

# Sustainability Development Strategy and Goals



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The Company continues to drive corporate sustainability development to be consistent with ESG or environmental and social operations based on good corporate governance. The Company has integrated the United Nations Sustainability Development Goals (SDGs) into operational strategies throughout the business value chain to increase positive impacts and reduce negative impacts from business operations under clear operational plans and goals.

The Sustainability Management Committee is responsible to set and review sustainability development policies and support operational plan that is consistent with the overall policy and strategic plan to achieve sustainability development goals. While the working group develops sustainability standard, conducts report, carry out the strategic plan, follow up on results to report sustainability development operation to the Sustainability Management Committee.



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## MANAGEMENT OF Materiality Topics 2024–2025




Set strategies and goals for the organization's Materiality Topics

Materiality Topics	Types of impacts	Nature of the impact	Related Stakeholders	Strategy	Goal	Alignment with the Sustainable Development Goals (SDGs)
<b>1. Supply Chain Management</b> <ul style="list-style-type: none"> <li>- Procurement Practices</li> <li>- Local Procurement</li> <li>- Raw Material Management</li> </ul>	–	<ul style="list-style-type: none"> <li>• The quantity and price of raw materials are highly volatile due to being agricultural products</li> <li>• Some types of raw materials have few suppliers</li> <li>• Unfair practices towards business partners</li> </ul>	Partners, Customers, Shareholders/Investors, Community, Competitors, Local and Government Regulatory Agencies	<ul style="list-style-type: none"> <li>• Forecast the quantity of raw material production in advance and source raw materials during the harvest season</li> <li>• Survey and request quotes from multiple suppliers transparently to obtain a reasonable price</li> <li>• Regularly meet with both raw material suppliers</li> </ul>	100% Capacity Utilization (Ensure a sufficient supply of raw materials to meet production volume)	 
<b>2. Climate Change Management</b> <ul style="list-style-type: none"> <li>- Extreme Weather</li> <li>- Climate Action</li> <li>- Policy &amp; Legal</li> </ul>	+	<ul style="list-style-type: none"> <li>• Changes in government policies, regulations, and announcements related to the ethanol and biodiesel business</li> <li>• The transition of energy technologies, expansion into other businesses, and the development of advanced technologies, such as reducing or changing the type of raw materials to non-food crops</li> </ul>	Partners, Customers, Shareholders/Investors, Community, Competitors	<ul style="list-style-type: none"> <li>• Develop new businesses by expanding existing ones to increase product value, reduce raw material and resource consumption, and minimize environmental impact</li> <li>• Research and develop technologies and innovations that sustainably reduce greenhouse gas emissions in alignment with climate change adaptation</li> <li>• Establish a dedicated unit responsible for overseeing greenhouse gas management, monitoring emissions, and implementing greenhouse gas management measures</li> </ul>	<ul style="list-style-type: none"> <li>• Short-term goal: Reduce total greenhouse gas emissions (Scope 1 and Scope 2) by 15% by 2026, compared to the 2022 baseline year</li> <li>• Medium-term goal (Carbon Neutrality): Reduce total greenhouse gas emissions Scope 1 and Scope 2 by 30% by 2030, compared to the 2022 baseline year</li> <li>• Long-term goal (Net Zero): Achieve net-zero greenhouse gas emissions by 2050, compared to the 2022 baseline year</li> </ul>	 
	–	<ul style="list-style-type: none"> <li>• Global warming leading to climate crises (Physical risk), such as severe droughts and floods, affecting the availability of agricultural raw materials. Additionally, government measures, such as EV policies and the Climate Change Act, impact business operations</li> </ul>	Partners, Customers, Shareholders/Investors, Local and Government Regulatory Agencies			

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Materiality Topics	Types of impacts	Nature of the impact	Related Stakeholders	Strategy	Goal	Alignment with the Sustainable Development Goals (SDGs)
<b>3. Innovation</b> - New Technology - New Business	+	<ul style="list-style-type: none"> <li>Leverage innovation to expand into new businesses</li> <li>Mitigate risks associated with energy technology transitions and business disruptions</li> <li>Foster collaboration with external organizations to develop business innovations</li> <li>Enhance the knowledge, skills, and capabilities of executives and employees</li> <li>Utilize innovation for environmental management</li> </ul>	Employees, Partners, Customers, Shareholders/Investors, Community, Competitors, Local and Government Regulatory Agencies	<ul style="list-style-type: none"> <li>Maintain leadership in ethanol and biodiesel production within the country and ensure continuous long-term growth in product delivery, quality, raw material sourcing, and transportation costs</li> <li>Strive for growth in high-value bioproducts and develop new environmentally friendly businesses</li> <li>Establish a dedicated unit responsible for new business development to drive innovation and business expansion</li> </ul>	40% EBITDA HVP by 2030	 
	-	<ul style="list-style-type: none"> <li>Investing in innovation presents risks</li> <li>Employees must learn and adapt to accommodate change</li> </ul>				

