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SSI

innovate • strength

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Vision

Leading Innovative and Reliable Steel Company

Mission

Innovate life through steel and its application, engineering, energy, and marine innovation

Values

- integrity We do what we say
- Fighting spirit Never give up
- aim for excellence Anything is possible
- can change Be the leader of change
- teamwork One for all, all for one
- service-mind Deliver more than expected

iFacts



Message from Group CEO and President



Dear Stakeholders

As the Central Bankruptcy Court approved the Company's Business Rehabilitation Plan (the "Plan") on 15 December 2016, and determined Sahaviriya Steel Industries Public Company Limited to be the Plan Administrator, the operations of the Company could achieve as specified in the Plan under the vision of "leading innovative and reliable steel company" and the mission of "Innovate premium value steel product and service for customers, create sustainable shared value and trust for stakeholders", pursuant to the 3-year strategic plan (2017 - 2019) which specified that sustainable development is one of the core strategies to create solid foundation and business growth of the Company.

Our sustainable development scheme does not only focus on creating shared value for the stakeholders but also corresponds to development agenda pursuant to paradigm of the United Nations' Sustainable Development Goals – SDGs in various aspects, i.e. good health and well-being for all; climate action; promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all; programmed on sustainable consumption and production; and strengthen the means of implementation and revitalize the global partnership for sustainable development and etc.

Significant Sustainability Performance in 2017

Economic

The Company as the Company's Plan Administrator has intensely overseen the business operation of the Company in order to achieve results set forth in the Plan. The Company and its subsidiaries recorded net profit of Baht 4,535 million. Operating performance improved from 2016 where net loss was Baht 2,869 million. In 2017, the Company made debt repayments in accordance with the Plan to the creditors totaling Baht 1,643 million, comprising of principal repayment of Baht 1,539 million and interest Baht 95 million. Moreover, the Company made an early debt repayment from Excess Cash of Baht 280 million. Therefore, the total debt repayment made in 2017 was Baht 1,914 million.

1. We developed and delivered Premium Value Products (PVP) to customers totaling 1,285,000 tons, accounting for 51% of total sales, an increase of 12% from the previous year.
2. We purchased goods and services from Bangsaphan communities and nearby areas worth Baht 190 million, generating benefits to 453 businesses and community enterprises. We also developed 2 new community enterprises to be our trade partners.

3. SSI Group employ 2,502 employees, whereas 2,103 are employed at Bangsaphan Plant (1,511 employees or 71.85% have domicile in Prachuap Khiri Khan Province) and hire 425 outsourcing employees.

In 2017, the Company's business activities contributed economic values to the Country totaling Baht 4,013 million.

Social

In 2017, the Company has implemented 50 social and community projects. There were 26,971 stakeholders benefited from those activities.

- **Social Capital Development**

Thailand Iron Man Mini Marathon 2017, a collaborative CSR project with Thai steel alliances, could raise fund of Baht 2.38 million to support organizations for underprivileged and total funds raised by this event during the 10 year period are more than Baht 24 million.

- **Household Economics and Career Promotion**

Community bank project is the operation with regards to participatory development of quality of life on sustainable basis jointly with 19 villages in 4 sub-districts located surrounding the plant, by supporting and enhancing the communities to establish 18 community banks. As at 31 December 2017, there were total funds amounting to Baht 28 million and 3,282 project members could enjoy the benefits. In addition, 9 community leader councils have been established to manage their own communities on participatory basis.

- **Education and Youth**

1. Sahaviriya Group's Technician Development for Steel Industries Project, a collaborative project between Sahaviriya Group and Bangsaphan Industrial and Community Education College, could allow the Company to have more access to skilled workers. At present, this project becomes model on formulation of dual vocational training (DVT). Up to 2017, there were 600 students across 10 classes graduated from this project. Out of these numbers, there are 166 persons working with Sahaviriya Group.

2. In 2017, there were 6 local schools participated in the Sahaviriya Funds for Bangsaphan Educational Development Project. All participating schools have demonstrated impressive results as their average scores of the ordinary national educational test (O-NET) were higher than the national average scores.

3. Village Youth Council Project has expanded its network by including Ban Huay Kreab Youth Council. While operations of Ban Don Sa-nga's Youth Council were so strong that it can develop its own local development plan and receive financial support from Prachuap Khiri Khan Province's Social Welfare Promotion Fund.

- **Environmental Quality Development**

The Company places strong emphasis on environmental and natural resources responsibility. Apart from supervising the production process to ensure that pollutant emitted from the production processes will not have any negative impact to quality of life and occupational health of the employees and the community, the Company also collaborated with relevant agencies to create environmental awareness promotion and campaign – e.g. SSI Beach Clean-up Activity, Two-wheels Preserve Bangsaphan Project, SSI Waste Recycling Bank for Schools Project, and Youth Conservation Camp. There were 3,953 people participating in environmental conservation activities up to present.

The operations of the Company could achieve as specified in the Plan under the vision of "leading innovative and reliable steel company" and the mission of "Innovate life through steel and its application, engineering, energy, and marine innovation"

- **Volunteer Culture Development**

In 2017, there were 754 SSI staff members participated in 26 SSI Volunteer Activities, or accounting for 6,032 volunteering service houses and 512 local people participating, or accounting for 4,096 volunteer service hours.

Environment, Safety and Occupational Health

Our performance with regards to environmental management during the past year which included managing and controlling quality of air, water as well as waste management could exceed standards required by the laws. Our record on Lost Time Injury Frequency Rates (LTIFR) during accounting period slightly increased from 0.39 in 2016 to 0.66 in 2017. We regret that 2 of our employees sustained injuries while operating machineries, though it was a minor accident. Nonetheless, number of lost-workday decreased from 18 days in 2016 to 9 days in 2017. We still keep on developing and improving our working procedures by implementing more intensified measure on Zero Accident by setting target to accumulate safety working hours at both departmental level and plant level. Other measures are volunteering project on creation of disciplines, safety culture & environment and inspection method on safety working in high risk areas with objectives to stimulate awareness of the employees and make them change their operating behavior that it becomes a corporate culture and complies with the specified environment, occupational health and safety management standards.

Sustainability Awards

Due to attainment results of the sustainability operations, the Company received many awards, such as Labor Relations Management Model Award under Category of Labor Relations and Welfare for 15 consecutive years (2003 - 2017); Excellent Role Model Establishment on Safety, Occupational Health and Work Environment 2017, Diamond Level, (for 6 consecutive years); Green Industry Certificate, Level 3: Green System (3 year period); Honorary Certificate from the Thailand Voluntary Emission Reduction Program (T-VER) and Excellent Supporting Organization for the Disabled Award 2017.

Move Forward for Sustainable Development Operations

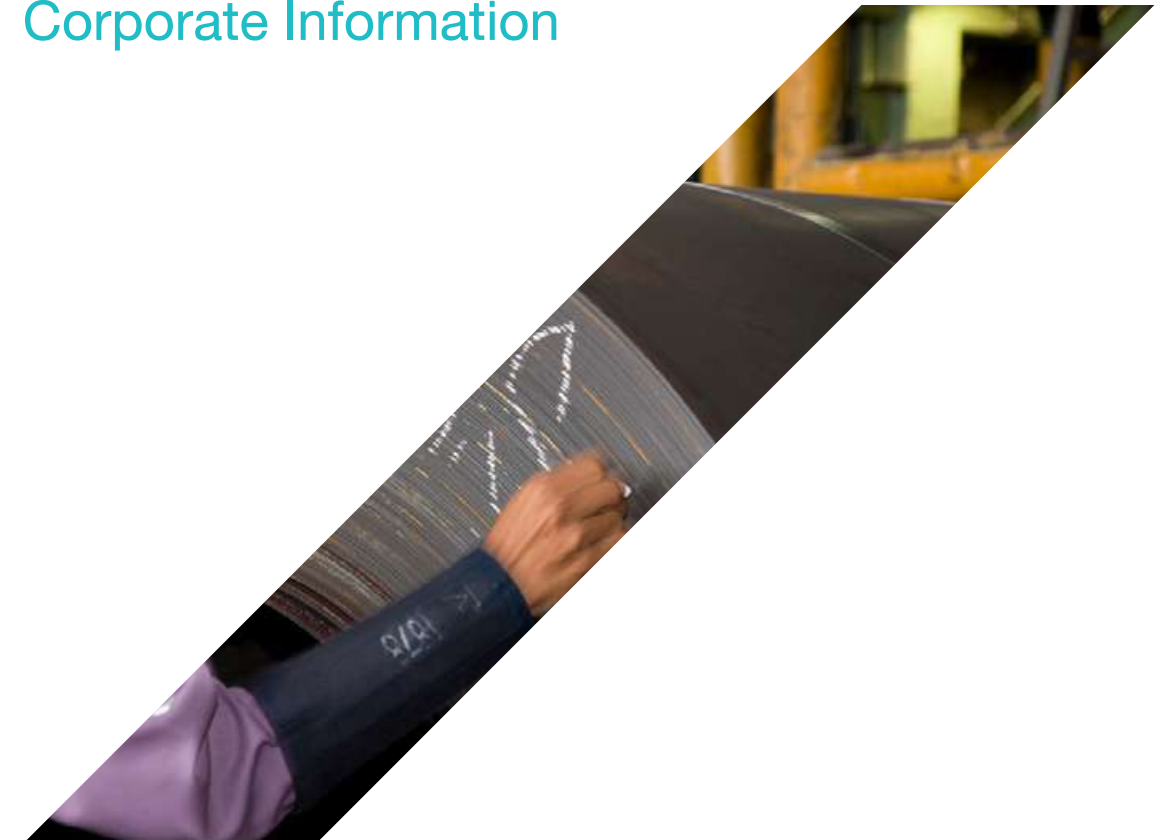
In 2017, the Company implemented a long-term strategic plan for the Group to prepare readiness to respond to vision of “leading innovative and reliable steel company” as well as internal and external factors which may impact the Group. This plan will also serve as a guideline for departments of the Group on establishment of their long-term objectives correspondingly. Our sustainable development will focus on Shared Value Innovation to deliver benefits or shared value to both business and society, obtained from the growth of business with more systemically operations.

We will still operate by adopting the Sustainable Development Goals (SGDs) of the United Nations as guidelines, so that the Company can deliver results which can truly fulfill the needs of all stakeholders in society near and far as well as the achievement of sustainable development targets.



Mr. Win Viriyaprapaikit
Group CEO and President

Corporate Information














Sahaviriya Steel Industries PLC or SSI is Southeast Asia's largest producer of hot rolled steel sheet in coils (HRC), with 4 million tons annual capacity. SSI endeavors to supply premium-grade steel sheets to cater for the region's growing demand in various sectors such as automobile, energy, transportation and construction sectors. SSI has investments in joint-venture downstream plants, namely Thai Cold Rolled Steel Sheet PLC (“TCRSS”) - Thailand's first and largest cold roll mill, and Thai Coated Steel Sheet Co., Ltd., (“TCS”) - Southeast Asia's first and largest electro-galvanizing line. All SSI's plants in Thailand are located on a world-class coastal industrial site in Bangsaphan, Prachuap Khiri Khan Province, 400 km south of Bangkok on the western peninsula of Thailand, a site efficiently integrated with a privately-owned deep-sea port (Prachuap Port Co., Ltd., or PPC), which allows import of raw materials and export of finished products on a large scale. SSI extends its engineering capabilities into its fully-owned subsidiary, West Coast Engineering Co., Ltd., or WCE, which specializes in engineering, maintenance, spare parts production, fabrication,

erection and commissioning service Our people's passion and energy is captured in the Company's vision statement - “Leading Innovative and Reliable Steel Company”, and mission “Innovate life through steel and its application, engineering, energy, and marine innovation”

For more information, please visit
<http://www.ssi-steel.com>

SSI Group Structure

Hot Rolled Coil Business	 <div>Sahaviriya Steel Industries Public Company Limited<ul style="list-style-type: none">Manufacturer of hot-rolled coilsManufacturer of hot-rolled coils pickled and oiled</div>		Core business	
Downstream Business	 <div>Thai Cold Rolled Steel Sheet Public Company Limited<ul style="list-style-type: none">Manufacturer of cold-rolled steel sheet</div>		Increase revenues and enhance sustainable growth	35.19%
	 <div>Thai Coated Steel Sheet Company Limited<ul style="list-style-type: none">Manufacturer of electro-galvanised steel sheet</div>		Increase revenues and enhance sustainable growth	3.7%
Port Business	 <div>Prachuap Port Company Limited<ul style="list-style-type: none">Provider of deep-sea port</div>		Reduce costs and increase revenues	51%
	 <div>West Coast Engineering Company Limited<ul style="list-style-type: none">Provider of engineering and maintenance services</div>	 	Reduce costs and increase revenues	99.99%
Engineering Business				

SSI Corporate Social Responsibility Management



Corporate Social Responsibility Concepts and Policies

Sahaviriya Steel Industries Public Company Limited, or SSI, implemented Corporate Social Responsibility policies based on its business philosophy and business ethics that have been molded in the way of a pushing forward, driving as well as sustainable development and growth.

Business Philosophies

1. Devotion to Excellence

SSI is determined to do all we can to continuously improve ourselves and our operations. Through study, research, development, and upgrading, we aim for the highest we can attain. This effort to develop and break new records of excellence must be perpetual in all aspects of our operations.

2. Adherence to Quality of Products and Services

SSI's products and services are all designed with the best interests and satisfaction of the customer in mind. We believe that our customers will always be willing to pay for the best, and that no improvement is of any use if it does not meet our customers' needs.

3. Belief in the Value of Our Personnel

SSI realise that good employees are the main reason for an organisation's success. For this reason, we take care to hire only the best to work with us, and provide fair and attractive remuneration packages that include constant training and education. Quality of life for our employees is paramount; their occupational health and safety are assured.

4. Commitment to Honesty and Ethics

SSI is fully resolved to conduct our business honestly and ethically. We believe that honesty and ethics in business bring good order to society and progress to the nation, and assure long-term prosperity in commercial dealings, for that reason we ethically conduct our business with all stakeholders, including shareholders, investors, customers, business partners, creditors, competitors, employees, the local community, and society in general.

5. Dedication to Our Social and Environmental Responsibilities

SSI firmly believes that we are part of society. Any change in society is certain to affect our business. We are convinced that business and society must all be developed in concert to ensure a sustainably successful enterprise. Our responsibility, therefore, is to take part in continual maintaining, developing and conserving of a good natural and social environment.

Business Ethics of the Company

In conducting the business, the Company adheres to the principles of accountability, transparency, integrity, and business competitiveness by acting in the best interest to all stakeholders in an equitable manner.

1. Shareholders

The Company realises the shareholders are the owners of the Company and the Company has the duty to generate value-added to the shareholders in a long term. The Company has, therefore, stipulated a guideline for the directors, executive, and employees to perform the followings:

- 1) Perform duties to the fullest capacity with integrity, care, prudence and fair treatment for the best interest of all shareholders
- 2) Present the operating performance report, financial status report and other reports with accuracy and completeness and in a timely manner.
- 3) Report a trend of the Company, both on the positive and negative sides, to all shareholders in an equitable manner based upon sufficient factual basis, quantitative information and rationale.
- 4) Ensure that there is no exploitation of undisclosed information or any wrongful action for improper advantage for oneself, or others, which may cause conflict of interest for the Company.

