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Introduction

Sustainable Supply Chain Management



Since 2020, **Thai Oil Public Company Limited ("Company")** has been the first refinery in Thailand that have successfully implemented ISO 20400: Sustainable Procurement to ensure that sustainability (ESG) management is fully embedded into our procurement processes with a systematic approach and aligns with the Company's Sustainability Management with cover all products and service categories for non-crude procurement processes. Therefore, the Company has the systems and procedures in place to ensure effective internal implementation of the supplier ESG program and to identify and address any potential ESG risks and impacts resulting from supply activities.

Moreover, the Company has verified the whole work process from MASCI who is a certified body authorized to award a formal accreditation to ISO20400. This is to make sure that the due diligence approach is deployed also within the organization, to guarantee harmonization between ESG strategy for the supply chain and the company's purchasing practices.

Clear and structured governance, together with internal communication and training, are well-implemented to ensure the correct plan, implementation, and continuous improvement through Plan-Do-Check-Act (PDCA) methodology.

The Company not only has the systems and procedures in place to track the impact of ESG along our supply chains, but the Company also ensures that these practices are regularly reviewed every year to ensure that the business needs and expectations are aligned with the Company's ESG requirements.

"Suppliers" include but are not limited to agents, brokers, consultants, contractors, distributors, and suppliers of products or services for the Company must be covered in the Sustainable Supply Chain Management Process.

In 2023, the Company an official re-assessment of ISO 20400: Sustainable Procurement from MASCI to ensure that our strategic direction is aligned with the corporate ESG requirements and according to international standard practices. Moreover, the Company seek more opportunities for improvement continuously.

2020 A formal accreditation of ISO 20400



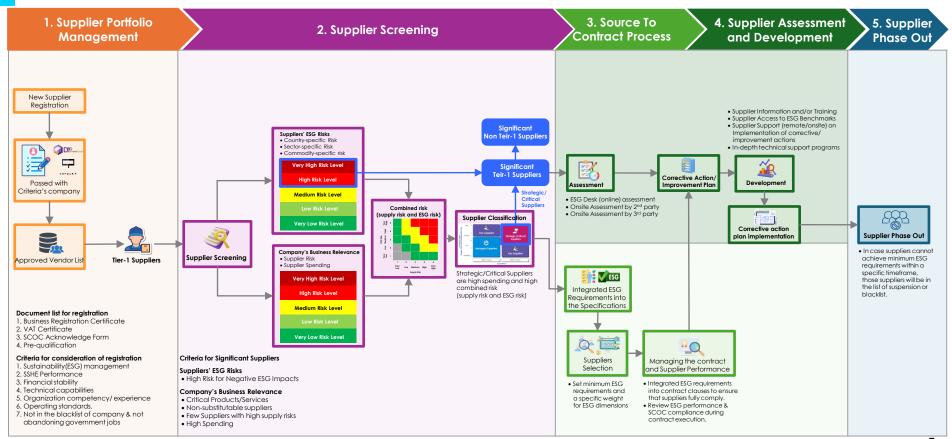
Our Executive Vice President-Organization Effectiveness and Vice President-Procurement and Contract were the representatives of Thaioil Group to receive a formal accreditation of ISO20400: Sustainable Procurement from MASCI.

2023 A formal accreditation of ISO 20400



Sustainable Supply Chain Management





SCOC



Sustainable Code of Conduct for Suppliers of Thaioil Group: SCOC



According to the Company's Sustainability Management Policy and Procurement Policy, the Company fully integrated sustainability into the supply chain through the adherence of all Suppliers to the Sustainable Code of Conduct for Suppliers of Thaioil Group ("SCOC").

SCOC has complied with international practices and is mandatory for Suppliers. Suppliers shall conduct business in all their activities to operate in full compliance with all applicable laws, regulations, and business ethics and respect human rights according to the International Bill on Human Rights and the principles concerning fundamental rights set out in the Declaration of Fundamental Principles and Right at Work of the International Labour Organization. In addition, the Company always encourages Suppliers to establish their supplier code of conduct for their suppliers to enhance the operation of their supply chain management and sustainable procurement.

Since 2015, all newly registered suppliers must acknowledge to comply with SCOC, and we have continued monitoring and driving suppliers to improve their performance in this area.

The purchasing practices towards suppliers are annually reviewed to ensure alignment with SCOC and to avoid potential conflicts with ESG requirements.

In 2023, we have revised SCOC to keep aligning with ESG trends, with international standards, and with the changing global landscape. To ensure that all suppliers understand the SCOC, the Company has communicated the SCOC through the Company's website and the supplier seminar.

Finally, to ensure the Company's Suppliers fully understand and commit to SCOC, the Company has asked all Suppliers to acknowledge SCOC. Moreover, the Company has communicated SCOC through the website and emphasized SCOC in annual supplier seminars with Suppliers.

Sustainable Code of Conduct for Suppliers of Thaioil Group: SCOC





Environment

- Environmental Management
- Sustainable Resource Efficiency
- Biodiversity, Deforestation or Land Conservation
- Pollution Prevention and Waste Management
- Greenhouse Gas Reduction and Climate Change Mitigation



Social

- Human Rights
 - ✓ Non-Discrimination
 - ✓ Anti-Harassment
 - ✓ Child Labor
 - ✓ Forced Labor
 - ✓ Freedom of Association
 - ✓ Working Conditions
 - ✓ Wages and Benefits
 - Employment Creation and Skill Development
- Occupational Health and Safety
 - ✓ Safety and Working Environment
 - ✓ Emergency Prevention, Preparedness, and Response
- Community Involvement and Development



Governance

- Regulatory Compliance
- **Anti-Corruption & Bribery**
- Anti-Competitiveness
- Gifts
- Conflicts of Interest
- Confidentiality of Information
- Disclosure
- Respect for Intellectual Property Rights
- Customer Issues
 - ✓ Customer Data Protection and Privacy
 - ✓ Protecting Customers' Health and Safety
 - Éducation and Awareness
 - Customer Service, Support and Complaint and Dispute Resolution

Sustainable Code of Conduct for Suppliers of Thaioil Group: SCOC



SCOC covers all 7 Social Responsibility Core Subjects identified in ISO 26000:2010, Guidance on social responsibility which consists of Organizational Governance, Human Rights, Labor Practices, Environment, Fair Operating Practices, Consumer Issues, and Community Involvement & Development.



Social Responsibility Core Subjects	Environment	Social	Governance
Organizational Governance			Regulatory Compliance Confidentiality of Information Disclosure
Human Rights		Human Resources	
Labor Practices		Human Rights Child Labor Forced Labor Human Trafficking Diversity Discrimination	
The Environment	Environmental Management Sustainable Resource Efficiency Biodiversity, Deforestation or Land Conservation Pollution Prevention and Waste Management Greenhouse Gas Reduction and Climate Change Mitigation		
Fair Operating Practices			Anti-Corruption & Bribery Anti-Competitiveness Conflicts of Interest Gifts Respect for Intellectual Property Rights
Consumer Issues		Customer Data Protection and Privacy Protecting Customers' Health and Safety Education and Awareness Customer Service, Support and Complaint and Dispute Resolution	
Community Involvement and Development		Employment creation and skills development Technology development and access Wealth and income creation Health Social Investment	



Supplier ESG Program: Oversight of Implementation



The strategic oversight of ESG implementation is instructed through the Company's Sustainability Management Policy which is endorsed by the Chairman of the **Board of Directors ("BoD")** and CEO. This policy is deployed to BOD, the Managements, and all the Company's employees, and communicated and deployed to all stakeholders to ensure that ESG strategies and programs are successfully implemented and drive the whole business to reach sustainability goals.

According to the Sustainability Management Policy, the Board of Directors instructed that Managements and all the Company's employees shall deploy ESG to their stakeholders. Therefore, ESG strategic oversight of implementation from the Board of Directors is cascaded to the Sustainable Procurement Policy endorsed by the CEO, Procurement and Contract Strategic Direction, a Five-Year Roadmap that consists of supply chain ESG strategy and supplier ESG programs respectively.

Finally, oversight of the implementation of the supplier ESG program is well-defined and aligned with the corporate vision and Sustainability Management Policy endorsed by the Chairman of the Board of Directors and CEO to ensure successful strategies and programs, guarantee maximal priority and focus, and drive the procurement organization to reach its sustainability goals.

