



THAI ROONG RUANG
SUGAR GROUP
กลุ่มน้ำตาลไทยรุ่งเรือง



Sustainability Report

2023

Thai Roong Ruang Sugar Group



Thai Roong Ruang Sugar Group is a leading producer and distributor of sugar in Thailand and abroad. Our products adhere to world-class standards in sugar production while utilizing locally sourced raw materials from Thai farmers. Established in Phrom Pong Alley, Bangkok in 1945 as Thailand's first private-owned sugar mill, Thai Roong Ruang Sugar Group has grown steadily, expanding to encompass five factories at present.

Our business conduct is grounded on the core values passed through generations. We uphold honesty, integrity, transparency, and forthrightness towards all our stakeholders, including sugar farmers, business partners, customers, consumers, employees, and all related parties, while remaining committed to maintaining product quality and continuously seeking opportunities for product development.

Sustainability Strategy



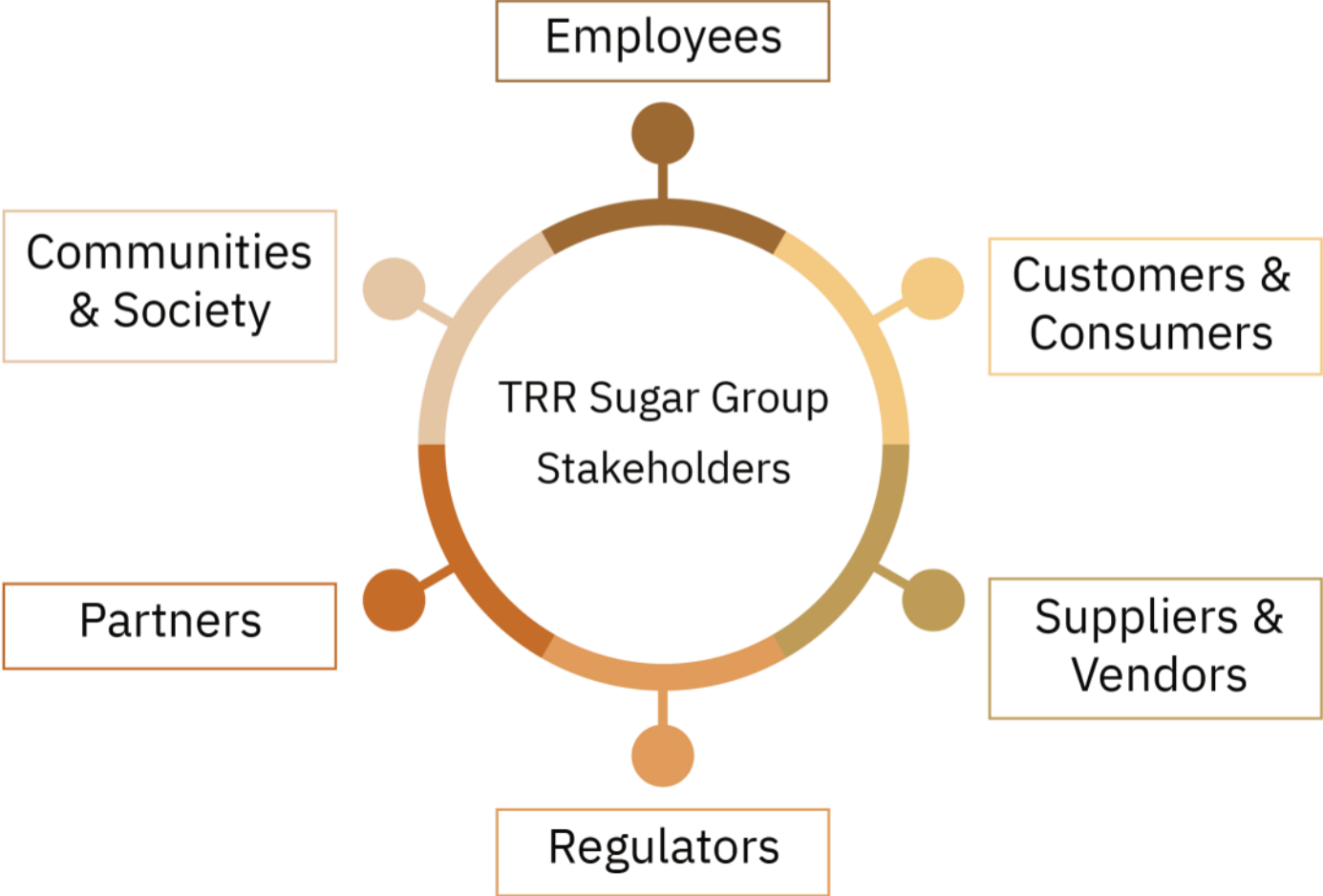
Thai Roong Ruang Sugar Group’s sustainability strategy consists of three pillars, including:

