other related policies.
- **Research and Development:** developing alternatives or new methods for solving problems or improving quality of works covering animal feed, animal farming and food products.
- Being an Innovative Organization: collaborating • with the public sector, the private sectors, and startups in order to create new innovations, as well as fostering a work environment that encourages innovations to enhance work efficiency and effectiveness.
- Compliance with International Rules and Best • Practices: raising food safety standards throughout the organization's food production chain.

Implementation

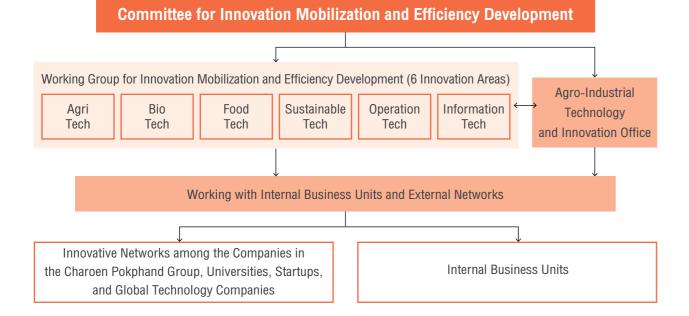
Nurturing Corporate Culture for Innovation

In 2021, CPF established "CPF Committee and Working Group for Innovation Mobilization and Efficiency Development" and also applied the global innovation management standard: ISO56002 while focusing on research and development of six major technologies and innovations as shown in the picture below. CPF is aiming to be a systematic innovative organization, increase revenue and work efficiency, reduce costs throughout the value chain, and create a culture of continuous improvement for personnel at all levels.

The Committee implements tasks under four main objectives as follows:

- 1. To become the innovative organization creating an atmosphere and support all employees to explore and create innovative projects that can be applied in the organization and lead to development and production of new products and services.
- 2. To leverage innovations for driving business driving CPF's businesses and operations to achieve highest efficiency by using modern technologies and innovations.
- 3. To build a global innovation network and ecosystem - gathering CPF's knowledge, experts and innovations, as well as creating cooperation in innovation development among organizations in the network.
- 4. To be a corporation for professionals and talents

- becoming an institution embracing talents and good people by developing personnel skills to ensure their qualities and abilities that meet requirements of today's business and the tech world, as well as attracting experts and talents to join the organization for further organizational development.





Agri Tech Developing technologies, automatic machines and intelligent agricultural equipment for garden plants and field crops such as vegetables and maize.

Sustainable Tech

Developing the use of

environmentally friendly materials

or packaging and smart packaging,

as well as using sustainable energy

and resources.



Bio Tech



Operation Tech Developing smart farm, smart factory, and smart distribution center (DC) and logistics systems.

Cooperation for Innovation

CPF Food Research and Development Center has cooperated with a wide range of sectors domestically and internationally to conduct research and development of food innovations that meet requirements of the economic, social and environmental sectors, which include:

1. The public sector, including



Government agencies: cooperating with the Program Management Unit Competitiveness (PMUC) supervised by the Office of National Higher Education Science Research and Innovation Policy Council, to conduct research and development of local foods produced from local plants for elders in communities, and to gain knowledge on development of foods that are suitable for elders, which enable local elders to have delicious and healthy foods as well as reduce the country's burden on health care costs in the long term.





Educational units and hospitals: conducting research on healthy foods and beverage products with universities and hospitals such as Chulalongkorn Hospital, Ramathibodi Hospital, Mahidol University, Srinakharinwirot University and Mae Fah Luang University.

plants such as cannabis and hemp.

28

Developing animal breeding and animal feed formulations.



Food Tech Developing healthy food (Health & Wellness) and alternative protein, and adding value to main products such as chicken meat and pork meat, etc.



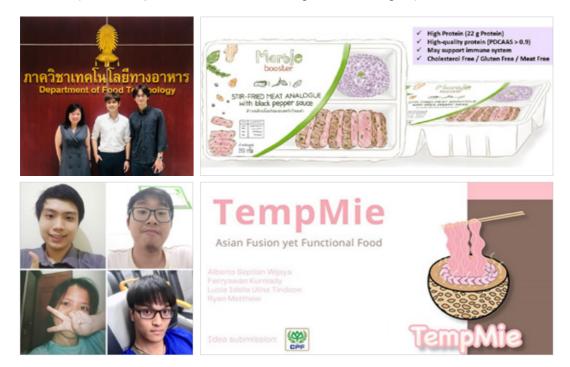


Information Tech Developing in-house information technologies such as using Artificial Intelligence (AI) or machine learning and blockchain in the Company's processes.

conducting research with Prince of Songkla University in order to promote medicinal

2. The private sector, including

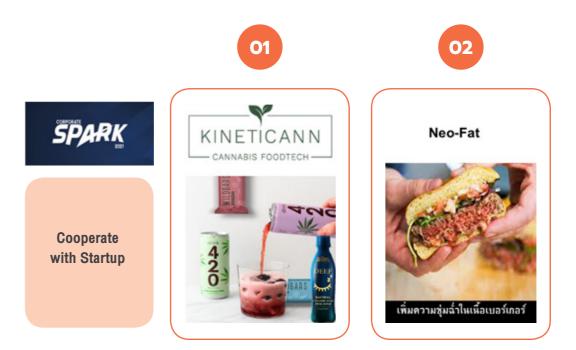
• PROVEG Asia: CPF together with a network of world-class food producers had supported PROVEG Asia in organizing a regional food innovation challenge across Asia under the theme of development of plant protein as Asian-style one-dish meals in order to build immunity and protect the environment. This support is aimed at encouraging students, researchers and young food developers to further expand startup businesses in the future. CPF had jointly coached the teams being selected, by providing advice and providing support on problem solving to achieve the projects' goals. The team that won the first place was the Food Tech Chula team, Chulalongkorn University, with the product concept entitled "the Marble Booster", the 100 percent plant-based wagyu with a fibrous structure similar to animal muscles and special features for immune system boost. The team that won the second place was the TempMie team from Indonesia, with the concept of healthy instant noodles for the vegan consumer group.



 Asia-Pacific Agri-Food Innovation Summit: CPF was a sponsor for the event, organized in Singapore from 16 to 18 November 2021, as Innovation Challenge Partner who participated in forming questions and judging a competition to generate ideas which can be used to develop plant-based meat products, and selected 3 finalists to develop products with CPF. The Company expects that the continued support to this activity will contribute to creative idea generation for innovative product development and build CPF's brand awareness.



and research supports to commercialization, which shall strengthen CPF's innovations.

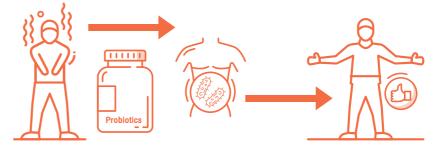


Outstanding Food Innovations in 2021

BIFIO Probiotic Plus is an immune system-boosting food that rebalances intestinal flora. It contains 5 strains of "probiotics" microorganisms that have been studied and researched in Asian people and "prebiotics", a great food of probiotics.

- The intestines digest and absorb nutrients, control the excretory system, support functioning of the nervous system and hormones, and stimulate the immune system.
- The largest immune system in the body is in the intestines accounting for seventy percent.
- **W** "Good Health Starts with a Healthy Gut".
- The product received awards from various institutions.

Probiotics Benefits



 Corporate Spark 2021 Project: The project, organized by the National Innovation Agency (Public Organization) or the NIA, Ministry of Science and Technology, is a startup incubation initiated in Israel, from which the CPF Food Research and Development Center has selected two startups to participate in research and development of plant-based foods and beverage products, covering development of product prototypes



"Chevajit Awards 2021" under the categories of Innovation Reader's vote and Guru's pick



Bronze Medal Award from the National Research Council of Thailand (NRCT), Ministry of Higher Education, Science, Research and Innovation (TSU), at the Research Expo 2021

Egg and Kurobuta Pork Congee; healthy breakfast that is full of beneficial nutrients.

- Wade from 100 percent jasmine rice grits simmered with poached egg and egg white.
- Kernet with the second second
- Smooth and soft, easy to eat, easy to swallow, egg in every bite.
- Topping with kurobuta pork sautéed in lard until it is soft and fragrant.
- Full of protein that help repair worn-out tissues.
- Feeling full for longer; "full of delicious food with worthwhile nutrition"

Plant-Based Meat Substitute, "Meat Zero" by CPF Food Research and Development Center together with foreign experts

- Vinvented plant-tec innovation, a technique for creating a taste that tastes like real meat; "plant as delicious as meat".
- Keady-to-cook food and ready-to-eat food.
- Made from 100 percent plants, without meat as an ingredient.
- 𝒴 0 percent cholesterol.
- Meeting requirements of flexitarian and health lover groups.
- Xvailable now in Thailand, Singapore and Hong Kong.
- \checkmark With a target to export to other countries in 2022.

Moving towards Food Safety Culture

Recognizing the importance of food quality and safety, CPF therefore continually strives to create a food safety culture within the organization for employees, by creating behavior and instilling awareness of safe food production for consumers through a variety of activities such as Morning Talk, Food Safety on Tour and the LINE food safety application.





Morning Talk Activity

Food Safety on Tour Activity

In 2021, CPF adopted the Influencer Plus strategy to drive the creation of food safety culture to include the organization's operations more comprehensively in the face of the COVID-19 pandemic. CPF deployed motivations and capabilities of people, society and organizations as forces to drive behavioral change in order to achieve specified results. In addition, the Empowering Change Team organized weekly huddle meetings to stimulate behavioral adjustments and monitor performance according to predetermined goals, including granting rewards to motivate teams that performed well.





Influencer Plus Team

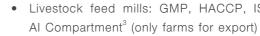
Improving Food Quality and Safety throughout the Process

International Standard Certification for Food Quality and Safety in 2021 throughout the production chain (Thailand operations)



Farm-Processing

Food Business



- shrimp feed mills)
- Pre-Mixed production plants: FAMI QS⁴
- · Layer, broiler, duck and swine farms: GAP
- Register Poultry Scheme
- and BAP (only shrimp farms for export)
- Basic meat processing plants: GMP
- Safety
- pork and shrimp for export: ISO9001
- ^a AI Compartment is Avian Influenza Compartment standards used in poultry, established by the Department of Livestock Development.
- ⁴ FAMI QS is referred to Feed Additives and Pre-Mixtures Quality System.
- ⁵ Food processing plants over semi-cooked and cooked meat products manufacturing plants, and processed products or ready-to-eat products manufacturing plants.





Huddle Meeting

· Livestock feed mills: GMP, HACCP, ISO9001 and • Aquaculture feed mills: GMP, HACCP and BAP (only • Broiler and duck farms for export: Genesis GAP/Lloyd's • Aquaculture farms: GAP/CoC (Department of Fisheries) • Egg sorting plant for export: GMP and HACCP • Basic chicken and duck meat processing plants: HACCP, ISO9001, Genesis GAP/Lloyd's Register Poultry Scheme and BRC Global Standard for Food • Food production plants⁵: GMP and HACCP • Food processing plants from chicken, eggs, duck, • Food production plants from chicken, eggs, duck and shrimp for export: BRC Global Standard for Food Safety

100%

of plants and farms are standard certified.

CPF Food Standard

CPF Food Standard is an operational standard for guality management, food safety and sustainable food production for poultry meat products, under the vision of being the "Kitchen of the World", that strives to produce and distribute food all over the world with the same standard and supports the Company on managing risks more effectively.

CPF started the CPF Food Standard Project in collaboration with the British Standards Institution (BSI) to establish a quality and food safety management and sustainable food production system throughout the

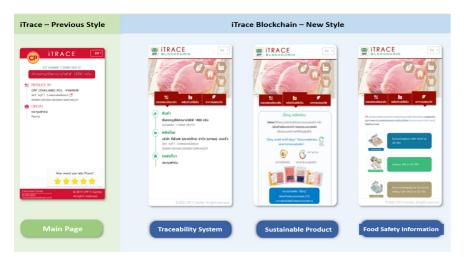
Company's production processes (feed, farm and food business). This is set to be a standard for our productions throughout the world. The standard has been integrated with a number of international operational standards that we have been certified:

- International food standards such as CODEX, ISO9001, ISO22000
- National and international regulations
- Customers' requirements such as BRC and Genesis GAP

CPF has set the goal of being certified by the third party and of further expanding to cover all factories' broiler export businesses and duck meat businesses by 2022 in order to consistently deliver good products to consumers.

CPF Digital Product Traceability System

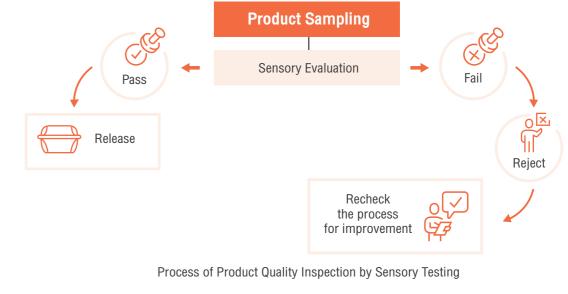
In 2021, CPF implemented a digital product traceability system in the production chain that covered 100 percent of the broiler, duck, pork and shrimp products of Thailand operations as planned. It is in the process of implementation on instant food products, sauces, egg processing products and bread. Moreover, blockchain technology was under the name: "iTrace Blockchain" to enhance the traceability system in order to build customer and consumer trusts. In addition to enabling consumers to trace the origin of purchased products, such as meat processing plants and animal farms, consumers can also receive more information such as sustainable product information and food safety information.



CPF Digital Product Traceability System

Product Quality Inspection by Sensory Testing

One method of CPF's product quality tests is sensory testing or taste testing. Tasters have to pass the selection criteria to ensure the same standards throughout the organization. Tasters daily teste product samples from the production, as well as compare them with the standard samples by observing appearances, smelling and tasting to test various aspects such as colour, smell, taste, texture, appearance and foreign matter, to ensure confidence in products before delivering the products to consumers.



Product Recall

In **2021**.



CPF Green Revenue

CPF is committed to producing green products which refer to products that have been certified and have received environmental labels, such as Carbon Footprint Label and Carbon Footprint Reduction Label, or products that have undergone sustainability impact assessments according to international standards, to promote continual reduction of environmental impact caused by the Company's products. The Company has been conducting carbon footprint assessments on products since 2009 by applying the principles of product life cycle assessment in accordance with the international standards; ISO14040, ISO14044 and ISO14067. Currently, there are more than 790 products that have been undergone the carbon footprint assessments and certified with the Carbon Footprint Label, and more than 30 products are low-carbon products that have been certified with the Carbon Footprint Reduction Label by Thailand Greenhouse Gas Management Organization (Public Organization) or TGO. The low-carbon products include broiler feeds, live broiler chickens, live ducks, fattening pigs, fresh chicken meat, fresh duck meat and fresh pork meat products. Due to continuous improvement of production process efficiency, which covers research and development of animal feed to ensure suitable nutrition for growing animals at different ages as well as energy efficiency optimization and the use of renewable energy in the production, CPF's production processes and acquisition of raw materials have continuously reduced greenhouse gas (GHG) emissions and produced low-carbon products.

2030 Target (Thailand Operations)

40%



of the sales revenue shall derive from green products (CPF Green Revenue)

"Sustainable Chicken Meat Products" Project

CPF together with BASF SE, an innovative feed additives manufacturer, has conducted eco-efficiency analysis on fresh and cooked chicken products through a product sustainability assessment software system in accordance with the international standards; ISO14040, ISO14044 and ISO14045, in order to develop animal feeds that are suitable for animal species and growth at different ages, including improving animal health and reducing loss of animals due to illness or death. All this results in efficient use of resources, reduction of waste and lower GHG emissions throughout the product life cycle, which leads to a sustainable food production system.



PS 7818:2018

CPF Food Safety, Quality and Sustainabil Management System: CPF-SOS





Performance in 2021 Number of products that have received the Carbon **Footprint Reduction Label** more than of the sales revenue derived 30 from green products



Responsible Marketing

2030 Target (Thailand Operations)



35 million

consumers with healthy foods and beverages per day



of our new products are developed to be healthier and more nutritious



CPF is not only dedicated to research and development of food products, but also committed to promoting healthy diet and raising consumer awareness on sustainable consumption by providing consumers with nutritional and specific information as well as food packaging ۲<u>ora</u>g management in order to promote responsible trading.

Ms.Anarkawee Chooratn

Senior Vice President in Corporate Marketing Head of Ambition – Responsible Marketing

Responsibl Marketing Ambitio

Unhealthy food is the cause of 8 million premature deaths worldwide each year, and it is expected to cause a global economic crisis as a result of the increasing healthcare costs related to non-communicable diseases (NCDs) expected at over USD 1.3 trillion per year by 2030¹. In Thailand, the public sector spends THB 302,367 million per year for the treatment of the non-communicable diseases². As a leader in the integrated agro-industrial and food businesses, CPF is committed to alleviating and solving this problem by developing food products with high nutritional value that meet requirements of consumers of all ages. In addition to this, we aim to promote responsible trading by displaying product labels to support consumers' decision-making.

¹ 2021 The state of food security and nutrition in the world "Transforming food systems for food security, improved nutrition and affordable healthy diets for all", Food and Agriculture Organization of the United Nations, Rome, 2021, ISSN 2663-807X (online)

² Department of Disease Control - Campaigning for World Diabetes Day 2021 to Raise Awareness of Inclusive Diabetes Care and Treatment, Division of Non-Communicable Disease, Department of Disease Control, Ministry of Public Health, 12 November 2021.

Management Approach

- Policy Formulation and Commitment: declaring the commitment under the CPF Healthier Choice Principles, the Health and Nutrition Policy and other related policies.
- Promoting Healthy Nutrition: developing new healthy products which are full of good nutrition and appropriate for each age group.

Implementation

Healthy Products

Thailand is placing great effort on decreasing the high premature death rate resulting from non-communicable diseases which stands at over 300,000 cases per year³ by 25 percent by 2025, a target set by the World Health Organization (WHO), and by one-third by 2030 set as the Sustainable Development Goals (SDGs) by the United Nations⁴. Although the current mortality trend continues to decline, pursuing these international goals is still very challenging for Thailand. This is also coupled with the COVID-19 pandemic situation that has continued for more than 2 years. Thus, we see consumers now focus on nutritional value in order to take care of their health and take more preventive

Better Health Products

Туре	Quantity (Product)
Less sodium (less than 600 milligrams per serving*)	11
educed saturated fat not more than three grams per serving*)	11

* Compared to recommended daily intakes for Thai people aged 6 years and over (Thai Recommended Daily Intakes: Thai RDI) from energy requirement of 2,000 kilocalories per day.

³ Faculty of Nursing, Mahidol University, Increase Personnel Potential and Decrease NCDs in COVID-19 Era, Krungthep Turakij, 10 January 2022. ⁴ Cancer Ranks First in Four NCDs, Post Today, 9 January 2022.

- Raising Awareness promoting nutrition knowledge, health and well-being, while communicating accurate, clear and adequate nutritional Information of the products.
- Ensuring Access to Food: enhancing access to nutritious foods and sustainable consumption through a variety of channels at reasonable prices.

action against diseases as well as to live a longer life. CPF is therefore determined to develop foods, suitable in terms of nutritional health and nutrient needs for various age ranges and different body conditions in accordance with the CPF Healthier Choice Principles". CPF Food Research and Development Center has adopted modern technology and innovation in order to comply with the guidelines of the United Nations for developing healthy food products. CPF is aiming to increase better health food products by 50 percent by 2030 (Thailand operations) to contribute to sustainability of the world's population health.

Product Sample





Garlic and Chili Tender Chicken Breast



Tender Chicken Breast Chargrilled Tender Chicken Fillet

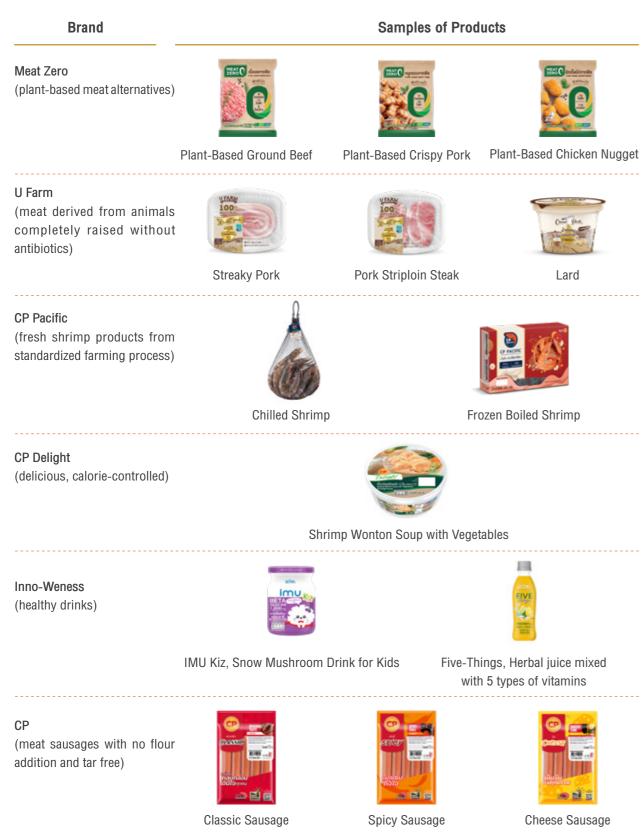


Shredded Tender Chicken Breast

Products Promoting Nutrition, Health and Wellness

In 2021, CPF introduced new products developed to promote nutrition, health and wellness, which were equivalent to 40 percent of the total new products of the year. Moreover, we also took part in promoting access to health products among over 9 million consumers (Thailand operations).