Supplier ESG Program: Oversight of Implementation

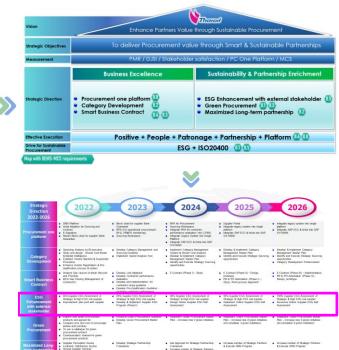


Thaioil Group Sustainability Management Policy



Procurement Policy





TOP Sustainability Management Policy

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The Company has implemented a supplier-focused ESG program which is the collection of activities and measures that enables businesses to recognize and assess potential ESG risks, and consequently, plan remedial measures to assure solid sustainability performance along the supply chain. A Supplier ESG program is integrated into the Company's Sustainable Supply Chain Management Process.

1. Supplier Portfolio Management

2. Supplier Screening

3. Source To Contract **Process**

4. Supplier Assessment and Development

2nd party supplier onsite assessments

3rd party supplier onsite assessments

Supplier access to ESG benchmarks

Supplier support (remote/onsite) on

implementation of corrective/

✓ In-depth technical support programs to build capacity and ESG

5. Supplier Phase Out

 Supplier Registration: The supplier shall acknowledge SCOC and signed by an authorized

person.

- Supplier Qualification: ESG is the criteria/ dimension for evaluation to be AVI.
- Identification of the significant suppliers (Strategic/Critical & High ESG risk)
- ✓ Business Relevance Analysis e.g., Spending, Business Impact (Criticality), and Supply Risks.
- ESG Risks e.g., Country-Specific Risk, Sector-Specific Risk, Commodity-specific risk

- Integrated ESG Requirements into the Specifications.
- Suppliers Selection: Set minimum ESG requirements and a specific weight for ESG dimensions.
- Managing the contract and Supplier Performance:
- ✓ Integrated ESG requirements into contract clauses to ensure that suppliers fully comply.
- ✓ Review ESG performance & SCOC compliance during contract execution.

through Thai Oil Website.

Supplier Assessment

Supplier Development

improvement actions

performance in suppliers

Supplier desk assessments

Supplier information/training

Annual Assessment and disclose

In case suppliers cannot achieve minimum ESG requirements within a specific timeframe, those suppliers will be in the list of suspension or blacklist.

Annual Review for SCOC and disclose through Thai Oil Website.

Annual Assessment for Identification of the significant suppliers (Strategic/Critical & High ESG risk) and disclose through Thai Oil Website.

Evaluate Supplier ESG performance & SCOC compliance during supplier selection, contract execution and after work completion.

Review Supplier ESG performance & SCOC compliance during contract execution and after work completion.

Supply Chain Risk Management

Annual Review of purchasing practices to avoid potential conflicts with ESG requirements (using P-D-C-A methodology)

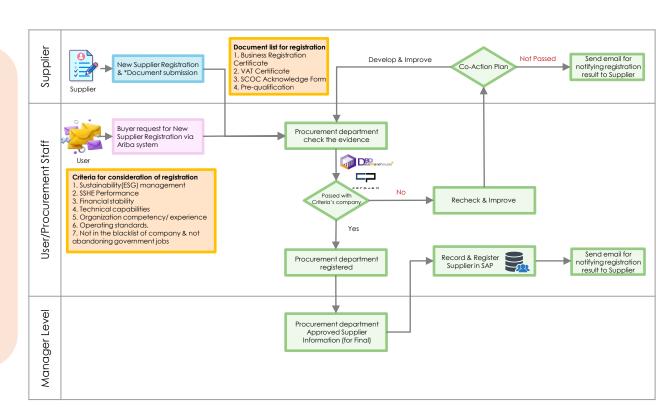


1.1. Supplier Registration

During supplier registration process, Suppliers must acknowledge Sustainable Code of Conduct for Suppliers of Thaioil Group: SCOC to ensure that suppliers fully understand and commit to comply with all of the Company's ESG requirements and policies.

1.2. Supplier Qualification

After completing the registration process, suppliers who are suitable to do business with, are requested to comprehensively qualify the required capabilities based on multi-dimension criteria such as sustainability(ESG) management, SSHE performance, financial stability, technical capabilities, organization competency/experience, and operating standards.





2. Supplier Screening

The Company has screened suppliers through the Ariba System which embeds the supplier selection criteria that include the assessment of the quality of products and services, and suppliers' financial status (business relevance) as well as the ESG aspects, including product delivery information, QSHE (Quality, Safety, Occupational Health and Environment) management, SCOC acknowledge, 3rd party verification.

The Company groups all Suppliers identified supplier screening by grouping the suppliers based on country, business sector, and commodity-specific – products, services, and activities. Then, screening suppliers to identify the potential ESG risk for each supplier group

Identification of the significant suppliers (Strategic & High Potential ESG risk)

The Company uses the Spending Analysis, Supply Risk & Sustainability(ESG) Risk assessment, and Supplier Classification to Identify the significant suppliers as follows;

2.1 Strategic Supplier from Supplier Classification

- High Spending Supplier
- High/Medium Risk (Supply Risk & ESG Risk Assessment)

2.2 High Potential ESG Risk Suppliers from ESG Risk Assessment

- Environment Risk
- Social Risk
- Governance/Business Relevance Risk



Please see more details in Supplier Screening Session on page 22-40.



3. Source To Contract Process

3.1 Integrating ESG Requirements into the Specifications:

- The Company integrates ESG requirements into specifications and ITB that address sustainability criteria.
- This is the most effective means of ensuring that ESG risks (including opportunities) are incorporated into the purchaser's Company decision-making.
- This should be done in coordination with key internal stakeholders, to reflect practical and technical considerations.

3.2 Suppliers Selection:

- The Company sets minimum ESG requirements and a specific weight for ESG dimensions that suppliers must comply with to access tenders or be selected for contract awarding.
- ESG performance is one of the standard evaluation criteria/dimensions for supplier selection which guarantees that sustainability is embedded into supplier selection and contract awarding.
- Suppliers with better ESG performance are recognized and preferred by applying a minimum weight to ESG criteria in supplier selection and contract awarding.
- A Supplier who does not meet ESG requirements is requested to clarify and provide a committed improvement plan within a specific timeframe.
- If a supplier with lesser ESG performance is selected, agreements should be made on how the supplier could progress to increased ESG performance in the future. This should be monitored in the contract phase.

3.3 Managing the Contract and Supplier Performance:

- The Company integrates Thaioil Group's ESG requirements (e.g., Compliance to SCOC) into contract clauses to ensure that Suppliers fully comply.
- The Company carries out periodic audits of Suppliers throughout the life of the contract, especially for significant suppliers, to verify that sustainability claims and work practices meet our ESG requirements stated in the Contract.
- The Company continuously reviews ESG performance. If suppliers cannot achieve minimum ESG requirements, we offer capacity-building support to the Suppliers to help them address the problems.
- After the Company has made the effort to support the supplier to meet agreed ESG requirements, but where the supplier has made little or no effort to improve or the supplier has proved to be incapable of improvement. Those suppliers are excluded from contracting, suspended, or terminated if they cannot achieve minimum ESG requirements within a set timeframe.



4. Supplier Assessment

To assess and improve individual suppliers' performance, this process includes increased performance visibility and aligning customer and supplier business practices, and risk mitigation.

4.1. Supplier Desk ESG Assessments with systematic verification of evidence by using third party's comprehensive assessment by considering supplier's audit reports such as ISO 14001, ISO 50001, ISO 45001, OHSAS 18001, ISO 9001, ISO/IEC 17025, ISO 27001, the Green Industry Award by Department of Industrial Works, the CAC project and the CSR-DIW project.

4.2. Supplier Onsite ESG Assessments

4.2.1 The 2nd party Supplier Onsite ESG assessment by the Company's employees such as Safety Audit at the Company site, SSHE (Security, Safety, Occupational Health, and Environment) Assessments at Supplier Sites. and Waste Audits at supplier sites.

4.2.2 The 3^{rd} party Supplier Onsite ESG assessment by MASCI such as Supplier Onsite ESG assessment.

Sustainability potential assessment form

5 Dimension with 43 Questions

A. Policy (9 questions)

Communication of operational policies to the company's supply chain

B. Business Integrity(8 questions)

- Business Ethics and Transparency
- Quality Standards
- · Risk Management

C. Social (9 questions)

- Human Rights
- Labour Relations
- Social Responsibility

D. Occupational Health and Safety (13 questions)

- Occupational Health and Safety
- Security and Emergency Preparedness

E. Environment (4 questions)

Please see more details in Supplier Screening Session on page 42-46.



5. Supplier Development

- Supplier information/training: Providing the supplier with information and/or training on the purchasing Company's supplier ESG program and best practices, to information on the Company's assessment and development process.
- **Supplier ESG benchmarking:** Provide information on suppliers' sustainability performances in each dimension and case studies on how other suppliers achieved that level of performance.
- Supplier support on corrective/improvement actions: The company provides guidance and full support on the implementation of corrective and improvement actions. This can happen remotely or through supplier on-site visits.
- In-depth technical support programs to build capacity and ESG performance in suppliers:
 Comprehensive capacity-building programs to systematically improve supplier practices and performance on specific ESG topics through training, baseline assessments, collaborative system development, and progress measurement. These technical support programs are long-term and sustained over time to improve ESG performance.