2. Customers

The Company values the vital role and satisfaction of customers which contribute to success of the Company's businesses. Therefore, the Company has a strong intention to pursue the methods that are reliable to customers and can fulfill the needs of customers in a more efficient and effective manner. The guidelines are as follows:

- 1) Deliver quality products and services that meet or exceed the expectation of customers.
- 2) Communicate with customers with courtesy and ensure that complete, accurate and up to date information of products and services is given to the customers. The Company will not misrepresent the products and services in terms of quality, quantity or any other conditions.
- 3) Strictly follow the conditions applied to the customers. In case the conditions cannot be satisfied, the Company will inform the customers without delay to figure out a possible solution together.
- 4) Establish a system and channel that allows customers to make complaints about quality, quantity and safety of products and service, and respond to the complaints in a timely manner.
- 5) Strictly protect confidential information of customers and will not use the information for other interests in an improper respect.
- 6) Provide instructions on the use of products and services in an efficient manner to maximise benefits.

3. Suppliers

The Company realises that ethical conduct with suppliers should be based on fair benefits to both parties. Thus, the Company commits to provide facts and accurate reports, implements according to agreements, negotiates and seeks solutions based on business relationship as well as avoids the situation which will result in a conflict of interest. The guidelines are as follows:

- 1) Never request, receive or pay any fraudulent benefits from and to suppliers
- 2) With an evidence indicating a fraudulent benefit has been claimed, received or paid, disclose such relevant information to the suppliers and together figure out the solution in a timely manner
- 3) Strictly perform in accordance with the conditions under the agreements and inform the suppliers in advance in case of inability to meet any condition

4. Competitors

The Company realises the commitment to treat its competitors fairly. The guidelines are as follows:

- 1) Never seek any confidential information of the competitors by unfaithful or improper means
- 2) Never destroy the competitors' reputation by offensive accusations.

5. Employees

The Company realises that employees are valuable resources for the success of the Company; thus the employees are treated fairly in terms of compensation, opportunity and development, and potential based on humanity practices regardless of their race, religion, gender or physical condition. The guidelines are as follows:

- 1) Treat employees with respect to individual value and dignity
- 2) Provide fair compensation to employees
- 3) Provide a safe working environment to employees considering their lives and properties at all times
- 4) Appoint, rotate, promote and demote employees with sincerity and based on knowledge, merit and suitability
- 5) Value development of knowledge and ability of all employees
- 6) Avoid any unfair action which may affect the job security of the employees or any action which may threaten or cause pressure to mental health of employees

6. Supervisory Authorities

The Company values its duty to comply with law and business practices. The Company strictly conducts the business under laws, articles, regulations and standards imposed by supervisory authorities as well as cooperate with supervisory authorities in relevant matters.

7. Society and Community

The Company recognises accountabilities towards society and community as the core of business, with full realisation of the possible effect on natural resources and the environment. It has constantly provided support to a number of activities to improve society and community, safeguard and rejuvenate natural resources as well as to enhance the community capacities in an effort to bring about sustainable development.

The Company establishes a concept for CSR operation and communication guidance as follows:

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Corporate Social Responsibility Management System

The Company has established the Corporate Social Responsibility Management Committee, which consists of executives from each division. Their duties and responsibilities are to implement and follow up on the CSR plan ensuring it to be in line with relevant policies. In addition they allocate the resources necessary for CSR operation and promote the work of the CSR Management Sub-Committee, which the Committee proposed to the President for appointment. The objectives of the Sub-Committee and scope of their responsibility is to support the work of CSR Committee.

The Committee reports its CSR operating result to the Good Corporate Governance Committee (CG) quarterly. The duties and responsibilities of CG Committee are to provide an opinion to the management regarding CSR and to monitor them in establishing a clear action plan. Furthermore they follow up on the implementation of the management plan and then submit the results to the Board of Directors.

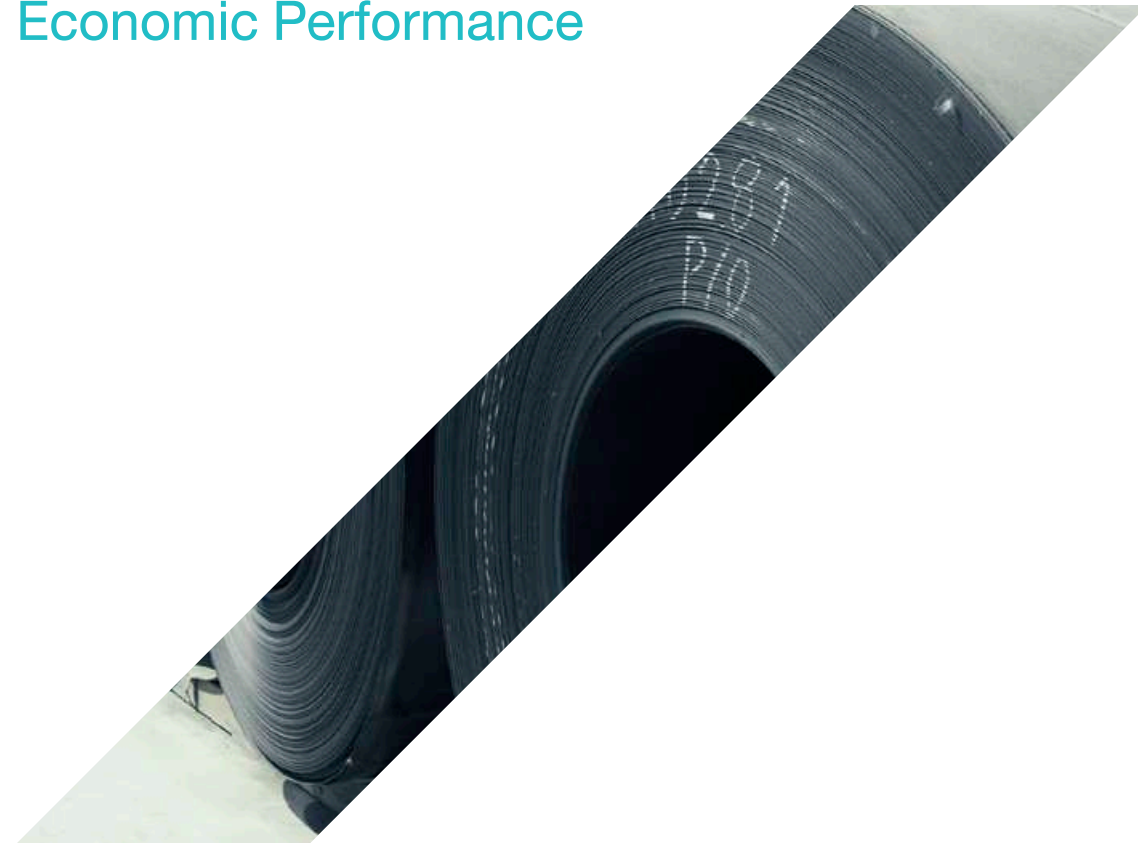
SSI CSR Management System Structure



SSI CSR Framework



Economic Performance



Economic Overview

The global economic for the year 2017 was positive and trends to continue for year 2018 though there were uncertainties in political situations in several countries. U.S. Economy has been strengthened by a decrease in unemployment rate with growth in consumption and investment of private sector. However, factors should be monitored are the fiscal policy especially tax reform policy which would be benefit to private sector and would encourage the return of investment to USA, interest rate policy of the Federal Reserve which is expected that the policy rate will be raised up to 3 times in 2018 due to the economic growth, and the trade protection policy called “America First”, launched by the US President Donald Trump, which sent a signal by raising tariffs on steel imports, affecting global steel industry and related industries, as well as industries in Thailand. European economy (EU) has continued to grow from its consumption, investment and export. In addition, the political volatility of major country like Germany was dropped after the victory of Angela Merkel,

the EU's supporter, which would ease political concerns and boost economic confidence. Nonetheless, the BREXIT issue that would has impact on trade investment in the United Kingdom and EU, the Catalonia's claim of independence from Spain (Catalexit) and the election of Italian leaders in 2018 which possibly leads to a withdrawal from EU If the party with the anti-EU policy wins the election are in concerns. For Asia's economy, Japan's consumption and investment grew well beyond expectations in the second quarter of 2017 due to domestic demand. The growth had continued to the second half of the year from the investment in infrastructure for the Tokyo Olympics 2020 project. However, the decline in popularity of the Japanese Prime Minister could be a negative impact on the political stability of the Japanese government. Chinese economy was going well with strong economic fundamentals in the country and the traditional economic reforms to the information technology services sector expected to lead to economic growth and its “Made in China 2025” strategic plan. However, China still has a high level of debt to GDP, which is likely to increase continuously, as well as there's

a concern of continuity in economic policy as several leaders had been changed recently. In addition, the Asian economic outlook is worried by the tension in the Korean Peninsula as the negotiation for stop testing of the North Korean weapons of mass destruction remains unresolved. For ASEAN countries and CLMV, there're good economic growth in 2017 from domestic demand and the recovery of global economy.

For Thailand's economy, Office of the National Economic and Department Board (NESDB) announced that in 2017 the domestic economy expanded by 3.9%, an increase from 3.3% in 2016, supported by consumption and investment from private sector, expansion of exports, growth of household spending and tourism incomes.

Business's Strategy

Though the global economy trends to be in better direction, there are uncertainties that may impinge on economies in the region. The Company is aware of the factors that may arise and has impact to the business operation. Therefore, the Company has been closely monitoring and implementing strategic plans for appropriate business management as follows:

Marketing Strategy

The Company cautiously manages the procurement of raw material in order to get the reasonable and predictable prices and quantity. The Company has been focusing on the production for premium value products which has value added and lower price fluctuation as well as closely monitoring on both domestic and overseas markets in order to analyze and consider the sale of product including simultaneously seek for new sources of imported raw materials with high quality but low cost. In addition, the Company's focus on controlling a proper level of inventories to manage the production plan in cooperation with sales projection had led to shorter delivery lead time. The Company also has been closely monitoring on current dumping situation of imported products and the government's price control policy in order to able to take proper and rapid actions to protect domestic steel industry.

Production Strategy

The Company has improved the production process, reviewed the inventory management plan, and introduced new technologies to enhance the efficiency of quality control and the accuracy of production process leading to a significant reduction of inferior goods. The Company also has implemented an automated system to be used for managing product quality to accommodate the ability to meet the customers' requirements, encouraged establishing a working team for the development of the production process aiming to figure out solutions for particular problems. In furthermore, the Company has studied new projects for efficiency enhancement and cost reduction as well as quality improvement.

In addition, the Company has prepared its personnel with necessary equipment to respond to emergencies including insurances covering property damages, loss from business interruption, damages to goods and products caused by natural disasters such as floods, storms, tsunamis, lightning, earthquakes, landslides as well as loss in case of fire in all circumstances.

Financial Strategy

1. Exchange Rate Management

In 2017, as being under the Business Rehabilitation and the limitation of Automatic Stay, the Company was suspended its credit line for forward contract which is a tool used to mitigate the foreign exchange rate risk. As a result, the risk exposure from foreign currency was unable to be eliminated during the period. However, an alter way to mitigate this risk, the Company has opened a Foreign Currency Deposit (FCD) account to help reduce the risk of exchange rate during the suspension of the forward contract. Nonetheless, since second half of year 2017, the credit line for forward contract has been approved for foreign currency used in raw material purchase and the Company is in the process of further approval for additional credit line for forward contract.

2. Trade Credit Management

The Company has emphasised on the quality of trade credit, efficient control of debt collection, a good internal control system, and a strict credit policy. The Company has also reviewed credit granted to customers and credit approval authority to establish the consistent trade credit standards and control the non-performing credit to the level that will not impact on the Company's performance in overall. The Company has also closely monitored outstanding debts, by jointly set up a payment plan and policy of making overdue debt repayment before delivery of new products to customers.



Economic Performance

Transactions	2016 (Million Baht)	2017 (Million Baht)	% Change (YOY)
Sales and Service Revenues	19,824	25,332	+28%
Group Sales Volume (MT)	1,232	1,285	+4%
EBITDA	2,143	6,115	+185%
Net Profit (Loss)	(2,869)	4,535	+258%

3. Liquidity Management

Since submitting a petition for Business Rehabilitation to the Court on 1 October 2015, the Company's creditors have been forced by the law to abstain from enforcement of the existing civil law as the Company is in Automatic Stay condition of the Bankruptcy Act which prohibits the Company to dispose of, distribute, transfer, let, pay debt, create debt or do any act which creates encumbrances over its asset except where such act is essential so that the debtor may carry on its business as normal, pursuant to Section 90/12(9). However, the Company has debt liabilities to be paid under the Plan after the Court issued an order approving the Company's Rehabilitation Plan on 15 December 2016. Regarding the liquidity management, the Company has closely monitored its working capital through regular projection on cash inflow and cash outflow in order to be aware of future liquidity requirements and have sufficient preparation time for liquidity solving. The Company continues to manage and prioritise on sales and product innovation for premium value, conducts cost reduction in production and reduces other expenses. Moreover, monthly meetings are held regularly with the creditor committee to monitor the implementation of the Plan and works closely with cash monitoring agent to monitors the Company cash flow to ensure the Company's proper cash management.

Occupational Health,
Safety and Environmental
Management



Sahaviriya Steel Industries Public Company Limited (SSI) has policies and business ethics in performing business by placing importance on value of their staffs, ensuring that they will have good quality of life with safety and healthy working conditions as well as adhering to social and environmental responsibility. The Company believes that occupational health, safety and environmental management system is very crucial for its business operations. Hence, such system has been appropriated and effectively implemented and it has also been continually developed and improved.

Occupational Health
and Safety Management

The Company still determines to build up awareness on social responsibility and working environmental conditions in order to protect its employees and contractors working in the SSI Bangsaphan Steelworks area from occupational diseases and injuries by complying with Occupational Health and Safety Assessment Series (OHSAS 18001) Standards. As a result, the Company received Thailand Outstanding Role Model Company Award for Safety, Occupational Health and Working Environment for 6 consecutive years.

Performance on Occupational Health and Safety

The Company has operated and developed its occupational health and working environment management, by emphasising that the employees should realise and put emphasis on taking care of themselves and their colleagues so they can work safely without having occupational accidents through various projects, such as Zero Accident Campaign, Behaviour Based Safety (BBS) Project and Safety Patrol. The Occupational Health, Safety and Environmental Committee has been established to supervise, monitor and provide guidelines to improve safety in all of the plant areas with support from the management. As a result, the company continues to strive to take measures to reduce the frequency of injury to less than one million working hours. This will help reduce the frequency of injury to one million working hours. Lower down to zero or zero continuously.

Lost Time Injury Frequency Rate (LTIFR) per Million Hours Worked of SSI Group

Company	2015	2016	2017
SSI	0.76	0.35	0.66
TCRSS	0.52	0.00	0.00
WCE	2.12	0.77	0.00
PPC	0.00	0.00	3.71
SSI Group	1.55	0.31	0.46

LTIFR (Lost Time Injury Frequency Rate): (Number of lost time injuries in accounting period) / (Total hours worked in accounting period) x 1,000,000.
* Data as of 31 December 2016.

Occupational Health, Safety and Environmental Trainings

Occupational health, safety and environmental trainings are important key to reduce accidents and occupational diseases. SSI has continuously improved occupational health and safety training courses for all level of its staff including new employees, rotated employees and promotion employees before commencing the work so that they can learn about workplace hazard, preventive and control guidelines. On-the-Job Training has also been provided to the Company's employees, sub-contractors and outsourcing employees. Certain trainings are compulsorily provided for some types of positions. The Company also provided experts to provide additional training courses to broaden the employees' vision and knowledge, apart from the lessons learnt inside the Company.

In addition, Training Matrix has been arranged and classified in the annual training plan which is compliance with safety and operational risks and relevant safety laws. It evaluates type of the activity / work and the working environment of the employees by their own department and information obtained has been sent to safety authorities to review various risk factors to be used as guideline on allocation of employees who need to be trained in the certain courses and pursuant to appropriateness. In 2017, SSI arranged 34 occupational health and safety training courses, with average training hours of 4.8 hours/person/year. In addition, operating standards of all activities have also been reviewed to ensure that they are up-to-date, practical and can control risks.