Samples of Products Promoting Nutrition, Health and Wellness



Consumer Health Promotion Cooperation

CPF recognizes that disease prevention is the key to overcoming diseases, particularly avoiding risky behaviours and creating an environment that fosters health-care behaviours through new initiatives to create behavioural change, such as campaigning and enhancing knowledge. In addition, it is important to focus on cultivating a foundation of good health from a young age to ensure the country's sustainable future.

Raising Awareness and Enhancing Knowledge to Promote Consumer Health

Fresh, clean, chemical-free products and 100 percent safe with innovative probiotics: CP swine, chicken and shrimp are fed with probiotics (good microorganisms) which help create balance and boost the immune system in the intestines which accounts for 70 percent of the total immunity in the body, resulting in disease risk reduction and thus reduced use of antibiotics for treatment. As a result, there is no residue in animals. As meats are from animals raised without growth hormones or red meat accelerator, consumers can be 100 percent confident because "good health starts on your plate".

- **W** CP fresh chicken, 100 percent chemical-free, safe, fed with 9 species of probiotics.
- **W** CP fresh pork, 100 percent chemical-free, safe, fed with 8 species of probiotics.
- $rac{3}{6}$ CP Pacific shrimp, fresh, sweet, and dense flesh, only blanching is enough to offer unveil its full flavor.

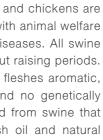
Premium Products with Innovative Super Food: swine and chickens are raised with super food in closed farms in accordance with animal welfare principles, to make them healthy and reduce risk of diseases. All swine and chickens are certified NSF antibiotic-free throughout raising periods. Benja Chicken is fed with brown rice, making chicken fleshes aromatic, soft, juicy and safe, with zero percent of hormone and no genetically modified organisms (GMOs). Cheeva Pork is produced from swine that are fed with feed containing flax seed, deep sea fish oil and natural seaweed that are rich in omega 3 and trans-fat-free.

Plant-based Meat Alternatives with Meatless Meat Innovation: the product

provides meat-like texture and real-meat taste and nutrition, but completely free of antibiotics, hormones, GMOs, and cholesterol. The products are also contained in eco-friendly packaging.

Tar-free Sausage Products with Smoke-Filtering Innovation: produced

from high quality pieces of meat without flour addition, through a continuous automatic production process which includes automatic storage of raw materials, that identifies raw material information by using RFID (Radio-Frequency Identification) system to sort raw material use, production, and arrangement of products in Asia's first automated warehouse, under cooling temperature control throughout the production. The smoke system with tar removal technology produces good quality smoke that allows the production process to ensure quality aroma, colour, and taste, all of which is possible without tar which is considered as a carcinogen. Nitrite content is strictly monitored to ensure that the nitrite content of CP sausages remains lower than that prescribed in the criteria of the Food and Drug Administration (FDA) of Thailand, the US FDA and the World Health Organization (WHO). Consumers can be confident that CP sausages are clean and safe, and can be traced back to every step in the production process.

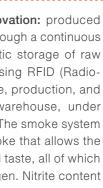




ROBIOTIC

FED







Healthy food and beverage products with special techniques: developed based on nutritional needs of each age range, for example:

Smart Soup Chicken Soup with Pumpkin and Egg is instant blended food that can be used as liquid food for patients with tube feeding or elderly groups who have occlusion or swallowing problems. Chicken soup with pumpkin and egg can be drunk instead of a drink or as a supplement between meals to replace main meal. It is ready to eat and can be stored at room temperature for 12 months. It contains protein from chicken breasts and eggs, and is full of vitamins, minerals and nutrients, so it is easy to digest and easily-absorbed. Developed using the standard formula of Ramathibodi Hospital, Smart Soup Chicken Soup with Pumpkin and Egg helps strengthen immunity and enable faster recovery in patients with its smooth texture allowing ease of consumption.



✓ Natural Snow Mushroom Drinks, IMU and IMU Kiz: containing high beta-glucan from natural mucus produced by mushrooms with high fiber without bleach, which can be easily absorbed through intestinal walls. Natural snow mushroom drinks help nourishing white blood cells, enhancing immunity, maintaining healthy body, recovering health quickly, and reducing risk of illnesses. The drinks also contain hyaluronic acid to nourish lung fluid and moisturize skin, as well as polysaccharides that help relieving dry cough and lowering sugar and cholesterol levels in blood, with low calories.



Collaboration with Stakeholders to Support Sustainable Consumption and Food Systems

In 2021, CPF collaborated with the stakeholders including the private sector as well as leading national and global research institutes in order to develop products that promote sustainable consumption and support the world's sustainable food systems. More than 250 consumer research studies had been conducted, which led to various products through innovations to meet consumer requirements with attention to details in every production process from upstream to downstream operations. Therefore, CPF places importance on all groups of people in society comprising employees, consumers, communities, and business partners, as well as the environment, in order to drive the world's sustainable food systems.

As a member of the World Business Council for Sustainable Development (WBCSD) since 2015, CPF joined the "Positive Consumption" working group under the Food Reform for Sustainability and Health (FReSH) Project in 2021, with the goal of jointly contributing to good nutrition, reducing environmental impact and conducting responsible marketing communications throughout the food industry's value chain.



Communication for Sustainable Consumption

Product Labels

CPF places importance on communicating accurate, clear and sufficient information about products and services to support consumers' decision-making, which includes packaging management for environmental pollution reduction.

	Туре
Nutritional Information	Products under trademark provide important nutritio information in foods as requi by law.
Guidelines Daily Amount	One-dish main meal produ requiring refrigeration or freez throughout the shelf perio under the trademark prov nutritional information on ener sugar, fat and sodium, which o contribute to non-communica diseases.
Specific Information	Products provide additio ingredient and nutritio information, such as allerg information and halal mark.
Healthier Choice Symbol	A simple logo enables consum to choose better nutritious fo products and make purchas decisions faster.
Additional Information	Products provide information

40

Products provide information on how to use, store and handle packaging after use.



Example



Consumer Center

CPF Consumer Center serves as a comprehensive service center providing information, receiving complaints and service issues, and ordering and delivering the Company's products. Procedures for handling complaints are based on three timeframes according to the severity of issues. The CPF Consumer Center shall refer complaints to relevant authorities and follow up on the outcomes of investigations until customer complaints are resolved. For complaints received through other channels, such complaints will be forwarded to the CPF Consumer Center for further actions.

Consumer Feedback

CPF focuses on customer and consumer resonances. Thus, we collect consumer data in order to develop innovations to provide quality products and meet highest consumer satisfaction. CPF has a wide range of communication channels to invite opinions and answer inquiries from customers and consumers, such as direct contact with the Company, CPF Consumer Center, email, websites and social networks such as Facebook and online forums.





2030 Target

of sows raised in group gestation pen housing system

Increase production capacity of cage free egg by per year based on Year 2020



for consumers.

Dr.Payungsak Somyanontanagul, D.V.M. Vice President in Farm Standard and Regulatory Head of Ambition - Animal Welfare

Animal welfare directly contributes to food safety and quality. Raising animals in the condition that promotes their health and welfare offers a number of benefits to consumer health, as well as reducing hunger from deficiency of protein from meat¹. Veterinarians and animal care professionals thus play an important role in protecting this food system since 60 percent of human pathogens spread from animals and 20 percent of the world's meat protein is lost from the food system due to epidemics². In addition, antimicrobial resistance has become a global concern. If this problem is not tackled urgently, it is estimated that millions of people worldwide will die from bacterial infections, which is equivalent to over USD 100 trillion of economic damages³. CPF is committed to continuous improvement of our operation to ensure that it is animal-friendly following the Five Freedoms Principles. We also apply Farm Biosecurity practices to our farm management. We have established the Animal Welfare Committee to drive our "Animal Welfare Policy and Long-Term Targets on Animal Welfare" and the Antimicrobial Resistance Committee to promote "Global Vision for Antimicrobial Use Stewardship in Food Animals." These approaches have been applied throughout the entire operations and are traceable.

Animal Welfare and the United Nations Sustainable Development Goals, Keeling et al., Frontiers in Veterinary Science, Volume 6, Article 336, 10 October 2019. ² Global health risks and tomorrow's challenges, One Health, the World Organisation for Animal Health, www.oie.int/onehealth.

³ Review on Antimicrobial, 2014: https://amr-review.org/







CPF focuses on raising animals according to the Five Freedoms by selecting good breeds and applying technology to manage farms and create good environment, which shall prevent animals from illnesses and diseases, and thus reduce the need for antibiotics. Moreover, probiotics have been developed for animal husbandry to ensure sustainable animal well-being from the inside out, resulting in safe meat

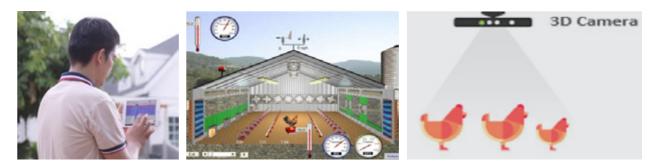


Animal Welfare Ambition

Management Approach

- Declarations of Policy and Commitment under the Five Freedoms Principles to ensure ethical animal farming to which all animals are entitled in compliance with producing and trading partner countries' laws, rules, regulations and requirements.
- Research and Development of innovative animal feed and animal farming that are efficient, of high quality and ethical according to the Animal Welfare Principles.
- Support and Promotion to help encourage our business partners as well as contracted farmers to promote animal welfare according to our policies and requirements.
- Audit by internal and external independent agencies to ensure proper and humane animal treatment, as well as to welcome advice on opportunities for operational development.
- Building Cooperation and Alliance Networks including business partners, government agencies, civil society organizations, research and academic institutions and other stakeholders to raise awareness on animal welfare as well as to collaboratively develop good practices in animal farming based on the Animal Welfare Principles.

(IoT) technology that displays real-time results and data analysis.



device.

Implementation

Animal Farming according to Animal Welfare Principles

CPF is committed to elevating animal welfare in our operations and to raising employee awareness to support our endeavour. We have clear policies, manuals, and standard operating practices on animal welfare and have integrated an internationally accepted framework, known as the 'Five Freedoms', into our management of livestock farming in the operations in all countries. CPF requires top management of each business line in each country to oversee the management of animal welfare, to establish an animal welfare committee for each country that operates the animal farm business and to provide experts of each business line to strictly perform duties and promote animal welfare, all of which are carried out in accordance with CPF's policies and guidelines covering both CPF's farms and farms of the farmers in the contract farming project. Moreover, meetings of the Animal Welfare Committees of every country are also held via teleconference at least twice a year to exchange information and knowledge, and to review the Animal Welfare Policy, in order to ensure that the organizations, the farmers under the Contract Farming Project and all suppliers involved in CPF's meat protein products have

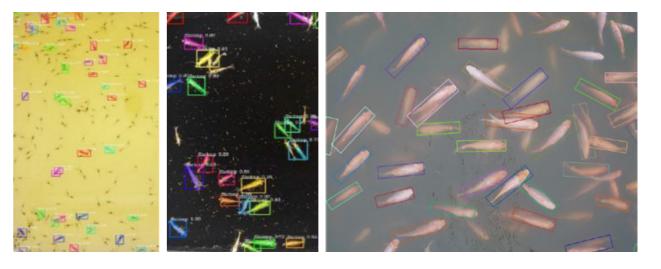
implemented animal welfare in compliance with Thailand's laws, rules, regulations and requirements as well as the regulations of European Union of which its member countries are key trading partners, customer requirements, and international animal welfare standards.

Research and Development

Research and development is an important step that contributes to continuous implementation and development of animal welfare. Apart from research and development, CPF has also placed importance on the use of modern and environmentally friendly technologies to drive its operations. The "Smart Farm" system has therefore been integrated with CPF's animal farming business. A vast amount of online information being collected by the Company has resulted in big data to be used for analysis and processing. CPF has also adopted blockchain technology to build and raise the level of confidence in a wide range of information. The smart farm system does not only support farm and animal welfare management, but the system also enables tracking, training and sales.



potential.



• Smart Chicken Farm to transform work process to workflow automation which increases farming efficiency, and improves quality level and health of animals, by managing farms and animals with Internet of Things

• Smart Swine Farm to control farm and biosecurity with automation technology, look after animal health and farming results by using cameras and Artificial Intelligence (AI), automatically control feed quantity and feed order, connect to sales, logistics and accounting systems; and analyze and manage farming via mobile

• Smart Aquaculture Farm to enhance supply chain value by adopting technologies to increase production efficiency, reduce waste, and manage farm and data, including planning production and transportation to meet market demand, and using image processing technology and machine learning to increase production

Support and Transfer of Knowledge

CPF's teams of veterinarians and experts transfer knowledge and expertise on animal farming to farm supervisors, animal husbandry, relevant staff and all types of farmers under the Contract Farming Project to ensure correct understanding on animals' physical characteristics, habits and needs, in order to ensure proper treatment on animal health and body according to the animal welfare principles. This makes it possible to control, manage and prevent adverse effects before they emerge and cause serious damage. Particularly, CPF has placed great importance on prevention of epidemics in poultry, swine and aquaculture such as Avian Influenza and African Swine Fever (ASF). Therefore, CPF has organized trainings to provide knowledge to farmers in order to raise awareness about importance, severity and consequences of the epidemics, as well as surveillance and preventive measures, especially control of farm entry and exit which may be the contact point where carriers of disease can contaminate the production process.



farms free from animal diseases and human diseases such as COVID-19 and thus transfers technology and automation systems to improve safety of farmers' swine farms under the Contract Farming Project such as the auto feeding system that helps reduce human labour and the need for people to enter swine housing. In 2021, CPF transferred remote monitoring technology with CCTV system, enabling farmers to look after swine anywhere, anytime, including seeing the inside of the housing and observing initial symptoms of swine. Farmers are able to consult with the Company's team at any time through the LINE application as well. This limits the entry of people into swine housing, which greatly reduces disease risk caused by people to swine. Moreover, biogas system has been installed to reduce odors and produce biogas; a form of clean energy, for generating electricity consumed in farms. It greatly reduces the cost of electricity. In addition, some farms have also used solar cell systems concurrently. The transfer of such technological knowledge does not only improve the production of quality swine that are free from human and animal diseases, but it also boosts productivity and helps create smart farmers, all of which lead to farmers' sustainable success.

CPF recognizes that biosecurity is the key to keep





Technology transfer to farmers under the Contract Farming Project for supporting smart farmers

Audit

All CPF's animal farms and those of farmers in the Contract Farming Project in every country undergo audits at least once every three years and are certified livestock production standards by livestock development authority of each country. Furthermore, there are other audits and a variety of international standard certifications to ensure consumers that meat protein products supervised by the Company are derived from animals that have been raised under advanced animal welfare support, such as:

Broiler chicken	C H	Thailand: LR Farm First, QS St Malaysia: Agri Food & Veterina
Meat duck	Ś	Thailand: Genesis GAP (Good
Layer chicken		Thailand: Cage-free Eggs Stan
Swine		Thailand and Vietnam: Global (Thailand: RWA (Raised Withou
Shrimp	H	Thailand and Vietnam: BAP (Be Council)

According to CPF's commitment to animal welfare management as aforementioned, it is assured that all fresh food products and processed meat products under the Company's brands and customers' brands, which are distributed in the domestic market and exported to foreign countries, are derived from quality and hygienic farms, and guaranteed consumer product safety.

Raising Swine According to the 3Ts Principle (No Testicles, No Teeth Clipping, and No Tail Docking)

CPF is committed to reducing painful procedures performed on swine in the global swine industry, and therefore has participated in the 3Ts-Alliance (Teeth, Tails and Testicles) Project organized by the World Animal Protection since 2019. This implementation emphasizes reducing, avoiding and stopping physical alterations in forms of castration in male swine, teeth clipping and tail docking. Moreover, CPF also jointly supports research on consumer behaviour towards reducing pain in swine.

Certified Advanced Animal Welfare

Standard, Global GAP, RWA (Raised without Antibiotics) nary Authority of Singapore (AVA)
d Agricultural Practices)
indard
I GAP out Antibiotics), ASF Free Farm
Best Aquaculture Practices), ASC (Aquaculture Stewardship

Participation in Reducing or Stop Painful Procedures on Swine in the Global Swine Industry of the Company in 2021

3Ts	Operations Participated	Proportion (percentage)
No Testicles	Thailand, Republic of China (Taiwan), Cambodia	5.96
No Teeth clipping	Thailand, Republic of China (Taiwan)	34.46
No Tail docking	Thailand, Republic of China (Taiwan), Philippines	0.42

100 percent of Republic of China (Taiwan) operations have stopped clipping/grinding piglets' teeth since 2019, while 69 percent of all piglets in Thailand operations have not undergone ear notching.

Welfare Outcome Measures (WOMs)

CPF has measured results of animal welfare promotion of all types of animals raised in Thailand and Overseas operations in order to assess if animals have been in states of advanced welfare according to the animal welfare principles, which directly affects animals' physical and mental health.

Measuring Results of Animal Welfare Promotion throughout CPF's Global Value Chain

	Welfare Outcome Measures		Performance	
	(WOMs)	2019	2020	2021
Broiler chicken	Transport Livability, %	99.80	99.80	99.76
Meat duck	Transport Livability, %	n/a	99.83	99.84
Layer AA chicken A	Transport Livability, %	99.89	99.90	99.98
Swine	Sow Livability*, %	94.20	95.80	95.73
Shrimp	Black Scar Lesion, %	n/a	n/a	2.09

* An average of swine survival rate is at 87 percent⁴.

Promoting Animal Welfare in the Value Chain

CPF has assessed the animal welfare implementations of its key products throughout the global value chain to create consumer confidence on animal protein derived from animals that are treated with care.

Assessing the Animal Welfare Performance of Key Products across the Global Value Chain in 2021

Produc	t made from	Animal welfare promotion	Production capacity
Broiler chicken	E A	Enhancing physical environment, %	64.87
Meat duck	Ś	Enhancing physical environment, %	100
Layer chicken		Raising in a cage-free housing system, million eggs	30.09
Swine		From sows raised in group gestation pens, %	27.18
Shrimp	H	From female shrimps without eyestalk ablation, tons	6,402

In addition, the production capacities of broilers raised policies and long-term goals for animal welfare, CPF with stocking density of less than or equal to 30 kg/m^2 , has invested in research and development as well as layers raised in a cage-free housing system, and female in small-farm trials to ensure that treatment methods shrimps without eyestalk ablation were 31.68 percent, of farm animals do not cause side effects or other 0.96 percent and 6.47 percent, respectively. Thailand detrimental effects on animal welfare. Then, CPF shall operations' production capacities of layers raised in set plans for implementing such methods at all farms the cage-free housing system was 21.79 million eggs, without affecting the Company's business in terms of and those of broilers raised in enhanced physical cost and production capacity, for the ultimate purpose environment and sows raised in group gestation pens of delivering quality meat protein products that are were 89.77 percent and 52.52 percent, respectively. free of pesticides, safe and traceable in every process Placing efforts to promote advanced welfare for farm from farm to consumer plates. animals in line with the organization's commitments,

Animal Welfare Cooperation Network

CPF has been a member of the World Business Council for Sustainable Development (WBCSD) since 2015. In 2021, CPF jointly established the Responsible Meat Initiative (ReMI) sub-working group under the Food Reform for Sustainability and Health (FReSH). The members include over 14 leading organizations worldwide, which have a collective goal to promote responsible protein production and consumption throughout the food value chain in eleven aspects, four of which are directly related to responsible animal farming, namely animal welfare, antimicrobial intervention and animal health, animal nutrition and demand for responsibly produced pork. On October 28, 2021, Dr. Payungsak Somyanontanagul, D.V.M., the Chairman of the CPF Animal Welfare and Responsible Use of Antibiotics Committee was the representative to jointly launch the world's first ReMI working group through an online conference, with the aim to drive the reform project on sustainable food production to promote good health.





Animal Welfare Innovation

In 2021, CPF created and developed innovations to enhance animal welfare promotion throughout the global supply chain, with the realization that good health begins with healthy dishes, therefore, farm animal well-being lies at the heart of business.





Sawdust bedding in animal housing: The broiler business in Russia operation had experienced footpad dermatitis which occurred to a lot of broilers. Therefore, it began to use sawdust bedding in broiler housing. Subsequently, inflammation of the soles of the feet of broilers reduced from 90 percent to 20 percent. However, the use of sawdust bedding causes many obstacles such as a large amount of sawdust waste, possibility of pathogen contamination, high production cost and long preparation time. In addition, the production volume of this farm is quite large and constantly increasing. As a result, this advanced animal welfare promotion is not yet fully accomplished. Nonetheless, CPF is still focusing on good animal welfare implementations to achieve goals.

Before Powder medicine After Chewing tablet

medicine

• Snacks for piglets: Diarrhea in piglets could be found after birth, the use of antibiotics for treatment is therefore essential in accordance with animal welfare principles. The injection is the most effective form of treatment; however, it still causes pain in piglets. The swine business in Thailand operations therefore developed and tried using a form of medication that mixes powder medicine with feed instead of injections. It was often found that piglets did not eat the feed and thus did not receive full treatment doses. The medication was then further developed into the form of powder medicine mixed with feed, moulded into small cubes, and mixed with milk to attract piglets. This is consistent with sucking behaviour of piglets at this age and the animal welfare principles.