Please see more details in Supplier Screening Session on page 47-57.



Annual Review of purchasing practices towards suppliers to ensure alignment with SCOC and to avoid potential conflicts with ESG requirements:

To ensure that we successfully implement ESG across the supply chain with a systematic management approach in accordance with international standard practice, since 2020, the Company has applied ISO 20400 (Sustainable Procurement) to the whole non-crude procurement process and covered all product and service categories.

The Company has integrated supplier ESG program into sustainable supply chain management process(e.g., SCOC compliance in contract clauses, SCOC compliance in performance evaluation criteria, supplier recognition for a supplier who has better ESG performance and applies a minimum weight to ESG criteria in supplier selection and contract awarding for the future sourcing, suspension/blacklist for a supplier who does not comply Thaioil Group's ESG requirements and ignore to remedy, etc.) alongside supply chain risk management.

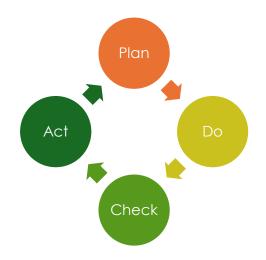
So, the Company's practices not only include the choice of the product and service to be bought or the supplier from which to purchase the needed items, but we also include specific indications on at least costs, quality of the products, and delivery times. In addition, the Company's ESG requirements are integrated into the contract and purchase order and supplier performance evaluation criteria, such as the Security, Safety, Health, and Environment (SSHE) management and ESG management as well as compliance with laws and regulations on the transportation of products and services, and the delivery of hazardous goods.

To ensure that purchasing practices towards suppliers including all processes and related documents are regularly reviewed, we have managed and controlled them according to ISO9001 by using P-D-C-A Methodology and Internal Audit. For example, the Company has annually reviewed the Supplier Portfolio, Supplier Screening, and Supplier Risk Assessment (e.g., Supply Risks, ESG Risks) to ensure that the data keep up to date and protect our supply chain from uncertainty and avoid any business disruption. Moreover, procurement and contract practices towards suppliers are regularly reviewed to ensure alignment with SCOC and to avoid potential conflicts with ESG requirements.

The Company has closely communicated and collaborated with all internal stakeholders to understand how to play their part in such implementation and are given the means to achieve sustainable procurement. Those individuals tasked with delivering sustainable procurement should be enabled to do so through a supportive organizational culture, performance management, education, training, and support. This is to ensure about deployment and conformance of procurement and contract practices towards suppliers as well.

Finally, our procurement processes will be reassessed by a third party, a certified body authorized to award a formal accreditation to ISO20400 every three years.

As mentioned above, all activities guarantee that we are continuously reviewing its purchasing practices to avoid potential conflicts with its ESG strategy.



To ensure that all processes and documents related to purchasing practices towards suppliers are regularly reviewed every year, we have managed and controlled according to ISO9001 by usina P-D-C-A Methodology and Internal Audit.



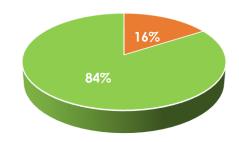
Training Program for Thai Oil's Buyers and/or Internal Stakeholders

Effective delivery of the sustainable procurement policy and strategy requires that individuals involved in procurement, including internal stakeholders and business partners (e.g., SSHE, contract holders, PTT Group, or others engaged with suppliers in any capacity), understand the reasons for implementing sustainable procurement.

Therefore, the Company has closely communicated with buyers and all internal stakeholders to understand how to play their role in such implementation and are given the means to do so. Those individuals tasked with delivering sustainable procurement should be enabled to do so through a supportive organizational culture, performance management, education, training, and support.

To enhance the skills and competencies of our buyers and internal stakeholders, the training program is conducted on an annual basis to keep updating the ESG policy, SCOC, and other relevant standards/procedures to ensure that buyers and internal stakeholders will understand their roles in ESG program and realize how their works or day-to-day actions and decisions are fundamental and important to achieve the Company's sustainability (ESG) objectives.

Training Provided for Responsible Supply Chain Management



In Y2023, 84% of Supply Chain Management Training Programs for the Company's Buyers and/or Internal Stakeholders are fully supported on the ESG Program.



Training Programs for the Company's Buyers and/or Internal Stakeholders include but are not limited to classroom training, e-learning, workshops, and knowledge sharing. The examples of training programs are shown as follows:

ISO 20400: Sustainable Procurement Training for Thai Oil's Buyers and Internal Stakeholders



The Company organized Sustainable Procurement Guidance (ISO 20400) Training for Buyers and Internal Stakeholders, covering topics such as integrating Sustainability into Procurement Policy, Strategies, and End-To-End Processes, organizing the Procurement Function including role & responsibility of day-to-day operation towards Sustainability, and developing a robust Supplier ESG Program.

Supplier ESG Assessment Training for Thai Oil's Buyers and Internal Stakeholders



Buyers and Internal Stakeholders were invited to participate in this training. The objective of this training is to deploy Supplier ESG onsite assessment questionnaires and criteria. The Company went through all ESG items and mapping with our SCOC, ESG policies and requirements and Sustainable Procurement Guidance (ISO 20400) to ensure that buyers and internal stakeholders fully understand their role during ESG onsite assessment.

PTT Group Procurement Knowledge Sharing for Sustainable Procurement "Net Zero" related in actions



The Company fully contributes to sharing knowledge about sustainable procurement with PTT Group companies and the Company's Buyers have participated to learn and capture knowledge from this knowledge-sharing session

Sustainability (ESG) Risk Workshop for Thai Oil's Buyers





Buyers participated this hands-on training to perform how to evaluate ESG Risk Assessment. This is to enhance the skills and competencies that their day-to-day actions and decisions are fundamental and important to minimize ESG risk in the supply chain.

SCOC Online Training for Thai Oil's Buyers and Internal Stakeholders



The Company has deployed SCOC (Sustainable Code of Conduct for Suppliers of Thaioil Group) to Thai Oil's Buyers and Internal Stakeholders. The objective of this training is to communicate how SCOC is important and buyers and internal stakeholders will fully support engaging suppliers. It is requested to do pre-test and post-test to ensure that all participants understand SCOC.

Thai Oil Knowledge Sharing for Overview CFO&CFP for Thai Oil's Employees

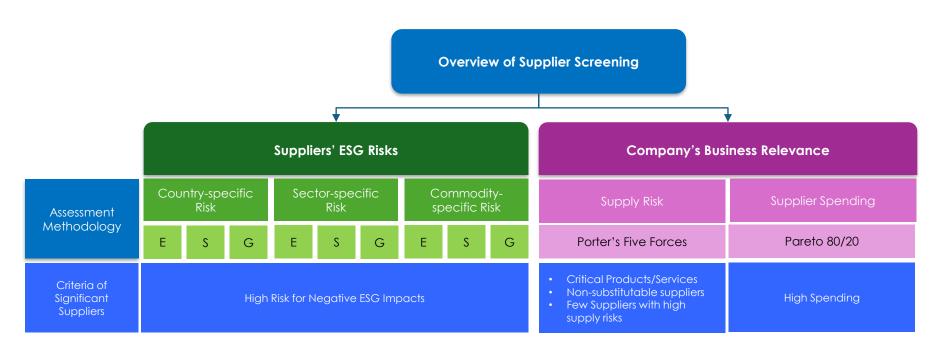


The Company's Sustainability Development Team conducted knowledge sharing about Carbon Footprint for Organization (CFO) and Carbon Footprint Product (CFP) to the Company's employees. The Company's Buyers also participated to learn and capture knowledge from this session which is to enhance their competency since the role of Buyers will support GHG Scope 3 to reach Net Zero which is one of the Company's vision measurements.





Supplier Screening is considered the initial step to identify potential sustainability risks in the supply chain and is systematic desk research of Suppliers' risk for negative ESG impacts and the Company's business relevance, considering available data sources such as country, sector, or commodity ESG risks, spending, business relevance, etc.





ESG Risk Assessment Methodology of Supplier Screening Process for Significant Suppliers



Country-specific Risk: The risk for negative environmental, social, and governance impacts related to a country's political, social, economic, environmental, or regulatory situation that occur in the country where the company's Suppliers are located.



Sector-specific risk: The risk for negative environmental, social, and governance impacts related to a sector's distinct characteristics regarding labor situation, energy consumption, resource intensity, emissions, or pollution potential.



Commodity-specific risk: The risk for negative environmental, social, and governance impacts related to a commodity's supply chain structure, and social responsibility core subjects* which consists of Organizational Governance, Human Rights, Labor Practices, Environment, Fair Operating Practices, Consumer Issues, and Community Involvement & Development.