Emergency Preparedness and Fire Protection

SSI prepares readiness in responding to emergencies, such as fire, chemical leaks, abnormal condition of boiler and floods, etc. Thus, the Company appointed a subcommittee on fire protection and emergency responses as the main body responsible for overseeing and setting a preparation plan for emergency in the plant. Their works included preparation readiness of staff and ensure that they are adequately by providing trainings so that they can suppress emergency incident in timely manner in order to minimise severity of incident including preparation of readiness of equipment for emergency response. Additional fire prevention equipment has been installed in fire risky areas and new technologies are also considered to be employed to improve the fire protection procedures. The Company always provides training drill and simulation in areas which are prone to have fire danger on continued basis.

SSI has an insurance policy with comprehensive coverage of natural disasters including hurricanes, floods, tsunamis, lightning, landslides, and earthquakes. The insurance covers property and stock damage as well as business interruption resulting from the incident and covers damage due to the risk of fire in all cases.

In 2017, the Company organised 18 emergency drills in all areas. At present, approximately 60% of SSI staffs have attended basic fire protection training courses in accordance with the law. Moreover, fire protection equipment and fire alarm were constantly inspected to ensure that they will completely be readiness and available for usage, consequently, there was no fire accident in 2017.

Safety Management on Raw Materials and Products Transportation

SSI placed importance on safety management on raw materials and products transportation by assigning the working group on cargo transportation control of Sahaviriya Group to monitor performance through Community Leadership Steering Council and Sahaviriya Group's 24 hours Complaint Center. Feedback and complaint will be gathered for improvement. In addition, the cargo control center was set up as a hub to monitor the freight logistic trucks from point of departure to destination, and to receive complaints and suggestions from stakeholders.

It is also required to randomly inspect the compliance of traffic regulations by using CCTV cameras installed in more than 14 points in the community areas including randomly inspected by a the patrol security inspectors in the community area. In 2017, 4,436 transportation trips have been randomly inspected by safety inspectors compared with 4,620 transportation trips in year 2016. The reason for reduction of randomly inspection because work has been transferred to Sahaviriya Logistics Co., Ltd. Randomly inspection time has been reduced the transportation control measures have been increased, such as, the establishment of an Operation Control Center to inspect driving speed in Bangsaphan area through 24-hour GPS, the increase of number of drivers so that they can have more time to rest.

In the year 2017, the rate of severity of the offense on violation of security regulations was zero. The rate of common offenses detected is likely to reduce, and most of them were offences on 50 meter spacing while waiting for a red traffic light, at the crossroads and curves.



Random Traffic Compliance Check for Sahaviriya Group Cargo in 2017
In Bangsaphan District by the safety inspectors

Detail	2015	2016	2017
Number of trips	48,317	44,298	37,488
Number of trips randomly checked by safety inspectors	10,907	4,620	4,436
The number of Type 2 offense (General Offense)	1,635	299	32
Number of Type 1 offense (Severe Offense)	0	0	0

Environmental Management

SSI realises that the steel industry plays a part in contributing to the national development and it requires to use natural resources for its production process, therefore the Company has continued to focus on environmental management to allow sustainable development by strictly adhering to relevant laws of the public sectors and environmental laws, for instance study and prepare environmental impact assessments, comply with preventives, corrective and reduction measures on environmental impact from steel production process including implement environmental quality inspection and monitoring measures. The Company also adopted and complied with the ISO 14001 Environmental Management System since 1999 and it has been continuously certified.

The main task lies with the Safety, Environment and Plant Integrity Management Office which works in co-operation with other production units. The environmental managers, supervisors and operators in charge of the management of pollution, water, air and waste systems have been appointed pursuant to the law. For operations outside the plant, the Company jointly cooperates with other companies in Sahaviriya Group in Bangsaphan district to promote environmental awareness and collaboration between the community and the plant via various activities throughout the year.

Raw Materials and Products Management

SSI imports steel slabs as raw materials from several sources with quality controls in place regarding appropriate standards and customer demands. In 2017, the Company produced 1.319 million tons of hot-rolled steel sheets and 0.155 million tons of hot-rolled steel pickled and oiled sheets.

Energy Management

SSI realises the importance of energy conservation as it is a main factor for steel production and it will have direct effect on global climate change. Therefore, the Company has set up efficient energy management systems to control and optimise usage of energy in the organisation. The Energy Conservation Working Group and the environmental and energy experts work together and act as a center to manage energy conservation via the Cross Functional Teams. Their works performed included implementation of constantly energy saving measures in production process and supporting systems, such as lighting system, water treatment and water supply system. In 2016, the Company has joined various projects to support the investment for modification and improvement of machines and equipment for energy conservation and it also received investment funds in energy saving measures, from changing into LED bulbs.

Apart from complying with energy saving policy, the Company set up the Energy Network Team to support and publicise internal energy saving including to encourage on participation in energy saving tasks throughout the organisation.

The Energy Consumption Rate at SSI Bangsaphan Steelworks in 2017

Process	Energy Usage	
	Target	Actual
Hot Rolled Coil Steel Sheets		
• Heat energy (kcal/kg slab)	332.20	360.37
• Electrical energy (kwh/ton)	110.00	109.37
Hot Rolled Steel Pickled and Oiled Sheets		
• Heat energy (kg LPG/ton coil)	2.95	3.13
• Electrical energy (kwh/ton)	20.00	22.37

Actual results of heat and electrical energy usage for HRC production vary only slightly from the target, mainly due to volume-based. However, heat energy of the hot rolled steel pickled and oiled sheets was in line with the target. Nonetheless, the electrical energy is a little different from the target due to the increase of stability of the production process. In terms of energy conservation measures that have been taken in the past year, it only slightly affected overall energy consumption when compared with total energy consumption of the organisation.

Water Management

In order to manage water usage, the plant uses raw water from the Bangsaphan canal, a huge surface water source which is 13.5 km. far from the plant. The water is pumped into 2.4 million cubic metres water reservoir. SSI will not pump water from Bangsaphan Weir during dry season when water level in the weir is below 2.2 metres. The plant is also designed to recycle water in the HRC production. The water consumption management within the plant can make SSI be able to keep on production process without having the problem of competing for water which is a common resource shared by the community and local agricultural sector. In the past year, the Company has managed to strictly adhere to the set standard.

SSI has set up a chemical water treatment system to reduce levels of waste water which occurs in Hot Rolled Steel Pickled and Oiled Sheets production line and set up sedimentation tanks, sand filters and grease tanks in the HRC production line including set up the biological treatment system for waste water from consumption within the plant. The quality of water in all systems is constantly tested by the officials and verified by the outside authorities. The treated water is recycled and some of which is used to water plants, with zero discharge outside the plant.

In 2017, amount of water used in SSI Bangsaphan Steel works was 0.99 million cubic metres, consisting of - 1) HRC production line rate of 0.22 million cubic metres; 2) Hot Rolled Steel Pickled and Oiled Sheet production line rate of 0.05 million cubic metres and 3) Consumption water of 0.72 million cubic metres.



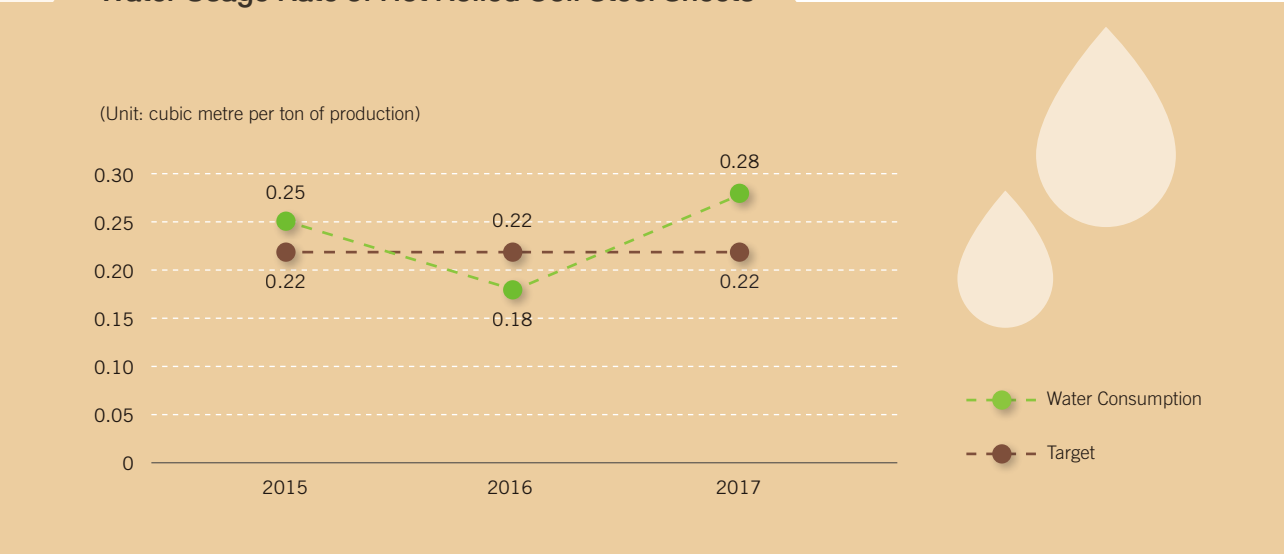
Water Usage of SSI Bangsaphan Steelworks

Production Line	Water Usage (million cubic metres)		
	2015	2016	2017
HRC Production Line	0.28	0.23	0.22
Hot Rolled Steel Pickled and Oiled Sheet Production Line	0.05	0.05	0.05
Consumption Water	0.84	0.70	0.72
Total	1.17	0.98	0.99

The water consumption per ton of production of SSI Bangsaphan Steelworks is as follows:

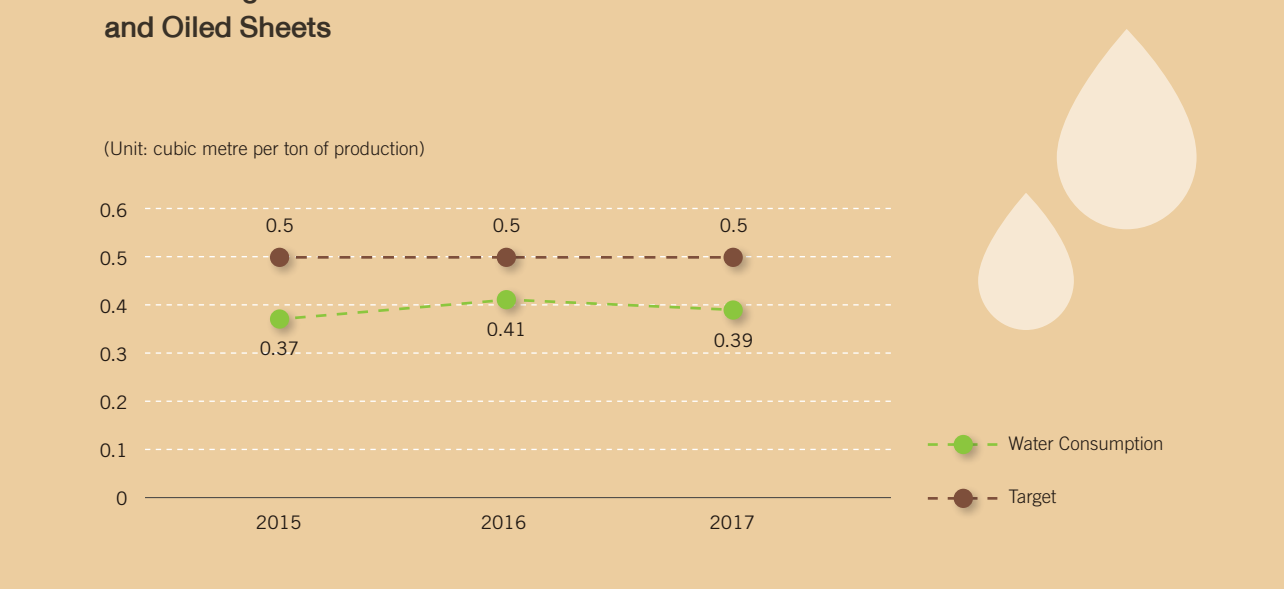
1. Water consumption for production of hot rolled coil steel sheets in 2017 was 0.28 cubic metres per ton of production, which was slightly better than the target of 0.22 cubic metres per ton of production, or increasing by 56% when compared with consumption rate in 2016, which was 0.18 cubic metres per ton of production due to water leakage in the system while production. And the volume increase in the system to reduce the flow in the coolant pipe.

Water Usage Rate of Hot Rolled Coil Steel Sheets



2. Water consumption for production of Hot Rolled Steel Pickled and Oiled Sheets in 2017 was 0.39 cubic metres per ton of production, which was better than the target of 0.5 cubic metres per ton of production, or decreasing by 4.88% when compared with consumption rate in 2016, which was at 0.41 cubic metres per ton of production.

Water Usage Rate of Hot Rolled Steel Pickled and Oiled Sheets



Water Quality Control

Apart from having design process to prevent water discharge outside of the plant (Zero Discharge), SSI also has other water quality control measures within and outside of the plant as follows:

1. Monthly inspection of quality of recycled water at 4 stations carried out by the outside authorised agency approved by the Department of Industrial Works. The outcome proved to be above the waste water standard specified in the Notification of the Ministry of Industry, No. 2 B.E. 2539 (1996).
2. Semiyearly inspection of quality of underground water at 9 stations carried out by the outside authorised agency approved by the Department of Industrial Works. Although Thailand has not yet set the required standard on quality of underground water, SSI maintains vigilance on possible changes and during the past few years and no significant changes have occurred.
3. Semiyearly inspection of quality of surface water in public water resources at 3 stations by the outside authorised agency approved by the Department of Industrial Works in order to ensure that the Company's activities do not affect the environment as detailed in the following chart:



Environmental Performance Index of Surface Water Quality

Index	Unit	Analysis Result						Standard
		Tha Kham Canal		Upper Mae Ramphueng		Lower Mae Ramphueng		
		Apr 2017	Sept 2017	Apr 2017	Sept 2017	Apr 2017	Sept 2017	
pH	-	7.28	7.31	7.65	7.65	7.36	7.21	5.0 - 9.0 ^{1/}
Suspended Solid	mg/l	35.0	30.8	21.7	24.8	39.8	38.7	-
Total Dissolved Solid	mg/l	24,004	19,092	11,874	11,316	34,230	13,074	-
Acidity	mg/l as CaCO ₃	32	24	6	18	15	24	-
Alkalinity	mg/l CaCO ₃	166	140	90	113	117	153	-
COD	mg/l as O ₂	96	57	87	45	105	48	-
Grease & Oil	mg/l	< 2	< 2	2	2	< 2	< 2	-
Total Coli form Bacteria	MPN/100 ml	490	79	170	110	17	350	No more than 20,000 ^{1/}
Iron	mg/l	0.82	0.34	0.59	0.39	0.58	0.87	-
Manganese	mg/l	0.226	0.263	0.086	0.195	0.072	0.249	No more than 1.0 ^{1/}

Note:
^{1/} Standard: Surface water quality standard (3rd Category), Notification of the National Environment Board, No. 8, B.E. 2537

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Usage of Chemicals

Water production systems for HRC production and Hot-Rolled Coils Pickled and Oiled production require several types of chemicals. In the past year, SSI did not introduce new types of chemicals or increase the rate of chemical usage in production. Moreover, according to ISO 14001 and TIS/OHSAS 18001 evaluation, chemical usage management in the plant is in accordance with the set standard. Suggestions for improvement received have already been included in the implementation plan.