Responsible and Prudent Use of Antibiotics

CPF recognizes that improper use of antibiotics in animals have tremendous impacts on the animals, their caretakers, consumers and the environment. It could especially create antimicrobial resistance and antibiotic residues in animal products, all of which have proven to be global challenges. CPF is therefore committed to the responsible and prudent use of antibiotics as a single practice for all livestock businesses in every country, covering the Company's farms and those under the Contract Farming Scheme. The use of antibiotics must be for therapeutic uses to maintain

- Study of antibiotic resistance in Escherichia coli (E. coli) from intestinal samples from sick chickens: The intestinal samples from sick chickens were collected and examined at the broiler business' laboratory in Cambodia operation. The samples were tested by broth micro-dilution technique to check on E. coli's resistance to six types of antibiotics. It was found that the resistance antibiotics to reduce antibiotic resistance.
- Longitudinal monitoring reveals persistence of colistin resistant Escherichia coli on a swine farm following cessation of colistin use: A follow-up study on mobilized colistin resistance (mcr-1) genes found in E. coli from personnel, swine and the environment of a sample farm in the swine business of Thailand operations, that has had a policy to stop using colistin since 2017. The data colistin use, Nwai Oo Khine et al., 2021).
- Study, detection and monitoring of extended-spectrum beta-lactamase producing Escherichia coli (ESBL): A joint research between Chulalongkorn University and the swine business of Thailand operations, to identify risk points and set up guidelines for reducing contamination of antibiotic-resistant bacteria in each step of swine slaughtering process in slaughterhouse.
- Study of dynamics of antibiotic resistance genes in aquaculture: • through the cooperation of the Department of Microbiology, Faculty of Medicine, Siriraj Hospital, Mahidol University and aquaculture business of Thailand operations. Samples of Nile tilapia or red tilapia, snapper, shrimp and biofloc collected from the Company's aquaculture were compared to natural fish and shrimp that were close to the sample group to study translocation of antibiotic resistance genes in aquaculture.

animal welfare under veterinary prescription only and must be:

- free from human-only antibiotics;
- free from shared-class antibiotics which are medically important to humans, used as a growth promotor; and
- free from hormones used as a growth promotor.

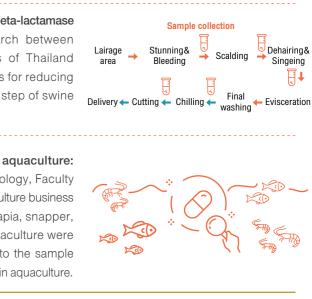
In 2021, the Company conducted research and development on the responsible use of antibiotics which included the followings:

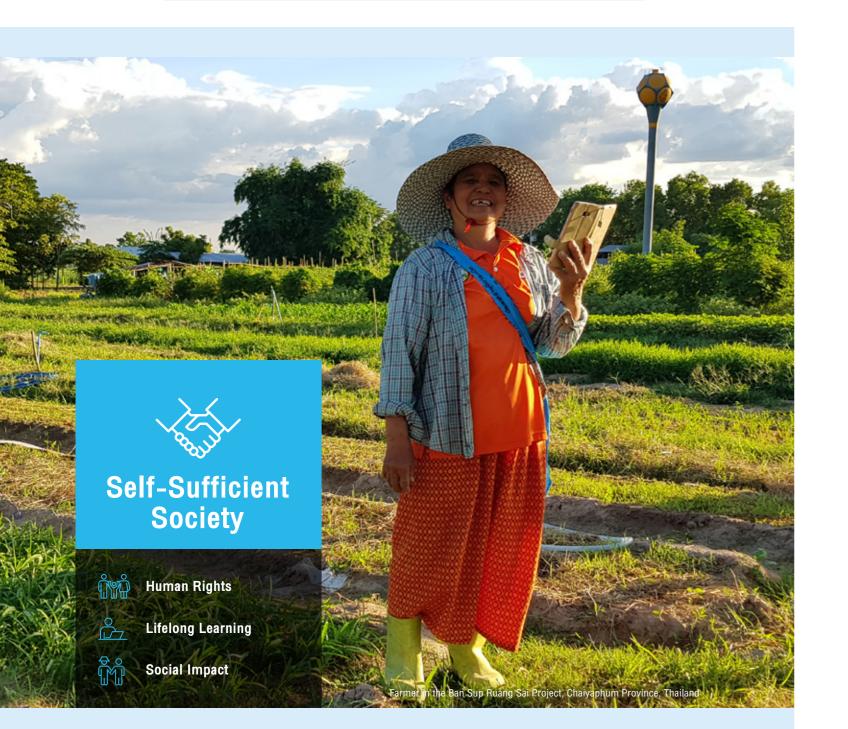


to each type of antibiotics was different as follows: Tetracycline 96.69 percent, Ampicillin 93.33 percent, Kanamycin 46.67 percent, Colistin 40 percent, Gentamicin 40 percent and Amoxicillin/Clavulanic Acid 13.33 percent. It was assumed that antibiotic resistance might be caused by the use of such antibiotics in the farming process. Thus, the Company formulated strategies and procedures to rigorously control the use of



showed that no mobilized colistin resistance genes were found in the farm's personnel, but they were found in swine and the farm environment in lower quantities (additional detail is available in Longitudinal monitoring reveals persistence of colistin-resistant Escherichia coli on a pig farm following cessation of





Create positive social impact in the lives of employees and individuals throughout our value chain



Adhering to Principles of Human Rights as The Basis of Business Operations: formulating strategies to enable processes that take human rights into account throughout the value chain by complying with three principles, namely Protect, Respect and Remedy



Being a Learning Organization: focusing on development of skills and potentials of employees, employees' children, students, and the general public, in order to create future personnel who can create good value for society



Creating Good Work Experience: having strong corporate culture, inspiring people to achieve good results, enhancing corporate engagement, and attracting talents to CPF in a sustainable manner



Measuring Social Positive Outcomes: promoting well-being of people, providing career support, generating local income, and building networks to make positive impact on society, thus resulting in stable self-reliance



2030 Target

100%

3 years, including risk assessment and impact assessment in high risk areas of own operations



suppliers and external communities.

Ms.Pimonrat Reephattanavijitkul Chief People Officer Head of Ambition – Human Rights

Manufacturing businesses often see high labour turnover rates and constant demand for labour to ensure business continuity and corporate growth. More than 3 billion people worldwide have been given employment opportunities. However, a handful of workers are under unfair employment practices, work in unsafe work environment, confront health risks and are in poverty despite being employed¹. Employment rates, thus, are not an indication that people in society will have a better quality of life. There are also reports of slavery and human trafficking which are important global issues. The pandemic situation of the COVID-19, moreover, has caused the global unemployment rate to rise which is expected to reach 207 million people by 2022, 21 million people higher than 2019². CPF thus recognizes and places importance on respecting human rights and labour rights throughout the supply chain, which includes CPF's employees and workers, and business partners. CPF is committed to strengthening the foundation of fair and equitable human resources management which is in line with the United Nations Guiding Principles (UNGP) and the International Labour Organization (ILO), and encourages business partners to implement or apply the management approach in their business operations.

¹ ILO: World Employment and Social Outlook: Trends 2019 (2019)



Conduct human rights due diligence once every

Respect for human rights is a fundamental principle in business operation that complies with good corporate governance, which ensures equality and prevents human rights violation of individuals both outside and within the organization – thoroughly covering internal staff,

Ambition

² ILO: World Employment and Social Outlook: Trends 2022 (2022)

Management Approach

- Declarations of Policy and Commitment: declaring commitment and overseeing human rights by implementing the Company's policies related to human rights and labour practices in order to tangibly demonstrate commitment to combating against violations of human rights law and labour practices.
- Fostering Respect for Human Rights through Policies and Communication: fostering respect for human rights within the organization through relevant policies and communicate these policies to employees and business partners to strengthen the management of human rights and labour practices.
- Human Rights Due Diligence: implementing human rights due diligence regularly on a three-year basis to identify and improve human rights management and labour practices, and to mitigate potential negative impacts that may arise.
- Receipt of Complaints: providing employees with channels for grievances and complaints or reporting tips related to malpractice or misconducts, and investigating issues in order to effectively manage and take corrective actions.
- Monitoring and Disclosure of Operating Results: closely monitoring human rights and labour practices in order to strengthen human rights and labour practices, and transparently disclosing such results to the public through various channels.
- Review for Improvement: improving management plan in order to address impacts and solve arising issues effectively.

This year, CPF in collaboration with the Labour Protection Network Foundation (LPN) organized a remote interactive training on human rights for selected 384 foreign employees who never attended this training before. This training is organized annually by LPN Foundation, and data show that 89 percent of employees from 63 percent previously now have better understanding about human rights.



Human rights remote interactive training organized by LPN Foundation

CPF has applied the Thai Labour Standards (TLS) which is the social responsibility requirements for voluntary business organizations, as the norm for treatment of workers to demonstrate social responsibility in line with the current situation, labour laws, and other relevant international standard requirements. This elevates the Company's labour management to the international labour standards. This has been CPF's practice since 2015 by adhering to two main requirements:

- Labour management system which is a quality management which helps ensure quality treatment of workers in accordance with the requirements as well as continuous and sustainable development.
- Labour rights and protection which are the bases of the current applicable labour law and additional terms included in the commercial terms (referenced from the International Labour Organization Conventions).



Alterations of Thai labour standards requirements; TLS 8001-2020 and relevant laws in the form of online and offline training by internal speakers

Implementation

Respecting and Upholding Human Rights

Human Rights Training

In 2021, **100 percent of** CPF employees under CPF's establishments in Thailand operations and overseas operations attended online and offline human rights trainings.

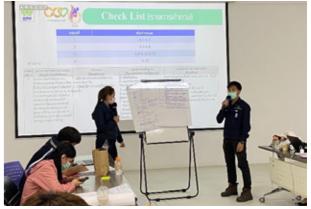
Training by CPF Training Center

	Thailand Opera	tions		
Course	Number (perse	on)	Percentage	Number (hour)
Basic Governance	Employees and Workers	63,273	100*	118,953
Personal Data Protection Act	Employees	24,580	100*	12,290
Occupational Safety, Health and Environment for New Employee at Factory and Farm	Employees	2,622	100*	15,732
	Overseas Opera	tions		
Basic Governance	Employees and Workers	50,044	100	50,044

* 100 percent of target group

The Company has organized both online and offline programs to educate employees on the Thai labour standards, which include two programs for executives, the TLS 8001 Committee members, and employees as follows:

- 1. Alterations of Thai labour standards requirements; TLS 8001-2020 and relevant laws.
- Alterations of Thai labour standards requirements; TLS 8001-2020, relevant laws and internal audit techniques.







Alterations of Thai labour standards requirements: TLS 8001-2020, relevant laws and internal audit techniques training by internal speakers

In addition, the Company has several measures to protect workers such as:

- Assessment of suppliers and subcontractors
- Working hours and breaks
- Protecting female workers who are pregnant, while time spent feeding during work counts as working time
- Ensuring safe and healthy working environment
- Preventing sexual assault, sexual abuse or sexual harassment
- Preventing workplace violence
- Organizing activities to promote guality of life among employees according to international principles
- Promoting and passing on good practices to suppliers in order to jointly eliminate the use of illegal labour

(For additional details, please see the Annual Report 2021, Part 1 (3) Driving Business towards Sustainability).

CPF has been certified with the labour standards by Bureau of Labour Standards Development, Ministry of Labour, and external auditing units such as TUV SUD (Thailand) Company Limited and SGS (Thailand) Company Limited. This year, the Company received a royal trophy from Her Royal Highness Princess Maha Chakri Sirindhorn as its Pathio shrimp hatchery, Chumphon Province, was granted Thailand Labour Management Excellence Award.





The Royal Trophy Award from Her Royal Highness Princess Maha Chakri Sirindhorn: Pathio shrimp hatchery, Chumphon Province, Thailand, Labour Management Excellence Award

Welfare Committee in the Workplace

CPF supports participation of employees of all levels and all nationalities, and all diverse and vulnerable groups in terms of gender, race, religion and people with disabilities, in applying for the position of the member of the Welfare Committee in the Workplace. and in voting independently to elect committee members via transparent processes. The Welfare Committee in the Workplace is deemed another communication channel between employees and the Company, to raise awareness and respect for human rights and equalities of all employees at all levels and from all races, and to express views, opinions, suggestions and complaints through elected representatives. The Company increases the number of the Welfare Committee members from the legally required minimum of 5 to

Employment

CPF has established a clear employment policy and continued to focus on employment and operation in strict accordance with laws and international labour standards as prescribed in the Employment and Labour Management Policy, the Foreign Worker Recruitment in Thailand Policy, the Non-Discrimination and Anti-Harrassment Policy, and the Diversity and Inclusion Policy which are in alignment with CPF's business principles that place importance on employee care and fair treatment on the basis of respect for human rights and international human rights standards including the Universal Declaration of Human Rights (UDHR) of the United Nations (UN) and the Declaration on Fundamental Principles and Rights at Work of the International Labour Organization (ILO), as well as the labour laws of the country in which CPF conducts businesses, criteria according to international standards to which CPF has adhered, the Company's Management Policy and customer requirements. CPF also encourages business partners to comply with the laws and international labour standards which are in line with the Company's Sustainable Sourcing Policy and the legally allowed maximum of 17 at each workplace based on size. If the election results do not cover diverse and vulnerable groups as aforementioned, the Company shall make a comprehensive selection of sub-committees to represent employees in such groups. The subcommittees are responsible for presenting their problems and suggestions to the Welfare Committee prior to meetings with the executives who represent the Company.

At present, the Company (Thailand operations) has a total of 113 committees with a total of 734 members, comprising 609 Thai employees and 125 foreign employees (proportion 83:17), while including 404 female and 330 male (proportion 55:45).

Supplier Guiding Principle, in order to have an effect on integrated practices to drive towards sustainable operational goals together.

CPF has employed foreign employees according to Memorandums of Understanding (MOU) on the employment of foreign employees signed by the government of Thailand and neighboring countries, directly through legal labour recruitment agencies in countries of origin to ensure that the processes and costs of hiring employees from the countries of origin are accurate and transparent while all employees, be they foreign or Thai, are to be treated equitably and equally.

In addition, CPF has clearly defined the responsibility for recruiting expenses of foreign employees. The employees are responsible for personal expenses such as passport fees, and CPF is responsible for recruiting costs occurred in the countries of origin and all expenses occurred from borders to workplaces in Thailand, which includes visa fees, work permit fees, and additional expenses during the COVID-19 pandemic, etc.

Diversity and Inclusion Management

CPF values and places importance on differences and diversity of opinions, employee skills and experience because CPF believes that diversity can enhance employees' abilities to drive the Company sustainably. CPF has established policies and guidelines to promote organizational diversity with the goals of protecting employees at all levels and promoting zero tolerence on all forms of discrimination due to characteristics of a person or a group in respect of race, nationality, lineage, skin colour, origin, belief, religion, social status, sexual orientation, gender, age, physical anatomy, disability or infirmity, language used, political ideas, marital status or any other information that causes discrimination. Moreover, CPF also prevents abuse and harassment of any kind, whether such behaviour has a sexual connotation or not. This principle has been applied domestically and internationally to employees at all levels.

CPF has integrated the United Nations' Sustainable Development Goals (UN SDGs) as part of its human resource strategy to drive the Company toward the sustainable goal of gender equality. The 2030 goal includes precipitating equal numbers and compensation rates of female and male employees at the same level of position. In 2021, CPF paid the similar average compensation between female employees and male employees in Thailand operations at the non-management level with the ratio of 1:1.17. CPF's guidelines for promoting compliance with the Diversity and Inclusion Policy are as follows: Leaders shall

- · Be acutely attentive to different opinions of others,
- Encourage employees to express their opinions constructively,
- Enhance work environment and mutual respect in order to be able to coexist on the basis of differences, and
- Adhere to the principles of non-discrimination and equal opportunity which include providing proper commendations to employees.

CPF also has a policy to encourage employees from all sectors to join as members of the Welfare Committee of the Workplace which is a representative group of employees from all levels and lines of work, to provide opportunities for employees to give suggestions to the Company on improvements of welfare, work environment, complaints and inappropriate labour management, such as putting in place crosswalks to enhance safety within the establishment and creating dining and resting areas during work hours within the establishment. The Welfare Committee shall receive opinions and consider such issues in order to make necessary adjustments and apply them within the organization. In 2021, 70 percent of CPF's employees in all Thailand operations already benefited from the improvements according to the recommendations given to the Company's representatives. In addition, CPF also additionally supports activities or facilitates foreign employees on the issue of language difference, such as announcements and interpretations for foreign employees in the workplace.

Labour Protection Network Foundation (LPN)

CPF together with the Labour Protection Network Additionally, this year's cooperation also included Foundation (LPN) have driven the promotion of human planning, implementation, and verification of ethical rights within the organization through the signing of employment processes, as well as encouraging a memorandum of understanding for four consecutive recruitment agencies in the countries of origin to ensure years. This year, we still placed importance on promoting that foreign employees were accurately, transparently human rights with good labour practices in accordance and responsibly recruited when the government allowed with the principles of human rights, managing human foreign employees to enter the country during the COVID-19 rights issue, caring for employee health and safety, outbreak. We also organized focus group activities and organizing human rights training which covered with foreign employees at the dormitories to enhance the labour protection law regarding occupational health understanding and cooperation on disease prevention and safety at the workplace for employees, along with practices in the workplace and residence, and invited continuing the "Labour Voices Hotline by LPN" project employees to voice their concerns and suggestions that ensured a neutral organization that listened to the in order to promote employee well-being and safe voices of all employees. The Labour Voices Hotline work practices, and to allow harmonization and helps the Company to acknowledge employees' reconciliation within the organization. problems or suggestions in order to align the Company's With the ongoing COVID-19 outbreak over the past measures with the principles of human rights in a 2 years, CPF has been providing ready-to-eat food timely manner. In addition, the cooperation with the products and fresh eggs to LPN Foundation. The food LPN Foundation, which is a civil society organization products are included in the survival kits to be distributed that specializes in protecting and promoting the rights as part of COVID relief to foreign employees who have of foreign employees in the country, reinforces CPF's been continuously affected by the situation in various commitment to promoting human rights and improving areas since 2020. the quality of life of employees, which ensure that employees have equal access to the rights.



LPN CPF contributed to COVID relief for foreign employees and vulnerable groups through LPN Foundation

Human Rights Complaint Management

In 2021, CPF received the total of 4 issues concerning human rights complaints through the Labour Voices Hotline by LPN. All were from foreign employees, with details as follows:

One telephone call was about the employee's misunderstanding in respect to the reason for dismissal. After fact checking, it was found that the employee had violated preventive measures against the spread of COVID-19 under the bubble & seal system, with which all employees are required to strictly comply. The LPN Foundation and the Company had jointly clarified to the employee that such action might cause serious damage to the Company. Therefore, the Company was obliged to act in accordance with the work regulations. In addition, the Company had lemployees must acknowledge and be aware of the seriousness of consequences as a result of measure violation.

Human Rights Due Diligence

In 2021, CPF reviewed the human rights due diligence (HRDD) process for every domestic business of the Company in Thailand. The review took into account all diversity groups, racial and religious minorities considered as vulnerable groups, and groups of persons with disabilities and children. The human rights due diligence comprised 7 salient human rights issues, namely employment conditions, employee health and safety, community health and safety, personal information, use of illegal labour (such as child labour, forced labour and foreign labour) in the supply chain, health and

- One telephone call was about a concern of an employee when there was a failure to conduct a transaction at the bank and the employee was informed by the bank that the the identity document had expired. It was found that the bank was unaware of the government's easing measures which extended the period for foreign employees to legally stay and work in the Kingdom of Thailand during the COVID-19 outbreak. The Company had made announcements to inform all foreign employees to thoroughly acknowledge and understand the easing measures.
- Two telephone calls were about employees' compensation. During the COVID-19 situation, work processes had been adjusted in accordance with various disease control measures, which affected the preparation of documents relating to payment of wages. The Company had investigated and took corrective action immediately upon notification, including adjusting the document processing and data entry to be more precise.

safety of suppliers and contractors, standard of living and community safety in the supply chain. This review has been conducted annually since 2016, whereas the human rights due diligence is conducted every 3 years. Currently, the Company has already prepared and planned for the human rights due diligence of 2022 as well as the human rights impact assessment (HRIA), all of which shall be disclosed to the public in 2022 (Additional details are available on the Company's website: Human Rights Due Diligence).



CPF received a plaque and an honour certificate: **Outstanding Human Rights Award 2021** for Large Business Organization, from the Prime Minister as the Company had been outstanding in all aspects of operations according to the principles of human rights and the Company's commitment to systematically integrating the principle of universality of human rights throughout its supply chain. CPF has placed importance on employees and all stakeholder groups, by treating them equitably, earnestly and continuously without discrimination. CPF also conducts audits and evaluation, and encourages business partners and farmers in the supply chain to apply good practices in order to promote upholding of human rights according to international standards. Particularly, the Company's potential can be showcased as a pilot organization which passes on, carries on, and builds on the knowledge and experience in human rights for a wide range of organizations in order to achieve tangible results that lead to sustainable social development.

Occupational Health and Safety

Employee Care during the COVID-19 Outbreak

CPF gives priority to employee health, safety and well-being. Therefore, CPF has prepared and implemented intensive measures to monitor, guard against and prevent the spread of the pandemic.



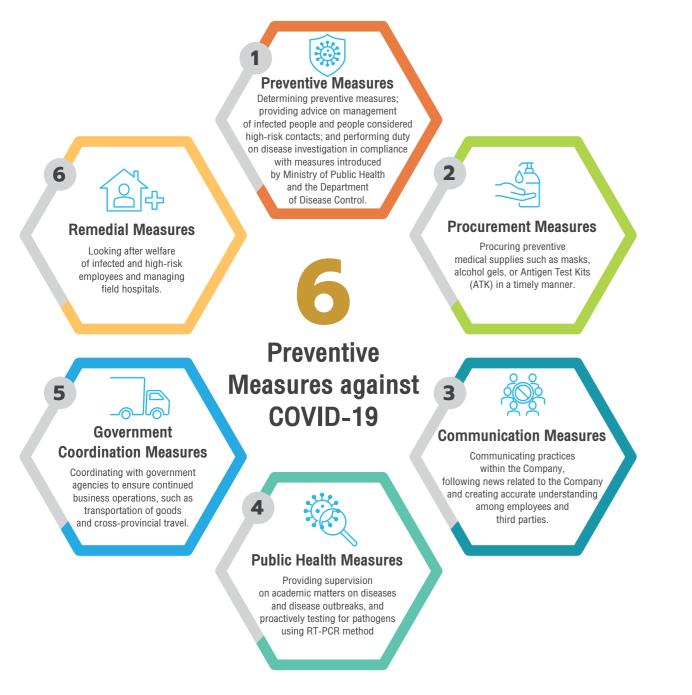


"Because employees are heroes ... CPF is a safe food producer that must contribute to maintain food security for the country and employees play an important role in food production ... In the situation of COVID-19 outbreak, all employees are sacrificed who come out to work for the public, therefore, we must ensure that they are safe and secure in their work."