NOTE: * Social responsibility core subjects refers to ISO 26000:2010 (Guidance on social responsibility) and ISO 20400:2017 (Sustainable Procurement-Guidance)



ESG Risk Aspects of Supplier Screening Process for Significant Suppliers



Environmental aspects: The risk for negative impacts related to environmental topics, including but not limited to GHG emission and energy consumption, toxic emission & waste, water consumption, biodiversity



Social aspects: The risk for negative impacts related to social topics, including but not limited to human rights, labor management, occupational Health and safety, community relations.



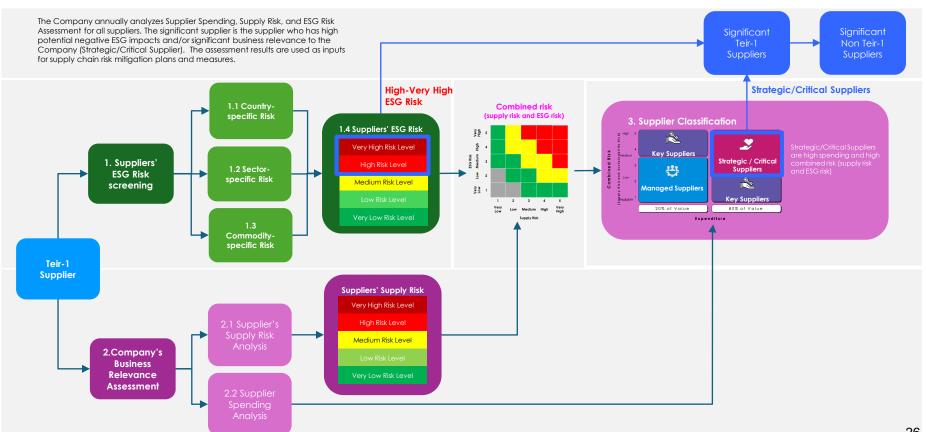
Governance aspects: The risk for negative impacts related to governance topics, including but not limited to corporate governance, corruption, money laundering, government effectiveness occupational fraud, information security/ cybersecurity.



Business relevance: Business relevance considerations, including but not limited to share of spend/volume and substitutability.



Overview of Supplier Screening Process to identify Significant Suppliers





1. ESG Risk Assessment Methodology of Supplier Screening Process for Significant Suppliers

1.1 Country-specific Risk Methodology

Step 1: Identify procurement location and ESG risk universe

The Company has identified 42 procurement locations and utilize the developed tool to explore ESG risk universe of all procurement locations. The tool enable us to visualize ESG risk data over the world geography based on the gagregated data of various ESG indices.

Example:

Visualization of ESG risk data from the tool



Step 2: Identify country-specific ESG risk issues

As explore ESG risk universe, the Company has identified 15 relevant ESG risk issues to evaluate all procurement location as follows:

- Environmental aspect
 Climate Change: GHG emission,
 Average temperature, Energy Security,
 Water Security, Biodiversity
- Social aspect
 Human rights, Child Labor, Human
 Trafficking, Labor Practice: LGBT
 employment discrimination, Labor
 flexibility, and Occupational Health &
 Safety: Fatal work-related accidents.
- Corporate Governance aspect
 Corporate Governance, Corruption,
 Money Laundering, Government
 Effectiveness.

Step 3: Assess & summarize country-specific risk

To assess and summarize the country specific risk of the procurement location, the Company calculate the total risk score by country obtained from the developed tool to determine the risk ranking based on the 5-scale risk assessment criteria, which ranged from very high to very low.

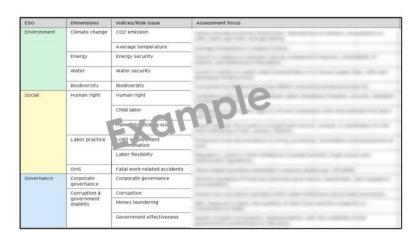






1.1 Country-specific Risk Methodology

Step 1 and 2: Identify procurement location and ESG risk universe & short-listed of the risk issues



Process to collect the list of procurement location and identify country specific ESG risk issue. This resulted in 15 ESG risk issues identified to assess ESG risk level of a countries, where the procurement activities take place.

Step 3: Assess & summarize country-specific risk





1. ESG Risk Assessment Methodology of Supplier Screening Process for Significant Suppliers

1.2 Sector-specific Risk Methodology

Step 1: Initial Sector Classification

The Company classifies our suppliers' subgroups based on the Global Industry Classification Standard (GICS®), which encompasses 11 sectors and 46 subindustries, according to business activities of each suppliers. This step ensures that Thaioil suppliers' sub-groups are accurately classified in accordance with internationally accepted standard.

Example:



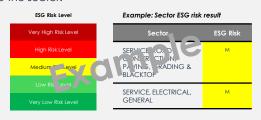
Step 2: Identify Sector-specific ESG Risk Issues

The Company has identified sector-specific ESG risks by utilizing the MSCI's ESG Materiality Map, the SASB Materiality Finder, and the 2024 CSA Weight by Industry. Each industry will be assigned a weight based on its significance within the sector to ensure the most validated results for the final risk assessment as follows:

- Environmental aspects
 Carbon Emissions & Ener
 - Carbon Emissions & Energy Consumption, Toxic Emissions & Waste, Water Stress, Biodiversity.
- Social aspects
 Occupational Health & Safety, Labor Management, Community relations.
- Governance/Business aspects
 Governance, Information Security/
 Cybersecurity.

Step 3: Assess Sector-specific ESG Risk

The level of ESG risk for each sector is determined based on the analysis of available statistical information regarding the 9 ESG risk issues, using a 5-ranking scale. The criteria are designed to encompass both quantitative and qualitative factors. ESG risk issues have been assessed at the sector level, and the results will be applied to the sub-industries listed under each specific sector. The final risk level is determined by the weight assigned, which varies according to its relevance to the sector.



1.2 Sector-specific Risk Methodology

Step 1: Sector classification



Mapping suppliers' business activities with GICS sector/sub-industry

Step 2: Identify Sector-specific ESG Risk Issues

Process to identifying ESG issues and weight





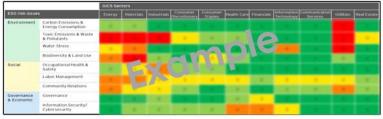


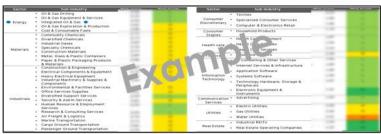
Step 3: Assess Sector-specific ESG Risk

Sector risk assessment criteria



Sector ESG risk assessment result







1. ESG Risk Assessment Methodology of Supplier Screening Process for Significant Suppliers

1.3 Commodity-specific Risk

Step 1: Initial Commodity Classification

The Company defines commodities according to Shell's Product and Service Group Code (PSGC) and will be utilized to identify commodity-specific ESG risk issues using the Company's Historical Database.

Step 2: Identify Commodityspecific ESG Risk Issues

Environmental aspects:

GHG emissions, energy consumption, water consumption, resource efficiency, pollution presentation, waste management, or biodiversity.

Social aspects:

Human Rights (child labor, forced labor, discrimination and harassment, freedom of associations, right to collective bargaining, Working conditions, occupational health and safety, or the rights of local communities.

Governance/Business aspects:

Corruption, bribery, conflicts of interest, or anticompetitive practices.

Step 3: Assess Commodityspecific ESG Risk

The Company determine ESG Risk Level by Commodity. The Level of ESG risk issue from each commodity are determined based on Risk Assessment Matrix (RAM) which consists of likelihood and impact factors. The final risk level will be determined by using the highest risk level result.





1. ESG Risk Assessment Methodology of Supplier Screening Process for Significant Suppliers

ESG Risk aspects cover all 7 Social Responsibility Core Subjects identified in ISO 26000:2010, Guidance on social responsibility which consists of Organizational Governance, Human Rights, Labor Practices, Environment, Fair Operating Practices, Consumer Issues, and Community Involvement & Development.



