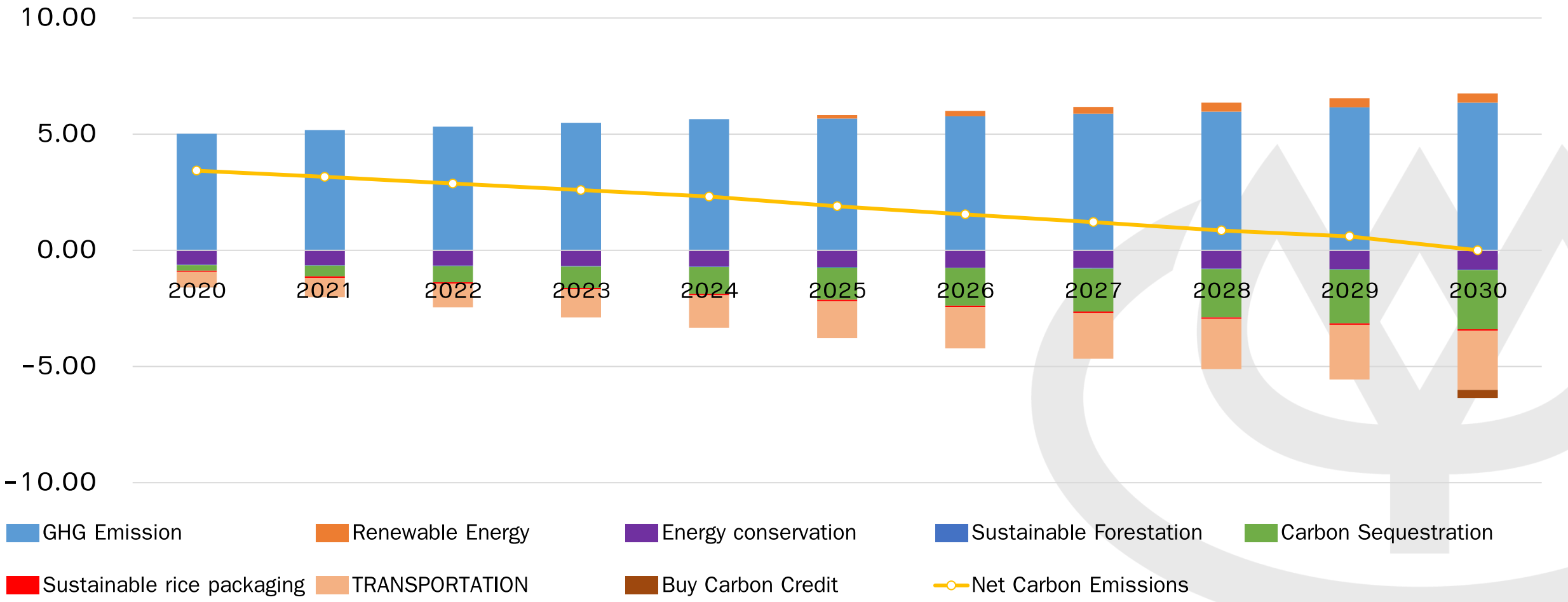
STRATEGY

CPI Pathways to Net Zero

CPI TRADING

Greenhouse Gas Emissions

Unit: 10,000 Ton CO_2eq



STRATEGY

Project for GHG emissions reduction

CPI TRADING

RENEWABLE ENERGY

- Solar Energy

PROCESS OPTIMIZATION & ENERGY EFFICIENCY

- High Efficiency Air Compressor
- High Efficiency Lighting

SUSTAINABILITY AGRICULTURE

- Carbon Footprint (Organization, Product)
- Water Footprint
- Reduce Methane in Rice Field

WASTE MANAGEMENT

- Plastic packaging to be reusable
- Food loss and Food waste

FORESTATION

- Reducing Emission from Deforestation and Forest Degradation and Enhancing Carbon Sequestration in Forest Area