- 1. Sustainable Value Chain – Management of all business activities through the value chain, from raw material sourcing, processing, to production of quality products.
- 2. Sustainable Environment – Management of environment, energy, and climate change.
- 3. People Well-Being – Ensuring the health and well-being of our employees and communities, and supporting philanthropic activities within our communities, with priority areas in economy, public health, education, environmental, and social support.

Our sustainability strategy is rooted on a foundation of good corporate governance, and is linked to the United Nations’ Sustainable Development Goals (SDGs), SDGs 3, 8, 9, 12, and 13.

Stakeholders in Our Value Chain

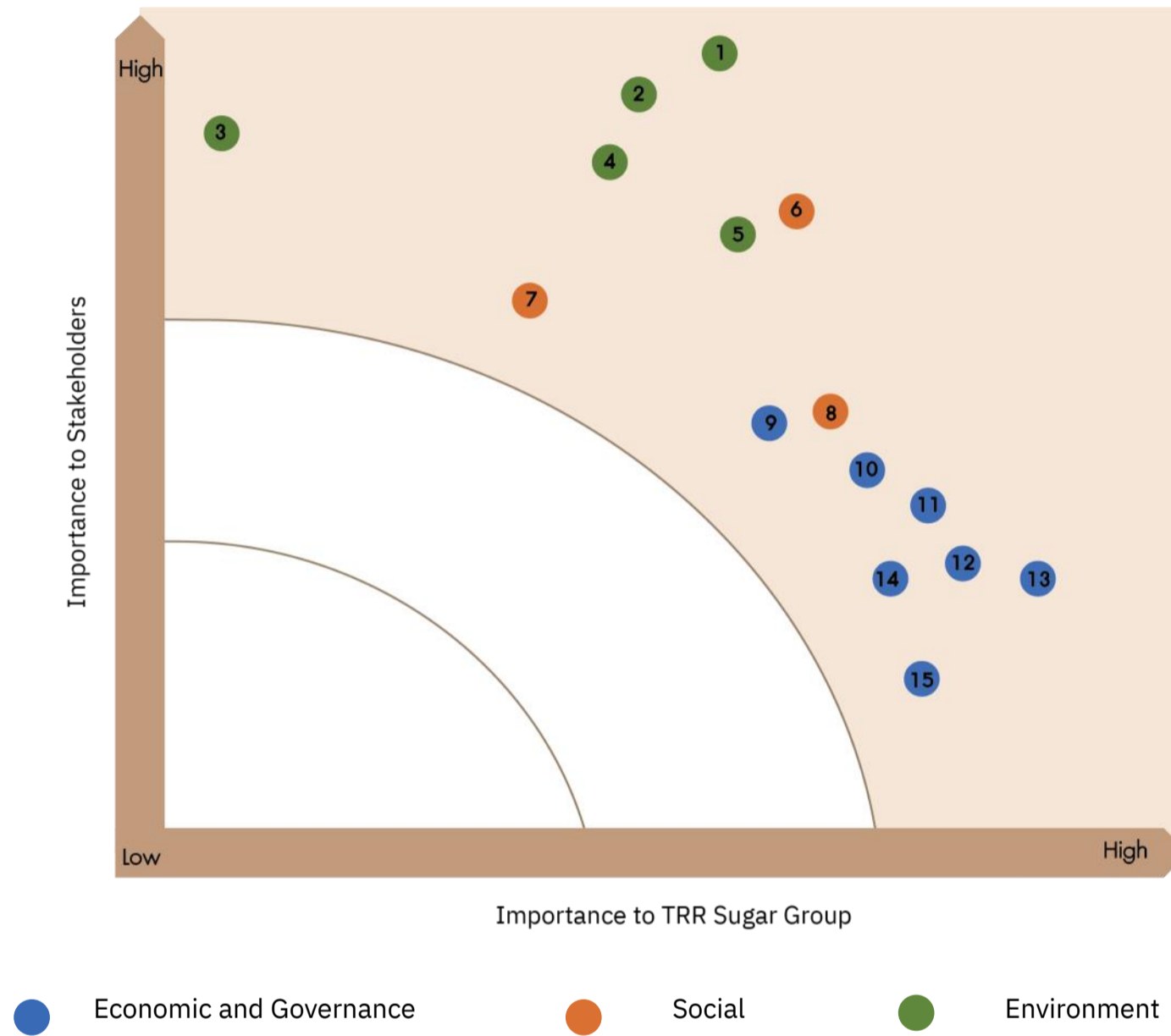
Thai Roong Ruang Sugar Group values the participation of our stakeholders. We prioritize stakeholder engagement and have put in place activities and various communication channels to ensure that our stakeholders can share their thoughts and suggestions. Inputs given by