Social Responsibility Core Subjects	Environment Aspect	Social Aspect	Governance Aspect
Organizational Governance			Regulatory Compliance Confidentiality of Information Disclosure
Human Rights		Human Resources • Employee Health & Safety	
Labor Practices		Working conditions Human Rights Child Labor Forced Labor Human Trafficking Divestify Decirmination	
The Environment	Environmental Management Sustainable Resource Efficiency Biodiversity, Deforestation or Land Conservation Pollution Prevention and Waste Management Greenhouse Gas Reduction and Climate Change Mitigation		
Fair Operating Practices			Anfi-Corruption & Bribery Anti-Competitiveness Conflicts of Interest Gifts Respect for Intellectual Property Rights
Consumer Issues		Customer Data Protection and Privacy Protecting Customers' Health and Safety Education and Awareness Customer Service, Support and Complaint and Dispute Resolution	
Community Involvement and Development		Employment creation and skills development Technology development and access Wealth and income creation Health Social Investment	

Thaioil

1.3 Commodity-specific Risk

Step 1: Initial Commodity Classification

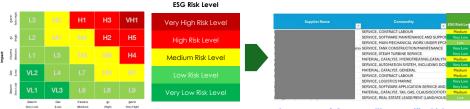


Step 3: Assess Commodity-specific ESG Risk



Step 2: Identify Commodity-specific ESG Risk Issues





Summary of Commodity-specific Risk

RAM: Impacts X Likelihood = ESG Risk Level



1. ESG Risk Assessment Methodology of Supplier Screening Process for Significant Suppliers

1.4 Summarizing the Suppliers' ESG Risk

1.4A. The Company uses the following formular to calculate the **suppliers' ESG risk score** (X) as to combine the score obtained from 1.1-1.3

 $X = \frac{(Country \ risk \ score + Sector \ risk \ score + Commodity \ risk \ score)}{3}$

1.4B. To summarize the **ESG risk level**, the Company benchmark 1.4A result with the 4-scale supplier ESG risk criteria.

Risk score	Risk Level
4.51-5.00	5 (Very High)
3.514.50	4 (High)
2.51-3.50	3 (Medium)
1.51-2.50	2 (Low)
1.00-1.50	1 (Very Low)

Example: Summarizing the supplier ESG risk score & level

	3 11		Result	from 1.1	Result f	rom 1.2	Result	from 1.3	Result from	n 1.4A&B
Country	Matl. Description (Defalt)	Sector	Country risk score	Country risk level	Sector risk score	Sector risk level	Commodity risk score	Commodity risk level	Combined ESG Risk Score	ESG risk Level
TH	I SERVICE, AUTOMATION SYSTEM, INCLUDING D	20103010: Construction & Engineering	100						100	_
TH	SERVICE, AUTOMATION SYSTEM, INCLUDING D									
TH	SERVICE, AUTOMATION SYSTEM, INCLUDING D									
TH	SERVICE, AUTOMATION SYSTEM, INCLUDING D	20103010: Construction & Engineering								
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TH	SERVICE, ELECTRICAL/INSTRUMENT/COMMUNI									
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TH	SERVICE, ELECTRICAL/INSTRUMENT/COMMUNI									
TH	SERVICE, ELECTRICAL/INSTRUMENT/COMMUNI		10.							
TH	SERVICE, U.P.S. SYSTEMS	20103010: Construction & art incerting								
TH	SERVICE, QMI PROCESS INSTRUMENTS MAINT									
TH	SERVICE, QMI PROCESS INSTRUMENTS MAINT									
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TH	SERVICE, ELECTRICAL/INSTRUMENT/COMMUNI									
TH	SERVICE, QMI PROCESS INSTRUMENTS MAINT									
TH	SERVICE, QMI PROCESS INSTRUMENTS MAINT									
TH	SERVICE, ELECTRICAL/INSTRUMENT/COMMUNI									
TH	SERVICE, FIELD INSTRUMENT MAINTENANCE	20103010: Construction & Engineering								



2. Business Relevance Assessment Methodology of Supplier Screening Process for Significant Suppliers

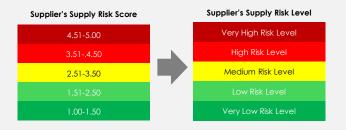
2.1 Supplier's Supply Risk Analysis

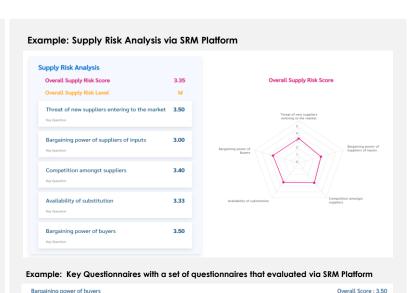
The Company uses Porter's Five Force Model for Supplier's Supply Risk Analysis and visualizes it via the Company's in-house software, namely "SRM (Supplier Relationship Management) Platform".

Porter's Five Force Model consists of main 5 questionnaires and each questionnaire has a set of questionnaires for deep drive analysis. The Company will evaluate each questionnaire with a score range (1 to 5).

No.	Main Questionnaire	Rationale	No. of Questionnaire
1	market	Low entry barriers into the industry can lead to higher competition and thus lower complexity of the industry. High entry barriers prevent new players from entering the industry and challenge existing players.	10
2		The industry is complex when these suppliers possess/offer unique assets or assets with limited accessibility as this will increase their power.	4
3		This refers to the competition among the suppliers. Low competition can be caused by a limited number of players (e.g., monopoly, oligopoly,)	5
4	Availability of substitution products/Services	A high potential for availability of substitution leads to a less complex industry.	3
5	Bargaining power of buyers	A low level of buying power implies a higher complexity of the industry.	4
			26

So, the Company can evaluate the supply risk in the score and convert it to risk level.





Action	Key Question	Answer	Score(1-5)	Comment
1	Are there many buyers in the market?		3.00	
2	Are switching costs high when changing suppliers?		4.00	
3	Is buying from any alternative supply markets difficult or will it result in a high total cost ?		3.00	
4	Is there a high level of loyalty to suppliers in this market?		4.00	



2. Business Relevance Assessment Methodology of Supplier Screening Process for Significant Suppliers

Combined Risk = Supplier's Supply Risk x Supplier's ESG Risk

The supply risk level will combine with ESG risk.

Low Risk

Negligible Risk

This ESG Risk Level is from the result that the Company conducts in 1.4 Supplier's ESG Risk High Risk Medium Risk Level is from the result that the Company conducts in 1.4 Supplier's ESG Risk Medium Risk Level is from the result that the Company conducts in 1.4 Level is from the conducts in 1.4 Level is from the result that the Company conducts in 1.4 Level is from the conducts in 1.4 L

Combined Risks

This Supplier ESG Level is from the result that the Company conducts in 2.1 Supplier's Supply Risk Assessment

Medium High

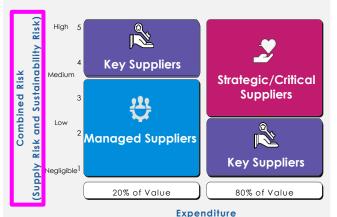
Supply Risk

Combined Risk is assessed based on Supply Risk and Sustainability Risk which is related to 5 key dimensions.

- 1. Operations and SSHE / Sustainability Management Risk
- 2. Competitive Advantage
- 3. Plannina Risk
- 4. Competitive Risk
- 5. Spend

Key Dimensions	Risk Assessment Methodology
Operations and SSHE / Sustainability Management Risk	Sustainability Risk Analysis
Competitive Advantage	Supply Risk Analysis Sustainability Risk Analysis
Planning Risk	Supply Risk Analysis Sustainability Risk Analysis
Competitive Risk	Supply Risk Analysis
Spend	Supply Risk Analysis

The combined risk is to be one factor of Business relevance to identify significant suppliers.



One factor of Business relevance to identify significant suppliers

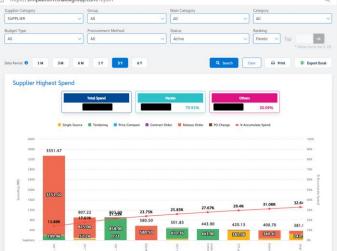


2. Business Relevance Assessment Methodology of Supplier Screening Process for Significant Suppliers

2.2 Supplier Spending Analysis

The Company uses Pareto 80/20 for Supplier Spending Analysis. The Company gathers the historical spending data from ERP and visualizes it via the Company's in-house software, namely "SRM (Supplier Relationship Management) Platform".

Example: Pareto 80/20 Analysis via SRM Platform https://smplatform.thaioilgroup.com/report



So, the Company can classify which suppliers are in 80% of values or 20% of values. The suppliers who are in 80% of values is one factor of **Business relevance** to identify significant suppliers.



