

TEGH Business Model (2021-2026)

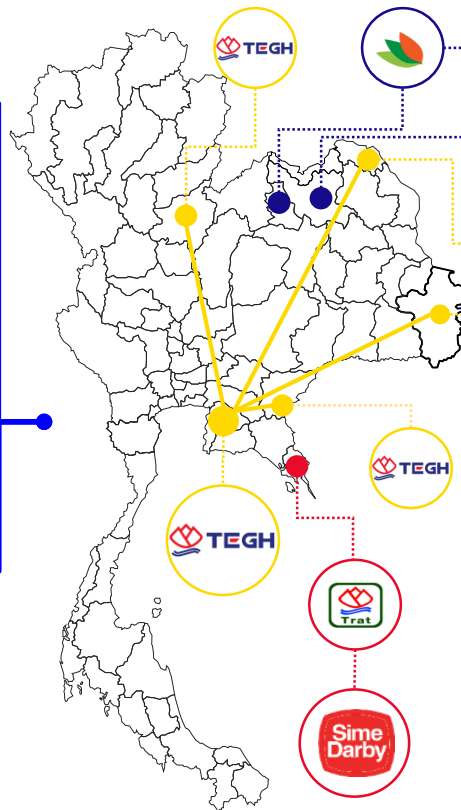


**Sustainable
Raw Material**



RSPO

Traceability



Rubber Plantation
(JV Project)

6,289 Rais



Biogas Utilization

**20,085,000
Nm³**



Substitution Rate

> 98%



Consumption Rate

> 70%

343,000 Tones
NR Sales in 2026

4,239,000 MT
7.38% Share of
Thailand's NR Production

687,000 MT
25.05% Share of
Thailand's NR Consumption

12,811,000 MT
2.45% Share of
Global NR Consumption

12,597,000 MT
2.49% Share of
Global NR Production

TEGH CORE BUSINESS



Rubber Unit



Palm Oil Unit



Renewable Energy and Organic Waste Management Unit

Business Summary

TEGH is a holding company that invests in 3 core businesses as follows



1 Manufactures and Distributes Natural Rubber

The rubber business is considered the flagship of the company, producing concentrated latex, block rubber and premium block rubber. It is a product manufactured with standardized procedures using rubber cups and field latex as raw materials with certified standard quality in accordance with academic principles.



2 Manufactures and Distributes Crude Palm Oil

Our crude palm oil was produced by extraction oil from quality palm fresh fruit bunch, the palm fruits were sterilized and threshed to separate fruits bunch for further extraction of crude oil, crude palm oil was the red-brown color liquid, it can be used as raw materials for many downstream industries



3 Renewable Energy Business and Organic Waste Management

In the business of waste water management, providing treatment services of organic waste water which can be degraded by bacteria, equipped with an efficient biogas production system enabling the substitution of LPG in block rubber baking process could account for 85% and feeding to the generator to produce more than 4MW of electricity.

Manufactures and Distributes Natural Rubber

1 Block Rubber

Industrial Grade and Premium Grade

STR 10



STR 20



CV Rubber



Compound Rubber



2 Concentrated Latex

Industrial Grade

- High Ammonia (HA)
- Medium Ammonia (MA)
- Low ammonia (LA)



Premium Grade

- Ultra Low Ammonia Latex
- Sustainable Product
- Organic Latex



Our Customers



Raw Material Procurement

□ Cup Lump



- At factories & branches
- Raw material sourcing partners
- Rubber plantation cooperative

□ Field Latex



- At factories & branches
- Raw material sourcing partners

Natural Rubber (Block Rubber and Concentrated Latex)

1 Manufactures and Distributes Natural Rubber

□ Block Rubber Factory




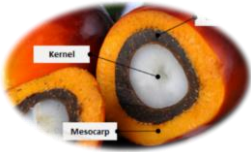














Production Capacity	241,294.2 Tones per year
Production Plan	201,296.8 Tones per year for 2019-2021 236,976.4 Tones per year for 2022
Main Raw Material	Cup Lump

□ Concentrated latex Factory




Production Capacity	26,490.2 Tones per year
Production Plan	22,934.0 Tones per year for 2019-2022
Main Raw Material	Field Latex

