

3.3.2 Environmental operating results

- Goals, indicators, and controls, including quantitative measures of environmental performance, must be incorporated into the sustainability framework to guarantee that environmental outcomes are in accordance with sustainability development principles.

No.	Goal	2025	
		target	performance
1	Environmental law compliance	100%	99.55%
2	Meet legal indicators of environmental law	100%	96%
3	Community complaints on Impact of dust from process 1 complaint at CS plant 2 complaints at HW plant 5 complains at PB plant	0	8 (rectified and closed)
4	Establishments certified and controlled by environmental management system standards: -Chong Sarika Branch [6 kilns] certified -Huai Pa Wai Branch [1 kiln] under control. -Phra Phutthabat Branch [2 kilns] under control	Certified for 6 out of 9 kilns at the site, representing 66.67%.	66.67%
5	Environmental Certification and Third-Party Auditing: - Issuance of ISO 14001 certification every 3 years. - Air quality is monitored following the Department of Industrial Works standards, performed by a licensed and registered air quality agent from the department.	1 Branch (CS plant) 6 kilns All operating establishments: 100%	1 Branch (CS plant) 6 kilns All operating establishments: 100%
6	Fines or expenses incurred to compensate for or restore environmental damage resulting from disputes.	-	-

- Air Quality measured from the Stack

		Year/ Parameter	Total Suspended Particular (TSP)	Carbon monoxide (CO)	Oxides of Nitrogen (No _x)	Sulfur Dioxide (SO ₂)
(The Average Measurement) From the Stack	Average Result	Standard	320	690	400	700
		2566-2023	109	269	135	5
		2567-2024	98	329	219	1
		2568-2025	81	391	134	15

- Measurement of Air Quality in the work area

Location	Parameter	Standard	2023	2024	2025
1. Maintenance Area	Benzene	10 ppm	0.01	<0.02	<0.016
	Iron Oxide Fume	10 mg/m ³	0.007	<0.001	<0.001
2. Calcium Plant	Respirable Dust	5 mg/m ³	5	1.024	0.624
3. Hydrate Plant	Respirable Dust	5 mg/m ³	1.583	0.917	0.391
4. Kiln Area	Total Dust	15 mg/m ³	1.759	2.454	3.833
5. Lab	Hydrochloric acid	7 mg/m ³	0.01	<0.01	0.090
6. Grinding Plant	Total Dust	15 mg/m ³	10	0.722	4.5
7. Hydrate3-4	Respirable Dust	5 mg/m ³	3.5	4.845	0.167

Environmental operating results – Air quality management

▪ Control of noise impact from the production process.

There are the points that cause noise in the production process, including the operation of Blower System installed in the closed concrete wall building and other noise-causing systems which are not heavy machines. Besides, control equipment in the process is installed to minimize the impact of noise pollution in order to meet the noise pollution control standards.



Measurement Area	2023		2024		2025	
	Standard	Standard	Standard	Standard	Standard	Standard
	(Leq. 8 hrs. : dBA = 85)	(Lmax: dBA = 140)	(Leq. 8 hrs. : dBA = 85)	(Lmax: dBA = 140)	(Leq. 8 hrs. : dBA = 85)	(Lmax: dBA = 140)
Lime handling Kiln 1	83.5	99.7	81.4	105.1	80.3	93.4
Lime handling Kiln 2						
Lime handling Kiln 3	84.6	102.0	82.4	97.0	88.1	98.2
Lime handling Kiln 4						
Lime handling Kiln 5	85.0	103.0	87.5	101.1	91.6	104.4
Lime handling Kiln 6	84.5	104.7	88.1	102.7		
Packing Area Hyd Plant 1	81.1	96.7	78.2	97.7	67.8	90.4
Packing Area CaCO ₃ plant	75.0	86.6	91.4	96.1	74.5	92.7
Packing Area Grinding Plant RM-3						
Packing Area Grinding Plant RM-4						
Control room Grinding Plant	82.2	101.1	73.9	98.8	69.0	83.0
Average	82.3	99.1	83.3	99.8	78.6	93.7

▪ Controlling the impact of temperature and heat from the production process

Heat generated by the burning process does not affect the environment in any heat-related way because the kiln system is closed with brick insulation to prevent heat from leaking out of the kilns. Furthermore, the points with possible impact are controlled by measuring the temperature of heat in the areas with possible impact.