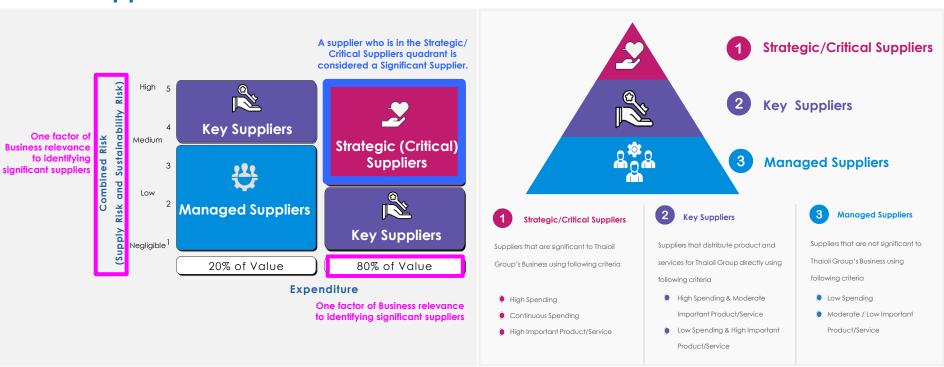
Expenditure

One factor of Business relevance to identify significant suppliers



2. Business Relevance Assessment Methodology of Supplier Screening Process for Significant Suppliers

2.3 Supplier Classification





2. Business Relevance Assessment Methodology of Supplier Screening Process for Significant Suppliers

The Identification of Significant Suppliers

The significant suppliers are "High Potential ESG Risk Suppliers" and/or "Strategic/Critical Suppliers".

Supplier's ESG Risk Level



A supplier who has a Very High or High ESG risk level is considered as a Significant Supplier.

Supplier Classification



Expenditure

A supplier who is in the Strategic/Critical Suppliers quadrant is considered as a Significant Supplier.



Risk Management Process for Significant Suppliers



1. Risk Assessment

After conducting risk assessment (Risk Identification, Analysis, and Evaluation) via the Supplier's ESG risk assessment and the Company's business relevance assessment.

The Company will give the priority on the significant suppliers are "High Potential ESG Risk Suppliers" and/or "Strategic/Critical Suppliers".



2. Risk Treatment and Risk Management Measures

Significant Suppliers

- Supplier's SCOC Acknowledgement
- Internal Monitoring and Assessment
- Supplier Assessment with Corrective Action Plans (CAP).
- Supplier Development.

Non-Significant Suppliers

- Supplier's SCOC Acknowledgement
- · Internal Monitoring and Assessment



3. Monitoring & Review

- Plan for monitoring, assessing, and reviewing risks and risk management measures.
- Meeting with key internal stakeholders and significant suppliers to monitor, assess, and review risks and risk management measures and record them in the database.



4. Recording & Reporting

- Prepare risk analysis records and reports in the form of risk registers to ensure uniformity.
- Regular proactive risk reports by Significant Suppliers through formal channels as planned.



Supplier Assessment



The company has committed to conducting supplier assessments on sustainability topics and promoting suppliers' capacity in supplier ESG program. The company has established a long-term plan to proactively assess the significant suppliers and high ESG risk suppliers.

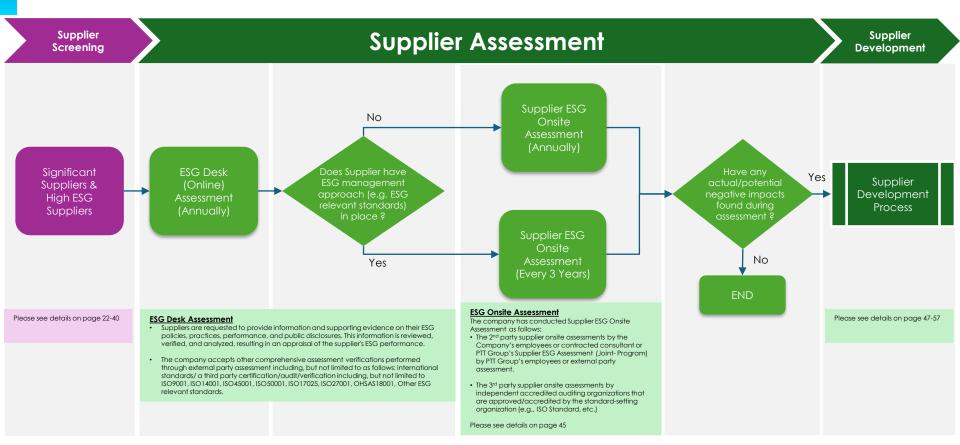
The company has carried out the supplier assessment process to reduce costs, mitigate ESG risks, and drive improvement including increased supplier ESG performance visibility and aligning between the company and supplier business practices, and supply chain risk mitigation.

Supplier assessments (desk or on-site) are carried out using standards and methodologies of a recognized industry as follows:

- ISO (The International Organization for Standardization) such as ISO 14001, ISO 50001, ISO 45001, OHSAS 18001, ISO 9001, ISO/IEC 17025, ISO 27001, ISO 20400.
- Collective Action Against Corruption (CAC) Certificate by Thai Private Sector Collective Action Against Corruption, Thailand.
- Corporate Social Responsibility, Department of Industrial Work (CSR-DIW) by Department of Industrial Works, Ministry of Industry, Thailand.
- Green Industry (GI) Certificate by Ministry of Industry, Thailand.
- SMETA standard convert to URSA by SGS (Thailand).

Supplier Assessment Process

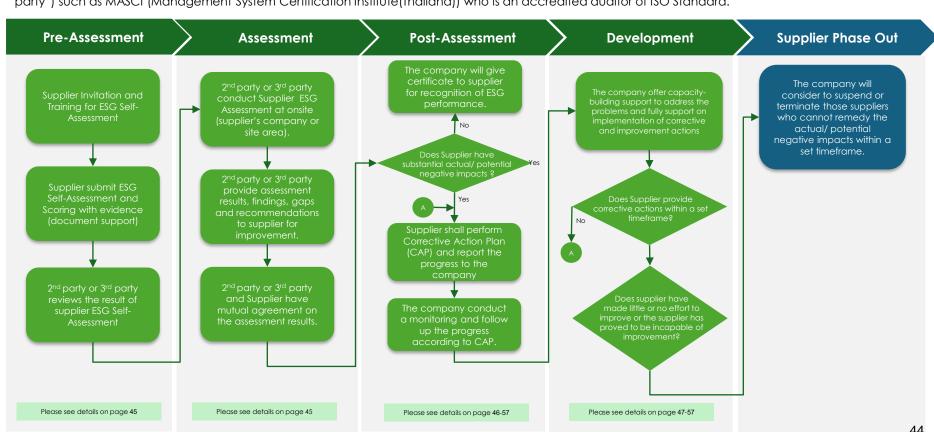




Supplier Onsite Assessment Process



The assessment is carried out by Thai Oil's employees or external consultants ("2nd party") and independent accredited auditing bodies ("3rd party") such as MASCI (Management System Certification Institute(Thailand)) who is an accredited auditor of ISO Standard.



Supplier Assessment



Upon reviewing the risk assessment results, the company will select Significant Suppliers with Strategic suppliers and high potential ESG risk suppliers to participate in the supplier ESG Program, to verify that the identified risks are being properly managed.

Supplier Desk Assessment

The company conducts supplier desk assessment with systematic verification of evidence by examining the certificates and assessment report issued by the Independent Accredited Auditing Body, including as follows:

- ISO Certification e.g., ISO14001, ISO50001, ISO45001, OHSAS18001, ISO9001, ISO17025, and ISO27001
- Green Industry Standard assessments by the Ministry of Industry
- Certifications from the Thai Private Sector Collective Action Against Corruption (CAC)
- Corporate Social Responsibility, and the Department of Industrial Work Award (CSR-DIW Award) by the Ministry of Industry.

2nd Party Supplier On-site Assessment

Supplier on-site assessments carried out by the company's employees or contracted consultant (2nd party assessment). For example; there are QSHE (Quality, Safety, Occupational Health, and Environment) assessments and waste assessments that are audited by the company at both Thaioil and Supplier Sites.



3rd Party Supplier On-site Assessment

Supplier ESG on-site assessments carried out by the Management System Certification Institute (MASCI) as an independent accredited auditing body (3rd party assessment) to assess the Company's sustainable management practices of significant suppliers who have high potential ESG risks and/or strategic suppliers. These on-site assessments are conducted based on the criteria developed from ISO20400: Sustainable Procurement.



Supplier Assessment: Recognition Program



After the supplier ESG 3rd party onsite assessment is completely conducted, the Company has recognized the Suppliers for putting in high effort, creating more collaboration, and supporting our long-term sustainability in the supply chain.



Supplier Development Process



Supplier development programs is to ensure that suppliers will conduct the business to meet the company's requirements and to create value and opportunities together to improved and scalable impact in the supply chain,



Supplier Information and/or Training

Providing the suppliers with information and training on the company's supplier ESG program. The examples are as follows:

- Annual Supplier Seminar. The content consists of Thaioil Group's Sustainability (ESG) Management e.g., Human Rights, SSHE, CG, SCOC, and Supplier ESG program.
- Supplier Training for ISO20400
 Sustainable Procurement and Thaioil
 Group's Sustainable Procurement (e.g.,
 SCOC, Sustainable Procurement
- Supplier Training for ESG Background and ESG Assessment Scoring for ESG onsite Assessment
- Supplier Invitation for PTT CG Day, CAC Seminar, Supplier Experience Sharing Session for potential high-risk work and CSR Activities (e.g., Memorandum of Cooperation, etc.).