Our Materiality Sustainability Topics

Thai Roong Ruang Sugar Group has completed an assessment of topics that affect our organizational ability to create value. The assessment was informed by stakeholder engagement and encompasses topics that are materiality in the short, medium, and long term.

Materiality Assessment Results



- | | |
|---|---|
| 1. Water and Wastewater Management | 9. Supply Chain Management |
| 2. Climate Crisis | 10. Product Quality |
| 3. Chemical/Pesticide Use | 11. Farmer Relations |
| 4. Air Pollution Management | 12. Ethics and Anti-Corruption |
| 5. Hazardous and Non-Hazardous Waste Management | 13. Compliance with Laws and Requirements |
| 6. Community Safety | 14. Cost Management |
| 7. Occupational Health and Safety | 15. Good Governance |
| 8. Customer Health and Safety | |

Environmental Stewardship and Management



Climate Change and Greenhouse Gas Management



Climate change, a global challenge stemming from the rise in greenhouse gas emissions in the atmosphere, has significant impacts on living conditions, human livelihoods, and food security. For Thai Roong Ruang Sugar Group, climate change also presents direct risks to our business, such as the heightened scarcity of raw materials essential for sugar production.

Thai Roong Ruang Sugar Group therefore prioritizes the need to reduce and mitigate greenhouse gas emissions and environmental impacts across all our business activities. We have set a target to achieve net zero greenhouse gas emissions by the year 2050. As a first step, in 2023, we began preparing an organizational greenhouse gas inventory to account for our greenhouse gas emissions and organizational carbon footprint. We have referred to the calculation methods outlined in the ISO 14064-1:2018 standard, and have implemented this initiative in all factories within the Group. In addition, as part of our efforts to reduce the carbon footprint of our products, we have registered low-carbon products with the Thailand Greenhouse Gas Management Organization (TGO).

Achievements



13 products were certified with the Carbon Footprint for Product label.



6 products were certified with the Carbon Footprint Reduction label.

Energy Management

Efficient energy management is another approach that Thai Roong Ruang Sugar Group has continuously pursued to support the goal of achieving net zero greenhouse gas emissions by 2050. We allocate resources to promote efficient energy use in all departments, seek opportunities to employ technology to prevent unnecessary energy loss, and invest in increasing the share of energy consumption from renewable sources. Furthermore, we also recycle sugarcane leaves, a by-product of sugarcane cutting, to produce biofuel.

Targets

- Increase the share of energy consumption from renewable sources
- Increase the quantity of sugarcane leaves purchased

Achievements

Phitsanulok Sugar Co., Ltd. and Phitsanulok Electricity Generating Co., Ltd. installed a 998-kW rooftop solar system at the sugar warehouse.



Achievements

Thai Roong Ruang Sugar Factory (Phetchabun), Thai Roong Ruang Corporation Factory, and Phitsanulok Sugar Factory purchased sugarcane leaves to be used as biomass fuel for biomass power plants.

In the 2022/23 production year, 80,618.57 tons of sugarcane leaves were used for biofuel production, equivalent to a reduction of 9,435 tCO₂e in greenhouse gas emissions.



Reduce greenhouse gas emissions

9,435 tonCO₂e

Creating and Sharing Value with Society





Education

Educational institutions are among the prioritized partners of Thai Roong Ruang Sugar Group, and we have maintained a steadfast collaboration with them. This includes supporting initiatives to strengthen students' knowledge and understanding of moral and ethical values, providing assistance where needed to improve infrastructure and the learning environment, and offering scholarships for students with exemplary behavior who may lack financial resources. We are committed in our efforts to increase equality of opportunity through investing in education.