Measurement Area	2023	2024	2025
	Standard (34°C)	Standard (34°C)	Standard (34°C)
1. Conveyor K2			
2. Conveyor K5	29.0	30.3	29.7
3. Maintenance Shop	29.4	31.8	29.9
4. Conveyor K6	29.1	30.6	28.6
Average	29.2	30.9	29.4

• Factory water recycle system effluent quality

For the Company's activities, water is used for the production process, including spraying water to wash stone before entering the burning process in the kilns. A water consumption system includes the pit and installation of piping

system to circulate the used water back to the cesspit by sedimentation in the pit. After going through a sedimentation process, the water is reused. Sludge in the pit, which includes bits of earth, mud from washing stone mixed with the dust of lime from the production process, will be dumped, scooped out for utilization such as use to adjust the factory areas, donation to the temples, the schools, the villagers for land fill, etc.

As to Water recycle system based on the standard of industrial wastewater according to notification of the Ministry of Industry No. 2 1996 (B.E. 2539) issued under the Factory Act 1992 (B.E. 2535), the Company has measured the quality of used water as follows:

The volume of Wastewater released beyond the factory.

	Unit	2023	Y2024	2025
Water (effluent) discharge	cubic meter	No water drained outside the factory	No water drained outside the factory	No water drained outside the factory
The factory's wastewater system recirculates water internally, ensuring that it is not discharged into the public domain. As a result, it has no impact on the external environment.				

Measurement	Method	Standard	2023	2024	2025
pH*	pH Meter	5.5-9	12.2 ¹	12.400 ¹	12.000 ¹
Suspended Solids	Dried at 103-105 °C	50 mg/l	4,670/2	110.000	<3
Total Dissolved Solids	Dried at 103-105 °C	3000 mg/l	1,950	980.000	1050
BOD5	Azide Modification	20 mg/l	<2	<2	<2
COD	Closed Reflux	120 mg/l	<5	9.000	<5
Oil & Grease	Partition & Gravimetric	5 mg/l	<5	<5	<5

(Latest year data presented)

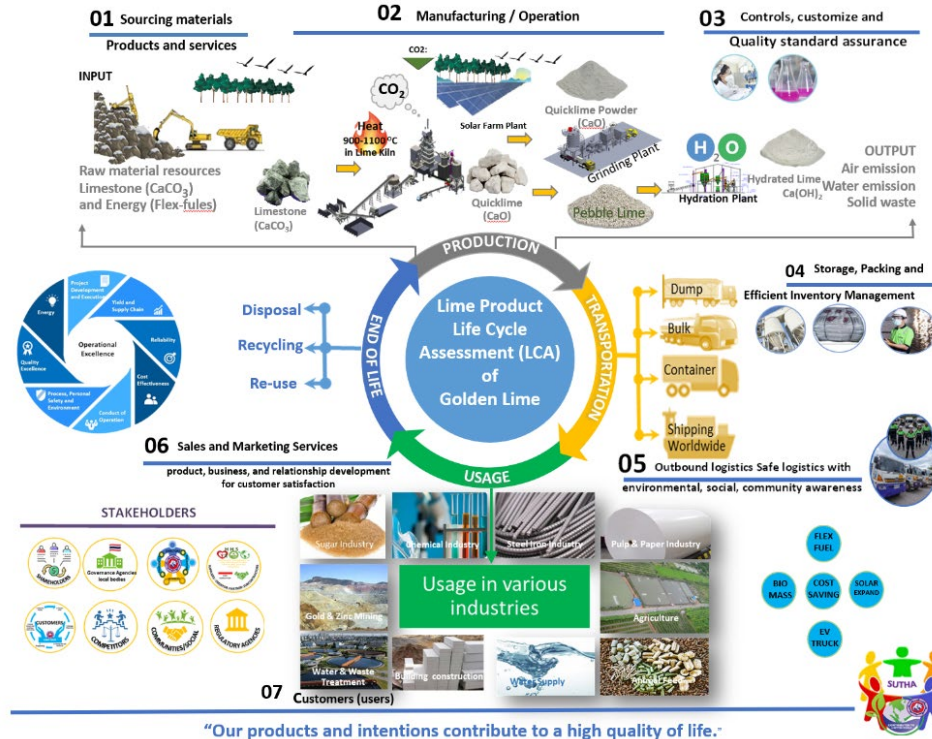
(*) 1) The Water quality test report shown is of the Chong Sarika branch published in the annual report. Every plant obtains this kind of report in accordance with the specified standards, except for the pH value, where the pH value (pH) ranges between 5.5 - 9.0

2) Suspended solids refer to insoluble solids or particles that are suspended in water or a medium. These particles are small and lightweight due to the recirculation of water back into the sedimentation pond. Therefore, measurements of water from the sedimentation pond will show high levels of suspended solids resulting from sediment accumulation during the process.