Mr. Prasit Boondoungprasert Chief Executive Officer



CPF has established the Center for Preventing the Spread of COVID-19 and 26 Coordinating Centers covering all business units within Thailand operations. Safety officer teams are stationed at the coordination centers, monitoring compliance with factories' measures. Sub-centers have also been set up in factory areas to ensure operational flexibility and monitor the situation. Six measures have been introduced and implemented:



To prevent impacts on health of employees and family members as well as the Company's business operations, CPF has conducted knocked door audit at the business units and remote audit (On and Off Site Audit) to ensure that the prevention of the disease outbreak is strictly and effectively implemented. The strict implementation of measures has resulted in successful management of the prevention of COVID-19 as reflected through CPF's certification of hygienic standards: "IPHA - Industrial and Production Hygiene Administration" covering its 61 factories, which is the highest number among industrial plants nationwide.



CPF has procured and purchased vaccines to build herd immunization for all employees in the production and support functions since November 2021, to ensure continuous stability of food production processes and enhance consumer confidence in the hygiene and safety of the Company's products.



Although CPF has implemented intensive preventive measures, more than 10,300 of its employees have been confirmed to have COVID-19. CPF has put great effort to control the spread of the disease by immediately conducting a process of screening patients for treatments at hospitals or hospitels arranged by the Company, or Saraburi and Nong Chok field hospitals built by the Company with up to 780 beds. The process also includes isolating high-risk contacts for symptomatic observation and periodic screening using RT-PCR and ATK. In addition, CPF has also provided 24-hour CPF COVID-19 Hotline to answer all questions or concerns from employees about COVID-19 as the Company is concerned about the physical and mental health of all employees.

Occupational Safety, Health and Work Environment Projects

With awareness and focus on occupational health, safety, and work environment of employees and contractors, CPF therefore implements various projects to ensure that employees and contractors can work safely, with details as follows:

Safe Think Safe Act Project

The Layer Business has applied the principles of behavior-based safety to reduce speeding behavior in order to reduce the Company's car accident statistics, which include assessing risky behaviors and communicating to employees who are in at-risk groups, along with organizing training courses that focus on driving attitudes and behaviors and mandating participation in a 21-day behavioral observation program, in which a supervisor is involved in the behavior assessment once a week. An incentive reward has been introduced to lower risky driving behavior. As a result of the program implementation, the number of at-fault car accidents decreased by 16 percent compared to 2020.



Wearing a Full Body Safety Harness and a Lifeline with 2 Hooks

Preventing Falls from Heights Project

In 2020, due to accidents related to working at height, the Livestock Feed Business set more stringent operating standards to prevent accidents, with details as follows:

- 1. Installing roof walkways and lifeguard anchor points in every area.
- 2. Installing standard slope ladders or scaffolding for climbing up the roof and coming down.
- 3. Implementing a full body safety harness and a lifeline with 2 hooks for operators.
- 4. Using internationally standard-certified equipment for working at heights.
- 5. Ensuring expertise and experience in working at heights among contractors.



Roof Walkway

SMART SHE Project

The Livestock Feed Business has adopted digital platforms such as sensors and Internet of Things (IoT) to create systems that support the operations relating to safety, health and environment (SHE) to improve efficiency and keep track of SHE information, so that SHE can be followed up and monitored at all times. This implementation is divided into three parts:

SAFETY: controlling high-risk work tasks by implementing a measure of safety checks through Smart Work Permit Application, which increases work efficiency to ensure safety and reduce paper usage.

HEALTH: assessing work environment through real time sensors which help monitor work environment that may cause occupational diseases.

ENVIRONMENT: measuring guality of environment inside factories, such as qualities of air and effluent before discharging to communities, as precautions to control impacts which may occur to communities.

Information gained from all three parts is managed on Smart SHE Platform that displays data in the form of a dashboard which can be accessed on computers and smart phones in real time, enabling access to information anywhere, anytime. There is also an instant notification when an abnormality is found.



SMART SHE System

Employee Health Promotion

Employees are the key force in running business. CPF therefore pays attention to and takes good care of health and well-being of its employees, along with implementing projects to promote employee health and well-being.

Happiness, Physical Health and Healthy Heart Project

The Livestock Feed Business has carried out activities to encourage employees to stay healthy through exercising and eating good and beneficial foods, by establishing health clubs, arranging exercise areas, providing in-house stadiums and fitness rooms as well as sports equipment. In addition, there are sports competitions between work units, for example, CPF Running Club and football competition.



Inter-Unit Sporting Events

Clean and Organic Vegetables Project

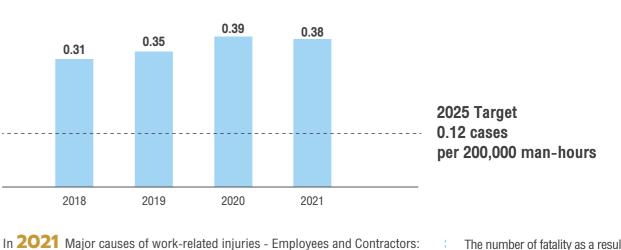
The project is implemented to encourage employees working at animal farms in Thailand, Vietnam, and Laos operations to grow organic vegetables for consumption in order to promote good health among employees through clean and safe foods.



Organic Vegetable Gardens in the Company's Animal Farm Areas

Performance in 2021 (Thailand Operations)

Lost Time Injury Frequency Rate of Employees



1. Being cut or stabbed by sharp object; 4. Crashed or collided with object; and

2. Being pinched or pulled by object; 5. Falling or slipping

3. Being injured by falling object

Despite CPF's efforts to prevent accidents during work, in 2021, four employees were involved in accidents: pinched or pulled by objects, cut or stabbed by sharp objects, and collisions with objects, causing injuries that have let their bodies unable to restore to original states within 180 days. To prevent future recurrences, the Company had urgently investigated root causes and formulated corrective solutions and measures, for example,

- safety before starting work every time,
- Modifying equipment to prevent accidents related to employees being pinched or pulled by machines and being cut or stabbed by sharp objects,



The number of fatality as a result of work-related injury for employee and contractor



- Checking equipment and work areas to ensure
 Strictly enforcing the regulations on personal protective gear based on the risks of each type of work, and
 - Increasing frequency of employee and contractor • trainings on machine operation.

Unit: Cases per 200,000 man-hours



2030 Target



3 million hours

of education and training for employees



CPF is committed to creating good work experiences for employees and aims to be a learning organization to provide integrated care for employees throughout their periods of employment with CPF. Skills and knowledge necessary for becoming future workforce will be developed to enhance value of every employee in the organization, all of whom are the key to driving sustainability and passing on the organizational values to the outside society.



Ms.Pimonrat Reephattanavijitkul Chief People Officer Head of Ambition – Lifelong Learning

Lifelong Learning Ambition

The current global situation is changing rapidly due to advancements in technologies and innovations that constantly emerge, and the impact of the COVID-19 pandemic. As a result, business conduct guidelines have changed, and competitive rate for quality employment in the market has increased. The Company therefore has to improve its human resource management strategy and organizational structure accordingly, as well as increase strength and happiness within the organization to ensure that employees are ready to deal with changes in a timely manner.

Management Approach

- Being a Learning Organization: focusing on developing personnel skills and potential in order to equip employees with skills to operate in the midst of changing organizational context, and expanding learning opportunities to employees' families, business partners and people in society.
- **Managing 'Talents':** keeping highly qualified employees with the organization and attracting talents to the organization, as well as planning employee career paths, along with succession plan for replacement of key positions to support sustainable business expansion.

Implementation

Being a Learning Organization

Technologies and innovations play important roles in the current global situation, causing rapid changes as well as unprecedented skills and an increase of competitive employment. CPF, therefore, strives to be **a learning organization** that encourages employees to everlastingly develop their skills and potential. The Company also recognizes a great opportunity to encourage students and people who can potentially become vital workforces in the future to gain knowledge, skills and potential that sustainably meet the business requirements.

Employee Development

CPF is committed to developing employees by enhancing their knowledge, skills and abilities in every aspect to meet requirements of the targeted organizational structure and manpower. CPF has set individual development plans (IDP) to ensure that all employees are ready to perform both present and future tasks quickly and effectively. In this regard, employee learning and development programs have been established and are divided into 4 important areas as follows:

 Fundamental Program consists of basic courses necessary to creating awareness and understanding of duties and responsibilities, which include Compliance with Laws, Rules and Regulations, Corporate Governance, Code of Conduct, Disciplinary Action, and Occupational Health and Safety Work, as well as courses such as Organizational Sustainability Development and Preparation for Digital Workforce.

- Corporate Culture and Engagement: creating a strong corporate culture with morality and ethics under the 6 values of the "CPF WAY." The Company has placed great importance on shaping employees at all levels to have awareness, understanding, acceptance, and implementation of the corporate values. The Company has also focused on improving employee engagement through the CPF@Heart Project in order to enable employees to generate positive outcomes and organizational goals.
- Manpower Management: developing work structures and analyzing human resource management approaches to be in line with a business continuity plan, by using in-depth data analysis to make decisions and to efficiently create a business plan.

2. Future Skills Development Project that focuses on developing digital literacy of employees, which includes hard skills such as Data Analytics and Robotics, and soft skills such as Design Thinking and Agile. The development programs comprise 4 levels covering basic to advanced levels for laying foundations and enhancing employees' skills in using digital technology in each target group. Moreover, various courses in other areas are offered that helps develop knowledge and future skills, improve job-specific skills to develop essential work skills, and foster a global vision and synergy among employees to accommodate the organizational growth in the future. In 2021, CPF trained more than 22,000 employees on digital literacy to build digital foundation. CPF has joined forces with True Digital Academy, with more than 600 employees participating, creating 47 data analysts from 10 projects through Data Analytics Boot Camp by analysing real business problems and proposing

plans worth more than THB 300 million per year. In addition, the project has been further developed to create information experts including 100 data analysts and 50 junior data scientists in the following year, to support manpower planning in the digital era.

- 3. Leadership Development Program aims to develop leadership skills among supervisors, managers at all levels and executives. The program has been developed to ensure readiness in systematically developing teamwork and management skills. In addition, talents have been selected to participate in the Leadership Development Program for selecting personnel to strengthen the business, being prepared for internal growth and supporting the organization towards sustainable growth. More than 1,000 employees have participated in the Leadership Development Program.
- 4. Technical Development Program promotes technical skills and knowledge management of each business unit in order to comply with the same system and standard by establishing Technical Academy based on professional groups, creating mutual learning and knowledge sharing society through the Learning Community to develop knowledge and skills that are truly in line with responsible tasks, and enhancing

employees' abilities to ensure their readiness for the business growth, that changes rapidly. In 2021, CPF established Technical Academy for 9 business units, and the initiative will expand to all 27 business units in 2022.

In addition, CPF has recognized the importance of fostering a corporate culture of sustainable learning and therefore creates an atmosphere that supports lifelong learning through a variety of learning formats known as hybrid training. The training includes on-line, on-site, on-ground and on-demand formats tailored to suit each learning course which emphasizes lifelong learning, implementation and development. For example, self-learning through e-Learning, live learning through virtual training, group coaching and on-the-job training.

Particularly given the current situation, CPF has provided an opportunity for employees to adjust work styles to suit their functions, and supports self-learning anywhere, anytime through the learning platform called **"Im-Ru"** that provides employees with internal and external access to knowledge and skill developments, and on-demand learning with more than 900 courses.

As of 2021, CPF have encouraged employees to attend training courses and develop their potential, averaging 14 hours per person per year (Thailand Operations).



Digital Platform "Im-Ru" Where Employees Can Take Classes to Enhance Their Knowledge and Develop Skills Anywhere, Anytime on Computers, Tablets, and Mobile Phones



Examples of CPF People Manager; One among the Important Future Skills, and Leadership Development Program

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Development of Learning Society

CPF has continuously provided educational support to students, employees and children of employees with aim to help them meet future work requirements.

 Scholarship Program for Employees and Their Children: providing opportunities on accelerating human resources development and building personnel with future skills to expand business in important fields that are beneficial to the country and that still face labour shortages. In 2021, 80 scholarships were awarded to undergraduate and graduate students studying domestically and abroad.

Building People

through the program development

that create experimental learning opportunities with hands-on practice, in order to develop students and their knowledge, abilities and experiences that meet labour market needs.

Building the Future through the research and development

that opens the door for students and faculty members to further expand their knowledge through joint research and application of research results in the business world, as well as providing students with opportunities to build their future by working with CPF. New Personnel Development Project in collaboration with a network of higher education institutions from both the public and private sectors domestically and internationally to jointly develop students' potential and ensure that their knowledge, abilities and experiences meet requirements of the labour market, as well as generating understanding and improving essential business and future skills, along with creating graduates who can be important forces to drive the country in the future through joint developments of a wide range of training programs, research studies and activities that lead to actions, which in turn strengthens human resources, the future, and networks as follows:

Building Networks through various activities and projects

that strengthen good relations between higher education institutions and CPF which lead to wider collaboration. 69

- Solution of the second second
- Solution with Kasetsart University.
- \checkmark Building Networks through various activities and projects that lead to wider collaboration, such as the Virtual Hackathon competition with the 42 Bangkok, a coding school under the supervision of King Mongkut's Institute of Technology Ladkrabang, which was an initiative activity that led to collaboration which aims to tackle programmer shortages in Thailand; and CPF Young Software Developer, a pilot project in collaboration with Kasetsart University and King Mongkut's University of Technology North Bangkok, to create young software developers by allowing students to develop software based on CPF's real business issues, resulting in learning and solutions that can be applied in practice.

In addition, CPF has also continuously provided internships, cooperative education and bilateral projects. In 2021, CPF recruited 231 students from 33 institutions. 38 percent of students from these projects have been offered employment at CPF.

- Promoting Knowledge for Students and Teachers in Educational Institutions: driving development and improving quality of Thai education for sustainable development through the CONNEXT ED project established in 2016 and other school development programs. 65 experts of the businesses operated by CPF have served as the Company's volunteer school partners delivering knowledge on animal farming and production of good quality, hygienic and safe foods for consumers. The partners also help develop students and teachers in 296 schools under CPF's care. The training is hands-on and is conducted in schools. Therefore, students can access essential nutrients and generate income as well.
- · Promoting Knowledge to Enhance Work and Create Careers for People: transferring knowledge to create careers for those who are interested in doing business with CPF, and building communities that can share knowledge by utilizing knowledge management of the CPF Training Center, including sharing knowledge with farmers in the contract farming on animal farming, animal tending and preventing animal diseases according to animal welfare principles, as well as promoting knowledge, understanding and important laws and regulations to develop business partners' abilities, all of which enhance operations from the beginning of the supply chain (Additional details are available in "Balance of Nature" under the ambition: "Responsible Sourcing for the Planet").



Examples of Knowledge Management for Career Creation for Outsiders

'Talents' Management

CPF has placed importance on performance management to attract and retain talents to work and grow with CPF, which is a mechanism that enhances sustainable competitiveness with a goal of becoming a **"High Performance Organization"**. CPF has determined guidelines for annual employee performance review and development planning for systematic growth, which comprise clear goal indicators that are in line with the corporate strategic goals. CPF also promotes the achievement of employee performance goals through continuous and consistent self-improvement. In 2021, all CPF employees received their annual performances and career development review.

Annual Performance Management



Career Growth Opportunity

CPF focuses on supporting employee growth paths to be working and growing together with the organization that match employees' abilities and individual in the long term. In 2021, the proportion of employees developments in order to create good work experience, being admitted to open positions filled by internal self-development for a happy life and organizational candidates was approximately 65 percent of the engagement, resulting in performing works and positions opened for applications in 2021. developing the organization towards sustainable growth. In addition, CPF promotes the "Refer-a-Friend" Project, Under the "Chance for Change Program", employees which has been initiated for employees to recommend are given opportunities to manage their career path friends to work with CPF. This enables new referred by themselves through applying for vacancies within employees to adapt to the corporate culture well, the organization. As employees have understood CPF's resulting in employee engagement and increased job business and have been familiar with the corporate satisfaction. This project implementation corresponds culture and values, this program therefore provides to a lower turnover rate and becomes the most efficient employees with opportunities to learn and develop channel with a success rate of about 3:1, meaning skills and abilities for the right job positions, which that if there are 3 applicants being interviewed, 1 out lead to new skills and experiences from works in which of the 3 can be successfully recruited to join CPF. employees are interested. This also encourages talents

The annual performance review is used as a basis for the reward program for employees, which incentivizes employees to perform duties as the program rewards employees whose performances are good. This has led to consistent improvement in performance. In addition, CPF places emphasis on continuous development of employee performance through coaching and feedback, and provides opportunities on professional growth and cross-professional growth to employees who possess appropriate abilities and skills.

Organizational Culture and Engagement



- Loyalty: promoting atmospheres of appreciation • among employees, supporting products and services, conducting oneself according to the corporate values, fostering love and pride, and making employees feel special and important, which result in corporate and product engagements.
- **Omnichannel:** communicating through all channels within the organization and to the public about great corporate stories in order to keep the public well-informed and protect the organization.

CPF is committed to operating in accordance with the 6 values of the "CPF WAY" which comprises (1) Three Benefits to Sustainability (for the Country, the People and the Company), (2) Speed and Quality, (3) Simplification, (4) Adapt to Change, (5) Innovativeness, and (6) Integrity, Honesty and Reciprocity.

The Company has adhered to principles of corporate culture according to 3P Corporate Culture Framework as follows:

- 1. 'Process' includes a systematic process and an effective communication process that can transfer knowledge, experience and corporate vision to employees at all levels;
- 2. 'People' includes CP Ambassadors and CPF working groups who drive a wide variety of activities as well as providing opinions on activities related to the formation of corporate culture; and
- 3. 'Platform' represents two-way communication and learning systems that properly support communication, effectively create knowledge and proactively welcome employee feedback.

In 2021, CPF raised a level of cultivating its core value to be recognized and acknowledged, and put it into practice in operations. The Company implemented the CP LOVE Platform to improve communication efficiency, boost compliments, welcome employees' opinions and encourage good deeds according to the CPF Way.

- Volunteer: creating engagement with employees at all levels through various projects regarding good deeds and earth and environment protection, aiming to promote career opportunities as well as generating jobs and incomes to raise community well-being according to the Three-Benefit Principle.
- Education and Empowerment: setting up a group of more than 300 CP ambassadors who were considered the organization's change agents in order that they could obtain accurate information through training/learning courses, and display desirable behaviour and adopt digital transformation to accommodate changes.

In the past year, the Company had initiated "Showing through CPF Connect when their colleagues performed according to CPF Way. The employees then would Appreciation for Good Work Right Away without Delay" be rewarded with CP Value Points which could be Project as one of the projects promoting employee constant recognition or on-spot reward. Employees accumulated and redeemed for products and services and superiors were able to show their appreciations that meet their requirements.





Examples of Communication Promoting Expression of Admiration and Cultivation of Core Value 'CPF Way' to build senses of love and pride in CP, employees can use CP Value Points obtained when being appreciated by colleagues to exchange products and services that are exclusive for employees at stores that meet employees' lifestyles

In addition, appreciation activities could be implemented of the project. Employees eligible to participate in both in a wide variety of ways, such as showing appreciation projects based on their interests can earn CP Value for good deeds through sustainability promotion Points by sharing photographs as required by the projects, namely the "Empty Plate, Save the Planet" projects through social media channels to create Project with the goals of reducing food waste and acknowledgement and pride, and encourage employees greenhouse gas emissions, and the "Forest in the to participate in more activities, which is part of overall City" Project aimed to increase green areas, which corporate engagement (Additional details are available in turns helps enhance the well-being of community in "Balance of Nature" under the ambition: "Climate, members who help planting seedlings and take care Water and Waste Excellence" and "Waste to Value").

CPF has a procedure and communication channels used to transfer organizational knowledge, information, policies, experiences and vision as well as benefits and various kinds of information to employees at all levels. The Company, together with the CP Ambassadors as communication representatives from business units, emphasizes colleague participation in order to drive corporate change and ensure that all employees obtain accurate information and are treated equally and thoroughly.

In the past year, CPF developed the **HR-eXp** system and CPF Family which are effective communication platforms supporting two-way communication at work,

generating knowledge and welcoming employees' opinions so that employees can easily adapt themselves since the first working day at CPF. The platforms promote better work experience in line with the work from home policy during the current situation pandemic and hybrid work in the future.

Employees can access the system via mobile phones and it still supports on the activities, so that employees can build good relationships among each other on the online platform, along with creating a culture of appreciation to foster bonds among supervisors and colleagues.





Examples of Internal Communication or CPF Family, and Communication Images and Media Showing How-to of Using HR-eXp System

Enhancing Employee Engagement

Since 2018, CPF has continuously conducted employee engagement surveys and analysed the survey results to determine areas that had been handled well and those that need improvement at the corporate and department levels. The Company has set action plans to enhance employee engagement by promoting participations of business units' representatives to learn and study the survey results, as well as taking part in the preparation of action plans as they are the Change Agents playing important roles in creating change, communicating within the responsible departments, driving activities and following up on

CPF We Care focuses on four main areas: Care for Benefits, Care for Career, Care for Culture, and Care for Well-Being.