Eco-Friendly Supply

In 2017, SSI procured supplies from the 15 eco-friendly product groups, certified by the Thailand Environment Institute (TEI). SSI also supported 3 service providers in heat energy saving projects and 5 service providers in electrical energy saving projects. The goal is to purchase supplies from 17 eco-friendly product groups listed by the Thailand Environmental Institute (TEI).

Eco-friendly Purchasing of SSI Group

Purchasing Year / Type of Product	2015	2016	2017
Products certified by Thailand Environment Institute and are used in SSI Bangsaphan Steelworks	11	15	15
Products in Energy Saving Project	-	9	7

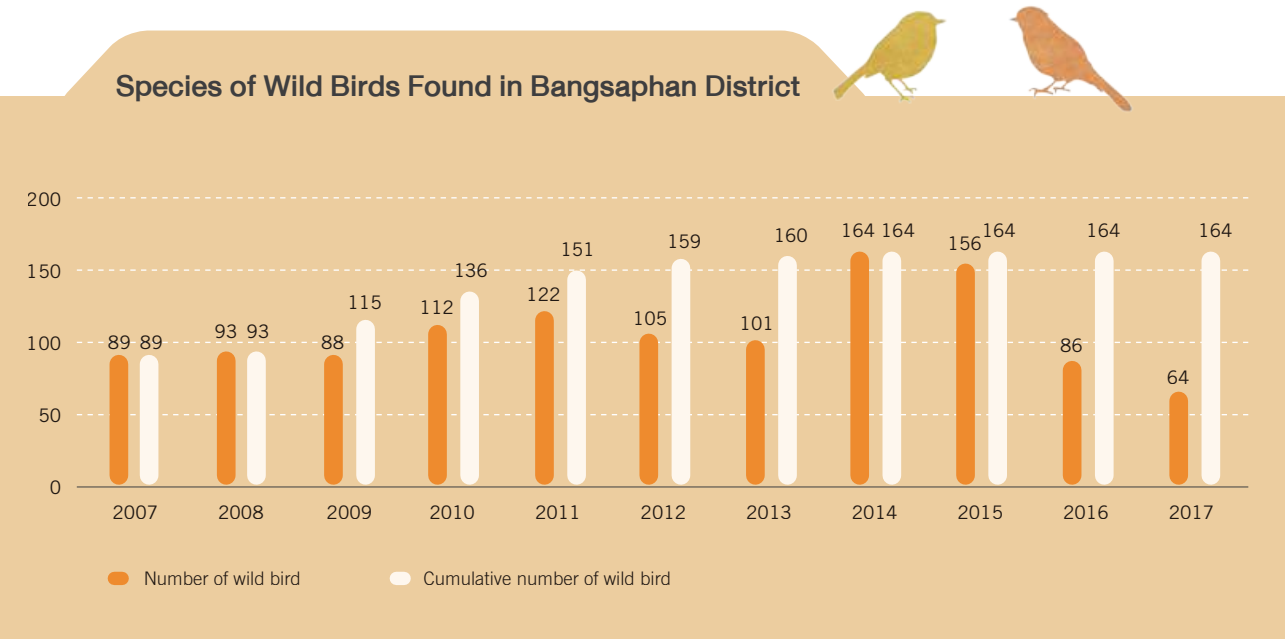
Biodiversity

SSI joined hands with the Environmental Management and Promotion Centre of Sahaviriya Group to conduct biodiversity safeguarding projects which is the major indication on the abundance of the eco-system in areas around our plant in Bangsaphan as follows:

Biotic Natural Resources Impact Monitoring Project

With our determination in performing the business while protecting the environment, SSI by the zoology experts from Kasetsart University conducted surveys of wildlife resources in natural areas near the plant, namely, Mae Ramphueng Wetland, Pa Klang Aow Natural Park and Mae Ramphueng Natural Park continually every year. The survey result on the impact on wildlife resources and environment quality in the areas surrounding

the SSI plant during 22 - 23 September 2017 showed that there are several types of wildlife animals (especially birds) in the area around the SSI plant. The total of 102 species of wildlife animals were found, where 96 specified were found from direct sighting, from clues or from their voices and 6 species were from information obtained from inquiries. They could be classified into 14 species of amphibians, 19 species of reptiles, 64 species of birds and 5 species of mammals. This information showed that the forests around Sahaviriya Group's plants are abundant and are home to a wide variety of wildlife. Therefore, the SSI's steel industry is considered to be environmentally friendly. In addition, SSI also constantly comply with the pollution management standards of its own and of the Sahaviriya Steel Group and it is found that its operation does not affect the livelihoods of wildlife living in natural areas around the plant. It also protects the natural environment and restores biodiversity of the local communities on sustainable basis.



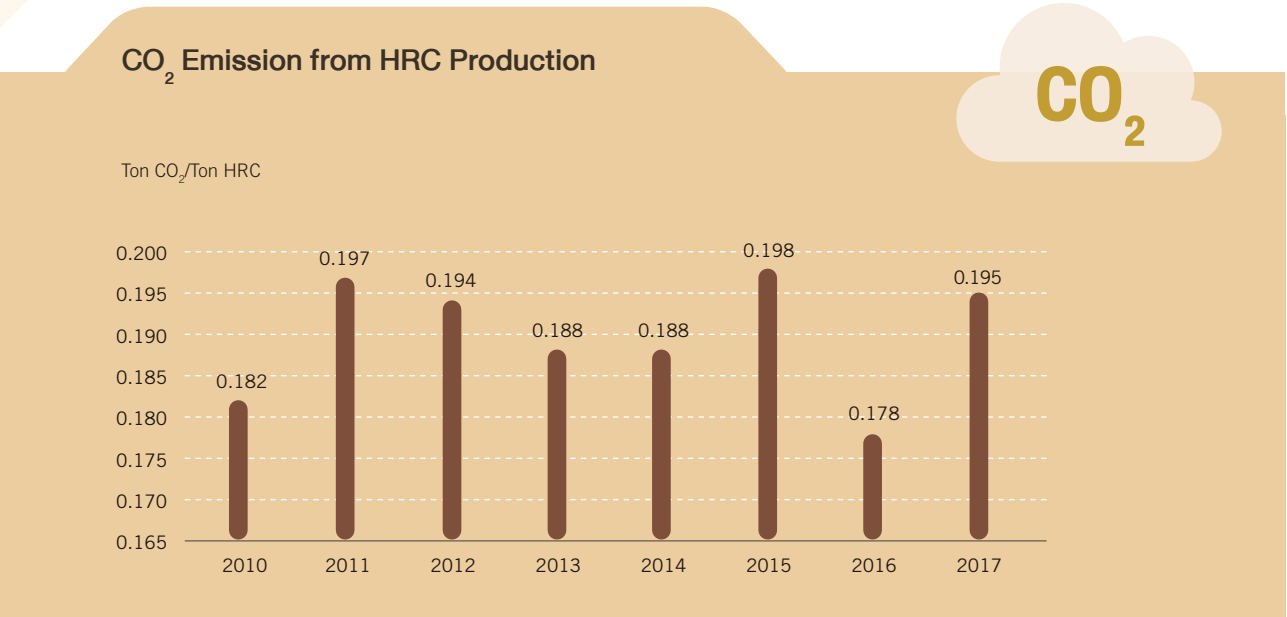
Climate Change Management

SSI is committed to manage greenhouse gases emitted by the Company’s activities by setting up strategy, policy and goal to decrease the greenhouse gas emitted and SSI also continually participated in campaigns and activities with the public and governmental sectors in reducing the increase of global warming. The following activities have been undertaken:

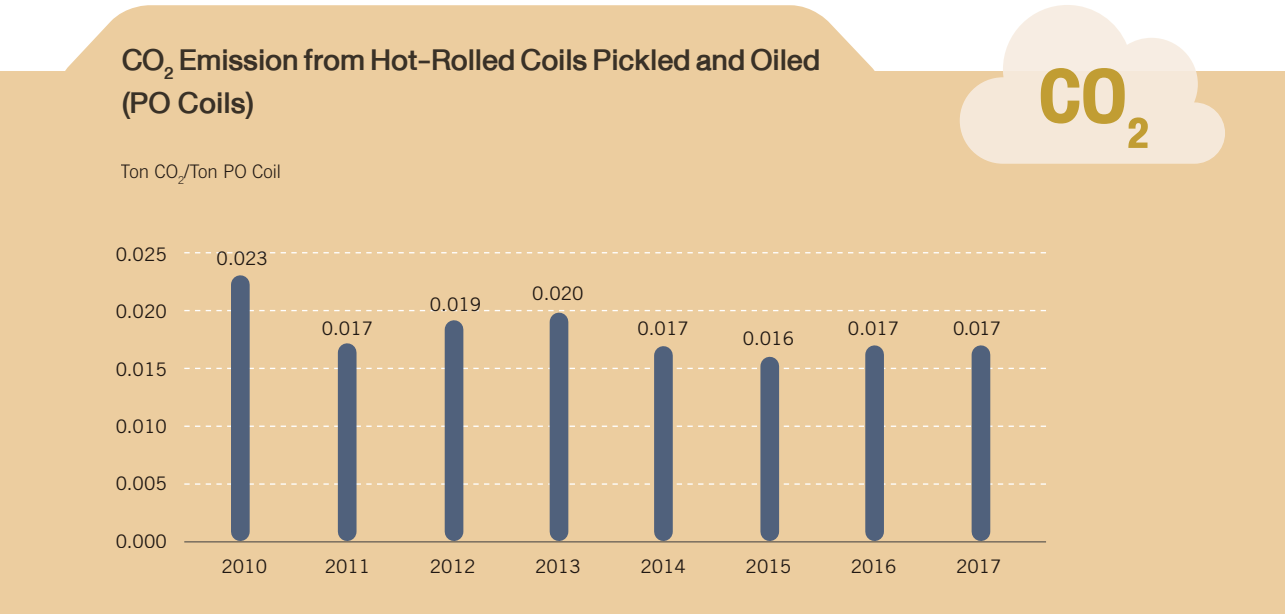
- 1. Increase the efficiency of energy usage to reduce the greenhouse gas emitted into the atmosphere.
- 2. Improve the greenhouse gas inventory of its organisation to ensure that they reach standardisation, which include collecting and documenting data, as well as reviewing the greenhouse gas inventory by the outside bodies.
- 3. Support 3R activities which aim to reduce waste from production process. In 2017, 98.14% of waste could be recycled and reused.
- 4. Support the natural resources and environmental conservation activities of the local community.
- 5. Attend seminars on reducing greenhouse gas, organised by the government agencies with aim to achieve low-carbon society.
- 6. Study about carbon dioxide retention and its usage afterwards.

One of its outstanding works is that SSI has prepared a report on the plant’s greenhouse gas emission which was in line with the ISO 14064-1 standard. This report focused on Operational Control, in accordance to its performance, by collecting data on each type of fuel used and on activities causing greenhouse gas. In 2017, the report showed the results of greenhouse gas emission as follows:

- 1. The greenhouse gas emitted from HRC production in 2017 was 257,634 tons carbon dioxide per HRC ton, increased by 12.7% compared to 228,582 tons carbon dioxide in 2016 due to the increase in production. However when considering from the greenhouse gas emission rate per unit of output, it was found that in 2017, it equaled to 0.195 tons of carbon dioxide per HRC ton, increased by 9.55% compared to 2016, which equaled to 0.178 tons of carbon dioxide per HRC ton.



- 2. The greenhouse gas emission from Hot-Rolled Coils Pickled and Oiled production process in 2017 was 2,591 tons carbon dioxide, while in 2016, the number was 1,972 tons carbon dioxide, or 0.017 tons carbon dioxide per PO Coils ton, equivalent to 0.017 tons carbon dioxide per PO Coils ton in 2016.



SSI’s carbon dioxide emission is used as an indicator for GHGs, in order to plan and implement a future project to reduce greenhouse gas emission as well as to study the guideline on its removals. Target from average carbon intensity in the past has been considered to improve and specify short-term and long-term plans, so that it can reflect real results of the greenhouse gas management. Moreover, appropriate indicators have been analysed and evaluated to specify target value of carbon intensity which are in line with the development plan of the country which determine to become the low-carbon society.

Air Quality Control

SSI Bangsaphan Steelworks was designed for efficient consumption of fuel with the computer-run combustion system controlling the sulphur level in the fuel to not exceeding 2%. All these factors made level of air emission outside the plant better than standard levels and requirements specified in the plant’s environmental impact assessment report.

With regards to the Hot-Rolled Coils Pickled and Oiled production line, acid gas detection systems have been installed both in the production line and the acid treatment plant for recycling purpose. As a result, level of air emission outside the plant is also better than standard levels and requirements specified in the plant’s environmental impact assessment report.

Air quality in the atmosphere around the plant is monitored in various parameters throughout the year. In 2015, 5 stations, namely, Ban Tha Kham, Ban Tha Manoa, Ban Klang Aow, Ban Tubmon and Ban Bor Thonglang were monitored. The air qualities by parameters measured are as follows:

- 1. Hourly average level of density of sulfur dioxide in the atmosphere
- 2. Hourly average level of density of nitrogen dioxide in the atmosphere
- 3. Hourly average level of total suspended particulate (TSP) in the atmosphere
- 4. Hourly average level of density of hydrogen chloride in the atmosphere
- 5. Hourly average level of particulate matter less than 10 microns (PM10)

Inspection results of air quality assessments pursuant to the above parameters of all stations were much better than the set standard. In addition results from the previous inspections of all stations and all parameters measured show similar outcome.

Ambient Air Quality Measured from 5 Stations Around the Plant

Index	Average of minimal-maximal quantity of air found		Standard
	16 – 23 Feb 2017	11 – 18 Sept 2017	
Total suspended particulate (mg/m³)	0.046 - 0.090	0.038 - 0.055	No more than 0.330 ^{1/}
Sulfur dioxide (mg/m³)	0.012 - 0.013	0.010 - 0.012	No more than 0.300 ^{1/}
Nitrogen dioxide (mg/m³)	0.039 - 0.046	0.034 - 0.039	No more than 0.320 ^{2/}
Particulate matter less than 10 microns (mg/m³)	0.021 - 0.040	0.018 - 0.026	No more than 0.120 ^{1/}
Hydrogen chloride (mg/m³)	< 0.001	< 0.001	-

Standard^{1/} : Ambient Air Standards, Notification of the National Environment Board, No. 24, B.E. 2547
Standard^{2/} : Nitrogen Oxide in the Ambient Air Standards, Notification of the National Environment Board, No. 33, B.E. 2552
Remark : < 0.001 is the Detection Limit of HCl
HCl does not have specific standard.