Achievements

- 4 schools received 620,000 THB in financial assistance to improve infrastructure and the learning environment
- 37 schools received scholarships
- 3 schools accessed training
- 3 schools received lunch sponsorships





Economy

Throughout 2023, Thai Roong Ruang Sugar Group organized and implemented the “Sharing Smiles with Community Products Project” to promote products produced by local communities. A selection of products crafted by communities with techniques passed on through generations was put together as gift sets that were then distributed to Thai Roong Ruang Sugar Group’s benefactors.





In 2023, we partnered with organic rice farmers from the Nong Bua Srang Community Enterprise in Sakhon Nakhon Province to showcase their *Sakhon Nakhon Hang Rice* product, and the Non Kung Weavers Group from Nakhon Panom Province to feature their natural-dyed fabric bags. These bags are produced with natural dye from the *Kho* tree grown in local community forests. This project did not only generated income but also instilled pride within the participating communities, and promoted the sustainable development of the grassroots economy.



Achievements

- Supported local economies in Sakhon Nakhon and Nakhon Phanom Province
- Benefited 90 families
- Generated 100,000 THB in revenues



Environment

All Thai Roong Ruang Sugar Group factories maintain consistent engagement with communities and local agencies to protect the environment. We have co-organized various activities with communities and local agencies in the area, including forest restoration, check dam construction, and releasing fish to maintain biodiversity and protect ecosystems.





Achievements

- 11 communities have increased access to green spaces
- 9,000 trees were planted and maintained
- 4 check dams were constructed to increase soil moisture
- 82,000 fish were released to enrich biodiversity in water bodies





Public Health

Thai Roong Ruang Sugar Group eagerly supports local public health agencies in expanding public health services, aiming to ensure that people have strong health and are equipped with knowledge on disease prevention. We collaborate with sub-district-level health promotion hospitals, district-level hospitals, and other volunteer agencies to care for and assist the elderly, people with disabilities, the economically disadvantaged, and bedridden patients, and donate various medical equipment.



Dedicate Ourselves to Continuous Process Improvement



Sustainable Sugarcane Production

Thai Roong Ruang Sugar Group operates business with consideration towards all aspects in the supply chain, from soil preparation, sugarcane cultivation, production, through to distribution and delivery to our customers. At every stage, business activities are carried out in compliance with the law, with respect to human rights and labor standards, with caution towards preventing negative impacts on local ecosystems, and with a view towards seeking improvement opportunities to achieve the utmost efficiency.





We focus our sustainability efforts on three pillars – economy, society, and environment. Our factories, including Thai Rong Ruang Sugar Factory (Phetchabun), Thai Rong Ruang Sugar Factory (Sakhon Nakhon), Thai Rong Ruang Corporation Factory, and Phitsanulok Sugar Factory, have been Bonsucro certified for the past four years.



Achievements

- 84,227.49 rai of sugarcane plantations are Bonsucro certified
- 791 farmers under the quota were trained on basic first aid and use of PPE



Promoting Fresh Cane Harvesting

Thai Roong Ruang Sugar Group has consistently promoted sustainable agriculture practices, specifically fresh cane harvesting, amongst our partner farmers. Through practicing fresh cane harvesting, farmers can avoid sugarcane burning and prevent the loss of soil nutrients that result from burning. This approach helps preserve soil nutrients and protect local ecosystems, thus preventing soil degradation and ensuring that farmers can continue to cultivate the land in the long term.





Human Capital Development

Thai Roong Ruang Sugar Group continued to make progress in the “Smart Farmer: Young Sugarcane Entrepreneurs in Succession Initiative (4th Batch)”. The Initiative comprises practical training courses on sugarcane production, quality management procedures, and financial planning for sugar businesses. The training targets young sugar farmers and aims to equip participants with knowledge, information, and technology that they can apply to plan and manage their sugarcane businesses effectively.



Achievements

- 40 farmers were trained in the fourth batch
- 198 farmers in total (including all four batches) were trained through the “Smart Farmer: Young Sugarcane Entrepreneurs in Succession Initiative”

Employee Engagement

Thai Roong Ruang Sugar Group recognizes that employees play a crucial role in propelling our business towards fulfilling our mission and objectives, as well as achieving sustainable business growth. Accordingly, we invest in building a culture of continuous improvement and ensure opportunities for all employees to share suggestions and/or innovative ideas to enhance work processes. These insights from our workforce are key to developing fit-for-context solutions that address root issues effectively.

The Kaizen initiative thus is one of the initiatives that embodies our commitment to being a learning organization that is continuously developing to achieve organizational objectives and promote sustainable development.