1. Care for Benefits: focusing on activities concerning employee welfare and compensation Example

- Debt relief programs to help ensure happiness and reduce employees' debt.
- Information on the scholarship programs for employees and employees' children.



Example: The Launch of The Debt Relief Project to Ensure Happiness, Reduce Employees' Debt, Improve Employees' Quality of Life, and Promote Knowledge on Financial Planning and Financial Discipline

2. Care for Career: focusing on employees' career advancement

Example

- · Creating understanding on plan and goal setting, and personal development.
- Creating understanding on career planning.
- Employee development projects in various fields to promote necessary knowledge and skills.
- Promoting the use of "Im-Ru" platform for self-improvement and exchange of knowledge in various fields.

- various issues, all of which have been implemented to achieve success determined in the action plans which are based on factors affecting the corporate engagement. The Company aims to increase its employee engagement from 71 percent to 74 percent in 2022 after implementing the action plans.
- To achieve 2022 goals, the Company has organised activities to build employee engagement under the CPF@Heart Project which includes two subprojects; CPF We Care and CPF Love&Share, with details as follows:

3. Care for Culture: promoting culture

Example

- Showing appreciations to colleagues as soon as they do good deeds (On-Spot Reward).
- Focusing on work atmosphere that promotes giving suggestions, not directions in order to provide opportunities to the new generation so that they can try to do new things instead of following old practices.

4. Care for Well-Being: focusing on employee well-being

Example

- Projects promoting employee well-being both at work and at home, such as massages, "Hang on and Smile" to reduce symptoms of office syndrome.
- Guideline and supports for employees during the situation of COVID-19, such as giving king of bitters extract capsules and antigen test kits (ATK) to executives and employees.
- Self-protection measures during the COVID-19 outbreak, such as COVID-19 vaccines supplied by the Company or the Social Security, and free masks through the Masks for All Project.
- Flu vaccines for employees during the epidemic season.



CPF Love&Share focuses on providing benefits and discounts to employees and their families, activities showing and forwarding love through social media, and establishing CPF ambassadors.

Example

- Collaborating with True to offer True special privileges and True products for employees and their families, such as TrueMove H network's special packages, True Internet and telephones with special prices.
- Providing simple knowledge in a timely manner to keep pace with the Company's business operations, such as antibiotic-free fresh meat products, CP fresh eggs, CP Pacific Shrimp fresh, sweet, firm, delicious by just blanching.



Establishment of Employee Clubs

Additionally, in the past year, CPF also established employee clubs and carried out activities for employees having mutual interest in contributing to society and the public through 15 employee clubs relating to recreation, career promotion, sports and health, and social activities. Employees can choose to join the clubs according to their interests, which creates good relationships between the management and employees, as well as providing employees with opportunities to exchange perspectives and accept difference in opinions, leading to positive working environment and happy life that in turn positively affect employee engagement as well.

Workforce Management

Toward becoming a technology and innovation-driven organization, CPF has introduced a technological tool for strategic workforce planning to analyze and create workforce management plans that can meet its vision, mission and strategic goals. In addition, the **6 Rights Principles by Korn Ferry**, a global organizational consulting firm, have been systematically applied in the strategic workforce planning as well.

RIGHT SOURCE

Adopt modern technologies to reduce labour costs, improve efficiency and create safety in business operations

RIGHT SITE

Determine adequate and appropriate number of skilled personnel according to the business requirements in a suitable environment



Calculate personnel costs in accordance with business productivity

CPF@ HEGRT CPE มาจากการสร้างครอบคริว ແສ່ນນີ້ໃສ້ເ**ສບາ** ເບລາໜີບ ขอเชิญชวนชมรมและคลับกิจกรรมต่าง ๆ ของพนักงานที่มีอยู่แล้ว มาลงทะเบียน เพื่อรับสิทธิ์เงินสนับสนุนการจัดกิจกรรม าะเบียนง่าย ๆ เพียงแค่ Scan OR Code Mão Aã



RIGHT SIZE

Set appropriate target manpower and plan in order to operate the business efficiently and effectively



RIGHT SHAPE

Set up appropriate personnel structure and determine levels of positions that correspond to departmental and organizational characteristics



RIGHT SKILLS

Analyze future jobs and skills, and consider which jobs and skills can be replaced by technology and automation systems, including setting personnel development plan to move towards defined future goals The Company has planned to manage strategic manpower to achieve a balance between:

- **Demand Planning** in terms of quantity and quality that are appropriate for each unit in the organization according to the business plans, including targeting productivity that can be measured, such as income per employee and employee cost per income.
- Supply Planning by analyzing current manpower data such as turnover rate and retirement.

All principles and data are combined with the use of technology system in order to set formats for manpower planning throughout the Company's processes and simulate scenarios according to business assumptions. CPF has continuously assessed the strategic manpower planning and applied the analysis results to relevant departments such as Recruitment Department and Human Development Department.

In addition, CPF has promoted the concept of Modular Organization to enable employees from various units or work groups to implement projects mutually, by applying agile principles to promote agile working and readiness to adapt to change in a timely manner.

It also aims to foster open teamwork allowing the team members to learn and accept each other, and to be decentralized and flexible. In 2021, CPF promoted working in the format of Modular Organization through projects related to innovations and productivity improvement, Tao Kae Project, and other Cross-Functional Projects.

The Modular Organization concept has introduced employees to new skills allowing them to guickly respond and cope with changing conditions due to internal and external factors. The employees can work efficiently and also continue to create innovations and drive the organization towards sustainable success.

In the past year, over 12,000 employees had opportunities to learn to work according to the Modular Organization format through more than 6,000 projects. The Company is determined to expand the Modular Organization working format continuously as one of the key indicators, which demonstrates its determination on driving this issue.





2030 Target

Improve **3,000,000** livelihoods

in communities connected to our business activities



Mr.Wuthichai Sithipreedanant Senior Vice President in Corporate Sustainable Development Head of Ambition – Social Impact

Poverty and social inequality have remained challenging issues that affect quality of life and well-being of people worldwide. Moreover, due to the ongoing situation of COVID-19 outbreak over the past 2 years, smallholder farmers who produce agricultural raw materials are one group of people who are facing a difficult situation including problems caused by climate change, low production prices and increased production costs¹. In addition, small business entrepreneurs, accounted for 90 percent of global business operations with employment rate contributing to more than 50 percent of global employment², is another group that faces these challenges. Meanwhile, the world is entering an aging society and the number of vulnerable social groups due to various crises is increasing³. As CPF's business operations are linked to many smallholder farmers and small business entrepreneurs, CPF recognizes its role of its participation in managing social and environmental issues, by placing importance on developments of farmers and small business entrepreneurs as well as vulnerable groups in order to enhance well-being, increase necessary knowledge and skills, and support business partners and communities to be prepared for current and future challenges. CPF believes that a genuine commitment to improving the quality of life is a starting point that leads to change, resulting in sustainable outcomes.

Unsung Heroes: How Small Farmers Cope with COVID-19, International Trade Center, April 2020. ² Small and Medium Enterprises (SMEs) Finance, The World Bank, January 2022.

³ World Population Ageing 2020 Highlights, United Nations Department of Economic and Social Affairs, Population Division



CPF places emphasis on holistic social development, promotes well-being, and enhances knowledge and skills needed by communities. as well as supporting suppliers towards better achievements and preparedness for current and future challenges.



Social Impact Ambition

Management Approach

- Declarations of Policy and Commitment: conducting business with social and environmental responsibility, aiming for sustainable growth.
- Ensuring Engagements: engaging with partners, farmers and community members, by listening to their problems and requirements as well as participating in developing operational guidelines that positively affect people's lives.

Implementation

Community Support

Supporting Income Generation

• Supporting smallholder farmers

CPF places importance on smallholder farmers who are the cornerstones of the country's economy. Therefore, CPF supports project initiatives to promote smallholder farmers' animal farming under contract farming to improve farmers' quality of life. It started with the broiler farming promotion project in 1975 which has been further expanded to pig farming, layer farming, meat duck farming and aquaculture farming, to create the country's sustainability which is in line with the 'Three-Benefit Principle', namely benefits to the country (every country in which CPF has invested), the people, and the Company. In 2021, CPF contributed to income generations of more than 9,400 smallholder farmers from the operations in Thailand, Vietnam, Turkey, Cambodia, Laos, India, Philippines and Malaysia.

• Supporting small business entrepreneurs

CPF is committed to continuously improving people's quality of life by providing small business entrepreneurs with opportunities to start their own businesses with small investing budgets through Tao Kae Lek Project including Five Star Business, Pork Shop, Star Coffee, Chao Sua Duck, Iron Pan, CP Fresh Shop and Fresh Market Refrigerator. In 2021, the number of small business entrepreneurs from the operations in Thailand, Vietnam, Turkey, Cambodia, Laos, India, Philippines and Malaysia were more than 5,300.

- Providing Support and Promotion: deploying • organizational potential which includes resources, personnel, and knowledge to support partners, farmers and community members in order to create positive impacts and mitigate negative impacts in societies.
- Building Cooperation and Alliance Networks: • collaborating with alliance networks throughout the Company's value chain, including related stakeholders, to jointly develop operational guidelines that promote the improvement of community quality of life.

Supporting communities around the establishments

CPF places importance on participation among factories, farms and communities, and therefore engages with stakeholders by using community tools such as geo-social mapping, building dialogues to explore community requirements and set promotion plans, creating community engagement, and improving quality of life, all of which enable harmonious coexistence between communities and the Company's establishments. In 2021, Thailand operations adopted 263 community requirements to develop into various projects including the CPF Growing Happiness, Growing Futures Project to promote good nutrition in children and youth studying in schools around factories and farms, Creating and Maintaining Community's Way of Happiness Project, Community Drinking Water Project, and Eggshell Fertilizer for Community Project, all of which are part of CPF's effort to promote community quality of life. Moreover, CPF has supported more than 7,000 communities in the operations in Thailand, Vietnam, Turkey, Cambodia, Laos, India, Philippines and Malaysia, such as the Chicken Herd with Red Scarfs Project in Vietnam, and Growing Clean and Non-toxic Vegetables Project in Laos.







Support Incom Generations of Small Business Entrepreneur

Generations of Communities around the Fetablishments

Supporting Vulnerable Social Groups

CPF recognizes the importance of food hygiene, particularly for those who are considered vulnerable processing and selling within communities as a way social groups, including children, youth, elderly and to increase income. This project also promotes access socially disadvantaged individuals. During the COVID-19 to nutritious food and helps reduce malnutrition among outbreak, many families lost their incomes as many school-age children who are the country's future. were laid-off and became unemployed. CPF, therefore, In addition, CPF has also joined in adding support has imparted abilities and expertise of its employees continuously with nutritious foods for elders and victims to children and youth studying in schools around the of COVID-19 pandemic, through CPF's Fund for Elderly establishments, so that they could learn the practice Project, CPF's Food from the Heart against COVID-19 of layer chicken and fish farming, and growing home-Project and Krua Pan Im Project, and many more. grown vegetables in order to use farm produce for

Supporting children and youth

operations)



the COVID-19 pandemic (Thailand Operations)

(Thailand, Vietnam, Turkey, Cambodia Laos, India, Philippines and Malaysia

Supporting Community and Social Activities

CPF is committed to supporting activities that benefit charitable donation (7 percent), investing in community communities and societies, by using the organizational support (62 percent), and giving supports through potential to create positive impacts on societies through commercial activities (31 percent). The forms of social various activities and projects. In 2021, CPF Thailand support are different according to activities as follows: operations had supported societies in the form of

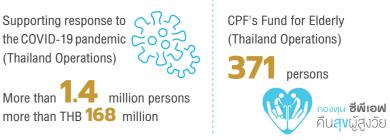


Measuring Social Performance

CPF's CSR-in-Process

Farmers in the contract farming program are deemed from communities and must be located in an area CPF's key stakeholders according to the concept of with sufficient natural water resources to avoid negative Farmers are Life Partners. Therefore, CPF's ultimate impact on the surrounding communities. A biogas goal is to create career stabilities and generate incomes system has been installed to treat pig manure and and well-being for farmers, which also helps to promote water used for raising pigs in order to reduce odors the country's economic stability and the world's food and methane released into the atmosphere. With the security. CPF has continuously developed a farm model goal of zero discharge of water, treated water will then in the project promoting fattening pig contract farming. be used to fertilize trees. As a result, communities At present, it has received the status of a green farm, and farms can coexist harmoniously. which requries public hearing to obtain testimonies

lunch at schools. CPF has also been promoting produce



SROI

428

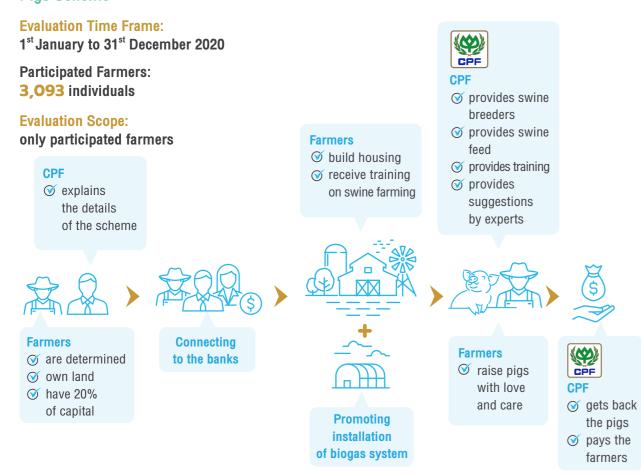
Times

(THB

4.574

Million)

The Process for Participating in the Income-Guaranteed Contract Farming of the Fattening **Pigs Scheme**



In 2021, CPF conducted Social Return on Investment (SROI) on the Income-Guaranteed Contract Farming of the Fattening Pigs in order to manage social achievements derived from the project implementations in terms of costs, benefits and risks, as well as compare them to investment opportunities in various fields to ensure efficient and effective resource and budget allocations. The calculations have been verified by LRQA (Thailand) Limited. According to assessment results, farmers in the project received the 4.28 times social return on investment (SROI) with a total social achievement value of THB 4,574 million.





- The top 3 returns are as follows:
- THB 1,097 million in returns from raising pigs with CPF.

Social Achievement: THB 376 million (8%)

The top 3 returns are as follows:

- 1. Farmers have improved their quality of life in terms of children's access to education, valued at THB 156 million.
- 2. Farmers have had more time with their families, valued at THB 118 million 3. Farmers have improved relationships with communities, valued at
- THB 61 million.

Environmental Achievement: THB 54 million (1%)

- The top 3 returns are as follows: 1. Farmers have reduced chemical contamination in their farmland soils. valued at THB 40 million.
- 2. Farmers have reduced greenhouse gas (GHG) emissions with the implementation of the biogas systems, valued at THB 14 million. 3. Farmers have created odor which affect nearby areas, valued at THB 310,000.

Additionally, CPF's Income-Guaranteed Contract Farming of the Fattening Pigs Scheme also helps strengthen the country's economy in other areas as follows:

Strengthening suppliers in the pig farming system

- Transportation companies (596 companies) generated • Instead of borrowing from non-bank financial the revenues of THB 536 million. institutions, 55 percent more farmers are able to increasingly access bank loans accounting for Pharmaceutical companies (51 companies) generated THB 3,703 million in loan value.
- the revenues of THB 690 million.
- Construction companies (186 companies) generated the revenues of THB 883 million from building housing and closed-system farms for farmers.
- Banks (1,698 branches) received, as income, interests on loans of THB 259 million from farmers participating in the project.
- · Local government agencies received income of THB 17 million from swine business taxes collected from farmers.

1. Farmers have reduced risk of damage from raising pigs by THB 1,365 million compared to running their own business as entrepreneurs. 2. After deducting various investments, farmers have received the total of

3. Farmers have credit to apply for loans from banks or funding sources. As a result, the financial cost has been reduced by THB 667 million.

Strengthening farmers with access to bank funding

- The reduction of interest by THB 667 million significantly affects financial costs.
- Due to the project implementation, 93 percent of farmers feel less stressed about debt repayment.





The social impacts derived from the project implementation are also consistent with 9 out of 17 goals in the United Nations' Sustainable Development Goals (UN SDGs) as follows:



CPF's CSR-after-Process

CPF is dedicated to forest conservation and rehabilitation, along with promoting job creation for the surrounding communities, under the key projects including CPF Grow-Share-Protect Mangrove Forestation Project which was first implemented in 2014 and further developed into community-based ecotourism in Samut Sakhon and Rayong provinces, CPF Rak Ni-Ves at Phraya Doen Thong Mountain Project which has been implemented since 2016, Community Career Promotion Project; Freshwater Fish Breeding and Nursery in Order to Release Fishes to Pa Sak Jolasid Dam, and Growing Chemical-free Vegetables Project at Lopburi Province. Two projects have been developed as long-term strategic

implementations, resulting in continuous operations. Forest areas have been restored to serve as food sources for the communities, creating occupational groups with additional income. CPF therefore has assessed the economic, social and environmental impacts according to the Natural Capital Protocol Principles and the Social & Human Capital Protocol Principles of the World Business Council on Sustainable Development (WBCSD). The assessment information has been certified by LRQA (Thailand) Limited. It was found that all 5 projects resulted in the real value of more than THB 8 million.

Economic Impact



Social Impact





Environmental Impact



* Before deducting operating costs of the projects.



CPF Rak Ni-Ves at Phrava Doen Thong Mountai Project



Community members having a better life due to increased income from tourism, wages derived from community employment, and distribution of natural products, as well as an increase of stable foods for communities, totalling economic value of more than THB 24 million*

Community members' improved qualities of life in terms of social quality, participation in forest conservation and rehabilitation, and gathering of members for activities and knowledge dissemination, totalling social value of more than THB 5 million*

More fertile manarove forests which prevent coastal erosion and serve as natural nurseries for aquatic animals; healthier terrestrial forests which help restoring the environment for communities, increasing fish populations in dam ecosystems. The two healthier forests help sequester carbon dioxide in the environment, totalling environmental value of more than THB 5 million*



Freshwater Fish Breeding and Nursery Project and Growing Vegetables the Organic Way Project

Climate, Water & Waste Excellence

2025 Target



of direct and indirect greenhouse gas (GHG) emissions per production unit to be reduced compared to the base year 2015 (Thailand Operations)

2030 Target

200,000 tons

of carbon dioxide (CO) sequestration from conservation and reforestation projects in strategic areas and green area in CPF operations (Thailand Operations)

To set

science-based target for GHG emissions reduction (Scopes 1, 2 and 3)



Mr.Peerapong Krinchai Executive Vice President in Corporate Engineering Head of Ambition – Climate, Water & Waste Excellence

Earth's surface temperature is likely to rise at least 1.5 °C by 2040, and without drastic measures for reducing CO, and GHG emissions, the world's surface temperature will increase by more than 1.5 °C within this century compared to 1850-1900¹ or before the industrial revolution. Effects of climate change are already evident worldwide, such as sea level rise, reduced farmland, floods, droughts and extreme weather, which frequently and severely occur and affect food security. Therefore, CPF, a leading listed integrated agro-industrial and food business, is committed to its responsibility to contribute to mitigating climate change, as well as adapting and taking proactive measures to accommodate short-term and long-term changes to ensure sustainability of the world's food production systems.

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Report (AR6) of the Intergovernmental Panel on Climate Change; October 2021.
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Waste to Value

Balance of Nature

Take action towards positive environmental impact throughout our value chain



CO

Climate Change Mitigation and adaptation to future climate change, crucial for agricultural and food industries



Water Resource Effective risk management of water resources, enabling businesses to continuously operate and peacefully coexist with community and society



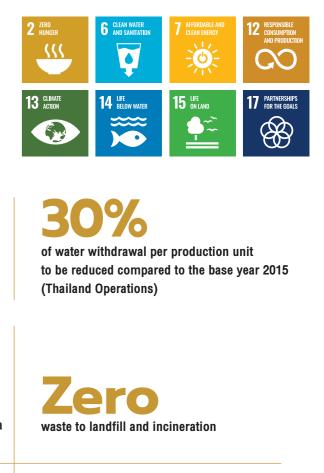
The use of solar e

systems installed in Korat Ready-to-Eat Food Production Pla

Circular Economy Integrating the principles of circular economy throughout the value chain, allowing for maximum use of valuable resources without environmental pollution



Biodiversity Zero deforestation and practicing responsible sourcing to protect biodiversity and ensure the world's future food security



Support all tier-1 suppliers identified as high water impact to have water management plans in place

CPF is dedicated to fully and efficiently managing resources such as raw materials, water resources and energy in accordance with the principles of circular economy, including setting strategies allowing the organization

to move forward to achieving a net-zero emissions target, which also helps save costs and creates sustainable environmental balance.

Climate Water & Waste Excellence

Ambition

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Intergovernmental Panel on Climate Change (IPCC), Climate Change 2021: The Physical Science Basis, Working Group I Contribution to the Sixth Assessment

Management Approach

- Establishing Safety, Health, Environment and Energy Vision, Mission and Policy (CPF SHE&En Standard): conducting assessment in accordance with SHE&En standards, and place emphasis on training and performance appraisals by applying SHE KPIs System throughout the year.
- Risk and Opportunity Awareness: analyzing and assessing risks, opportunities and effects of the Company's business operations on climate change, water consumption and waste, as well as preparing a risk management plan.
- Mitigating Impact by Applying Innovations and Technologies: creating and developing innovations and technologies in order to become a net-zero emissions organization, and mitigating environmental impacts by introducing the circular economy concept as a guideline for resources optimization.
- Building Engagement: working with various stakeholders to enhance resource management and environmental impact management at both the Company and industrial levels.