Measured/analysed/controlled by S.P.S. Consulting Service Co., Ltd.
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Air Emission from the Furnace I and II

Index	Result				Standard
	23 Feb 2017	16 May 2017	15 Sep 2017	25 Nov 2017	
Particulate matter (mg/m³)	160	180	149	152	No more than 240 ^{1/}
Sulfur dioxide (SO ₂)(ppm)	300	438	536	498	No more than 800 ^{1/}
Oxide of nitrogen (NO _x)(ppm)	103	102	127	96	No more than 200 ^{1/}
Carbon monoxide (CO)(ppm)	8.2	126	14	11	No more than 690 ^{2/}

Standard^{1/} : Emission standards for steel factory (existing source), Notification of the Ministry of Science, Technology and Environment B.E. 2544
(excess air of 50% and at oxygen of 7%)
Standard^{2/} : Standard of contaminants in air released by the factory, Notification of the Ministry of Industry B.E. 2549 (For production process with fuel combustion)
Industrial emission standard, Notification of the Ministry of Natural Resources and Environment B.E. 2549

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Air Emission from the Furnace III

Index	Result	Standard
	15 May 2017	
Particulate matter (mg/m³)	111	No more than 120 ^{1/}
Sulfur dioxide (SO ₂)(ppm)	254	No more than 800 ^{1/}
Oxide of nitrogen (NO _x)(ppm)	92	No more than 180 ^{2/}
Carbon monoxide (CO)(ppm)	5.3	No more than 690 ^{1/}

Standard^{1/} : Emission standards for steel factory (new source), Notification of the Ministry of Science, Technology and Environment B.E. 2544
(excess air of 50% and at oxygen of 7%)
Standard^{2/} : Standard of contaminants in air released by the factory, Notification of the Ministry of Industry B.E. 2549 (For production process with fuel combustion)
Industrial emission standard, Notification of the Ministry of Natural Resources and Environment B.E. 2549

Measured/analysed/controlled by S.P.S. Consulting Service Co., Ltd.
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Air Emission from the Scrubber PPPL (from the Pickling and Oiling Process)

Index	Result		Standard
	20 Feb 2017	12 Sep 2017	
Hydrogen chloride (HCl) (mg/m³)	0.64	0.67	No more than 200 ^{1/}

Standard^{1/} : Standard of contaminants in air released by the factory, Notification of the Ministry of Industry B.E. 2549
(For production process without fuel combustion, calculated at actual oxygen concentration in emission when measured)
Industrial emission standard, Notification of the Ministry of Natural Resources and Environment B.E. 2549

Measured/analysed/controlled by S.P.S. Consulting Service Co., Ltd.
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Air Emission Quality from Boiler

Index	Result		Standard
	20 Feb 2017	14 Sep 2017	
Particulate matter (mg/m³)	5.4	7.2	No more than 120 ^{1/}
Sulfur dioxide (SO ₂)(ppm)	0.2	2	No more than 800 ^{1/}
Oxide of nitrogen (NO _x)(ppm)	54	53	No more than 180 ^{2/}
Carbon monoxide (CO)(ppm)	1.9	1.5	No more than 690 ^{1/}

Standard^{1/} : Emission standards for steel factory (new source), Notification of the Ministry of Science, Technology and Environment B.E. 2544 (excess air of 50% and at oxygen of 7%)

Standard^{2/} : Standard of contaminants in air released by the factory, Notification of the Ministry of Industry B.E. 2549 (For production process with fuel combustion) Industrial emission standard, Notification of the Ministry of Natural Resources and Environment B.E. 2549

Remark : < 0.1 is Detention Limit of SO₂

Measured/analysed/controlled by S.P.S. Consulting Service Co., Ltd.

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Air Emission Quality from Dust Collector

Index	Result	Standard
	22 Feb 2017	
Particulate matter (mg/m³)	4.9	No more than 120 ^{1/} , 300 ^{2/}

Standard^{1/} : Emission standards for steel factory (new source), Notification of the Ministry of Science, Technology and Environment B.E. 2544 (excess air of 50% and at oxygen of 7%)

Standard^{2/} : Standard of contaminants in air released by the factory, Notification of the Ministry of Industry B.E. 2549 (For production process without fuel combustion, calculated at actual oxygen concentration in emission when measured) Industrial emission standard, Notification of the Ministry of Natural Resources and Environment B.E. 2549

Measured/analysed/controlled by S.P.S. Consulting Service Co., Ltd.

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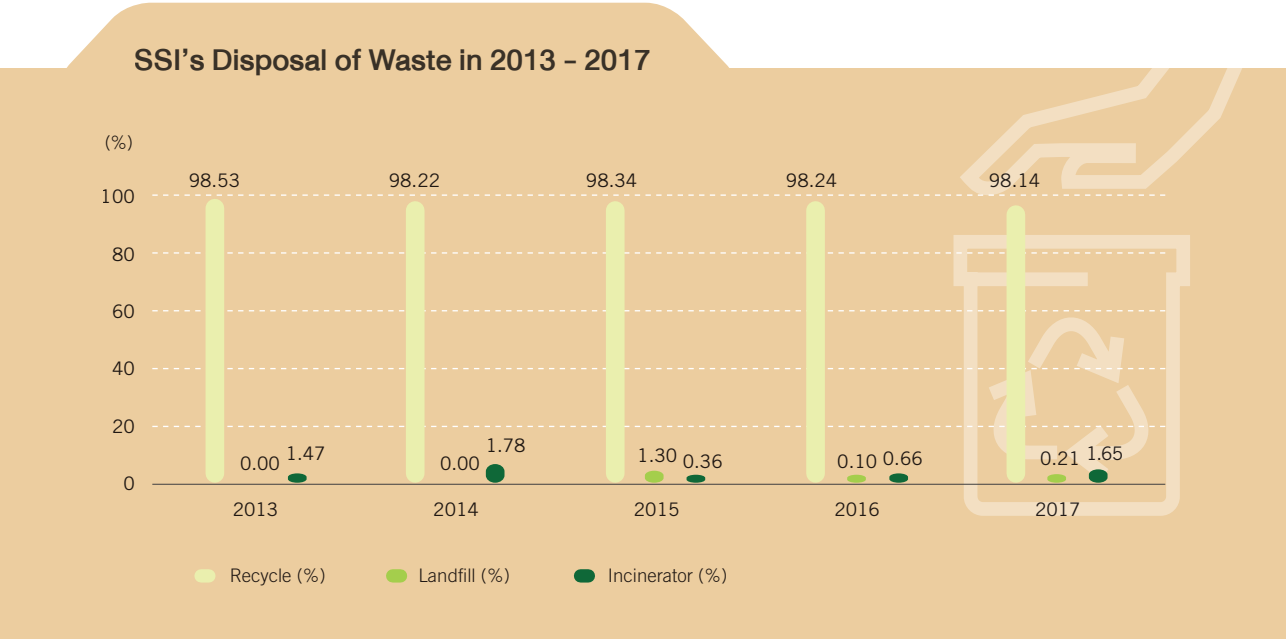
Waste Management

The Company is committed to reduce quantity of waste at source by applying the 3R's – Reduce, Reuse and Recycle.

- Reduce: Reducing waste at source and encourage efficient use of resources such as general waste, waste grease and waste oil, etc.
- Reuse/Recycle: Reusing the waste or re-processing through recycling to minimise waste or maximise its usage, such as reducing contamination of existing oil and recycling waste, change waste disposal method from landfill to recycling for maximum usage and wasted food was used to make fermented bio-extract then distributed to staff.

Moreover, apart from applying 3R's to reduce waste at the original source, SSI also disposes of waste with minimal environmental impact as follows:

- Disposal: Disposal or pretreatment of waste. SSI uses services of well-known waste processor with expertise and certification by the authorised government agency.
- Industrial waste management: SSI employs industrial waste pollution controller, to ensure that the operation has been performed correctly and in compliance with the laws.



In 2017, the total waste amounted to 53,127.15 tons, waste management cost was Baht 4.3 million and sale of 19,484 tons of waste amounted to Baht 28 million. The processes used to dispose waste are by recycle (98.14%), by incinerator (1.65%) and by landfill (0.21%).

Cooperation with External Organisations

The Company intends and voluntarily participates in climate change mitigation projects and activities in partnership with government agencies and key external organisations in 2017 as follows:

1. Two greenhouse gas emission reductions projects (T-VER and T-VETS) In collaboration with Thailand Greenhouse Gas Management Organization (TGO), SSI was involved in the following greenhouse gas emission improvement projects:

a. Thailand Voluntary Emission Reduction Program (T-VER) SSI obtained total carbon credits amounts to 13,032 tCO_{2e}.

b. Thailand Voluntary Emission Trading Scheme (Thailand V-ETS), this project is still continued collaborate into the second year with TGO.

2. Life Cycle Assessment (LCA) Project for Steel Industries Collaborating with World Steel association (Worldsteel), SSI collected data base on the scope of Gate-to-Gate calculation by consideration of the production process. The data SSI supplied is Gate-to-Gate, but the Worldsteel model will connects our information to upstream datasets to give SSI a Cradle to Gate results.

3. Collaborating with Environment & Safety Committee (ESCO) under South East Asia Iron and Steel Institute (SEAISI): Representative from SSI was continuously nominated as ESCO's chairman. The role of ESCO is exchanging our information of environmental technology, energy technology and safety data among member countries.

4. Thailand's Steel Sustainable Development Report: The Office of Industrial Economics (OIE) has prepared a report on the sustainable development of the steel industry. The report includes overview of iron and steel industries, energy and environment conservation development plan, policies, regulations, and measures to be information in drafting criteria for the establishment of a new steel plant. SSI has supported information on energy technology and environment management of iron and steel industries.

5. Benchmarking energy consumption and greenhouse gas (GHG) emissions of iron and steel industries in Thailand is the project that Iron and Steel Institute of Thailand (ISIT) supported by Climate Technology Center and Network (CTCN).



6. Energy conservation measure for iron and steel industries is the project that SSI has drafted energy project to ISIT, in proposing a project to promote and support free investment to Department of Alternative Energy Development and Efficiency (DEDE), Ministry of Energy. This project has objective to promote energy conservation of all 4 groups iron and steel industries including EAF, hot rolled, cold rolled, and coating and pipe, in response policy to energy conservation plan by reducing 30% of energy consumption within 2036.

7. In-depth demonstration project for energy conservation phase 4 subsidized by DEDE, SSI have submitted to receive subsidy for replacement of 5-units heatless regenerative air dryer, that have to use compressed air about 20% in regeneration of desiccant inside air dryer, to 1-unit heat regeneration zero loss air dryer. The new type air dryer can reduce energy consumption of compressed air production due to no compressed air used for desiccant regeneration.

8. Investment support program to modify, improve machinery or equipment for energy conservation (80 : 20) subsidised by DEDE, SSI has been approved for subsidy. There are 3 measures including to replacing LED instead old types of lighting tubes and lamps, replacing high efficiency air conditioners, and replacing a higher efficiency chiller. The Company will be received subsidy at Baht 1.35 million, 20 percent of investment cost approximately, after the project has been finished. From calculation, all 3 measures can reduce energy consumption about 1,042,103.7 kWh or energy cost at Baht 3.43 million. CO₂ emission can be also reduced 757.10 tCO_{2e}.

Furthermore, SSI still joins many projects in energy aspect and reduction of greenhouse gas emissions with government agencies in 2018 e.g. study project of technical and investment support from Japanese government (The Joint Crediting Mechanism, JCM) Implementation of the various projects is to demonstrate commitment and intention to reduce greenhouse gas emissions of organisation and, according to country reduction plan of energy consumption and greenhouse gas emissions.

Green Industry

SSI signed the memorandum of co-operation to develop a Green Industry with the Ministry of Industry as it recognises the importance of co-existence between the industrial community and the social and environmental factors. Under this umbrella, SSI has been certified in the Third Level Green Industry (Green System), due to our systematic environmental management and monitoring for continuous development, since 2011 to 2017. SSI expects that the year 2018 will be certified the Fourth Level Green Industry (Green Culture).

Surveying Local Attitudes and Local Participation on Environment

A survey on attitudes of the community is conducted annually among the communities around the plant. The communities are important stakeholders for SSI because the operation of the plant affects them economically, socially and environmentally in both positive and negative ways. Thus, an attitude survey enabled the Company to understand their perception through community leaders and household leaders on various effects from the operation of the plant throughout the year. It also paves the way to joint decisions through participatory meetings, for example, community leader council meetings and village meeting. SSI has used suggestions from these meetings as a basis to arrange programmes that directly respond to the need of the community and lead to sustainable local satisfaction.

Surveys made in 2017 show that most locals accepted and appreciated that the Company has played a part in improving income generation, better commerce and infrastructure. Such activities included donations for educational purposes, aquatic animal conservation, career development, community-banking and mangrove forest conservation. The top priority was tree-planting, followed by Mae Ramphueng mangrove conservation, aquatic animal conservation, donations for

educational purposes, beach-cleaning, monetary/educational equipment donations for community education, local environment safeguarding, youth camp and other activities.

There are 3 concerns, resulting from the survey in 2017, including traffic congestion 5.3%, accidents from traffic 4.0% and defective transportation routes 1.3%. Top 3 concerns in 2016 were traffic congestion 5.8%, accidents from traffic 4.1% and defective transportation routes 2.2%. Therefore, it could be seen that their major concern was still traffic problem. To alleviate community concerns about traffic issues, the company has partnered with transportation companies by specifying additional measures to monitor and supervise more effectively as follows:

1) Cooperation with the Transportation Bureau, Bangsaphan Industrial and Community Education College and other government agencies involved in order to educate the drivers in maintaining their vehicles, safely driving and 100% compliance with traffic rules.

2) Program to support and train the community personnel to become professional drivers. At the end of the course, they will be offered the opportunity to become employees of the transportation company, which can encourages the local people to have a job and help regulate traffic safety.

3) Provide a rest area for the driver to take a break and be checked for readiness on their health.

4) Increase the capability of the Operation Control Center to inspect the traffic and speed in Bangsaphan area via GPS system 24 hours a day.

5) Support and provide traffic safety equipment to Village security guard/group in Bangsaphan District to help oversee the traffic of general cars and cargo trucks of the Sahaviriya Group.

6) Training the village security guard/group on rescue and assistance skills in case of emergency on traffic or basic fire.

7) Increase traffic monitoring point on compliance with traffic rules of bus transportation by installing 4 additional CCTV cameras along the route in Bangsaphan.

8) Increase the number of drivers so they can drive alternately to get more leisure time under the "TAG TEAM".

These measures are supplemental parts from the routine works, such as time management to release freight car, avoid heavy traffic durations, control not to overload exceed than specified by the law, installation of CCTV, car patrol arrangement, establishment of the Sahaviriya Bus Transportation Fund and Seminar for transport operators.

Social Performance



Creating Customer Value and Fair Operating Practices

SSI recognises the importance of customer satisfaction and its effect on successful business, therefore specific focus is placed on ensuring best practice is achieved to effectively and efficiently respond to customer's needs. Furthermore, fair operating practices with business partners are always carried out in order to create appropriate benefits for both parties. The Company ensures that correct reports and facts are provided to customers and performs in line with contracts and the Company is committed to negotiating appropriate solutions based on business relationships, avoids business conflict situations and adheres to fair treatment.

Innovated Value Products

In 2017, the Company has set up activities to strengthen relationships with customers, particularly in relation to resolving problems, handling customer complaints, and receiving feedback and suggestions. The data from the activities is used

to develop product services and quality to meet the needs of the customers. Activities undertaken included customer visits, meetings with key customers on a monthly basis, annual customer satisfaction surveys, training and providing further knowledge of the company's products. SSI also provided advice and assistance to clients to support them in resolving any problems associated with the Company's products.

Our Innovated Value Products Working Team has carried out these activities to analyse customer needs, by working with the Production Team to drive the development of products and services quality. Improvements made include, controlling product dimensions to reduce customers' loss, specially designing product properties according to customers' requirements and enhancing transportation efficiency to achieve on-time delivery for urgent orders. These will support customers to broaden their performance and expand marketing opportunity. Further important developments are as follows:

1. Developing prototypes of SG High tensile Steel.
2. Developing prototypes of soft materials.

3. Developing IVP, creating value added to customers (You+) for automotive industry and special use customers.

In 2017, SSI had delivered 667,073 tons of Premium Value Products (PVP) which represent 51% of the total sales.