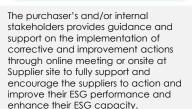


Supplier Access to ESG Benchmarks

The Company conducts Supplier ESG Benchmark Sharing Session to allow suppliers can access to information on how other suppliers are performing and performance information on ESG areas, best practices or case studies on how other suppliers achieved that level of performance.



Supplier Support (remote/onsite) on Implementation of corrective/improvement actions





In-depth technical support programs to build capacity and ESG performance in suppliers

The Company conducts comprehensive capacity-building programs to systematically improve supplier practices and performance on specific ESG topics through training, baseline assessments, collaborative system development, and progress measurement to enhance their capability for a more sustainable and resilient their businesses over the long term with systematic practices. The examples are as follows:

- Green Industry (GI): Training and hands-on workshop (Certified by the Department of Industrial Works of Thailand).
- All Safe White Green Program: Security, Safety, Occupational Health, and Environment (SSHE) Management Program.





Supplier Information and Training on the Purchasing Company's Supplier ESG Program

The Company has communicated supplier information and conducts the trainings on Supplier ESG program, process and requirements to our suppliers via various mediums such as supplier capacity-building programs and supplier engagement via training, workshops, meetings, conferences, and supplier newsletters via e-mails, etc.

The examples of Supplier Information and Training through various mediums are shown as follows :

Annual Supplier Seminar

The Company has continuously conducted annual supplier seminar to communicate multiple ESG topics e.g., corporate vision, procurement strategic direction, sustainable procurements (SCOC, Supplier ESG roadmap), corporate sustainability(ESG) management policy, Quality, Safety, Occupational Health, and Environment (QSHE), Human Rights in the Supply Chain and Corporate Governance (CG) to our suppliers, etc.

In 2023, The Company conducted an annual supplier seminar as a hybrid event (onsite and online). The Company provided information on sustainable procurement in actions including Supplier ESG Program and Supplier Assessment and Development. The Company allowed Suppliers to exchange knowledge, useful information, and feedback for more understanding and collaboration. This is a good opportunity to improve the Company's Operation and do business together with Suppliers in the future.



Example of Presentations that provide the information on Supplier ESG Program





Supplier Information and Training on the Purchasing Company's Supplier ESG Program

The examples of Supplier Information and Training through various mediums are shown as follows:

Supplier Training

In 2023, the Company conducted Sustainable Procurement Training for Suppliers to ensure that the information of the Supplier ESG Program is deployed to Suppliers. The content consists of multiple ESG topics and best practices from Sustainable Procurement Guidance (ISO 20400), to information on the Supplier ESG Program which is already embedded into the End-To-End Procurement Process including the Company's assessment and development process.



Example of Training Documents that provide the information on Supplier ESG Program, process, and requirements





Supplier Information and Training on the Purchasing Company's Supplier ESG Program

The examples of Supplier Information and Training through various mediums are shown as follows:

Supplier Activities e.g., Seminar, Sharing Session, Hands-on Workshop etc.

In 2023, the Company has embedded Supplier ESG Program into Supplier Activities. The Company invited all suppliers via E-mails to participate the events that related to ESG. The content consists of the specific ESG topic and best practices from expert sharing, to information on the Supplier ESG Program which Suppliers will apply accordingly.

For example, the Company invited suppliers to join PTT Group CG Group Day, CAC Seminar, and Supplier Experience Sharing Session for potential high-risk work and CSR Activities (e.g., Memorandum of Cooperation: MOC).







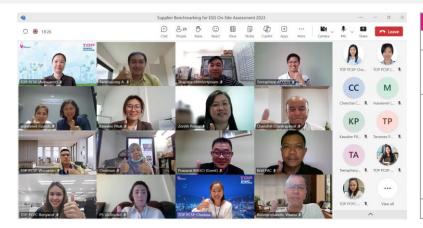


Supplier Access to ESG Benchmarks against Peers

The Company conducted Supplier ESG Benchmark Sharing Session for all suppliers who participated ESG onsite assessment. The objective of this session is to improve and enhance better ESG performance by learning and capturing how other suppliers achieved that level of performance and the best practices from the supplier who received the highest score in each sustainability dimension which consists of ESG Policy, Business Integrity, Social, Occupational Health and Safety and Environment.

The Company allowed the Suppliers to access the information on how other suppliers were performing by asking questions in this session.

Moreover, the company is developing a knowledge management repository via a supplier portal platform for capturing and sharing supplier ESG knowledge and benchmarks among peers. Suppliers will have access to information on how other suppliers are performing and performance information on ESG areas, best practices, or case studies on how other suppliers achieved that level of performance.



Agenda		Ву
Opening Speech and Objective of Supplier Benchmarking		Thai Oil PLC.
Overview of ESG onsite Assessment Results 2023		Thai Oil PLC.
		MASCI
Sharing how to achieve the level of performance of each sustainability dimension from Supplier who received the highest score in each sustainability dimension.	A. Policy	Supplier A
	A. Policy B. Business Integrity C. Social	Supplier B
	D. Occupational Health and Safety	Supplier C
	E. Environment	Supplier D
Closing Speech		Thai Oil PLC.





Supplier support (remote/onsite) on implementation of corrective/improvement actions

From the result of supplier assessment, if any suppliers fail to pass or meet the assessment standards, the company will work with the suppliers through online (remote) and onsite meetings to help them develop their corrective actions and improvement plan and provide them with the Corrective Action Plan ("CAP") template so that each supplier can systematically solve the issues. The CAP will require suppliers to record the non-compliance issues, root causes, and proposed solutions while the expected deadline must be specified in the CAP and submit the CAP to the Company within a specific period. The Company will regularly organize meetings with suppliers to monitor the implementation progress and provide recommendations for further development and improvement.

For suppliers working at either the Company or the Supplier's Site, the Company has regular SSHE site audits and performance assessments to ensure that Suppliers comply with SCOC and Contracts. In case the issues were found, the company would immediately support our Suppliers in the implementation of corrective and improvement actions within the specific timeframe, which resulted in 100% CA (Corrective Action) closure and compliance with the Company's SCOC.

This supplier support (remote/on-site) on implementation of corrective/improvement actions not only mitigates potential ESG risks and promotes operational excellence, but also fosters sustainable development in alignment with the Company's business practices. As a result, this builds trust and strengthens business relationships between the Company and Suppliers.





Supplier support (remote/onsite) on implementation of corrective/improvement actions

The examples of Supplier support on implementation of corrective/improvement actions.

Supplier Improvement Program	ติดตามแผนการแก้ไขและป้องกันข้อบกพร่องการตรวจประเมินศักยภาพด้านความ	มยั่งยืน Sup
Required Optional This meeting request was updated after this message was sent. You should open a late	r update or open the item on the calendar.	No Response Required
แผนการแก้ใชนหนีใจเก็นชื่อยกเพร่างเการตรวจประเมินด์กะเกาหล้านความยังมัน 27- 328 KS วายงามการตรวจประเมินแลการตำเนินงาน 20231024.pdf 200 KS	2-23xls v าายสามใหม่ใหวาลหมอากการหวายประเมิน 20231024.pdf 1 M8	resp.
(3) Monday, 29 January, 2024 1:30 PM-2:30 PM 💮 Microsoft Teams Meet	ing	•
เรียน ทีมงาน บริษัท		Granding Server Supply Server Server Server Server Server Server
จาดผลการตรวจประเมินความเสี่ยง ESG ภาคสนามประจำปี 2566 (ESG C ตักยภาพด้านความยั่งยืน ในวันจันทร์ที่ 29 มกราคม พ.ศ. 2567 เวลา 13.30-14.30 ม. เ	n-Site Assessment 2023) ในวันจังการที่ 24 คุลาคม พ.ศ.2566 ทางบริษัทฯ ขอนักประชุมเพื่อคิดคามแผนการแก้ ก่ามทางระบบ Ms.Team โดยมีกำหนดการ ดังนี้	ใขและป้องกันข้อบกพร่องการตรวจประเมิน (กระ กระ กระ กระ
9.00-9.45 น. คู่ด้านำเสนอ อัพเดดแผนการแก้ไขและป้องกันข้อบกพร่องการตร	จะประเมินศักยภาพด้านความยั่งยืน และผลการดำนนินงานปี 2023	CEA
9.45-10.00 น. สอบถาม		







In-depth technical support programs to build capacity and ESG performance in suppliers

To systematically improve supplier practices and performance on specific ESG topics through training, baseline assessments, collaborative system development, and progress measurement to enhance their capability for a more sustainable and resilient their businesses in the long term with systematic practices.