See details of

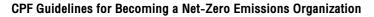
CPF TCFD

Report

Implementation

Climate Change Management

It is crucial that CPF assess risks and opportunities relating to climate change in order to keep its business operations in line with the changing global situation caused by climate change. The Company has adopted the Recommendation of Taskforces on Climate-related Financial Disclosure (TCFD) as guidelines for assessing risks and opportunities relating to climate change, as well as for disclosing climate risk information to investors and stakeholders in order to enable them to analyze the Company's ability to cope with climate risks.



CPF is aiming to set its GHG emission target in accordance with the Science-Based Targets Initiative (SBTi), which is in line with the Paris Agreement on limiting global temperature increasing to 1.5 °C by deploying technologies and innovations. CPF's guideline for becoming a net-zero emissions organization comprises two parts as follows:

Part 1 Decarbonization

- Improving Production Efficiency: choosing equipment and machinery that consume low energy and offer high production efficiency to reduce fuel consumption and waste generation in the production process.
- Deploying Innovations and Technologies to Improve the Production Process: utilizing automated and robotic production systems controlled by Artificial Intelligence (AI) and Internet of Things (IoT), as well as decreasing procedures and process times of productions in order to reduce factories' energy consumption.
- Promoting Renewable Energy Usage: eliminating use of coal and reducing use of fossil fuels such as fuel oil and other fuels, and increasing proportion of use of renewable energy, for instance biomass, biogas and solar.

- Increasing Business Opportunities from Low-Carbon Products: continuously developing products that respond to requirements of environmentally conscious customers and consumers, such as animal feed products, low-carbon meats, and plant-based proteins, etc.
- Building Factories and Farms of the Future: designing factories and farms by taking into account low energy consumption and ability to recycle available resources in order to reduce waste externally released.

Part 2 Carbon Removal

Supporting Zero Deforestation: declaring goals on zero deforestation by 2030 for all CPF's businesses and direct suppliers of agricultural raw materials such as maize, fishmeal, palm oil, soybean and cassava as the Company recognizes the effects of deforestation on biodiversity and soil carbon losses.
 Reforestation and Afforestation: restoring and conserving forests (terrestrial and mangrove forests) as well as increasing green areas by planting trees within the operations with the goal of sequestering accumulated 200,000 tons of CO₂, covering an area of 20,000 rais (3,200 hectares) by 2030.

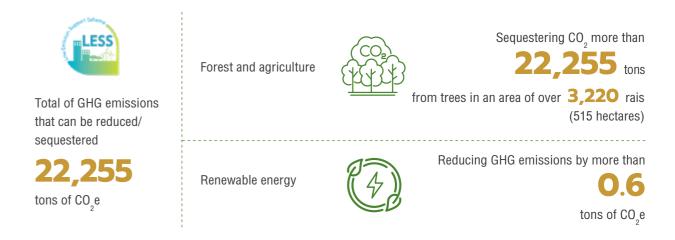
In addition, CPF also explores new technology opportunities to become a net-zero emissions organization, such as use of energy from wind turbines and sourcing of alternative energy sources, as well as carbon capture, utilization and storage (CCUS).

Supporting Mechanisms for GHG Emissions Reduction

Energy consumption and waste management are major contributors to climate change. Therefore, CPF has implemented projects to increase energy efficiency, managed manure and wastewater, and promoted renewable energy, for instance, biodiesel, biogas and solar to continuously reduce GHG emissions. CPF has registered for Thailand Voluntary Emission Reduction Program (T-VER) with Thailand Greenhouse Gas Management Organization (Public Organization) or TGO. Details of the implementations are as follows:



Moreover, CPF has been awarded a certificate from TGO for the Low Emission Support Scheme (LESS) Project in the category of forestry and agriculture, for the CPF Rak Ni-Ves at Phraya Doen Thong Mountain Project, green area in farms and factories and renewable energy from solar energy project. Details are as follows:



CARBON CREDIT

Cooperation in Climate Change Adaptation within the Supply Chain

CPF has applied a maize traceability system to trace back to planting plots to ensure that maize, a key raw material in the Company's animal feed production, originates from non-deforestation area. CPF has also implemented "Self-Sufficient Farmers, Sustainable Corn Projects" to raise awareness and understanding among maize farmers and improve agriculture which, in turn, increases productivity while reducing the impact

on climate change, adjusts fertilization to suit the areas and growth of maize, promotes use of organic fertilizers instead of chemical fertilizer and growing of ground cover crops, and reduces tilling or stubble burning. In 2021, more than 11,150 farmers participated in the projects, covering the total area of over 250,000 rais (40,000 hectares).

Key Performance in 2021 (Thailand Operations)

Proportion of renewable energy consumption

27% of the total energy consumption (**3.07** PJ)

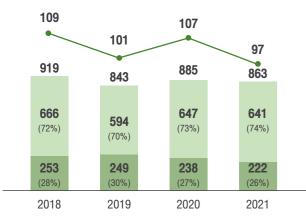




Reduce GHG emissions for

Biomass Energy **18%** (2.00 PJ) Biogas Energy **9%** (1.02 PJ) Solar Energy **0.3%** (0.04 PJ) Electricity capacity from solar panels in total 20 MW

Direct and Indirect GHG Emissions (Scope 1 and 2)



Energy Consumption

1.30	1.32	1.34	1.27	
10.93	11.05	11.07	11.27	
4.75 (43%)	4.74 (43%)	4.87 (44%)	5.02 (45%)	
2.70 (25%)	2.88 (26%)	2.85 (26%)	3.07 (27%)	
3.48 (32%)	3.43 (31%)	3.35 (30%)	3.18 (28%)	
2018	2019	2020	2021	

---- GHG emissions (scope 1 and 2) per production unit (kilograms of CO e per ton of products)

- GHG scope 2 emissions (thousand tons of CO_e)
- GHG scope 1 emissions (thousand tons of CO_e)

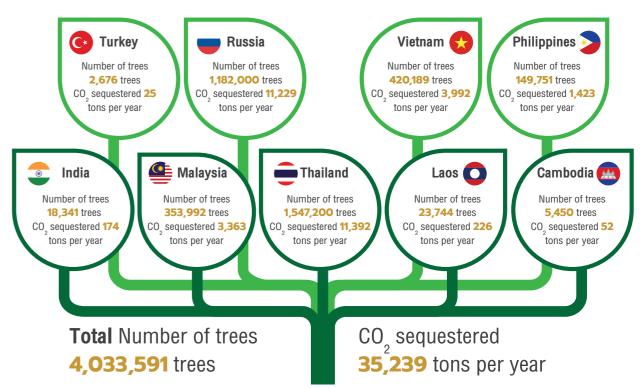
 Energy consumption per production unit (GJ per ton of products) Electricity (PJ) Renewable energy (PJ)

Non-renewable energy (PJ)



U	pstream	Activities	6	CPF Oper
		pe 3 44 %)		Scope 222 (49
Purchased and Service 2,012 (40%)		Upstream Transport and Distri 138 (3%)	ation	Production Processes Company Vehicles
Capital Goo	ods	Fuel- and Related A		Scope
Waste Gene in Operation 53 (1%)		(3%) Employee Commutin 175 (3%)		(139 Purchased Electricity

and Tree Plantation in Green Area within the Operations*



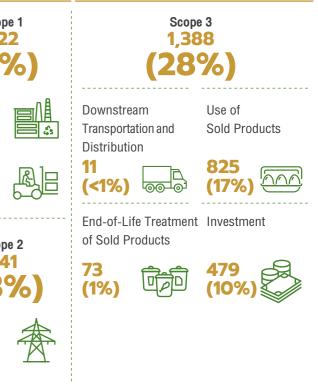
The amount of CO_sequestered is calculated from the number of trees multiplied by values of carbon sequestration of slow growing native trees and mangroves; the reference is from the Manual of Plant Potential for Promotion under the Clean Development Mechanism Project in the Forest Sector by TGO and Faculty of Forestry, Kasetsart University, 2011



Unit: Thousand tons of CO e

rations

Downstream Activities



CO₂ Sequestration by Forests (Terrestrial and Mangrove Forests) Conservation, Protection and Restoration

Water Stewardship

CPF recognizes increasing severity of drought and drought frequency. Moreover, operating complete an integrated agro-industrial and food business constantly requires water resources. The Company, therefore, places importance on selecting locations of its establishments on the basis of management of risks relating to essential utilities, coupled with water efficiency planning. The Company uses water in the production processes, such as water used in steam boilers of the animal feed business, water used for animal husbandry and as condenser water in animal housing of the animal farming and meat processing businesses, water used in cooling systems, and tools and equipment cleaning systems of the food business.

Water Risk Assessment

CPF assesses water risks on a yearly basis based on each unit's database of volume of water withdrawal, coupled with baseline water stress of watersheds in which CPF's units are located by using the Aqueduct Water Risk Atlas developed by the World Resources Institute (WRI), all of which help the Company prioritize the water management at the unit level as follows:

Water Risk Level	Baseline Water Stress	Management				
HIGH PRIORITY	High and Extremely High	 Setting targets for short-term and long-term water withdrawals for each unit of production as well as continuing to follow up on results. Preparing water reserves and reserving water for future use. Continuously increasing water efficiency according to the 3Rs principles. Evaluating impacts and setting a plan to reduce the impacts of effluent released from the unit to public water sources. Preparing a Business Continuity Plan (BCP) to withstand severe water shortage crisis. Conducting opinion surveys to gather feedback from of water users and surrounding communities. 				
PRIORITY	Moderate - High	 Setting targets for short-term and long-term water withdrawals for each unit of production as well as continuing to follow up on results. Preparing water reserves and reserving water for future use. Continuously increasing water efficiency according to the 3Rs principles. Evaluating impacts and setting a plan to reduce the impacts of effluent released from the unit to public water sources. 				
MONITORING	Low and Low - Moderate	 Preparing water reserves. Continuously increasing water efficiency according to the 3Rs principles. Continuously monitoring the on amount of water withdrawn. 				

Optimizing Water Use according to the 3Rs Principle

Reduce

Recycle

Reduce water consumption and water loss from processes, optimize water-use efficiency

Recycle water using various treatment

for both internal and external use



Managing Water Resources together with Communities

CPF recognizes the importance of water which is a key factor in living and therefore implements projects with stakeholders to conserve upstream forests, maintain water sources, and improve access to community water resources, with details as follows:

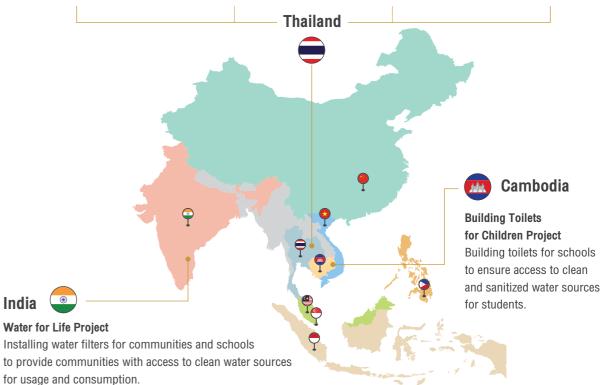
Recycled Water Sharing

Proiect

Distributing recycled water (treated water from biogas production system) to communities for use in agriculture such as growing field crops and garden plants around layer farms nationwide.

Mun River **Conservation Project** Conserving and protecting the ecosystem of the Mun River Basin at Chokchai District, Nakhon Ratchasima Province, which is a water source for common use

of communities and CPF.



Reuse

Reuse water that has passed through minimal or no treatment processes, reuse water for non-production process activities such as plant watering plants, and cleaning road surfaces etc.

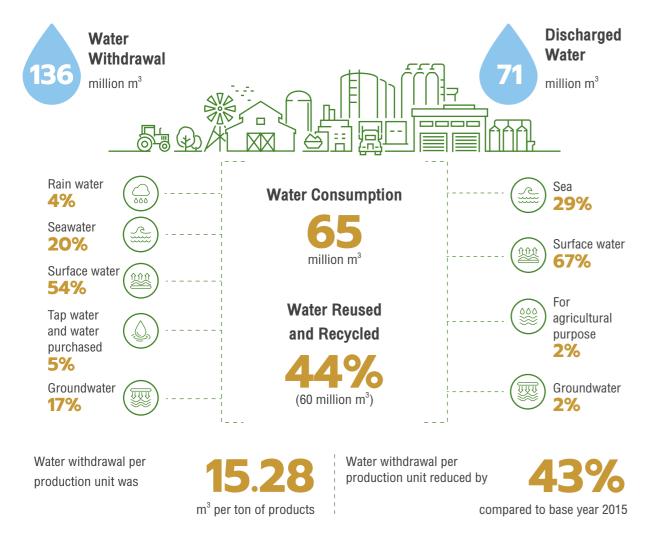
Groundwater Bank Project

Installing underground water storage system for pig farming Village of Nong Wa, Sa Kaeo Province, to alleviate water scarcity problems during the dry season.

Community **Drinking Water Project**

Educating and supporting productions of drinking water for distributions within communities through community and crop cultivation at Farming enterprises, in order to improve water efficiency in communities and ensure access to clean. hygienic and standardized drinking water for communities.

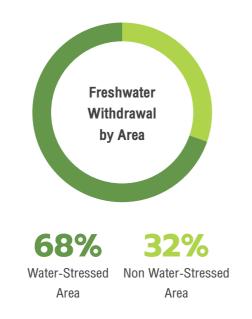




Water Withdrawal



- --- Total water withdrawal per production unit (m³ per ton of products)
- --- Freshwater withdrawal per production unit (m³ per ton of products)
- Total water withdrawal (million m³)



Waste Management

CPF adopts the circular economy as guidelines for managing waste in the production processes and optimizing use of resources. CPF is committed to reducing amount of waste and recovering waste as follows:



Used for composting or soil improvement materials



Used as animal feed



Recovered waste to energy

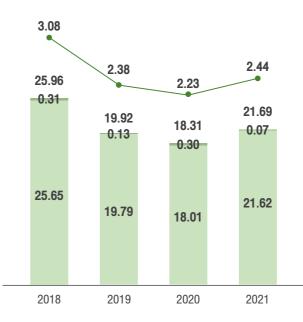
Key Performance in 2021 (Thailand Operations)

Waste Utilization



95% 433 thousand tons

Waste Disposed by Landfill or Incineration



From animal manure, chicken housing's flooring materials, sludge from wastewater treatment system, eggshells, organic waste, and boiler ash

From chicken carcasses, innards, and feathers

Bv

- Producing biogas from animal manure to generate electricity or thermal power;
- Recovering used vegetable oil to be biodiesel; and
- Incinerating organic waste to obtain thermal power

Waste disposed by landfill or incineration by a legally



--- Total waste disposed by landfill or incineration per production unit (kilograms per ton of products) Hazardous waste disposed by landfill or incineration (thousand tons) Non-hazardous waste disposed by landfill or incineration (thousand tons)

Becoming the Circular and Net-Zero Emissions Value Chain

CPF is committed to alleviating environmental impacts throughout the value chain, by using modern technology and innovation to manage resources efficiently and for maximum benefits.





96

Promote agricultural knowledge to increase yield by maintaining soil properly and efficiently, reducing production costs without forest invasion or burning stubble, which affect the environment and climate.





CPF Coal Free 2022

- Using energy from biomass fuel instead of coal
- Reducing GHG emissions for over than 70,000 tons of CO e per year

Using Solar Energy

- Production capacity of 8 MW
- Reducing GHG emissions for over than 4,700 tons of CO_e per year
- Saving cost by THB 8 million per year

Smart Feedmill Project

- Applying automation systems and artificial intelligence (AI) to improve efficiency in the feed production process
- Reducing energy consumption for over than 27,000 GJ per year
- Reducing GHG emissions for over than 360 tons of CO e per year
- Saving cost by THB 5 million per year



E

Using Solar Energy

- Production capacity of 6 MW
- Reducing GHG emissions for over than 4,000 tons of CO e per year

Laver farm

- Saving cost for more than THB 7 million per year
- Using Biogas Energy
- Replacing grid electricity by 69 million kWh • Reducing GHG emissions for over than 489,700 tons of CO e per year
- Saving cost by THB 290 million per year

Recirculating Aquaculture System (RAS) in Shrimp Farms

- Applying Biofloc and Ultrafiltration to treat and recycling used water for reusing in shrimp farms
- Reducing external water withdrawal by 75%
- CARE System in Fish Farms
- Treating and recycling used water for reusing in fish farms
- Reducing external water withdrawal by 80%

Recycled Water and Sludge Sharing Project

- Providing treated water and sludge to over **103** rais (16 hectares) of farmland to help alleviate drought impacts and build water security for communities
- More than 10 farmers benefiting from the project
- Delivered treated water over 143,500 m³

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Eggshell Composting Project



49

E)

Broiler farm

Aquaculture farm

- Using eggshells for making compost or soil amendment for farmers within the province and nearby areas.
- Reducing waste by more than 1,100 tons per year.
- Reducing GHG emissions for over than 2,800 tons of CO e per year

ood Productio



- Production capacity of 6 MW · Reducing GHG emissions for
- over than **4,000** tons of CO e per year
- Saving cost by THB 7 million per year

Using Biogas Energy

- Replacing fuel oil more than 520,000 liters at the Minburi and Korat chicken processing plants
- Reducing GHG emissions for over than 2,600 tons of CO e per year
- Saving cost by THB 10 million per year

Raw Water Bank Project

- Storing rainwater during the rainy season in preparation for the dry season
- Storing rainwater more than **335,000** m³ per year

Water Ultrafiltration System

- · Filtering treated wastewater and reusing it for cleaning tools and equipment in the Korat chicken processing plant
- Reducing external water withdrawal by 1 million m³ per year
- Saving cost by over than THB 23 million per year

E **Low-Carbon Products**

meat, fresh duck meat and fresh pork meat products



emit GHG 50%

lower than Thailand's average emissions of chicken meat products*



CP Fresh Pork Meat Products

emit GHG 13%

by Low-Carbon Products more than **1,483,000**

calculated by the weight of products certified with the Carbon Footprint Reduction Label and sold in 2021 multiplied by the amount of GHG emissions reduction of CPF products, compared to the Thailand's average carbon footprint for CPF export products or the base year carbon footprint of CPF products for CPF products sold in Thailand. *Based on the emission factor by TGO







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• The products certified with the Carbon Footprint Reduction Label by TGO, consisted broiler feeds, live broiler chickens, live ducks, fattening pigs, fresh chicken

CP Fresh Chicken Meat Products

lower than the Thailand's average emissions of pork meat products*

Total GHG emissions reduction

tons of CO e



CO Sequestration by Forest **Conservation**, **Protection and Restoration Projects include:**

E

- Mangrove forests under CPF Grow-Share-Protect Project;
- Watershed forest at Phraya Doen Thong Mountain under CPF Rak Ni-Ves Project; and
- · Green areas in the operations

Total area of over than **10,900** rais (1,744 hectares)



Forest in the City Project

1

กล้าจากป่า พนาในเมือง

- More than **28,000** saplings of perennials, ornamental and medicinal plants were distributed to employees to plant at their homes, offices, farms and factories.
- Over than 4,000 employees have participated in the project.
- The project is estimated to sequester CO for 258 tons per year.



Responsible Sourcing for the Planet

2030 Target

100%

of key raw materials from deforestation-free areas

100% of key raw materials are traceable

of conservation, protection, and restoration of mangrove forests and watershed forests in strategic areas

(3,200 hectares)

20,000 rais

(Thailand Operations)

Over 80 percent of impacts on the food industry often occur in the supply chain. CPF is, therefore, committed to alleviating social and environmental impacts which may occur in the supply chain by promoting responsible sourcing to ensure its procurements of quality and safety raw materials and products, all of which must meet relevant international standards, must be traceable and slavery-free, and must not come from deforestation areas.

Increase

Mr.Siripong Aroonratana

Chief Operations Officer in Livestock, Head of Ambition – Responsible Sourcing for the Planet Responsible Sourcing for the Planet Ambition

During 1970 and 2016, the Living Planet Index (LPI) had continued to decline. By 2016, the average global animal population decreased by 68 percent¹. Forest resources which are food sources, genetic sources for production of medicines, and habitats of pollinating animals, pollinators and insects, have been constantly destroyed. This is mainly due to forest encroachment for agricultural activities such as growing food crops and raising animals, along with the use of chemicals, pesticides, chemical fertilizers, and agricultural burning. As a result, the world's biodiversity that is essential to human food production is lost. Food producers and retailers, therefore, have focused on sourcing raw materials that are not derived from areas of deforestation and that are free of forced labours.

Management Approach

- Determining Sustainable Policies and Business operations: sharing sustainable business practices with suppliers through the Sustainable Sourcing Policy and Supplier Guiding Principle, in line with the Biodiversity and Zero Deforestation Commitment, in order to create a solid business foundation on the basis of systematic environmental and social stewardship throughout the supply chain.
- Sustainability Risk Assessment and Audit: assessing supply chain risks on a yearly basis and supporting new suppliers to conduct sustainable business, as well as assessing suppliers according to CPF Supply Chain ESG Management Approach.
- Traceability of Direct Raw Materials: ensuring tracing of raw materials back to their sources to ensure that they are not derived from deforestation sites, that they are free from slavery, forced labour, and that they contribute to the protection of biodiversity on land and in the sea.

Implementation

Supply Chain Risk Management for Sustainable Sourcing

Suppliers are a group of stakeholders that are important to CPF's business continuity and sustainability. To prevent and reduce social and environmental risks within the complex and diversified supply chains of CPF's suppliers, CPF is therefore determined to promote sustainability throughout the value chain together with its suppliers under the "Sustainable Sourcing Policy and Supplier Guiding Principle" which takes into account business operations based on good corporate governance under the law, rules and regulations in business operation, social and environmental aspects, which are reviewed annually. In this regard, "CPF Supply Chain ESG Management Approach" is applied as a guideline for systematically managing risks within the supply chain. In addition, CPF has communicated the implementation of the Sustainable Sourcing Policy to suppliers for their acknowledgement, understanding and being ready to work together regularly according to the Company's policy, which helps build sustainable trade competitiveness throughout CPF's value chain.