Create Shared Value with Business Partner

Annual seminars with suppliers and service providers were conducted to clarify company regulations, procurement purposes and procurement practices for Sahaviriya affiliated companies. Moreover, the Company has been supporting additional jobs for local suppliers in Bangsaphan district, by purchasing local products from various groups. The Company established Local Market @ SSI Project to support good quality OTOP from the housewife groups in various subdistricts in Bangsaphan district to be sold in the Company. This will help local product to be well-known and increase income for local vendors.

In 2017, the Company purchased products from general vendors at approximately Baht 2,190 million which can be classified as follows: Baht 898 million for energy product group, Baht 238 million for spare parts, Baht 177 million for factory supplies, Baht 179 million for consumable parts, Baht 115 million fixed asset and capital expenditures, Baht 565 million for services, Baht 18 million for others, and Baht 259 million for local purchases in the Bangsaphan community. For 2017, it is expected that procurement costs will be raised up to Baht 2,400 million from general vendors and Baht 280 million from the local community.

Fair Trade Practices

The Company realised about fair treatment with trade competitors by complying with the rules and laws of the government sectors, such as Trade Competition Act B.E. 2560 and the Company would not seek for trade secret information of any trade competitors by using dishonest or unappropriated means and would not destroy reputation of any trade competitors by means of slander. In addition, the Company is the backbone on establishment of The Association of Thai Hot-Rolled Flat Steel where the management of the Company, the management of the trade competitors and trade partners are the committees. All parties held joint meetings and activities regularly and the Company also met with the management of the trade competitors to strengthen good relationship as well as exchange experiences, support as well as drive for fair trade policy and competition through government agencies or other relevant agencies.

Moreover, the Company also played a leading role in promoting cooperation of 7 national steel manufacturing associations, which have totaling 472 companies as members to strengthen steel manufacturers of Thailand by jointly pushing for public sectors' policies in order to drive the national steel industries to 4.0 steel industries.

Innovation, Research and Development

SSI aims to enhance the company competitiveness through research and development work to create sustainable knowledge. This is demonstrated by the fact that the company has been involved to create research for continuous certification from 2006 to present. Up until now there are 90 research and development projects of the company certified, worth more than Baht 64.2 million. However, the National Science and Technology Development Agency (NSTDA) has revised the criteria of certifying research in 2015. In that year the company also faced with financial problems so there has no any research applied for certification since then.

SSI is still continuing support the research and development unit to build up knowledge by giving doctoral scholarship funding to employee in 2006. The research topic of "EFFECT OF STRIP THICKNESS ON MECHANICAL ADHESION OF THERMAL OXIDE SCALE OF HOT ROLLED LOW CARBON STEEL STRIP" was selected to present in the world class research meeting called "HTCPM 2016 (9th International Symposium on High-Temperature Corrosion and Protection of Materials)". In addition, the research topic of "Effects of carbon and coiling temperature on the adhesion of thermal oxide scales to hot-rolled carbon steels" was published in international journal corrosion science, a widely used reference journal for the field of materials science.

In 2017, The Company has awarded 7 scholarships for thesis research in structural steel worth Baht 10,000 each, under the project "Structural Steel Improvement (SSI) for Young Engineers Program 2017 for the civil engineering students from Chulalongkorn University, Kasetsart University, King Mongkut's University of Technology Thonburi and Srinakharinwirot University. The project is aiming to develop engineering students to become engineers who innovate and build up knowledge of industrial structural steel efficiently and environmentally friendly in the future. It contributes to the development of steel industry as well as construction industry which results in sustainability of the country's primary industries.

Anti-Corruption

The Board of Director places a strong emphasis on conducting business under the principles of good corporate governance and social responsibility which is intended for sustainable development. The Company deems that corruption is harmful and causes great damage to organisations and the nation. The Company therefore fully supports the implementation of the anti-corruption policy. As a result, on 22 January 2016, the Company was certified by Thailand's Private Sector Collective Action Coalition Against Corruption Project (CAC) and became a member of CAC. In 2017, the Company carried out several anti-corruption initiatives as follows:

The Company established supervision and control practices to prevent and monitor fraud and corruption risks, which were summarised as follows:

1. Policies and Guidelines on Anti-Corruption

The Company promulgated the policy and guidelines regarding anti-corruption in 2013 and continuously abided by them to confirm its intent and expectations to fight against corruption.

The anti-corruption policy states that Directors, Executives, and all employees are prohibited from accepting or being involved in any type of corruption either directly or indirectly. The Company shall act strictly in enforcing compliance with Thai anti-corruption laws and regulations, and those of each country in which the company conducts its business. The Board also determined that the Company's subsidiaries and its jointly controlled companies shall adopt this anti-corruption policy including any guidelines issued by virtue of such a policy.

The anti-corruption guidelines provide guidance on offering or receiving gifts or entertainment or hospitality activities, granting contributions or donations to charities or common wealth, and political contributions. Guidance on reporting of suspected fraud or corruption is also provided. This policy and guidelines were developed in addition to the "SSI WAY" including the Company's commitment to ethics which is mentioned in business philosophy, integrity which is mentioned in business ethics, employee ethics and values, as well as the ethical conduct for employees on conflicts of interest which is mentioned in the Company's guidelines regarding conflicts of interest.

2. Communication of Policies and Guidelines on Anti-Corruption

The Company recognised the importance of communicating policy and guidelines on anti-corruption. They were communicated by an e-mail and internal newspaper. All employees were able to access to this policy and guidelines which were posted on the company Intranet and also available on the Company's website: www.ssi-steel.com. Moreover, at the annual supplier seminar which is held once a year, the Company's Anti-corruption policy will be communicated to all suppliers who attended the seminar. In 2017, the annual supplier seminar was held in May.

3. Training

The Company has continually provided training to encourage executives and employees to be aware of anti-corruption and to ensure that employees truly understand and can comply with the anti-corruption policy and guidelines. Moreover, a topic on the anti-corruption policy was included in the orientation program for new employees. In 2017, the orientation program was held five times: two for executives and other three for employees.

4. Putting Policies into Practice

The anti-corruption working committee has been appointed since 20 July 2015, to put the anti-corruption policy into practice and to enable the Company to maintain what it has been doing as a certified company of Thailand's Private Sector Collective Action Coalition Against Corruption. This is to express the Board's commitment and intent on Anti-corruption and to ensure that the Company has an anti-corruption measures monitoring, a delegation of power and a clear



responsibility to implement the anti-corruption policy. In 2017, The Anti-corruption working committee studied the Guidelines for Internal Control Measures in Preventing Bribery, issued by the National Anti-Corruption Commission, and compared them with the Company's existing measures to determine what steps need to be taken and develop an action plan.

5. Fraud and Corruption Risk Assessment

The Company assessed risk of fraud and corruption by the risk owner of each division who identified events where fraud and corruption risk might occur in his/her area, assessed the likelihood and impact, reviewed and designed appropriate measures to combat fraud and corruption. The Group Risk Management Office then collected their results and proposed them to the Risk Management Working Committee for consideration before submission to the Risk Management Committee and the Audit Committee for acknowledgement. This is done annually.

The Company determined guidelines on monitoring and evaluating compliance with the anti-corruption policy as follows:

1. Whistle-Blowing System

The Company provided Whistle-Blowing channels for stakeholders to raise concerns about offenses against the law, unethical practices, poor or unacceptable practices, abuse of authority, irregularities, corruption, fraud or misconduct, violations of the company's conflict of interest policy, abuse and disregard of company policy, guidelines, instructions or procedures, fraudulent financial reporting, deficiencies in internal control systems or any action that may cause damage to the informants or the company, without fear of retribution by having measures

to protect the informants or whistleblowers. The Company also provided measures to review or investigate the whistleblower's concerns and the imposition of punishment of offenders. All the whistleblower's concerns that were raised with the Good Corporate Governance Committee were to be tracked and examined, resolved and responded to informers as soon as possible. These were also reported to the Audit Committee for acknowledgement. Moreover, a summary of the Good Corporate Governance Committee's activities were also reported to the Board of Directors twice a year.

2. Internal Audit

The Group Internal Audit Office participated in an assessment to assure and advise on good corporate governance, risk management and internal control. The Company's internal control was assessed by the Group Internal Audit Office together with the management every six months especially the assessment of risk factors relating to misstatements arising from fraudulent financial reporting or misappropriation of assets. The Group Internal Audit Office also developed an audit coverage plan and an annual audit plan using a risk based approach including fraud and corruption risk. The audit engagements were conducted following the annual audit plan that has been approved by the Audit Committee and the audit results were reported to the Audit Committee.

3. The self-assessment and monitoring for compliance with Business ethics and Employee ethics

In December 2017, the Company surveyed its employees about their perceptions and compliance with the Company's Code of Conducts including Business ethics and Employee ethics by using the self-assessment questionnaire as a tool. Not only the perceptions and compliance with the Company's code of conducts but also the anti-corruption policy was also surveyed. The objectives of the survey are to improve the effectiveness of internal communications to ensure employees understand the Company's Code of Conduct and anti-corruption policy and to monitor and assess employees' compliance with them.

Human Resources and Right

The Company recognises the importance of human resources that they are essential to the organisation's business success. We have determined the appropriate structure of employment, compensation and benefits, personnel development and the Company has continued the Care Organization Project to promote activities related to employees and their families, creating efficient collaboration and working relationships between employers and employees. The project supports employees to achieve an appropriate work life balance by considering their personal life and family. In addition it encourages employees to demonstrate good values and act as role models.

Employee Structures

In 2017, SSI employed 1,154 people; 187 at the Bangkok office and 923 at the Bangsaphan Steelworks. The employee structure recognises levels of employee as follows:



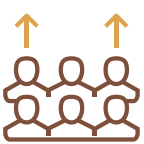
Executive
47 people



Managerial
192 people



Supervisory
457 people



Operational
458 people

SSI Group Employee

SSI Group employee level	SSI	TCRSS	WCE	PPC	Total
Executive level	47	8	3	0	58
Managerial level	192	66	32	3	293
Supervisory level	457	210	138	31	836
Operational level	458	572	233	52	1,315
Total	1,154	856	406	86	2,502
Outsourcing	146	121	158	0	425

(Number of Employees of SSI Group: as at 31 December 2017)

Employment

The Company has a policy to encourage employees to consider promotion and rotation of roles. The policy looks to appoint internal employees into roles who have the appropriate knowledge and qualifications. If there are no suitable current employees for a required role, the Company will recruit potential external candidates. Recruitment policies are open to all genders, races, religions, ages of 18 years and over, providing the person is appropriately qualified and competent. The Company conducts interviews with fairness and effectiveness in recruitment and selection. In 2017 the Company had 188 job vacancies with 405 potential candidates and 170 people were successfully recruited into these roles; 138 newcomers and 32 transferring employees within organisation. As for the underprivileged, there are limited positions because of job characteristic. The Company also has contributed to the Empowerment of Person with Disabilities Fund through the improving quality of life of people with disabilities.

Employee Development

The Company has developed competency based guidelines to recognise talented staff and support the development of staff according to the SSI Way. In 2016 SSI has arranged training courses as follows:

Training and Development of SSI Staff in 2018

Guideline	Method	Outcome in 2017
On-the-Job Training (OJT)	Set standards of necessary knowledge and skills to different tasks and assigned supervisors to coach and train staff to enable them to perform in accordance with the knowledge and skill levels required. The supervisors will regularly monitor the outcomes and performance.	373 people
In-House Classroom Training	Core Competency Training Course Managerial Competency Training Course Functional Competency Training Course Productivity Training Course Occupational Health and Safety Course Effective Teams Management Training Course Anti-Drugs Courses	127 courses 177 courses 1,086 participants Average training period 17.42 hours/person/year
Employee Development - talented and good staff through the SSI Way	Company Value (iFacts) Knowledge and Awareness	16 activities 953 participants
Domestic and Overseas Training	Appoint staff to undertake training courses held by external organisations, both domestic or based overseas	139 courses 261 participants Average training period 11.57 hours/person/year
Acknowledge the Annual Division Goal Program 2017	Managerial level executives and upwards were informed about policy and strategies through Goal Program Presentation, by each division.	180 participants (Managerial and above level)



Welfare and Benefits

SSI places a focus on the welfare and benefits of employees and complies with the relevant legislation on employment such as leave days and holiday leave. Moreover, the Company provides the following welfare and benefits appropriate to the relevant working conditions:

- Annually 2 uniforms
- 5-route transportations for staff in Bangsaphan to travel into the office
- Monetary support for staff who live outside of the Bangsaphan district area
- Free rice and inexpensive food for staff
- Upcountry allowance for staff who work at Bangsaphan Steelworks
- Travelling allowance support for employees who work in other locations and overseas
- Shift allowance for shift workers
- Provident fund for employees on retirement
- Internal sport, Sport Day and Anti-Drugs Sports
- Organises “Staff Health Week” campaign to support staff to learn to take care of their health
- Organises Drug Free Workplace Project to protecting and solving drug problems in organisations



- Organises lectures on HIV/AIDs
- Health and life insurance and travel insurance for overseas business trip

Employee Relations

The Company recognises the importance of building relationships between employees and management to create an effective work environment and to provide employees with a balance between work life and family life (Work Life Balance). The Company has therefore maintained the “Care Organization” project which has included the following activities:

- Meet Management: The following activities have been put in place to establish a relationship between employees and management:
 - Annual policy statement: President informed managerial level staff about the strategic plan and company policies.
 - Goal Program Presentation: Managers and above reported their annual plans twice a year to support the company strategy and business plan. This allowed other managerial staff to share their plans and received comments and suggestions for improvement from the Management Committee.
 - Announce Division Annual Strategic Plan: Each management division presented to their staff the division strategy to create awareness and improve all employees understanding.
 - Executive meeting and participate in activities together: Management have visited the plants to participate in company activities such as sport, voluntary work, blood donations and merit in the New Year. These activities supported the Company's agenda to promote talented and good staff through the SSI Way and Promoting Corporate Value activities.
 - Increasing the well-being of employees and their families: Project activities have been set up such as Happy Family Project for 120 families, Family Day, Children’s day and Volunteer Project for on fire and flood disaster.
 - HR Clinic: The Company arranged HR consulting staff to advise employees on any HR queries, for example company rules & regulations, salary, personal tax, etc.

Creative Internal Communication

In order to build good relationships and encourage understanding between the organisation and all staff levels, SSI focuses on creative internal communication via many channels as follows:

Communication Channel	Objective	Outcome 2016
<ul style="list-style-type: none">• Message from Group CEO• President and Management (interviews with executives and publish on the intranet and internal TV)	To inform and make all staff aware of policies, operation directions and major performances of the Company directly from Group CEO and President and the Management.	5 times
Goal Program Presentation	To allow all staff of managerial level and upwards to acknowledge and share their opinions on the direction and business operation. This is performed for the Company in overview and for different departments to allow clear communication between teams.	2 times
Voice on the Line	To provide information to staff directly from the management team to help them understand the business vision or related operation.	5 days/week
Morning Talk (monthly/weekly)	To allow managers and staff to have a two way communication system to update on news related to the company and to solve any work issues.	1 day/week
Face to Face Workforce Visit	To visit staff at their operational locations to provide information and news about activities being held in the Company as well as asking them for their opinions and suggestions.	5 times
Employee Relations staff visit shift staff at their workplace	To visit night shift workers at their workplace and gain their opinion and provide them suggestion.	12 times
Welfare Committee	To communicate employees' requirements to the management team and strengthen the relationship between executives and staff.	4 times
Electronic News Letters	To publicise updated information and activities of the Company. The newsletter includes completed and future projects to provide useful information related to daily life and health.	472 times
SSI Way Understanding Activities	To help employees learn and understand the “SSI Way” which are the values that the Company encourages staff to demonstrate - “good person”, “talented person” and “qualified person” who will help develop both the organisation and the society.	12 activities
Internal TV	To distribute major information to all staff quickly	33 times
Communication via Social Media (Facebook, Page-SSI Employee Relations and Welfare)	Social media is used as a two way communication tool to inform staff about updated information regarding the organisation. The communication can be made via both the internet and smart phone.	283 messages

Social Capital and Community Development

SSI has continuously focused on social and community development on sustainable basis in order to strengthen its stakeholders by adhering to three fundamentals: creativity, stakeholder engagement and operation efficiency. In 2017, the Company operated 50 social and community development projects (inclusive of 26 SSI Arsa projects), which could benefit 26,971 stakeholders. These projects are divided into two parts: 1) Social capital development which emphasises on strengthening the underprivileged; and 2) Community development which emphasises on 4 aspects: education, environment, occupation and income, good quality of life as well as religion and local culture support.