Manufactures and Distributes Crude Palm Oil

<p>1 Crude Palm Oil</p> 	<p>2 Palm Kernel</p> 				
<p>3 Crude Palm Kernel Oil</p> 	<p>4 Kernel Cake</p> 				
<p>5 By Product</p> <table border="0"> <tr> <td data-bbox="324 740 490 871"> <p>Decanter Cake</p>  </td> <td data-bbox="556 740 722 871"> <p>Shell</p>  </td> </tr> <tr> <td data-bbox="324 874 490 1006"> <p>Empty Fruit Bunch: EFB</p>  </td> <td data-bbox="556 874 722 1006"> <p>Palm Fiber</p>  </td> </tr> </table>		<p>Decanter Cake</p> 	<p>Shell</p> 	<p>Empty Fruit Bunch: EFB</p> 	<p>Palm Fiber</p> 
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<p>Empty Fruit Bunch: EFB</p> 	<p>Palm Fiber</p> 				

Our Customers

- Palm oil and palm kernel oil refineries
- Biodiesel plants
- Animal feeds plants
- Traders
- Others (using products for various purposes)



Raw Material Procurement

Oil Palm Fresh Fruit Bunches



- At factories
- Company's branches
- Raw material sourcing partners
(Collection points & districts)

Crude Palm Oil: Operating Performance

2 Manufactures and Distributes Palm Oil

❑ Palm Oil Mill Factory (CPO)



Production Capacity	473,040.0 Tones per year
Production Plan	408,240.0 Tones per year for 2019-2021 446,400.0 Tones per year for 2022
Main Raw Material	Oil Palm Fresh Fruit Bunches

❑ Palm Kernel Oil Mill Factory (CPKO)



Production Capacity	118,260.0 Tones per year
Production Plan	68,493.6 Tones per year for 2019-2021 97,848.0 Tones per year for 2022
Main Raw Material	Palm Kernel

Note : CPO production = EPO + TET as a proportion rate
CPKO production = TETSO as a proportion rate
Source : Company data as of 31 March 2022

Renewable Energy Business and Organic Waste Management : Products Portfolio

Renewable Energy Business and Organic Waste Management

1 Organic Waste Management

- Solid Organic Waste
- Liquid Organic Waste



2 Production and Distribution of Biogas



3 Production and Distribution of Electricity from Biogas



Our Customer

- Industrial factories such as Food & Beverage Industry, Argo-Processing Industry, Pulp and Paper Industry, etc.
- Waste management companies
- Companies in Thai Eastern Industrial Land
- Provincial Electricity Authority

Raw material

☐ SOW



☐ LOW



Renewable Energy Business and Organic Waste Management : Operating Performance

3 Renewable Energy Business and Organic Waste Management

□ Biogas Factory



Production Capacity	23.0 Million Nm ³ per year
Main Raw Material	Organic Waste

□ Power Plant



Production Capacity	43.8 Gigawatt hours per year
Main Raw Material	Biogas

TEGH PRODUCTS

Block Rubber



Concentrated Latex



Rubber Thread
 Mattress / Pillow
 Glove
 Condom
 Asphalt
 Glue



Crude Palm Oil



Edible Oil
 Biodiesel plant
 Animal Feeds



Renewable Energy



Organic Waste Management
 Biogas
 Renewable Electricity



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Supply Chain to Premium Customer

Corporate Competitive Strength

Corporate Management

- Prime Minister Awards
- SMEs National Awards
- Thailand Best Exporter



Energy Management

- Thailand Energy Awards
- Asean Energy Awards



Good Governance

- Business Good Governance
- Outstanding Ethics
- Outstanding Corporate Governance
- Business Ethics for Sustainable Development



Labour & Welfare

- Happy Organization
- Outstanding Occupational Health
- Excellent Establishment on Labour Relations and Welfare for 5 Consecutive years



Environment & CSR

- Environmental Governance Award
- CSR-DIW, CSR-DIW Continuous
- Carbon Footprint, Carbon Reduction
- Low Carbon EEC
- Green Industry LV.4
- Internal Carbon Pricing (ICP)



Customer

- Bridgestone Best Supplier
- Pirelli Supplier Award 2 year continue
- Sumitomo Rubber Industries Top Quality / Top VDA / Top SES Inspection
- Silver Awards Ecovadis's Score
- Apollo Sustainability Awards



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Corporate Achievement

Corporate Competitive Strength

Management Certificate



TUV NORD (Thailand) Ltd.

ISO 50001:2011



ISO 9001:2015



IATF 16949:2016



ISO 14001:2015



TUV Rheinland Thailand Ltd.