SUSTAINABLE SOURCING POLICY AND SUPPLIER GUIDING PRINCIPLE



and Supplier Guiding Principle





- Developing Sustainable Competitive Potential together with Suppliers: promoting sharing of knowledge and experiences, including encouraging exchanges of technologies, innovations, tools, machines and equipment used in production processes and agriculture in order to enhance suppliers' competitive potential and to grow together in a sustainable way.
- Creating a Network of Cooperation in Conservation and Restoration of Biodiversity: jointly creating the network to promote agriculture and fisheries that do not cause damage to natural resource balance, providing technology to improve efficiency, supporting sustainable sourcing from local to international levels, and collaborating with internal and external agencies to conserve and restore terrestrial and marine ecosystems and biodiversity.





CPF Supply Chain ESG Management Approach In 2021, CPF improved its Sustainable Sourcing Policy and Supplier Guiding Principle by appending climate change, biodiversity and water in order to enhance suppliers' abilities to cope with the changing global context. CPF also announced the Biodiversity and Zero Deforestation Commitment to demonstrate its business intent on protecting and preserving biodiversity in its business operations from sourcing agricultural raw materials, including the Company's implementations on forest conservation and restoration projects.

AND ZERO DEFORESTATION COMMITMENT

Biodiversity and Zero Deforestation Commitment

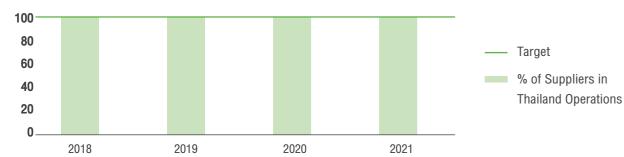
Risk Management Plan and Performance in 2021

- 1. Regularly assessing and reviewing suppliers' sustainability risks by focusing on suppliers providing high volumes of purchased raw materials that are critical component to production processes and non-substitutable suppliers, as well as supplier group's social and environmental issues and food quality and safety. 100 percent of suppliers of every raw material group in Thailand, China, and Vietnam operations have been assessed and reviewed. CPF plans to expand the suppliers' risk assessments to more suppliers in overseas operations in 2022.
- 2. Delivering and communicating the Sustainable Sourcing Policy to all suppliers in Thailand, Vietnam and China operations. The critical tier-1 suppliers of the groups of raw materials for producing animal feed and other raw material supplier groups accounting for 100 percent of Thailand operations, 100 percent of Vietnam operations and 21 percent of China operations already signed to acknowledge of the policy.
- 3. Screening new suppliers through Online Sustainability Self-Assessment covering environmental, social and good corporate governance (ESG) issues or through Thai Labour Standards (TLS) which is in

alignment with the Sustainable Sourcing Policy. For corn suppliers, new suppliers were screened under the Corn Traceability system. These are concluded to 25 percent of new suppliers were screened with social and environmental criteria (Thailand operations). The Company is developing the screening process which will be used to screen all new suppliers for Thailand operations in 2022.

- 4. Conducting key suppliers' social and environmental audit² and having finished 17 percent of the 2021 operational plan in Thailand, China, and Vietnam operations. With regard to the goal set to completely assess all key suppliers in Thailand and Vietnam operations within 2021, it was found that labour practices, overtime control, and occupational safety and health were the issues that suppliers should continue to develop. The Company had already coordinated with such supplier groups to ensure their further development and monitor their operations.
- 5. Organizing online meetings to develop trade competitiveness for over 460 key suppliers and strategic partners in Thailand and Vietnam operations this year (Additional details are available at "Developing Competitive Potential and Sustainable Operations").

Progress of Signing of Acknowledgement of the Sustainable Sourcing Policy



² Thailand Operations: In 2018-2020, key suppliers covered suppliers providing direct raw materials which are raw materials used for animal feed production, and suppliers providing indirect raw materials included food ingredient and packaging. In 2021, indirect raw materials were additionally extended to spare parts and machinery, fuel/gasoline, and chemical/lab supplier groups.

Vietnam Operations: In 2018, key suppliers covered suppliers providing direct raw materials which are raw materials used for animal feed production, and suppliers providing indirect raw materials included food ingredient and packaging. In 2019-2020, indirect raw materials were additionally extended to fuel/gasoline, chemical /lab, and spare parts of machinery supplier groups. In 2021, indirect raw materials were additionally extended to services and maintenance supplier groups.



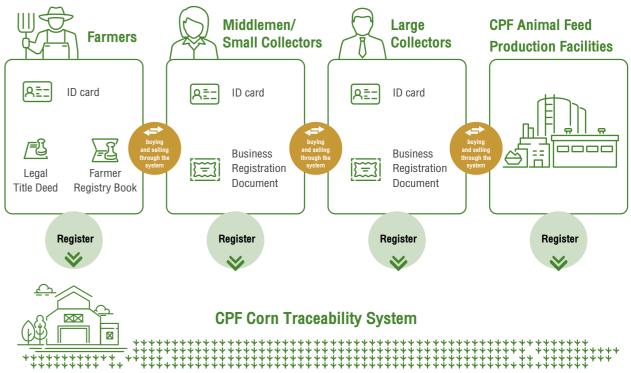
* Critical Suppliers are suppliers providing direct raw materials which are raw materials used for animal feed production, and suppliers providing indirect raw materials which are food ingredient and packaging.

Sourcing Zero Deforestation Raw Materials and Protecting Natural Diversity

Recognizing its significant role in protecting biodiversity and solving climate change, one of the causes of which is the decrease in forest areas across the world, which are animal habitats, in order to use lands for agricultural activities and animal raising, CPF therefore has proclaimed its Biodiversity and Zero Deforestation Commitment and set targets for purchasing agricultural direct raw materials, namely corn, fishmeal, palm oil, soybean and cassava. 100 percent of CPF's global supply must be traceable

Procurement of Corn

Corn for Animal Feed Traceability System



- and come from deforestation-free areas within 2030, which is an extension of the targets in 2020.
- In addition, CPF has identified the critical raw materials which are at risk of forest encroachment, namely corn, soybean, palm oil and cassava. CPF set up guidelines for deforestation-free agricultural areas verification to ensure that each direct raw material does not come from encroachment areas or areas of deforestation.

CPF has used the Corn Traceability System to verify that corn imported to distribute to its animal feed mills are sourced from farmland without burning stubble after harvesting, and can be traced back to plantation areas.

In 2021, 100 percent of corn in Thailand operations were traceable to plantation areas through the Corn **Traceability System.** CPF is also enhancing data management in the corn traceability system by linking it to CPF feed mills' production processes. In this regard, a blockchain technology is used to improve the speed of agricultural raw material traceability to

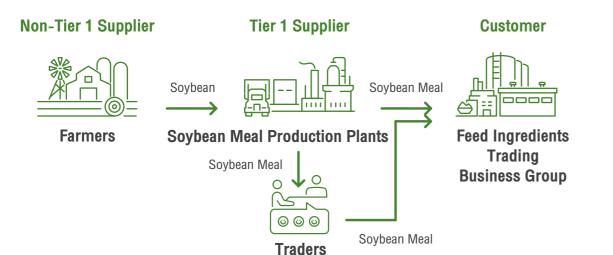
Procurement of Soybean Meal

CPF collected information on the origins of soybean, a feedstock of soybean meal, to identify any risk from procuring products which may come from forest encroachment areas, and researched guidelines for responsible sourcing of soybean meal. The information obtained was applied and adapted to match the business strategies and goals setting on purchasing agricultural raw materials that are from zero deforestation areas. plantation areas, and to ensure customers that raw materials are from responsible sources / sustainable sources / zero deforestation and reflect "Innovative Organization with Technology" in all CPF's business processes.

Furthermore, within 2030, CPF sets a target to source 100 percent of corn used in CPF's global operations must be traceable to plantation with the Corn Traceability System. At present, the Company has expanded the work scope to key overseas operations, such as China, Vietnam and India operations. 27 percent of the total quantity of corn in CPF's global operations were traceable to plantation.

CPF sets a target to source 100 percent of soybean meal that are traceable to production location, countries and states of origin, and also targets to source soybean meal that is from deforestation-free areas by 2030.

In 2021, the Company found that around 23 percent of soybean meal that had been procured for its worldwide operations was traceable to the countries and states of origin. CPF is working with the group of soybean meal suppliers to implement the verification data and documents for procurement of soybean meal.



Procurement of Palm Oil

CPF has procured good quality palm oil as raw material for animal feed and food businesses, which must be systematically traceable or meets international standards such as the Roundtable on Sustainable Palm Oil (RSPO).

Within 2030, CPF targets to expand its practices to source 100 percent of palm oil that is traceable or sources from certified palm oil mill with an international sustainable standard, such as, the Roundtable on Sustainable Palm Oil (RSPO) to the overseas operations.

Procurement of Fishmeal

CPF has procured fishmeal as one of the raw materials used in animal feed production, and it is the only raw material that links the Company's business to the fisheries which is found to be at risk of labour practices and marine biodiversity loss. As a leading integrated agro-industrial and food business, the Company is committed to supporting sustainable sourcing of fishmeal in accordance with the **"CPF Fishmeal Sourcing Restrictions"** which stipulates sourcing guidelines from two sources, namely:

- By-products derived from aquatic processing plants such as the surimi factory, the canned tuna factory, and the fish ball factory that have been certified by MarinTrust Standard or MarinTrust Improver Programme which is a standard that complies with Code of Conduct for Responsible Fisheries of the Food and Agriculture Organization of the United Nations (FAO), or must not be by-products from species at risk of extinction as listed in the International Union for Conservation of Nature (IUCN)'s Red List of Threatened Species which is internationally recognized, or by-products that can be traced back by third party.
- By-catch with internationally recognized sustainability and traceability standard; MarinTrust Standard which is certified by the International Fishmeal and Fish Oil Organization or by-catch that can be inspected by inspection mechanism supported by law, which consists of various sectors such as officials or representatives from the Department of Fisheries, entrepreneurs, concerned communities, consumers and technocrats.

In 2021, the Company has been procuring according to the target to source palm oil that are systematically traceable as planned for the feed business and food business as follows: -

- For feed business in Thailand operations, 100 percent of palm oil was traceable to the production plants.
- For food business in Thailand operations, around 80 percent of palm oil was certified by RSPO.

In 2021, the Company has been procuring fishmeal for aqua animal feed production in accordance with the "CPF Fishmeal Sourcing Restrictions", and was able to report its performance for Thailand and Overseas operations as follows: -

- For feed business in Thailand operations: 100 percent of fishmeal is made from by-products of processing plants that comply with the "CPF Fishmeal Sourcing Restrictions".
- For feed business in Vietnam operations:
 - 100 percent of fishmeal is made from by-products of processing plants that comply with the "CPF Fishmeal Sourcing Restrictions".
 - 36 percent of fishmeal is made from by-catch that comply with the "CPF Fishmeal Sourcing Restrictions".
- For feed business in other countries of operations: 36 percent of fishmeal is made from by-products and by-catch that comply with the "CPF Fishmeal Sourcing Restrictions".

Agricultural Raw Materials Traceability in 2021, of 8 Countries of Operations, namely Thailand, Vietnam, China, India, Philippines, Laos, Cambodia, and Malaysia



* China operation covered the raw materials sourced by Feed Ingredients Trading Business Group only.

Developing Competitive Potential and Sustainable Operations

CPF has focused on improving competitive potential and sustainable operations for suppliers according to the concept of "Thinking Together to Mutually Create and Move toward Sustainable Growth", by organizing meetings or seminars to share knowledge and ideas for sustainable operations from the government agencies,

non-governmental organizations (NGOs), and CPF's experts and among suppliers. Due to the situation of COVID-19 outbreak since 2020, CPF recognizes an opportunity for transforming event format to be online format entirely, which helps reduce environmental impact and facilitate suppliers.

 CPF Capacity Building for Partnership Conference 2021 focused on significant issues consistent with the Sustainable Sourcing Policy, human rights, and safety, health and environment. The conference was held in two languages; Thai and English, and targeted over 330 key suppliers from Thailand and Vietnam operations, who had potential to grow together with the organization.



increase financial liquidity, and reduce liabilities and costs.



the CAC Change Agent Award 2021.



Opinions from the Executives of CPF's Suppliers:

Our company would like to thank CPF for the opportunity given to us for being the uniform manufacturer be able to thoroughly take care of and help our employees, including temporary employees.

Ms. Naruemon Sangmanee, Managing Director, DMP Uniform Company Limited

 CEO ROUNDTABLE FOR SMEs Conference 2021 was organized to provide opportunities to executives of SME suppliers to discuss and exchange sustainable business practices with the Company's CEO, particularly management issues and business strategies to overcome the COVID-19 crisis. The conference was further developed from the Faster Payment project, by determining 30 days credit term. The project has continuously supported more than 6,500 SMEs and individual suppliers since 2020 by providing revolving money quicker,

• CAC Training for CPF's SMEs Suppliers 2021 was organized to transfer and share CPF's knowledge and experiences on preventing fraud and corruption risks to suppliers who were SMEs entrepreneurs of more than 120 companies. The aim was also to encourage entrepreneurs to declare their intentions and enhance their operations by becoming certified Anti-Corruption Coalition. The activity aimed to encourage CPF's suppliers to join the Thai Private Sector Collective Action against Corruption (CAC). As a result, CPF received

in CPF's production line. Working with CPF has contributed to driving small businesses to enhance their quality systems in order to comply with CPF standards, as well as sustainability which is a global trend. Our company is studying and developing fabrics made from fish scales and recycled plastic bottles, as well as adapting our approach to online marketing. Importantly, the Faster Payment Project has promoted good governance, enabled us to pay for goods on time and supported us to

As a fresh garlic supplier of CPF that focuses on standardized raw materials, we have been able to join the farmer group and elevated our garlic cultivation according to Good Agriculture Practices (GAP), which is cultivation without chemicals, resulting in positive effects on the environment. It also improves farmers' quality of life. Now, fifty farmer households have already joined the Phurin group to continually deliver organic garlic to CPF.

Mr. Niwat Deengam, Managing Director, Phurin Green Foods Products Company

Developing Competitive Potential and Sustainable Practices to Farmers

In addition, CPF has also created and has been working with a group of suppliers providing main agricultural raw materials for animal feed production in Thailand operations, namely corn smallholder farmers, under the "Self-Sufficient Farmers, Sustainable Corn Projects". CPF has promoted knowledge and skills of correct cultivation to farmers in the project, in accordance with Thai Agricultural Standard; TAS 4402-2010, Good Agricultural Practices for maize, which includes soil analysis, cultivation methods, proper use of fertilizers, weeding and properly cultivation according to the good agricultural practices to the farmers in the project.

CPF has also developed mobile applications that have systems to help farmers manage their plantation at the first step before planting, such as, plantation areas preparation, satellite images analysis to help farmers prepare the farmland to plant effectively, cost saving, reduce the climate risk, and during the cultivation by

Artificial Intelligence (AI). The system and AI will verify the quality of the corn and be able to estimate the quantity of the produce. Furthermore, CPF has continually developed the CPF Logistics system that helps manage transportation of raw materials to animal feed factories or points of purchase.

With the vision to improve farmers capacity by modern tools and innovations, the Company has continuously enabled smallholder farmers in Thailand to access cultivating knowledge and technology, reducing risks from climate change and problems caused by pests, as well as information for buying and selling produce. Since 2015, the implementation of the project has helped to reduce costs, improve productivity, and increase income. In 2021, the project implementation already covered more than 11.150 smallholder farmers and 250,000 rais or 40,000 hectares of farmland.



Continuity management within the supply chain is one of the key strategies that enable the Company to continue delivering products to consumers. However, the COVID-19 situation has caused changes to the entire supply chain management system, and CPF recognizes the opportunity to promote and develop abilities of suppliers in the countries in which CPF has conducted businesses, as well as supporting domestic

economic circulation resulting in business continuity, all of which enable CPF to accomplish its crucial mission of delivering quality and safe foods, accessible to consumers worldwide. In 2021, CPF purchased goods and services from local suppliers in Thailand, which accounted for 96 percent of the local procurement spending of Thailand operations. The operations are representing 37 percent of the Company's revenue.

Conservation and Restoration of Ecosystems and Biodiversity

Food production is an activity that uses natural resources as raw materials, which may affect ecosystems and biodiversity. CPF, therefore, places great importance on responsible sourcing such as traceability, supporting networks for sustainable fishmeal supply, and adopting nature-based solutions as part of the conservation and restoration of ecosystems and biodiversity.

Sustainable Sourcing Network

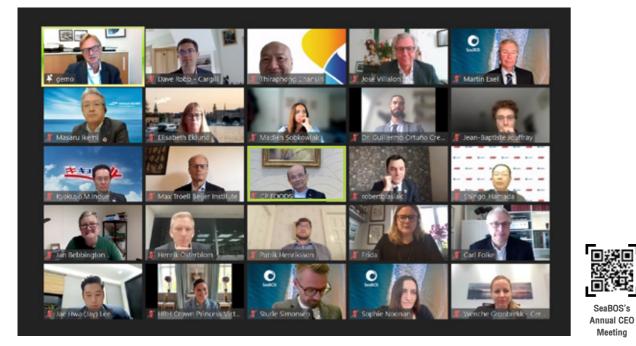
CPF is committed to promoting and supporting sustainability in the seafood industry to address concerns caused by issues including degradation of marine resources, unfair employment, human rights violation and impacts on communities due to illegal fishing and labour, especially improvement and development of fisheries management on a variety of marine species which are native to the Gulf of Thailand and which play an important role in marine biodiversity in the regions of Asia.

- As a member of the Thai Feed Mill Association (TFMA), CPF has worked with the Thai Sustainable Fisheries Roundtable (TSFR) to improve and develop sustainable trawl fisheries in the Gulf of Thailand: the source of raw materials for the production of fishmeal. CPF has procured fishmeal and promoted sustainable fishmeal acquisition through the Fishery Improver Project (FIP) by setting up the Fishery Action Plan (FAP) of the project that has been implemented since 2016 in the Gulf of Thailand. It has been accepted into the MarinTrust Improver Programme for improving and developing fisheries since 2020 according to the requirements of the MarinTrust standard; the Multi-species Assessment Methodology. The project is the world's first project which serves as the standard that prevents, combats and eliminates illegal, unreported and unregulated fishing (IUU Fishing). The FIP project is a significant achievement in the protection and conservation of Thailand's marine biodiversity. It also helps alleviate the problems caused by forced and illegal labours in the Thai fishing industry.
- CPF has collaborated with the Seafood Task Force to be a part of driving social and environmental changes in the Thai seafood industry, including creating a sustainable and transparent supply chain and solving issues related to human rights and human trafficking in the Thai fishing industry. CPF has also jointly promoted and developed shrimp

farms to meet international standards in terms of traceability, transparency and accountability. With regard to environmental aspect, aquaculture must not affect the ecosystem. Further, it is expected that, in terms labour, human rights and human trafficking issues in the industry must be eliminated. CPF has supported fisheries that use legal tools which can reduce impact on the ecology caused by overfishing, and has collaborated with government agencies to enhance efficiency of vessel monitoring system (VMS) to prevent Illegal, Unreported, and Unregulated fishing (IUU Fishing).

- CPF jointly founded the Fishermen Life Enhancement Center (FLEC) in Songkhla Province in Thailand in 2015 to eliminate issues of illegal workers on fishing boats; improve quality of life of fishermen and their families by providing assistance to victims of human trafficking and illegal labours; build thought leaders and provide knowledge on rights and laws related to fishermen in order to prevent them from being lured into slavery; provide knowledge on safe work environment on ships, first aid, life skills and extra jobs, family planning and reproductive health; and promote access to basic education for children of fishermen. The implementation of the FLEC Phase 2 (2021-2025) will be expanded to cover the cooperation on eliminating marine debris as a model of environmental management in accordance with the principles of circular economy. It requires cooperation and potential of many parties/ organizations to serve as a good role model for the country, for example, Closing the Loop which promotes waste collection at ports and sea cleanup projects by collecting data and managing marine debris comprehensively as well as raising awareness of biodiversity and marine resources conservation and protection together with local networks.
- Serving as a member of the Seafood Business for Ocean Stewardship (SeaBOS) for international cooperation in protecting the oceans, natural resources and marine environment in order to move towards the goals of conservation of ecosystems and responsible production of quality seafood for humans in a sustainable manner. There is a mutual agreement on applying global regulations throughout the supply chain, promoting legal fishing, eliminating illegal labour, developing traceability systems, refraining from using antibiotics, and reducing

greenhouse gas emissions and the use of plastic through cooperation in technology, research and development coupled with implementation and practicality. In 2021, CPF expressed its commitment to continually operating in accordance with SeaBOS' goals of ensuring socially and environmentally responsible seafood and fisheries supply chains. CPF also demonstrated its vision as a supporter of the anti-microbial resistance (AMR) working group focusing on responsible use of antimicrobials in aquaculture to the SeaBOS's Annual CEO Meeting 2021. These are in line with the principles of animal welfare to which CPF has strictly adhered and applied in its business operations (Additional details are available in "Food Security", under the ambition: "Animal Welfare"). The working group will work together to finalize the "SeaBOS Antibiotics Code of Conduct" by October 2022, and the SeaBOS member companies will implement the Code of Conduct in their own businesses as well as transferring it to suppliers in their supply chains of both animal feed production and aquaculture farms.