Achievements

- 1,099 employees were trained
- 122 ideas were proposed by employees
- 30 projects were initiated as a result of those ideas





Awards and Recognitions

- Outstanding Sugar Mill Award 2023 : Thai Roong Ruang Corporation Factory
- Outstanding Sugar Mill Award 2023 : Phitsanulok Sugar Factory
- Labor Relations and Worker Welfare Category 2023 : Phitsanulok Sugar Factory
- Environmental Governance in Operations Award 2023 : Thai Roong Ruang Electricity Generating Co., Ltd.

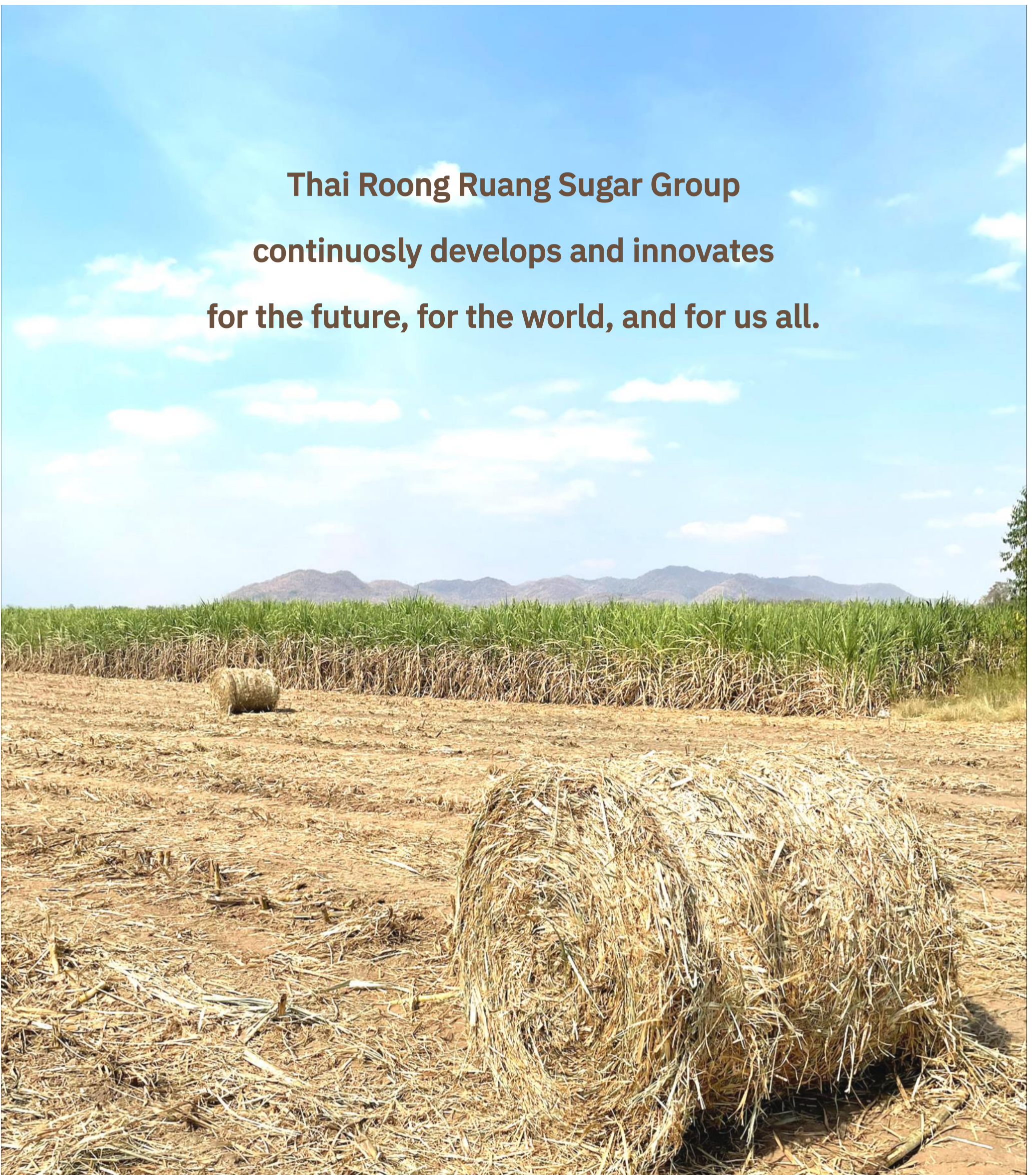
Quality standards



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**Thai Roong Ruang Sugar Group
continuously develops and innovates
for the future, for the world, and for us all.**



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