ISO 45001:2018



ISO/IEC 17025
Accredited Laboratory

ISO 17025:2017

Product Certificate



GMP&HACCP



GOLs Latex



NR Preblend



Forest Stewardship Council



RSPO



Carbon Footprint

Sustain Certificate



Green Industry LV.4



Carbon Reduction



GPSNR member



RE 100 Thailand Club
member



Silver Award



Internal Carbon
Pricing (ICP)

Corporate Standardization



R&D Center

Corporate Competitive Strength

S2 | 

- เป็นหนึ่งในผู้ผลิตและจำหน่ายยางธรรมชาติรายใหญ่ในภาคตะวันออก ด้วยกำลังการผลิต 267,784 ตันต่อปี
- มีกระบวนการผลิตแบบตามคำสั่งผลิต (Made to Order) ที่สามารถควบคุมคุณภาพให้สม่ำเสมอ และปรับแต่งคุณภาพตามความต้องการของลูกค้า (Customization) และสามารถสอบย้อนกลับถึงแหล่งที่มาของวัตถุดิบได้ (Traceability)
- มีศักยภาพในการสรรหาวัตถุดิบจากทั่วทุกภูมิภาคของประเทศ
- มีมาตรฐานการรับซื้อวัตถุดิบที่โปร่งใสและเกษตรกรสามารถตรวจสอบได้



**“To be a leading Global Strategic Partner
that creates Sustainable Value Chain”**



Sustainable Material

Is the organization that emphasize on the utilization of resources within the group of companies to develop and create a bio and agricultural industry, and generate highest economic benefit.

Corporate Innovation

Is the organization to promote good corporate governance, code of conduct, transparency and responsibility to all stake holders.

Continuous Growth

Is the organization supporting innovation in production process (Product Innovation) and operating process (Process Innovation).



Bio Circular Green Economy

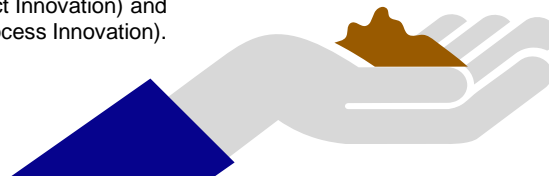
Is the organization that manufacturing the world quality products with selection of raw material produced with sustainable process, traceability and environmental friendly together with its surrounding community.

Operational Excellent

Is the organization to promote the application of new technology in improving the efficiency of operation, reducing error and delay in process.

Smart People

Is the organization of creating corporate culture that supportive to learning, corroboration and happy working life, continuous human resource development, uphold valuable staff in organization and being good citizenship of the society.



BOD 028 : Sustainability Policy and Policy Implementation

เพื่อตอบสนองนโยบาย sustainable material ของลูกค้าและพัฒนาเกษตรกรให้เกิดเป็น sustainable supply chain

ENVIRONMENT 01

Zero Deforestation. Preserve HCV (High Conservation Value) and HCS (High Carbon Stock)
Minimize environmental impact.



HEALTH AND SAFETY 06

Promoting Health and Safety measures.
Improve living conditions. Access to doctor.



HUMAN RIGHT 02

Respect Human Right.
Improve working condition.
Employment of Plantation Worker standard.



SUSTAINABLE SUPPLY CHAIN 05

Supporting Supply Chain of Natural Rubber. Improving Yield.



COMPLIANCE 03

Ensuring Thorough Compliance.
Promote CSR.

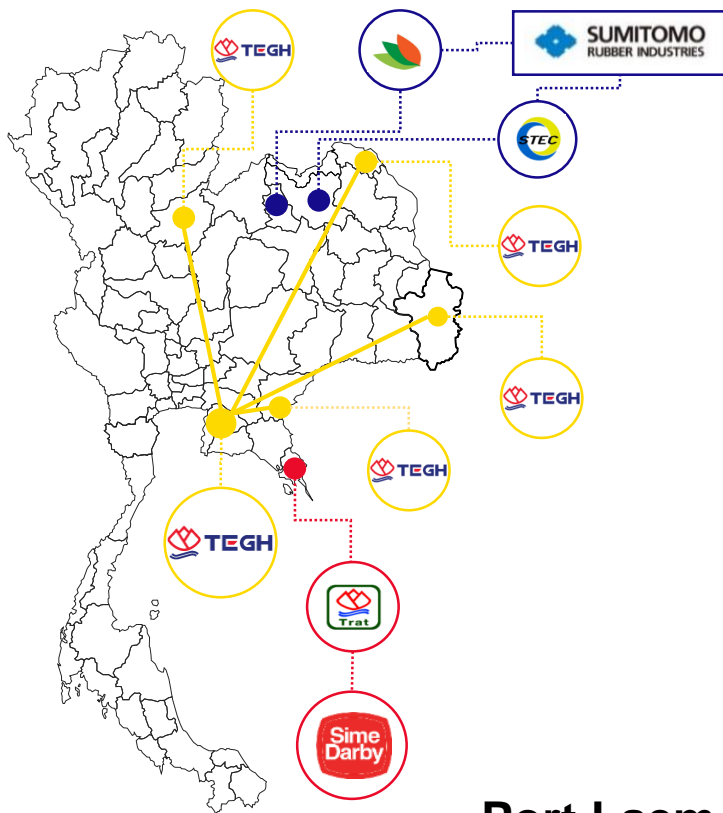


TRANSPARANCY 04

Business Integrity. No Improper Advantage.
Disclosure of information. Fair Business.