TRANSPORTATION

- Increase present of water transport

STRATEGY

Reduce Methane in Rice Field

- Methane Sequestration in the soil
- Nutrient Management

8-15 % Methane Reduction
0.5 **kgCO2 eq./ 1kg rice**
35,000 **Ton CO2 eq**

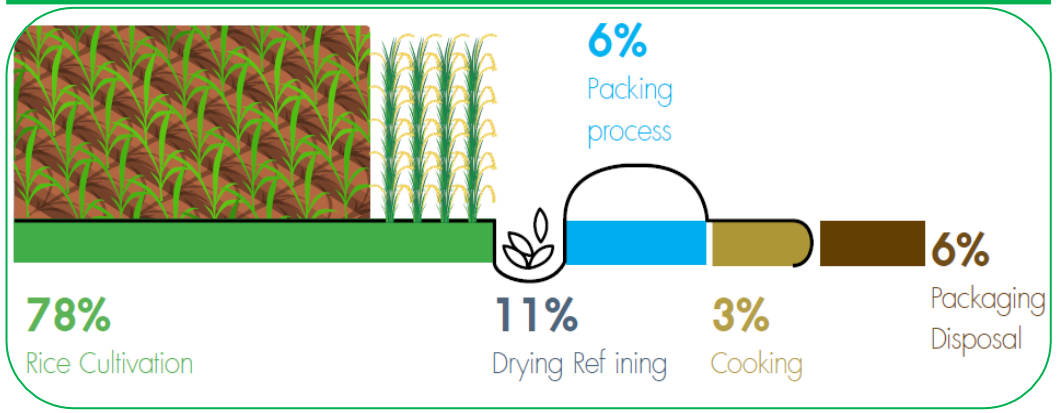
The CPI's average methane emission rate of jasmine rice 105 was 4.60-5.24 mg/sqm/hr
Thailand 's average 5.73 mg/sqm/hr

STRATEGY

Reduce Methane in Rice Field

CPI TRADING

Greenhouse gas emissions in the rice process



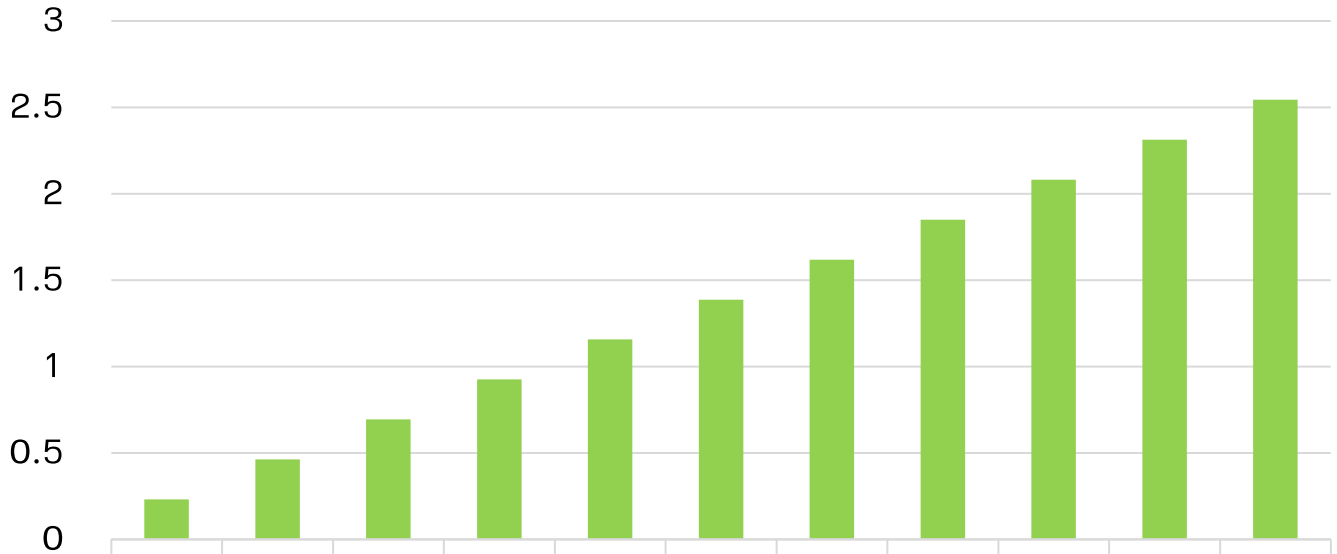
- Methane Sequestration in the soil
- Nutrient Management