Volatile organic compound emissions (VOCs)

	Unit	Y2023	Y2024	Y2025
Volatile Organic Compounds Emission (VOCs)	kilograms	Non-volatile substances used in main process	Non-volatile substances used in main process	Non-volatile substances used in main process
Note: The company does not use volatile organic compounds in its operations. Gasoline for vehicles is purchased off-site; there are no on-site fueling facilities.				

Environmental Assessment and Management



SUTHA has implemented the Product Life Cycle (PLC) and Life Cycle Thinking framework as a systematic approach to identifying and managing environmental concerns. This is facilitated through the Environmental Aspects – Product Life Cycle (EMFM0302) assessment document, which comprehensively addresses all major stages, including raw material and fuel acquisition, production processes, storage and utilization of substances and materials, transportation and distribution, as well as waste management and disposal.

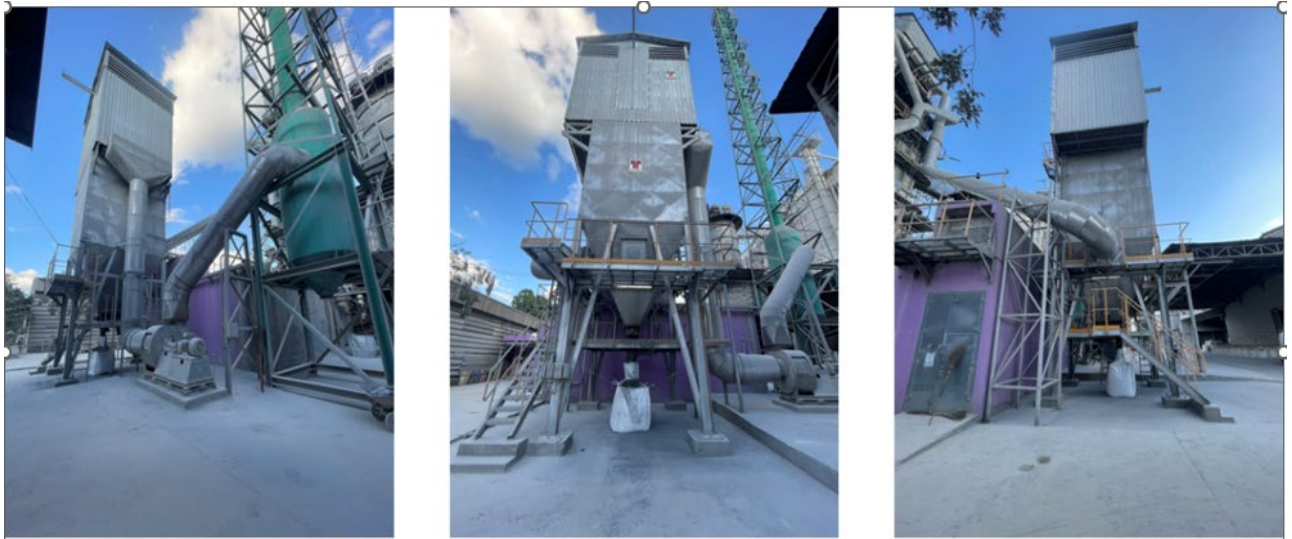
The company assesses activities, products, and services by identifying environmental impacts such as resource depletion, air pollution, noise, odor, nuisance, and health and safety. These findings inform planning and are incorporated into operational controls and environmental strategies, including:

- From the outset, select and assess stakeholders within the supply chain for raw material or resource sourcing to effectively manage impacts.
- Establish occupational health and safety protocols—such as PPE, training, and hazard prevention—for activities involving dust, noise, heat, and electrical hazards, including engineering solutions like grounding.
- Implement preventive maintenance (PM) for machinery and vehicles to minimize risks and reduce malfunctions.
- Carry out waste management and sorting initiatives, targeting waste produced from spare parts, packaging, and cleaning supplies through dedicated programs.
- Regulate wastewater using treatment systems to control related activities.
- Ensure safe transportation and delivery by conducting annual vehicle inspections and executing PM plans to mitigate smoke, noise, and employee risk.

The company maintains assessment and control documentation in compliance with prescribed retention periods and assigned responsibilities, thereby facilitating continuous monitoring and operational evaluations.

In addition, to effectively manage and mitigate dust-related issues originating from operational activities, the company has implemented comprehensive dust control measures. These include upgrading and installing machinery, enhancing dust extraction systems, and minimizing dust accumulation through practices such as water spraying.

Environmental operating results – Air quality management



Replace the wet scrubber with a baghouse filter to reduce industrial dust emissions and decrease water usage.



Dust control is implemented through water spray systems to reduce dust accumulation.