Strategic Location : EEC



ลูกค้า	ระยะทาง
Sumitomo Rubber Thailand	48 KM
Bridgestone Specialty Tire	51 KM
Continental Tyres (Thailand)	48 KM
Yokohama Tire Manufacturing	45 KM
Sentury Tire (Thailand)	53 KM
Prinx Chengshan	23 KM
Michelin Siam (Leam Chabang)	63 KM
Siam Michelin (Rayong)	62 KM

Port Laem Chabang 50 KM

Corporate Competitive Strength

S2 | 

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Corporate Competitive Strength

S3 | 

- ความสัมพันธ์ที่แข็งแกร่งกับพันธมิตรที่เป็นบริษัทชั้นนำของโลก ได้แก่ บริษัท ซุมิโตโม รับเบอร์ อินดัสตรีส์ จำกัด ประเทศญี่ปุ่น และ Sime Darby Oils Singapore Limited
- บริษัท ซุมิโตโม รับเบอร์ อินดัสตรีส์ จำกัด ประเทศญี่ปุ่น เป็นผู้ผลิตยางล้อรถยนต์ชั้นนำ
- Sime Darby Oils Singapore Limited เป็นผู้ผลิตน้ำมันและผลิตภัณฑ์ประกอบอาหารจากปาล์ม ถั่วเหลือง และอื่นๆ ชั้นนำของโลก
- การมีพันธมิตรเป็นกลุ่มบริษัทระดับโลกเปิดโอกาสสำหรับการเติบโตไปพร้อมกับคู่ค้าในโอกาสทางธุรกิจใหม่ๆ ในอนาคต