Social Capital Development

Thailand Iron Man Mini Marathon 2017

The Company, with co-operation with steel industry partners, namely, Thai Cold Rolled Steel Sheet PLC (TCRSS), NS-Siam United Steel Co., Ltd. (NS-SUS), NS Blue Scope (Thailand) Limited (NS Blue Scope) and JFE Steel Galvanizing (Thailand) Co., Ltd. (JSGT) arranged “Thailand Iron Man Mini Marathon 2017” at



Lumpini Park, on Saturday, 16 September 2017. There were more than 1,400 participants for this year event which could raise fund of Baht 2.38 million to support organisations for the underprivileged. This event which arranged for 10 consecutive years could raise fund more than Baht 24 million in total.

Community Development

In 2017, SSI has carried out 49 community development projects which reflected the Company's commitment to be the good citizenship and to earn trust from Bangsaphan locals and stakeholders with ultimate objectives to build up strength to the community and the society to live their lives with happiness. These community development activities of SSI focused on engagement from everyone, including SSI staff, locals and related organisations in the following aspects: education, environment, occupation and income, good quality of life, religion and cultural support and “SSI Arsa,” public mind project development among SSI staff.

Jointly Developing Quality of the Community Education

Sahaviriya Funds for Bangsaphan Educational Development

Sahaviriya Funds for Bangsaphan Educational Development Project emphasised on development of quality of education in Bangsaphan District in 3 dimensions (school, teacher and student). The project which commenced since 2011 has conducted in batch and each batch continued for 3 consecutive years, with co-operation from the Office of the Basic Education Commission (OBEC) and from the Office of Prachuap Khiri Khan Primary Educational Service Area Zone 1. In 2017, this project has publicised to 37 target schools in 7 Sub-districts in Bangsaphan



District to participate in “2017 Sahaviriya Funds for Bangsaphan Educational Development Project (6th Batch) for excellence pursuant to guidelines on sustainable development and 9 schools were qualified to be supported from the project.

In 2017, the efforts of the project at 6 local schools (the 3rd - 6th Batch) began to yield fruitful results. Four schools, such as Bangsaphan School, Ban Nong Chan School, Ban Wangyao School and Ban Thong Mongkol School, have demonstrated impressive results, as their average results for the Ordinary National Educational Testing (O-NET) were 47.20%, 45.91%, 43.74% and 42.70%, respectively, which were higher than average result of 41.42% of the Office of the Basic Education Commission (OBEC). While the other 2 schools, i.e. Bangsaphan Kindergarten and Ban Wang Num Khiew School which have just received scholarship began to follow the plan for the first year.

Technician Potential Development for Steel Industries

The Company has collaborated with the Office of the Vocational Education Commission (VEC) and Bangsaphan Industrial and Community Education College under the “Technician Development for Steel Industries Project” for joint development and improvement of curricular at vocational certificate and high vocational certificate as well as development of potential of technical students to be in line with requirements



of steel industrial groups and continual industrial groups. This project has been undertaken for 10 years and has about 600 technician graduates in 4 fields, i.e. industrial technical, industrial mechanical technical, electrical technical and warehouse management. Out of this number, 166 people are now working with Sahaviriya Group. In addition, this project becomes a model on formulation of dual vocational training (DVT) between the vocational education college which is a government sector and Sahaviriya Group, a private sector.



SVG Annual Scholarships

In 2017, the Company and Sahaviriya Group provided 259 SVG Annual Scholarships, worth Baht 625,000 to local youth in 22 schools in Bangsaphan District who have determination to study but have economic difficulty, with details as follows:

- 249 scholarships for primary school – high school students, Baht 275,000 worth,
- 2 continuous scholarships for bachelor's degree students, Baht 70,000 worth,
- 8 SVG's Scholarships for Excellent Education Development (SVG SEED) for local youth who will continue their study in becoming teachers and come back to develop their community, Baht 280,000 worth.

Moreover, SSI staff also provided 164 additional scholarships, “Tun Nee....Phue Nong”, Baht 202,500 worth.

Local Curriculum Development Project

SSI has joined with the local schools and local people in setting up the Local Curriculum Development Committee to apply learning process which are in line with social context in the locality for sustainable development of quality of life and environment as well as to create actual participation through study courses taught by 9 SSI volunteer teachers who have keen expertise in this field. The topics which are taught to 185 students in Pratom 4 to 6, totally 22 hours in a year, are “Steel in daily life” and “Steel industry and community development”.

Furthermore, in 2017, this project was expanded to one additional school, Ban Ao Yang School, and teaching activities has been organised continuously in participating schools: Wat Ban Na Phak Khung School, Ban Chamuang School, Ban Don Sumran School and Ban Tha Kharm School. The project has been run since 2012 and to date, there are 5 schools participating in the project.



The 12th To Be Engineer Project

SSI arranged a study camp for 100 Mattayom Suksa 5 students to learn about steel industry, under “the 12th To Be Engineer Project.” The activities under the project included provision of knowledge on steel industry, hot rolled steel production process, environment management of SSI and recreation activities. The students also have been guided on concept for further study in engineering in steel related field, as well as stimulated them on choosing their education plan, so that they can work in and develop their locals in the future.

Sufficiency Economy School for Sustainability Project

SSI recognises the importance of His Majesty the King Rama IX's idea of Sufficiency Economy, therefore, Sufficiency Economy School for Sustainability Project was launched in Ban Nongchan School, Ban Don-Samran School, Ban Na-Pukkuang School and Bangsaphan Non-Formal and Informal Education (NFE) since 2012. The project has been run continuously to date.

In 2017, the project was expanded to include Ban Tung Chueak School, Moo 10, Ron Thong Sub-district, Bangsaphan District, Prachuap Khiri Khan Province. There were various operations for sustainability: a model school visit; meeting with executives, educational personnel and school committees and village meetings to create involvement, resulting in shared value between the Company, the schools and the communities through the schools' activities of sufficiency economy. About 122 students benefited from this project.



Young Agriculturist Project (Hydroponics) for School

This project has been built on Young Agriculturist on Hydroponics System Project which was launched in 2012 by SSI. At present, there are 5 schools in Bangsaphan District participated in the project, namely: Ban Tha Kham School in Moo 4, Mae Ramphueng Sub-district, Ban Morasuab School, Moo 3, Chaikasem Sub-district, Ban Huaysai Khao School in



Moo 5, Kumnerd Noppakhun Sub-district, Ban Suan Luang School in Moo 9 Phongprasart Sub-district and Ban Tongmongkol School in Moo 6, Thong Mongkol Sub-district. There were 1,623 students who received benefits from the project during the past year as they can learn to practice business skills including production, management and marketing skills. In addition, the vegetables they planted were used to cook in School Lunch Project and the rest were sold to their parents and the community. The participating students can also have additional income as well.

In 2017, SSI expanded this project to Ban Chamuang School in Moo 3, Phongprasart Sub-district, where there were 121 students benefited from the project. The Company also strictly monitored and supervised 5 participating schools, by focusing on efficient project management, increasing of business skill for students and creating new generation of young agriculturist. Moreover, older generations will teach younger generations to ensure that the projects will be continually taken care and on sustainable basis.

Youth Council Project

This Youth Council Project, which has been firstly introduced in 2012 at Ban Don Sa-nga, focused on life skill development management for the youths, by the Youth Council. The youths will be prepared and learnt in various aspects, such as potential development and cultivation of public awareness of their own communities, alternative career promotion and saving promotion in order to develop their communities and make them better places to live. In 2017, Ban Don Sa-nga's Youth Council has presented a project on provision of training and knowledge on joint career group collaboration, area development activities of the youth and prevention of depressive disorder among the elderly people to the Prachuap Khiri Khan Province's Social Welfare Promotion and this council has awarded a supporting fund of approximately Baht 42,000.00.

This project also expanded its network by arrangement a dialog to exchange idea between the consultants, Ban Don Sa-nga Youth Council and Ban Huay Kreab Youth Council of Bangsaphan District and Office of Social Development and Human Security of Prachuap Khiri Khan to summarise the lessons learnt and development guidelines of youth council in participatory and self-reliance means which could lead to sustainable development.

Career Development to Strengthen Household Economy

SSI has been supporting the agriculture development to help generate more income for local agriculturalists and housewife groups as follows:

Community Bank Project

This project is about participatory development of quality of life on sustainable basis by jointly conducted with 19 villages in 4 sub-districts located surrounding the plant, in supporting and enhancing the communities to establish 18 community banks. As at 31 December 2017, total funds amounting to Baht 28,142,393 and 3,282 project members could enjoy the benefits. In addition, 9 community leader councils have been established to manage their own communities on participatory basis.

In order to make such project sustainable, in 2017, the Company has conducted in-depth development activities to strengthen potential and uplift the community bank committee, which consisted of arrangement of workshop, computerised accounting system, data collection, public speaking, training, including establishment of community enterprise group so that the community banks will have more channels to further develop business, generate more income as well as become the trade partners with Sahaviriya Group.



Furthermore, the Company also closely monitored and assessed performance of the community banks and the results gained were that 16 banks were ranked in excellent level and 2 banks were in good level. In 2017, the Company also provided contribution fund to 4 community banks for the 3rd year, namely Community Bank of Ban Nong Taja, Ban Thungnun, Ban Sonsung and Ban Nongrawang.

Community Leader Council Project

The objective of this project is to encourage the community people to establish the community leader council to manage their own communities jointly with other associates networks, agencies of public sector, including Sahaviriya Group. During 2017, the Company undertook 2 important missions; the 1st one was Community Leader Development Activity, by asking the community leader councils to write a project to request for the fund to develop and strengthen their own potential to be the model community leader council in the future. There were 5 out of 7 community leader councils interested and participated in the project then after presentation of each project in the forum, 4 community leader councils from Ban Raharn, Ban Chamuang, Ban Marong and Ban Nongrawang passed criteria by the Committee. Each council received a fund of Baht 30,000, totaling Baht 120,000 from Sahaviriya Group. The other one was the 2nd Model Community Leader Council for the year 2017 by asking the community leader councils to write a project to request for the fund to develop and strengthen their own potential to be the model community leader council and a learning center of which 2 community councils, Ban Faitha and Ban Tangsai, interested in this project. Such plans then presented in the forum and both councils were selected and granted fund amounting to Baht 50,000 each, totaling Baht 100,000.

“Sahaviriya Ruam Pattana” Project and Participation on Associate Network Activities

The objectives of this project are to open opportunities to the agencies or communities which have been jointly participated in development activities with Sahaviriya Group to arrange exhibitions or display their works to disseminate to the public as well as to arrange the forum to exchange knowledge with each other. There were 24 exhibition booths with 400 people participated in this event.

In addition, the community leaders have also been invited to participate in various activities, i.e. training, seminar and exhibition with external associate networks, i.e. TV Burabha Co., Ltd., Moral Promotion Center (Public Organization), Crown Property Bureau, and etc.

Increase Locals Hiring from the Community

In order to comply with the policy on promoting local workforce employment, so that the local people from Bangsaphan District and surrounding areas do not have to migrate to other provinces to work and search for income, as of 31 December 2017, SSI Bangsaphan Plant employed 2,502 employees of which 1,511 of them or 71.85% have domicile in Prachuap Khiri Khan Province. In addition, 425 outsourcing employees were also employed.

Purchase of Products and Services from the Community

SSI purchased local products from various career groups in Bangsaphan District, with total value of approximately Baht 190 million and it is expected that in 2018, the number will reach Baht 200 million.

Safeguarding and Upgrading the Environmental Quality

SSI puts strong emphasis on environmental and natural resources responsibility. Apart from supervising the production process to ensure that pollutant emitted from the production processes will not have any negative impact to quality of life and occupational health of the employees and the community peoples, the Company also collaborated with relevant agencies to create environmental awareness promotion and campaigns. Up to present, there are 3,953 people participating in environmental conservation activities.

SSI Beach Clean-Up

SSI executives, staff, together with students, hotel and business sectors and people in Bangsaphan District participate in

“SSI Beach Clean-Up Project” as a part of the World Environment Day, on 5 June of every year, to support the United Nations Environment Programme (UNEP) (this year topic: “I’m With Nature”). This project which has been arranged for 9 consecutive years aimed to encourage everybody to realise the value of beauty, importance of nature and environmental conservation and to collect littering garbage on Mae Ramphueng Beach in Mae Ramphueng Sub-district, Bangsaphan District, Prachuap Khiri Khan Province covering areas of 3 kilometres. For this year, there were 815 people participated and about 2,670 kilograms of garbage could be collected.





Bangsaphan Car Free Day

SSI joined forces with Sahaviriya Group to arrange 2 bicycle ride trip projects. The “Bangsaphan Car Free Day 2017” which has been conducted on 24 September 2017 has been arranged for 7th consecutive years with aim to raise awareness of global warming among people in Bangsaphan District, reduce energy usage and support bicycle riding for good health. The 12-km bicycle ride trip attracted 428 people to cycle from Bangsaphan District Office to Mae Ramphueng Sub-District Administration Office. At the same time, Bangsaphan people were encouraged to stop using motorised vehicles for 30 minutes from 8.00 - 8.30 AM. This activity helped reduce 1,915.68 kgs of carbon dioxide equivalent. Combined amount of carbon dioxide emission reduction resulted from this activity since 2011 to date totaled 18,898.48 kgs of carbon dioxide equivalent.

Moreover, SSI and Sahaviriya Group also arranged Ride for Smile Project, a project under Two Wheels Preserve Bangsaphan Project, to encourage people in Bangsaphan District to join bicycle trips for good health, reduce energy usage and create social contribution. In 2017, Ride for Smile Project has been held three times with total 241 participants and they could help reduce approx. 1,779.16 kgs of carbon dioxide equivalent.



Cycling Trip to Plant Trees to honor His Majesty King Bhumibol Adulyadej The Great

SSI collaborated with local people in Bangsaphan District to arrange a “cycling trip to plant trees to honor His Majesty King Bhumibol Adulyadej The Great” to help increase green space and also raise awareness among local people to realise the importance of tree planting and energy reduction usage.

Six cycling trips to plant trees have been arranged: Tham Kiriwong Temple in Thongchai Sub-district; Tung Kee Tai Mount in Phongprasas Sub-district; Khaowong Cave in Kamnerd Noppakhun Sub-district; Tung Tub Tong Abbey in Ronthong Sub-district; Ban Chamaung's public area in Pongprasart Sub-district; and Ban Nongtaja's public area in Kamnerd Noppakhun Sub-district.

Sahaviriya's Earth Day Activities

The Company and Sahaviriya Group together with community leaders of Thongchai Sub-district, Ao Noi Fishery Suppression and Prevention Unit and Bangsaphan Noi Fishery Suppression and Prevention Unit participated in natural conservation and environment development activities on the occasion of Earth Day. During the event, 1,123 people who are government officials, company employees and Bangsaphan people jointly released 3 million blue crabs and black tiger



shrimps into the sea and collected garbage and cleaned the beach at Ban Pakklong, Moo. 2, Thongchai Sub-district, Bangsaphan District, Prachuap Khiri Khan Province. The objectives were to increase abundance of coastal resources, food sources and income sources for the local fishermen as well as to sustainable restore the marine environment.