## Materiality Topics that support the organization's main Materiality Topics

Materiality Topics	Sub-Topic	Types of impacts	Nature of the impact	Related Stakeholders	Alignment with the Sustainable Development Goals (SDGs)
<b>4. Customer Relationship</b>	Customer Satisfaction Quality Product and Service	+	<ul style="list-style-type: none"> <li>Increase opportunities for business expansion in collaboration with customers</li> <li>Enhance quality and services to meet customer needs</li> </ul>	Customers, Competitors	
		-	<ul style="list-style-type: none"> <li>Investing in innovation presents risks</li> <li>Employees must learn and adapt to accommodate change</li> </ul>		
<b>5. Water and effluents Management</b>	Irrigation Management Wastewater Treatment Odours	+	<ul style="list-style-type: none"> <li>Convert wastewater into renewable energy</li> </ul>	Community, Local and Government Regulatory Agencies	 
		-	<ul style="list-style-type: none"> <li>Harnessing water from natural sources for use and managing wastewater</li> </ul>		







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Materiality Topics that support the organization's main Materiality Topics (continue)

Materiality Topics	Sub-Topic	Types of impacts	Nature of the impact	Related Stakeholders	Alignment with the Sustainable Development Goals (SDGs)
6. People Development	Employee Knowledge Organization Transformation Employee Wellbeing Competition of Talent Employee Engagement	+	<ul style="list-style-type: none"> <li>Develop the potential of employees to support the business growth of the group</li> <li>Create an intellectual society to retain and attract talented individuals, fostering a strong corporate culture that enables competition with other businesses</li> </ul>	Employees, Partners, Customers, Competitors	
		-	<ul style="list-style-type: none"> <li>Employee turnover rate, lack of employee engagement with the organization, and the loss of high-potential employees</li> <li>Manage internal work processes efficiently to prevent work disruptions</li> </ul>		
7. Risk Management		+	<ul style="list-style-type: none"> <li>Stakeholders have confidence in the organization</li> <li>Business operations are successful in achieving goals and continue to grow</li> </ul>	Employees, Partners, Customers, Shareholders/ Investors, Community, Creditors, Competitors, Local and Government Regulatory Agencies	
		-	<ul style="list-style-type: none"> <li>Business operations may not succeed in achieving the goals</li> <li>Stakeholders may be dissatisfied and may experience related impacts</li> <li>This could affect confidence in the organization</li> </ul>		
8. Energy Management	Renewable Energy Energy Efficiency	+	A just transition for developing countries, particularly from fossil fuels to green energy (Energy transition)	Partners, Customers, Shareholders/ Investors, Community, Local and Government Regulatory Agencies	
9. Waste Management	Biological waste Circular Economy	-	Waste from the production process impacts the environment and society	Community, Local and Government Regulatory Agencies	
10. Biodiversity	Ecosystem	-	The business operations of the group may impact the ecosystem, cause pollution emissions, and result in waste leakage	Community, Local and Government Regulatory Agencies	

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Materiality Topics that support the organization's main Materiality Topics (continue)

ประเด็นสำคัญด้านความยั่งยืน	Sub-Topic	ประเภทผลกระทบ	ลักษณะผลกระทบ	กลุ่มผู้มีส่วนได้ส่วนเสียที่เกี่ยวข้อง	ความสอดคล้องกับเป้าหมายการพัฒนาที่ยั่งยืน (Sustainable Development Goals : SDGs)
11. Occupational health and safety Management		+	<ul style="list-style-type: none"> <li>Build trust with all stakeholders</li> <li>Prevent loss of life, property, and the organization's reputation</li> </ul>	Employees, Partners, Customers, Shareholders/ Investors, Community, Local and Government Regulatory Agencies	
		-	<ul style="list-style-type: none"> <li>Production disruption</li> <li>Loss of both life and property, impacting the organization's image and stakeholders' confidence</li> </ul>		
12. Corporate Governance	Compliance BoD Management Economic Performance Ethical and Transparent Responsible Investment	+	Trust in joint investment / Confidence in collaborating in business operations	Employees, Partners, Customers, Shareholders/ Investors, Community, Creditors, Competitors, Local and Government Regulatory Agencies	 
		-	<ul style="list-style-type: none"> <li>Stakeholders lack confidence in the organization's business operations</li> <li>Shareholders lose income</li> </ul>		
13. Anti-corruption		-	Fraud and corruption within the organization	Employees, Partners, Customers, Shareholders/ Investors, Community, Creditors, Competitors, Local and Government Regulatory Agencies	
14. Human Right	<ul style="list-style-type: none"> <li>Labor Practices</li> <li>Child Labor</li> <li>Forced or compulsory Labor</li> <li>Freedom of association &amp; Collective Bargaining</li> <li>Non-discrimination</li> </ul>	+	Receiving good care and attention from the organization, with no discrimination, oppression, or harassment, and the freedom to express opinions appropriately	Employees, Partners, Customers, Shareholders/ Investors, Community, Local and Government Regulatory Agencies	 
		-	Prevent the use of illegal labor throughout the value chain, such as child labor, migrant labor, forced labor, etc.		

นิพจน์ที่กล่าวถึงตัวต่อให้ปรากฏจากงานที่เน้นงานการเป็นผู้นำคือเชิงพาณิชย์จากงานที่นำร่องประเทศ แม้ว่าการเป็นผู้นำด้าน Biotechnology โดยการนำพื้นฐานความรู้ด้าน Biotechnology และนวัตกรรมที่เป็นนวัตกรรมในแวดวงเภสัชศาสตร์กับวิทยาศาสตร์กับชีวการแพทย์มา เพื่ออนาคตที่ยั่งยืนของโลก