190,198 Rai

Paddy field that promotes

2020-2030

Increased Sequestration 1%/year



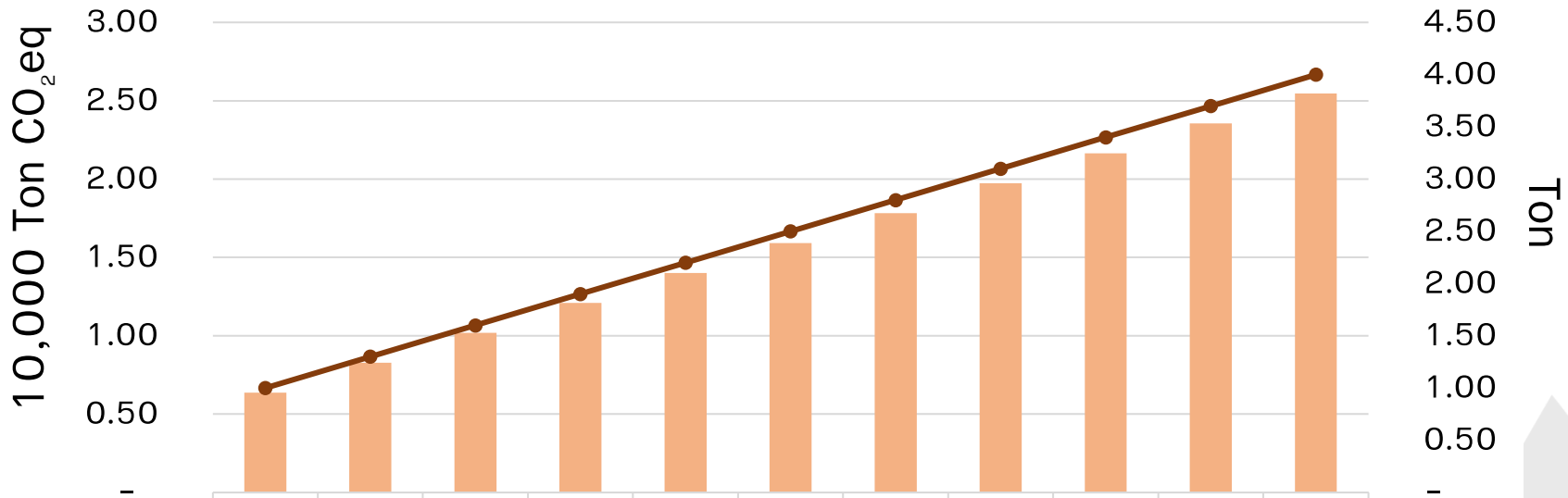
	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Carbon Sequestration	0.231	0.463	0.694	0.925	1.157	1.388	1.619	1.851	2.082	2.314	2.545

Reference; PCR, IPCC 2007

STRATEGY

Increase the potential of transportation from land to water

Ayutthaya Port & ICD Co., Ltd.



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

In case, Max capacity (8M ton)

GHG Reduction = 50,900 tonCO_2

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

Emission factor

Ship = 0.0107 kgCO_2/tkm

Truck = 0.0404 kgCO_2/tkm

Reference; Ecoinvent 2.2, IPCC 2007 GWP 100a