Forest Conservation and Restoration Projects in the Strategic Areas



Since 2014, the Company has continuously implemented the CPF Grow-Share-Protect Mangrove Forestation Project in 5 provinces of Thailand. The project has resulted in the abundance of mangrove ecosystems that serve as the nurseries for marine lives, has brought back marine animals to the areas and thus has allowed the surrounding communities to utilize the restored natural resources.

Based on the information from the survey which assesses impact valuation through interviews with local fishermen in Bang Ya Phraek community, Samut Sakhon Province in Thailand about changes after restoring mangrove forests, it was found

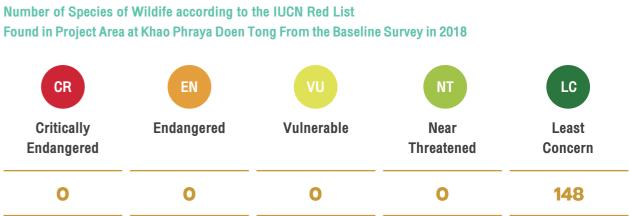
that the number of many aquatic animals increased, for example, the oriental angel's wing, the cockle, the mullet, and the mangrove crab. These aquatic animals are resources that generate jobs and incomes for people in the community and nearby areas. (Additional details are available in "Self-Sufficient Society", under the ambition: "Social Impact".)

The Company implements the CPF Grow-Share-Protect Mangrove Forestation Project in areas in which great importance has been placed on the study of aquatic biodiversity.

In addition, under the mangrove forest strategy, the Company initiated the marine waste trap project by launching a pilot at Bang Ya Phraek Subdistrict, Samut Sakhon Province in Thailand, to create the participation of civil society in management of marine debris, develop an appropriate and efficient marine debris management model, provide added value for marine debris, protect and restore ecosystems, and enrich marine and coastal biodiversity.



Since 2016, CPF Rak Ni-Ves at Phraya Doen Thong Mountain Project, Lopburi Province, Thailand, has transformed approximately 7,000 rais or 1,120 hectares of degraded forest into fertile forest and has brought nature back to life. In addition, CPF has collaborated with researchers to explore biodiversity of mammals, reptiles and birds. In 2019, foxes, a protected wildlife species, were spotted at the restoration area of Phraya Doen Thong Mountain, and pine buntings were discovered for the first time in Thailand and Southeast Asia in Phraya Doen Thong Mountain project area. In 2020, predator abundance continued to increase, with reports of sightings of foxes, common palm civets, small Asian mongooses and star cats. These groups of predators help control populations of other animals in the areas, such as rats which are pests destroying seedlings, fruits and wood grains in the forest restoration areas. They also help control exotic animal found in the areas such as iguanas. Greater diversity of wildlife populations in the area is a result of constructions and maintenance of check dams and fire protection lines. The forest thus becomes a safe habitat and food source for plants and animals to propagate and increase their populations.



The information derived from the surveys on species nature-based solutions. CPF has planned to further and numbers of wildlife in the Phraya Doen Thong expand the project in the following year and monitor Mountain project area, according to the International diversity by focusing on studies of mammals, reptiles Union for Conservation of Nature (IUCN) Red List, has and birds, along with the development of food sources and ecosystems that are suitable as wildlife habitats. been compiled as basic data used to monitor biodiversity development performance in the strategic project for





2030 Target



food waste from operations

100%

of plastic packaging for food products to be recyclable or reusable or compostable



Using technology and innovation such as automation, robotics, and digital technology will help minimize food loss throughout the production process and utilize food loss as much as possible to mitigate environmental impacts to ensure a better world.

Mr.Pairoj Apiruknusit Executive Vice President in Aqua Integrated Business Thailand Area Sponsor for Food Loss Sub-Working Group



8

One-third of the food produced is discarded as food waste while more than 690 million people around the world, accounting for approximately 10% of the world's population, are starving and malnourished. Thus, CPF's commitment to food waste reduction is to aim to reduce both losses in the economic value and resources, and to end hunger, all of which contribute to global food security.

Mr.Sathit Sangkanarubordee

Chief Operating Officer in Five Stars & Restaurant Business Sponsor for Food Waste Sub-Working Group As of 31st December 2021



Packaging plays an important role in delivering safe foods to consumers. However, without good management, packaging may cause problems and affect the environment. Therefore, CPF is dedicated to developing innovative packaging to create alternatives via research, to reducing unnecessary use of packaging, and to collaborating with its networks to manage post-consumer plastic packaging through recycling processes and creating value to the packaging after being used.

Mr.Narerk Mangkeo

Executive Vice President in Ready-to-Eat Food Business Sponsor for Sustainable Packaging Sub-Working Group



Sustainable Packaging

By 2050, the world's population will increase to more than 9 billion¹ which may cause the world to face a problem of scarcity of resources used food production. Meanwhile, around 30 percent of food is wasted around the world today, accounting for 1,300 million tons per year². These food wastes cause about 8 percent of total GHG emissions. It is not only food waste that affects the environment. Food packaging is also a major contributor to marine pollution problems. About 10 percent of plastic waste found in the ocean is food packaging causing plastic contamination in the human food chain. Moreover, the COVID-19 situation has led to an increase in plastic packaging waste from home delivery for food and other products. To jointly solve such problems, as well as creating food security and environmental balance, CPF has integrated the circular economy concept throughout the Company's value chain.

Management Approach

- Establishing Policies and Guidelines: creating and driving the Food Loss and Food Waste Policy and the Sustainable Packaging Policy and Principle to achieve goals, as well as monitoring and reviewing performances and continually improving operations.
- Applying Principles of Circular Economy throughout the Value Chain: focusing on improving food waste, food loss and packaging management to enable the upcycling process to ensure the most effective way of and cost-effective solutions to use of resources.



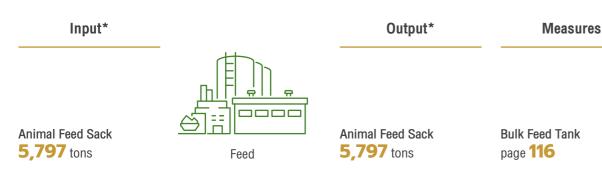
United Nation, World Population Prospect 2019; June 2019

² Food and Agriculture Organization of the United Nation, Global Food Losses and Food Waste – Extent, causes and prevention: 2011.

³ Morales-Caselles et al, An inshore-offshore sorting system revealed from global classification of ocean litter, Nature Sustainability, 2021

- Raising Awareness: communicating and raising awareness about food waste and post-consumer packaging management, which will lead to behavioral changes of personnel within the organization and consumers.
- Building Networks of Cooperation: jointly working with government agencies, the business sector, independent entities and other stakeholders in order to enhance the management of food waste and post-consumer packaging.

Implementation







Food

Distribution Center and Channels and

Restaurants

Food Packaging Metal 71 tons Glass 860 tons Paper 25,261 tons Plastic 18,687 tons

Food Loss Used for alternative purposes **124,114** tons Discarded **1,955** tons Food Packaging Metal 71 tons Glass 860 tons Paper 25,261 tons Plastic 18,687 tons

page **113** Value Added Co-Products page **113** Reducing Food Loss to Create Value page **113** Reduction of Plastic and Paper Use in Food Packaging page **117**, **119 Promoting Circulation** of Packaging for Maximum Utilization page **118**

Smart Egg Conveyor

System Project

Circular Meal Project page **114** Send Plastic Home Project page **118**

The data of Thailand operations

Food Loss and Food Waste

CPF recognizes the importance and strives to develop production processes throughout the value chain to reduce food loss and food waste. CPF also promotes utilization of waste according to the principles of circular economy, covering animal farming, food processing, distribution center and channels and restaurants. Further to this, CPF supports the United Nations' Sustainable Development Goals (UN SDGs) on sustainable production and consumption. Therefore, CPF has formulated the Food Loss and Food Waste Policy with the following guidelines:



The management framework is as follows:

Production Planning

Ensuring production planning procedure for all stages from purchasing raw materials, manufacturing, transporting, and distributing goods in order to determine quantities of raw materials, production volumes, and quantities of goods that meet consumer requirements.



Quality Control

Controlling qualities of raw materials and products according to set standards or established criteria to reduce disposals of raw materials and poor quality products.





Management of Food Loss and Food Waste

Projects to Reducing Food Loss in the Production Process

CPF has implemented a wide range of projects to reduce food loss in the production process, which include:

• Smart Egg Conveyor System Project: an automated system has been used to reduce damage during the conveying of eggs from farms to egg sorting plant and during the egg sorting process. Data show that the system has reduced the number of damaged eggs by approximately 1 percent and increased income derived from good quality eggs by more than THB 14 million per year.

Promoting Utilization of Food Loss, Surplus Food, and Food Waste

CPF adheres to food safety standards, resulting in benefits to societies, reducing environmental impact and mitigating effects of climate change.

Value Added Co-Products

• Animal parts and components are sold as fresh food or processed foods e.g. innards, pig head and shred meat in order to add value to products and ensure safe consumption, for instance, CP pasteurized pork blood cubes and lard, Chip Chip crispy fish skin.

Reducing Food Loss to Create Value

• Processing innards, feathers and eggs that are damaged during production into feed raw materials, which can reduce the amount of waste from the production process by an average of 121,000 tons per year and help reducing GHG emissions from waste disposal by 306,000 tons of CO e per year

Maintaining and inspecting gualities of raw materials and goods in optimal conditions to

Maximizing value of co-products to minimize food loss and food waste.



- Providing crushed eggshells from egg processing plants as composting or soil improvement material for farmers around Nakhon Nayok province, which reduces the amount of waste disposed of in landfills by more than 1,000 tons per year, reduces GHG emissions by more than 2,500 tons of CO e per year, and reduces production costs and the use of chemical fertilizers by farmers as well.
- Treating wastewater that contains organic matters from chicken processing plants, farms and eggs sorting plants such as blood, fat and damaged eggs, by using a biogas system in order to produce biogas energy for the production processes. The total GHG emissions of 14,000 tons of CO e per year can be reduced accordingly.

Cooperation Network Project

S "Circular Meal" Project

CPF had joined hands with the Scholars of Sustenance Foundation (SOS) and GEPP Sa-Ard Company Limited (GEPP) to transform surplus food into more than 15,000 ready-to-eat, delicious, clean, and safe meals, creating access to food for people including children, paupers and vulnerable groups affected by the COVID-19 crisis, and to collect and recycle more than 5,000 pieces of post-consumer plastic packaging, all of which reduced food waste by more than 3 tons and GHG emissions by more than 8 tons of CO₂e.



Performance in 2021 (Thailand Operations) Quantity of Food Loss*



Total weight of food loss

126,069 tons



Total weight of food loss used for alternative purposes

124,114 tons



Total discarded

1,955 tons

The total weight of food loss covered fresh chicken meat and egg products, collected from enterprise resource planning (ERP) system.



Sempty Plate, Save the Planet Project

CPF organized an activity to create value-conscious consumption behaviors without leftover food, which supports UN SDG 12.3 at an individual level. The project aimed to instill conscious consumption behavior at the individual level first and foremost which can then lead to each individual spreading the idea and inviting others to take up the practice, which will then result in a wider scope of impact towards the societal and national levels. 17,312 photos of empty plates without leftover food were posted on social media by employees as part of this project activity. This potentially reduced total food waste by more than 1 ton and GHG emissions by more than 3 tons of CO₂e.



The Amount of Discarded Food Loss Categorized by Production Processes of Fresh Chicken Meat and Egg Products

					Unit: Tons
Product	Harvest	Transport	Production	Storage	Total
Fresh Chicken Meat	165	0	1,319	0	1,484
Egg	24	12	256	179	471

Sustainable Packaging

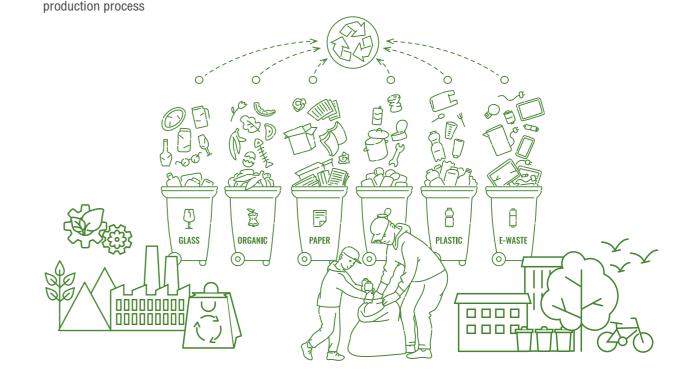
CPF recognizes the importance of packaging that protects and maintains quality and safety of products. In the meantime, CPF also takes into account the environmental impact caused by use of resources in the production of packaging that eventually becomes waste. CPF is therefore committed to researching and developing sustainable packaging design and management based on the circular economy concept throughout the value chain, in order to use resources in the production of packaging to gain maximum benefit, to reduce packaging waste problems, and to promote the use of materials that reduce environmental impact according to its Sustainable Packaging Policy and Principle.

CPF's Packaging Management Framework



Production

Allocation of R&D resources to To phasesustainable packaging and alternative solutions from the beginning of the







Consumption To phase-out single-use plastic

Post-Consumer Waste Management

To ensure that recyclable packaging is actually recycled

Developing Innovations for Minimization of the Packaging Use

V Feed Business

The livestock feed business has developed bulk feed tanks to be used for containing animal feed for transportation instead of using plastic sacks, which reduce the use of plastic sacks by 50 percent in Thailand, Laos, Cambodia, Vietnam, Malaysia, Philippines, India, Turkey, Russia and Republic of China (Taiwan) operations.

Reducing the total use of plastic by more than 16,000 tons

Reducing GHG emissions		
by more than		
51,000		

tons of CO_e



V Farm Business

In 2006, the aquaculture business developed Q-pass tanks to be used for containing shrimp post-larvae for transporting to customers. The Q-pass tank could be washed, sterilized and reused. Later, the Q-pass tank was further developed to meet customer requirements and can be transported properly according to specific requirements in each area.

Reducing the total use of plastic by more than



Reducing GHG emissions by more than





Q-pass Tank

Q-pass Tank for transporting large post-larvae



V-plus Tank



Mini Q-Tank

Meat Processing and Food Production Businesses

CPF's packaging research and development unit has worked with packaging manufactures to develop alternative packaging designs in order to use new materials, reduce thickness, and resize, or change format of food packaging while maintaining properties and efficacy of product protection to ensure safety and preserve complete nutritional value. CPF has set a goal to reduce use of paper and plastic in food packaging by 1,000 tons by the year 2025. In 2021, the total GHG emissions of 3,300 tons of CO e can be reduced from several of food packaging development projects.



currently patent pending.



Reducing the use of paper by



Before Box with 2 pieces of paper

Changing the printing method of Ezy Choice chilled food product labels from printing the labels on stickers to printing them directly on sealing films.



Reducing the use

Re-Design

of plastic by

25 tons per year

Before Product labels printed on sticker

Food Distribution Channels and Restaurants

To Phase Out Single-Use Plastic





A fast food restaurant "Chester's" uses melamine plates, stainless steel spoons, forks and knives, as well as glasses for beverages without single-use plastic in more than 200 branches all over Thailand.

Reducing the amount of papers used for the CP Flamin' Chicken Tenders packaging, from 2-piece paper boxes to one-piece paper boxes, however with the same strength to prevent product damage from transportation. This design won the 4th Asian Export Awards and is





Box with 1 piece of paper





After Product labels printed on sealing film



Five Star shops in Thailand, Cambodia, Vietnam and Laos operations use paper bags, instead of plastic bags, purchased fried chickens.

Promoting Circulation of Packaging for Maximum Utilization

To Increase the Use of Reusable Packaging

- CPF promotes the use of reusable packaging in the production processes, including:
- Stainless steel trays used for transporting chicken parts in the production in chicken processing plants can be washed and reused.
- · Plastic baskets used for transporting food products between production plants and distribution centers, as well as delivering food products to customers.
- Egg trays used for transporting eggs between farms and egg processing plants.
- **To Increase** the Use of Recyclable Packaging





CPF has jointly worked with packaging manufacturers to develop new packaging innovation, 2-layer mono-material plastic film technology, resulting in 100 percent recyclable packaging. It is used for production of packaging for all frozen Meat Zero products.

Chef Cares ready-to-eat food packaging is designed to have the tray, the lid, the film wrap and the product label easily separated from each other, allowing for easy waste segregation and post-consumer recycle.

CPF promotes the use of recycled materials in various packaging without affecting the quality To Increase of food products such as: the Use of Recycled Paper boxes and corrugated boxes made from recycled paper for packing products for Material as Packaging transportation. Solutions

- · Glass bottles and metal lids.
- Egg trays made from 100 percent recycled paper and PET plastic with 80 percent recycled plastic in the layer that is not in direct contact with eggs, which can reduce the use of virgin plastic by 700 tons per year.



Send Plastic Home Project

To Raise Awareness and Participation in Plastic Waste Management

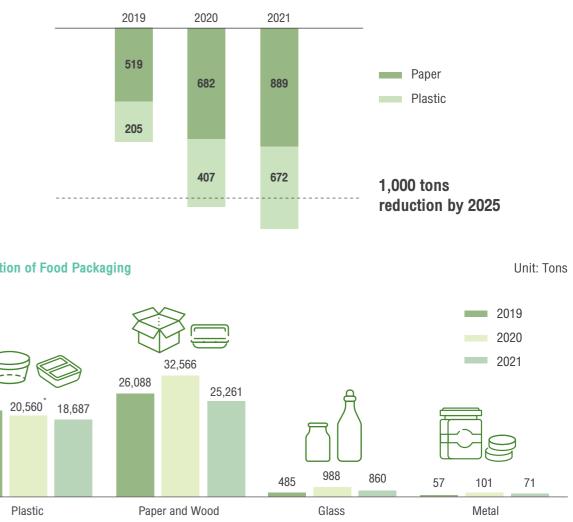
CPF collaborated with the private sector, the public sector and the people sector to implement the "Send Plastic Home" Project and promoted among consumers, through joint campaigns, used plastic packaging waste segregation for recycling or upcycling to produce new products. This is to ensure that recyclable packaging is actually recycled. CPF's plastic packaging waste pickup point is located in front of CP Freshmart, Petchaburi 38/1 branch, (Soi Sukhumvit 39), which can receive the total of 700 kg of post-consumer plastic packaging.

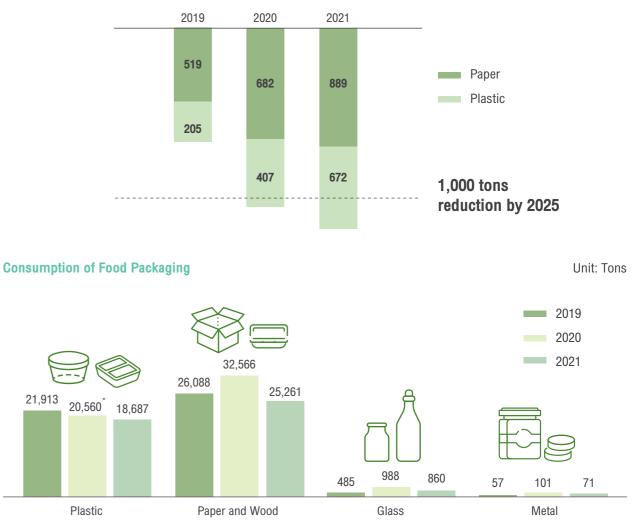
Catch the Trash Project

CPF collaborated with the Department of Fisheries, the private sector and fishing boats to implement a campaign to encourage fishermen to refrain from dumping garbage into the sea, as well as to collect garbage from boats and garbage attached to fishing gear back to the shore. It is further developed as a pilot project, in which CPF cooperated with the JDP; a fishmeal factory in Trang province and fishermen to use plastic bottles collected from the sea to produce 500 upcycling uniforms to be distributed to employees.

Performance in 2021 (Thailand Operations)

Reduction of Plastic and Paper Use in Food Packaging





Quantity of plastic packaging in 2020 has been adjusted from the data disclosed in Sustainability Report 2020 due to re-calculation.

Proportion of Recycled Materials Used in Different Packaging Types





Proportion of Food Plastic Packaging Classified by Type of Plastic



About this Report

Choroen Pokphand Foods Public Company Limited, also known as CPF, has continuously prepared our sustainability report since 2011, to communicate of CPF's activities to stakeholders our commitment to conducting business towards sustainability, as well as economic, social and environmental impacts.

Reporting Period:

Accounting Period of 2021, from 1 January to 31 December 2021

Reporting Framework:

This report has been disclosed the Company's performance regarding to the material issues and prepared in accordance with international guidelines as follows:



Contact Point:

For additional information or inquiries on this report, please contact us at:

Office of Corporate Sustainable Development

Charoen Pokphand Foods Public Company Limited (Headquarter) 313 C.P. Tower, Silom Road, Bangrak, Bangkok, 10500, Thailand Telephone: (+66) 2766 8571-4 E-mail: sd@cpf.co.th

Website: www.cpfworldwide.com

Reporting Frequency:

Annually

Third Party Assurance:

This report has been prepared in accordance with the GRI Standards: Core option, which is also subject to independent third-party assurance by LRQA (Thailand) Limited according to our policy. The assurance also covers environmental, and occupational health and safety performance. The financial performance is reviewed by KPMG Poomchai Audit Ltd., and details are shown in the Auditor's Report in the Annual Report 2021.

The report and additional documents as follows:

- Performances Data
 - People
 - Occupational Health and Safety
 - Environment
- Report Boundary
- GRI Content Index
- Communication on Progress Index UN Global Compact
- Sustainable Development Goals (SDGs) Index
- Task Force on Climate-related Financial Disclosures (TCFD) Index
- Assurance Statement

The documents are available at: www.cpfworldwide.com under "Sustainability" Topic: **"Sustainability Report"**





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