ร่วมทุนตั้งโรงงานผลิตยางแท่งเกรดพิเศษ

จ.อุครธานี



ร่วมทุนตั้งสวนยางพาราขนาด 6,300 ไร่

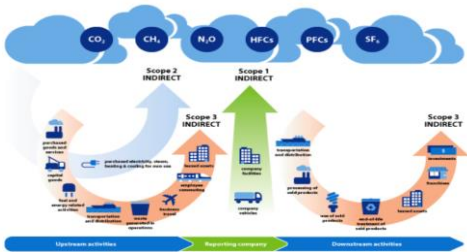
จ.หนองบัวลำภู



ร่วมทุนตั้งโรงงานสกัดน้ำมันปาล์มดิบ

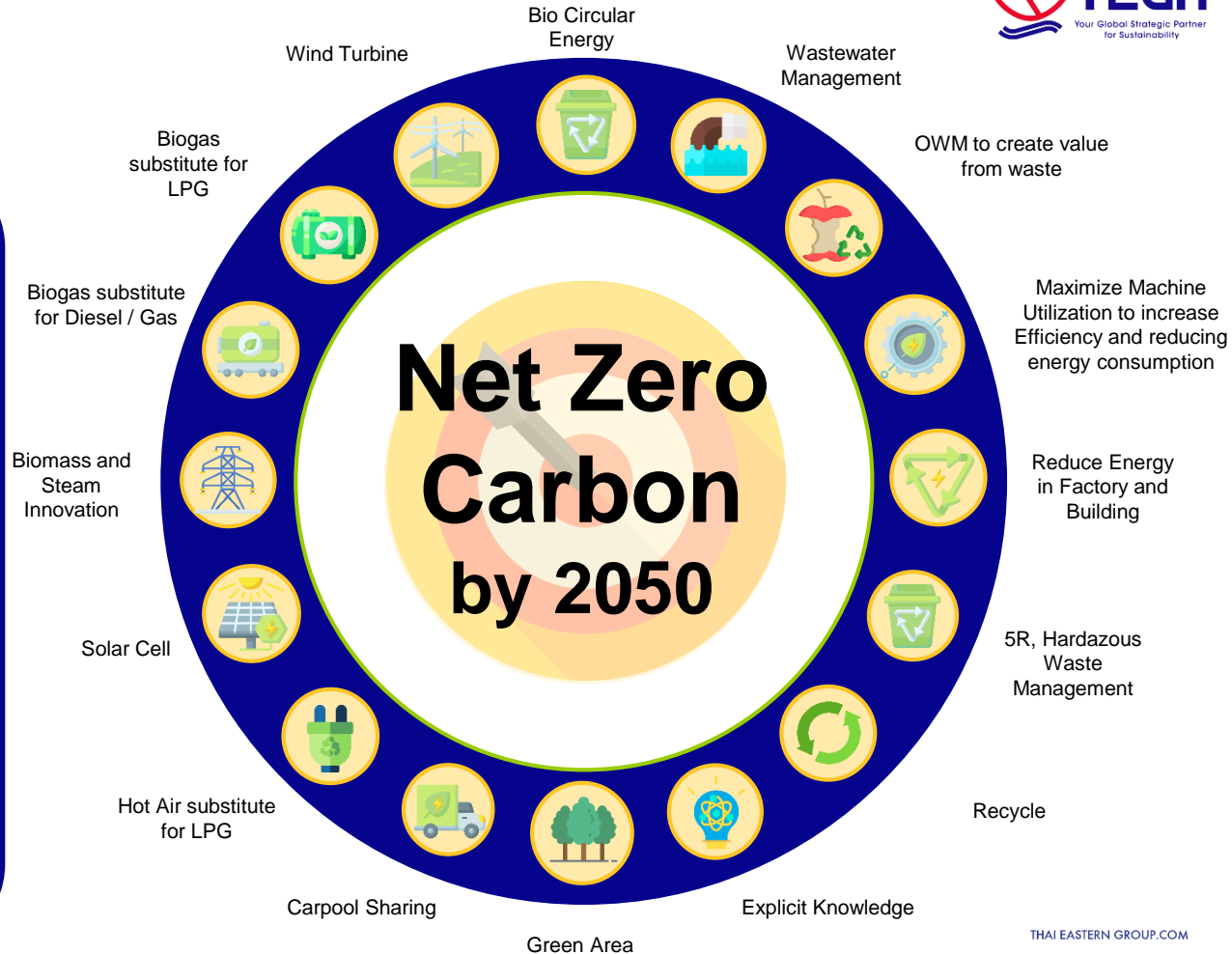
จ.ตราด

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CARBON FOOTPRINT ORGANIZATIONAL (CFO)

1. Promote and support to use recycle or clean energy
2. Support green area to work
3. Encourage worker to be awareness for global warming and the impact of reducing Green house gas emission
4. Promote and support activities to increase efficiency and utilization of natural resources



**Net Zero
Carbon
by 2050**

Water Management

Water Recycle in Process

89.4%

Reduce Raw Water(Fresh Water)

1,087,771 m³



Recycled Water Rate

74.7%

Reused Water Rate

25.3%

Air Pollution Management

Nitrogen Oxide (NOx)
(Benchmark 200 ppm)

5.6 ppm

Sulphur Dioxide (SOx)
(Benchmark 60 ppm)

<1.3 ppm

TEGH Best Practice



CO2 Emission Reduction

93,613
ton CO₂e



Organic Waste
Circulation Rate

100%



Soil Conditioner

338 ton



OrganicWaste Management

196,198
ton



Reduce the problem of landfill organic waste (SOW)

113,500
ton



Reduce of Using Raw water(Fresh Water)

1,087,771
m³

Economic Value

Biogas

Production
16.83M Nm³

Sale
375,700 Nm³

Electricity

From Biogas Production
19.55M kWh

Sale
22.37M THB

Cost Saving

LPG Reduction
2,921,759 Kg

PEA Consumption Reduction
16.9 M kWh

Eco
Block Rubber

LPG Substitution Rate (Avg 2562-2564)

91.73%

Renewable Electricity Rate

51.3%



192 g CO₂e/kg

Investment Highlights

1

Enhancing multiple growth leverage through production capacity expansion

2

Solid relationship with the world's leading tire brands

3

Product variety and business diversification reducing seasonal risk

4

Best-in class in production and quality management excellent

5

Long term partnership with Sumitomo and Sime Darby

6

Extensive growth and profitability from positive rubber and palm industry outlook

7

Over 30-year history with proven management team

Investment Highlights

1. Leading producer and distributor of natural rubber and crude palm oil in the Eastern of Thailand with potential growth
2. Efficient industrial complex and focus on zero waste management towards a sustainable development goals.
3. Highly experience management team
 - Successful track record in the industry with awards
 - Reliable company for over 30 years
 - Long-term relationships with world's leading tire producers and local suppliers
4. Focus on sustainable material and bio-circular-green economy to achieve growing trend in near future
5. IPO funding to increase production capacity.