The examples of In-depth technical support programs are as follows:

Green Industry Certification Program

Green Industry Certification program has been conducted annually in collaboration with the PTT Group since 2023 which usually takes about 1 year. The Company's encourages and supports suppliers to apply for Green Industry (GI) Level 2 Certification by collaborating with recognized institutions, including the Management System Certification Institute (MASCI), which is a network institute of the Ministry of Industry and operates under the Foundation for Industrial Development.

This program encompasses both theoretical online sessions and practical workshop sessions for the suppliers throughout the year. The aim is to support suppliers in continuous improvement and enhance the sustainable development of suppliers in adopting environmentally friendly business operations in the long term. The definition of GI Level 2 is Green Activities in compliance with policy, goals, and plans that have been set to reduce substantially environmental impacts as commitment states











Induction Center

with laws regulations

Monitoring Program

(Contractor Card)



In-depth technical support programs to build capacity and ESG performance in suppliers

The examples of In-depth technical support programs are as follows:

All Safe White Green Program

Safe White Green Program is focused on Security, Safety, Occupational Health, and Environment ("SSHE") Management. This program is collaborative system development & progress measurement and has been systematically implemented since 2021. This program usually takes about 1 year. The development process is defined into 5 steps as follows (Coach, Up & Re-Skills, Control, Recognize, and Share) to strengthen the supplier competencies in all SSHE aspects.

1. Coach: Management Commitment between the Company and Suppliers,

2. Up & Re-Skills: Assesses Opportunities that the Company collaborates to enhance

management system, knowledge, skills, improve the quality of life of workers,

and conduct training and learning effectively.

3. Control: To ensure compliance with laws, regulations, and standards, Suppliers are

assessed by an independent 3rd party, and we monitor performance through

Give a reward to both Suppliers' company and workers. 4. Recognize:

5. Share: Encourage supplier involvement and feedback and share lessons learned and





Reward both the

Mot. Walk & Talk

Encourage

earned and bes

sharing at all levels







In-depth technical support programs to build capacity and ESG performance in suppliers

The examples of In-depth technical support programs are as follows:

E-Procurement Learning Path

In 2023, Thaioil Group consistently improved the E-Procurement system to ensure transparency, fairness, and professionalism in the Company's procurement processes. This led to higher supplier engagement and provided benefits for suppliers in terms of cost reduction and ESG performance, resulting in better supplier satisfaction. Since the Company adopted reliable technologies in the procurement process to collaborate between the Company and Suppliers so that the Company has a system development program in place such as

- Supplier Onboarding (Supplier Registration and Qualification) via the Ariba system to support new suppliers to complete within the agreed timeline
- E-sourcing (online proposal submission) via the Ariba system to conduct regular virtual hands-on training (exercise with the real system) and Suppliers can learn repeatedly by themselves via e-learning which published in Thaioil Website etc.
- Contractor Card Application via Contractor Management System (CMS), Suppliers are invited to attend the training course and can exercise with the real system.
- The Company has actively promoted the use of the Online Purchase Order (PO) system for suppliers via Ariba. This aims to simplify the working process and increase the convenience and speed of the procurement process for Suppliers.







In-depth technical support programs to build capacity and ESG performance in suppliers

The examples of In-depth technical support programs are as follows:

Sustainability Development for Suppliers

Sustainability Development for Suppliers is conducted to promote and support supplier's knowledge and understanding regarding the Sustainability Development approach, covering Environmental, Social, and Governance aspects. Moreover, the Company encourages the Suppliers to implement with their suppliers to promote sustainable development throughout the supply chain. In 2023, the Company conducted and engaged the Suppliers to participate according to the annual development roadmap as follows.

Governance Aspects

Safety Aspects

Governance Aspects

Environmental, Social, and **Governance Aspects**

Environmental, Social, and **Governance Aspects**

Environmental, and Social Aspects





Thailand Safe

@ Work

PTT Group Corporate



Collective Action Against Corruption (CAC)



Road to Join & SME Briefing Webinar for Guidelines for reducing bribes is conducted by Collective Action Against Corruption (CAC). This training aims to promote and support supplier's appropriate anti-fraud

mechanisms Including risk assessment

methods, self-assessment, inspection

and processing monitoring methods.

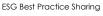


Thailand Safe @ Work is conducted by Thailand Institute Of Occupational Safety And Health (Public Organization). The aims to encourage supplier's opportunity to develop and exchange knowledge, experience and methods for solving problems in safety work.





PTT Group CG Day is a collaborative initiative with the PTT Group, organized on an annual basis. The initiative aims to promote and enhance supplier's knowledge and understanding of Good Corporate Governance. In 2023, approximately 2,100 suppliers were invited to participate in this event through an online platform.





ESG Best Practice Sharina is conducted in a Supplier Seminar. The purpose was to enrich supplier's understanding of sustainability management and apply the knowledge to their businesses to support the Thaioil Group's sustainable development

ISO20400 Sustainable Procurement



ISO 20400 Sustainable Procurement Training for Suppliers is conducted in collaboration with MASCI. This training aims to promote and support supplier's knowledge and understanding regarding sustainable procurement approach, covering Environmental, Social, and Governance aspects. Moreover, the training encourages the suppliers to implement with their suppliers to promote sustainable development throughout the supply chain.

Thaioil Group QSHE



TOP GROUP QSHE Day 2023 is organized to enhance supplier's awareness of auality management, stability, safety, occupational health, environment and energy conservation (QSHE) under the concept of "ENSURE GOAL ZERO".

Key Performance Indicators (KPI)







KPIs for Supplier Screening



The Company has analyzed by grouping all suppliers identified supplier screening by grouping the suppliers based on country, business sector, and commodity-specific – products, services, and activities. Then, screening suppliers to identify the potential sustainability (ESG) risk for each supplier group and will use spending as part of supplier screening for significant (Strategic/Critical) suppliers.

No.	Supplier Screening	Unit	FY2023*
1.1	Total number of Tier-1 suppliers	suppliers	1,015
1.2	Total number of significant suppliers in Tier-1	suppliers	37
1.3	% of total spend on significant suppliers in Tier-1	%	11%
1.4	Total number of significant suppliers in non Tier-1	suppliers	0
1.5	Total number of significant suppliers (Tier-1 and non Tier-1)	suppliers	37

^{*}These performance data have been verified the accuracy and reliability by third party (LRQA). with the following assurance statement. https://www.thaioilgroup.com/upload/media file/202403071631 Thaioil IR2023 EN Final 20240307.pdf



KPIs for Supplier Assessment and Development

KPIs for Supplier Assessment and Development (1/2)



No.	Supplier Assessment	Unit	FY2023*	
			Performance	Target
1.1	Total number of suppliers assessed via desk assessments/on-site assessments (Tier 1 + Non Tier 1)	Significant supplier	32	
1.2	% of significant suppliers assessed	% of total significant supplier	86%	85%
1.3	Number of suppliers assessed with substantial actual/potential negative impacts	suppliers	0	
1.4	% of suppliers with substantial actual/potential negative impacts with agreed corrective action/improvement plan	% of total significant suppliers with impacts	100%	
1.5	Number of suppliers with substantial actual/potential negative impacts that were terminated	suppliers	0	

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KPIs for Supplier Assessment and Development (2/2)



No.	Corrective action plan support Unit	FY2023*		
No. Corrective action	Corrective action plan support	Unii	Performance	Target
2.1	Total number of suppliers supported in corrective action plan implementation	suppliers	0	
2.2	% of suppliers assessed with substantial actual/potential negative impacts supported in corrective action plan implementation	% of total significant supplier with negative impact	100%	100%

No.	Corrective action plan support	ction plan support Unit	FY2023*	
NO.	Corrective action plan support	Offili	Performance	Target
3.1	Total number of suppliers in capacity building programs	significant supplier	30	
3.2	% of significant suppliers in capacity building programs	% of total supplier participated in capacity building program	81%	50%

^{*}These performance data have been verified the accuracy and reliability by third party (LRQA), with the following assurance statement.

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Glossary



BoD	the Company's Board of Directors
CA	Corrective Action
CAP	Corrective Action Plan
CEO	the Company's Chief Executive Officer
Company	Thai Oil Public Company Limited
MASCI	Stands for "Management System Certification Institute", which is a network institute of the Ministry of Industry and operates under the Foundation for Industrial Development.
SCOC	Stands for "Sustainable Code of Conduct for Suppliers of Thaioil Group" which is the Company's Supplier Code of Conduct
SSHE	Security, Safety, Occupational Health, and Environment
Suppliers	The Company's Suppliers include but are not limited to agents, brokers, consultants, contractors, distributors, and suppliers of products or services for the Company must be covered in Sustainable Supply Chain Management Process.



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