SSI Waste Bank Project for Educational Institutes

The Company has been arranging SSI Waste Bank Project for Educational Institutes since 2008. There were 8 schools in Bangsaphan District participated in this project, including Ban Suanluang School, Bangsaphan Kindergarten, Ban Nai Lock School, Ban Nong Yahphlong School, Ban Morasuab School, Women Secretaries 1 School, Ban Klongloy School and Nong Chan School. In 2017, SSI arranged waste bank school network seminars for 8 schools and waste invention competition with aims to strengthen knowledge, understanding and awareness to the youth on taking part in managing and solving environmental problems, allowing them to express their creativity. This is one of environmental projects that SSI jointly performed with the youth on continued basis.

Additionally, SSI Community Relations Team joined forces with the Office of Prachuap Khiri Khan Primary Educational Service Area Zone 1 to supervise and assess the project continually. Results found that this project brought significant change to the project areas. Each of the participating school has received the fund of Baht 3,000 from the Office of Prachuap Khiri Khan Primary Educational Service Area Zone 1 to support Zero Waste School project, focusing on building consciousness of waste management in schools.

Youth Conservation Camp

SSI, in cooperation with the Prachuap Khiri Khan Primary Educational Service Area 1, organised Youth Conservation Camp for primary school students (Prathom 5) from educational institutes in Bangsaphan District annually. The project aimed at instilling green heart among local youths, by arranging various activities. This project has been held for 11 consecutive years, with 1,027 junior conservationists, in total.

In 2017, SSI organised the 12th Youth Conservation Camp on 16 - 18 November 2017 at the Environmentalist Camp, Ban Thakham School, Moo 4, Mae Ramphueng Sub-district, Bangsaphan District, Prachuap Khiri Khan Province. There were 109 students from 22 schools who joined this camp and participated in 7 learning stations in Pa Klang-aow Forest Park, Mae Ramphueng Beach and at Ban Thakham School. Moreover, bird-watching activity and activity to cultivate volunteer spirit to conservationists have also been organised, for instance, they were asked to participate in garbage collecting along the road around Pa Klang-aow Forest Park together with officers of Mae Ramphueng Sub-district Administration Organization and officers of Pa Klang-aow Forest Park.





Follow Footsteps of His Majesty King Bhumibol Adulyadej The Great's Project

The Company and Sahaviriya Group joined hands with the community leaders of Phongprasart Sub-district, Ao Noi Fishery Suppression and Prevention Unit, Bangsaphan Noi Fishery Suppression and Prevention Unit and the 8th Mangrove Forest Development Station (Prachuap Khiri Khan) arranged activities on plantation of 999 mangroves, release 9 million young aquatic animals and collect garbage at Pakpid Beach. There were 1,069 people who are company employees and Bangsaphan people participated in these activities. The objectives of these activities were to inherit and follow the ideas of His Majesty King Bhumibol Adulyadej The Great in conserving natural resources and environment as well as to restore abundance of coastal resources of Bangsaphan District, increase food sources and income sources for the fishermen in the communities at Klong Pakpid Conservation Tourism Location, Moo 1, Ban Faitha, Phongprasart Sub-district, Bangsaphan District, Prachuap Khiri Khan Province.

Cultural and Religious Promotion Activities

Activities on Elders Day

The Company took part in 2017 Elderly Day Activities in Mae Ramphueng Sub-district. These activities which aimed to preserve cultural traditions and express gratitude to the elderly included sprinkled water onto a Buddha image, poured water onto the elderly' hand, arranged recreation and exercise activities for the elderly. There were 349 elderly people participated in these activities which were held at Mae Ramphueng Sub-District Administration Organization Hall, Bangsaphan District, Prachuap Khiri Khan Province.



National Children's Day 2017 in Bangsaphan

SSI supported activities on National Children's Day together with Kamnerd Noppakhun Sub-district Administration Organization and Radio Thailand at Prachuap Khiri Khan at Bangsaphan Kindergarten, Ban Suanluang School and Wat Napukkuang School.

SSI Arsa Project

"SSI Arsa Project" is a volunteering project, launched by SSI staff and executives to arrange activities to help the society and community in Bangsaphan District.

Instilling Corporate Volunteering Culture

In 2017, SSI Arsa had arranged 26 volunteering activities under "25th Anniversary of SSI, 250 Virtues" Project.

25 th Anniversary of SSI, 250 Virtues: 26 Virtues	
The 151 st Virtue:	Jointly restore employee's homes which have been damaged by flood, Phongprasart Sub-district
The 152 nd Virtue:	Jointly restore community areas, clean up Huay Sai Khao Temple
The 153 rd Virtue:	Jointly restore community areas, clean road in front of Clock Tower, Kamnerd Noppakhun District
The 154 th Virtue:	Clean up area around Health Promotion Hospital of Ban Tung Kee Krarai Sub-district
The 155 th Virtue:	Cut big trees at Bangsaphan Kindergarten
The 156 th Virtue:	Joint construct weirs, Ban Klongloy
The 157 th Virtue:	Repair toilets of employees' home which have been damaged by flood
The 158 th Virtue:	Get rid of water hyacinth and improve landscape around the pool of Khao Tham Marong Temple
The 159 th Virtue:	Install computers at Ban Nongkong School
The 160 th Virtue:	Repair hydroponics plots, Ban Suan Luang School
The 161 st Virtue:	Plant mangrove and collect garbage at Klong Pakpid, Phongprasart Sub-district
The 162 nd Virtue:	Train and drill on fire evacuation, Bangsaphan School, Mae Ramphueng Sub-district
The 163 rd Virtue:	Install computer at Ban Chumko School
The 164 th Virtue:	Renovate aerobic stage floor, multi-purpose ground, Rattanakosin Community
The 165 th Virtue:	Lay cement floor, Bangsaphan Provincial Police Station, Kamnerd Noppakhun Branch
The 166 th Virtue:	Renovate exercise ground and village pavilion, Moo 7, Ban Tung Lankwai
The 167 th Virtue:	Construct school fence, Don Takien Temple
The 168 th Virtue:	Construct hydroponics greenhouse, Ban Chamuang School
The 169 th Virtue:	Renovate exercise equipment and improve garage roofs, Health Promotion Hospital, Rongthong Sub-district
The 170 th Virtue:	Construct BBL playground, Ban Suanluang School
The 171 st Virtue:	Re-paint toilet and wooden fence of monk's eating hall including re-install electrical system of toilet, Tung Maphao Temple
The 172 nd Virtue:	Relocate water pipes to install at Hin-Kong Temple
The 173 rd Virtue:	Repair school roof, Ban Yang Khao School
The 174 th Virtue:	Paint wall of Dong Dokmai Ngam Temple
The 175 th Virtue:	Renovate sport ground and paint children's playthings, Wat Tham Khiriwong School
The 176 th Virtue:	Clean-up temple and stairs of Wat Khao Both, the Royal Temple

The number of SSI Arsa Volunteers involved totaled 754 or 6,032 working hours, and the number of volunteers from the community totaled 512 or 4,096 working hours.

Expending Arsa Network to Stakeholders

Youth Volunteering Project for Society

The Company established local youth volunteering network named "Arsa Bangsaphan Youth Group." The initial fund has been provided for their management and for fundraising to help the underprivileged and social victims. In 2017, 152 additional Arsa youth has been additional joined up to Arsa Bangsaphan Youth Group. They also helped make wooden flower to be placed on the site of cremation and delivered to Bangsaphan District and other government agencies to be used in the royal cremation ceremony of His Majesty King Bhumibol Adulyadej The Great. Presently, Arsa Bangsaphan Youth Group has totaled 334 members.

CSR Performance

1. Economic Performance Table

GRI	Required Data	Unit	2015	2016	2017	Remark
Economics						
G4-EC1	Economic performance					
	Sales and service revenues	Million Baht	20,173	19,824	25,332	
	HRC Sales Volume (ktons)	Million Baht	1,126	1,232	1,285	
	EBITDA	Million Baht	(37,897)	2,143	6,115	Restated 2016
	Net profit (loss)	Million Baht	(40,959)	(2,869)	4,535	
	Economic value distributed					
	Suppliers*	Million Baht	1,502.00	1,320.00	2,190.00	
	Employees**	Million Baht	546.71	658.12	712.21	
	Financial Institutions (Interest Expense)	Million Baht	2,345.44	2,607.13	1,015.08	
	Community, Society and Environment ***	Million Baht	13.91	5.20	6.40	
	Government (Tax)****	Million Baht	100.57	110.98	89.01	

* Consist of value of general trading transactions in goods

** Consist of salary, wages, welfare, provident fund, social security and other expenses for HR development

*** Consist of expenses in community and environment development

**** Consist of corporate income tax, local maintenance tax, property tax, signboard tax and withholding tax

GRI	Required Data	Unit	2015	2016	2017	Remark
Customer satisfaction						
G4-PR5	Target	%	75	75	75	
	Customer satisfaction					
	• Domestic market group A1	%	79	79	78	
	• Domestic market group A2	%	70	70	78	
	• Domestic market group A3	%	86	89	82	
	• Domestic market group B2	%	77	77	81	

2. Environment Performance Table

GRI	Required Data	Unit	2015	2016	2017	Remark
Energy						
G4-EN3	Total energy consumption	Megajoule (MJ)	2,379,108,513.62	2,457,873,035.26	2,956,830,885.09	
	Direct energy consumption	Megajoule (MJ)	1,768,090,287.55	1,785,019,175.26	2,274,012,747.59	
	• Benzene consumption	Litre	41,860,117.86	43,962,085.57	53,929,041.00	
	• Diesel consumption	Litre	536,149.00	559,965.00	638,601.00	
	• LPG consumption	Litre	409,677.00	345,003.33	489,032.19	
	Indirect energy consumption	Megajoule (MJ)	611,018,226.07	672,853,860.00	682,818,137.51	
	• Electricity consumption	Megawatt Hour (MWh)	169,727.29	186,903.85	189,671.70	
G4-EN6	Total amount of saved energy	Megajoule (MJ)	35,135,428.00	37,896,892.00	41,427,807.00	

GRI	Required Data	Unit	2015	2016	2017	Remark
CO₂ Emission						
G4-EN15	CO ₂ Emission	Tons CO ₂	214,704.00	228,582.00	257,634.00	
Water						
G4-EN8	Water consumption from production process	million cubic metres	1.17	0.98	0.99	
Wastes						
G4-EN2	Percentage of materials used that are recycled input materials	%	98.34	99.24	98.14	
G4-EN23	Percentage of waste by waste incineration	%	0.36	0.66	1.65	
	Percentage of waste by landfill	%	1.30	0.10	0.21	
Transport						
G4-EN30	Number of company's vehicles or leased vehicles for product transportation					
	• Short distance truck	Cars	73	57	59	
	• Long distance truck	Cars	878	838	674	
	Number of transportation					
	• Short distance truck	Trips	6,404	9,441	8,457	
	• Long distance truck	Trips	26,281	24,663	19,620	

3. Total Workforce Table

GRI	Required Data	Unit	2015	2016	2017	Remark
Hiring						
G4-LA1	Number of employees					
	• Number of permanent employees	Person(s)	1,020	1,151	1,154	
	• Number of contracted employees	Person(s)	429	324	146	
	By gender					
	• Male	Person(s)	882	934	929	
	• Female	Person(s)	138	217	225	
	By age					
	• Over 50 years old	Person(s)	77	88	96	
	• 30 - 50 years old	Person(s)	728	823	805	
	• Below 30 years old	Person(s)	215	240	253	
	By employee structure					
	• Executive	Person(s)	26	47	47	
	• Managerial	Person(s)	152	228	192	
	• Supervisory	Person(s)	405	435	457	
	• Operational	Person(s)	437	441	458	
	Employee turnover					
	Total turnover	Person(s)	118	93	65	
	Total turnover rate	% of total employee turnover	11.56	8.08	5.63	
	By gender					
	• Male	Person(s)	84	60	46	
	• Female	Person(s)	34	33	19	
	By age					
	• Over 50 years old	Person(s)	7	5	4	
	• 30 - 50 years old	Person(s)	62	64	43	
	• Below 30 years old	Person(s)	49	24	18	

GRI	Required Data	Unit	2015	2016	2017	Remark
	Newly hired employees					
	Total number of new employee	Person(s)	96	80	138	
	Total new employee rate	% of total employee	9.41	6.95	11.95	
	By gender					
	• Male	Person(s)	73	55	88	
	• Female	Person(s)	23	25	50	
	By age					
	• Over 50 years old	Person(s)	0	0	1	
	• 30 - 50 years old	Person(s)	25	16	66	
	• Below 30 years old	Person(s)	71	64	71	
	Maternity and parental leave					
G4-LA3	Number of employee who take maternity leave	Person(s)	5	8	5	
	Number of employees returing to work after leave	Person(s)	5	8	5	
	Training and education					
G4-LA9	Average training hour					
	By branch					
	• Bangkok office	Hours/ Person/Year	15.12	20.67	22.53	
	• SSI Bangsaphan Plant	Hours/ Person/Year	25.48	26.30	19.86	
	By employee structure					
	• Managerial - Executive level	Hours/ Person/Year	18.43	19.05	28.89	
	• Operational - Supervisory level	Hours/ Person/Year	22.17	27.07	30.65	
	Anti-Corruption					
G4-SO4	Number of employees who have completed ethics training	Person(s)	189	22	117	

GRI	Required Data	Unit	2015	2016	2017	Remark
	Code of conduct					
	Violation of Business Ethics	Cases	-	-	-	
	Talent attraction and retention					
	Percentage of employees who passed formal performance review	%	100.00	100.00	100.00	
	Employee satisfaction		N/A	N/A	-	
	Goal	%	-	-	-	
	Percentage of employees who take engagement survey	Person(s)	-	-	819	
	• Bangkok Office	%	-	-	11.00	
	• SSI Bangsaphan Plant	%	-	-	89.00	
	Score					
	• Total score of employee engagement with the Company	%	-	-	55.43	
	• Score of employee engagement with Bangkok Office	%	-	-	33.71	
	• Score of employee engagement with SSI Bangsaphan Plant	%	-	-	58.08	

4. Occupational Health and Safety Performance Table

GRI	Required Data	Unit	2015	2016	2017	Remark
	Occupational health and safety					
G4-LA6	Injury Frequency Rate (IFR)					
	• Employees and contractors	case/a million working hours	2.67	1.38	2.64	
	Lost Time Injury Frequency Rate (LTIFR)					
	• Employees and contractors	case/a million working hours	0.76	0.35	0.66	

LITFR: (Number of Lost Time Injury x 1,000,000) / Total working hours
IFR: (Number of Injury x 1,000,000) / Total working hours

Awards and Recognitions



Certified in the Third Level Green Industry (three years)

Department of Industrial Works
The Ministry of Industry
31 July 2017



Thailand Outstanding Role Model Company Award for Safety, Occupational Health and Working Environment 2017 (the 6th consecutive year)

Department of Labor Protection and Welfare
Ministry of Labour
5 October 2017



National Outstanding Industrial Establishment Award in Labour Welfare/ Relations Category in 15 consecutive year type (2006 - 2016)

Minister of Labor
25 August 2017



Outstanding Empowerment of Persons with Disabilities Award 2017 (two consecutive years)

Ministry of Social Development and Human Security
1 December 2017



Certificate in a category of Thailand Voluntary Emission Reduction Program (T-VER)

Thailand Greenhouse Gas Management Organization (Public Organization)
19 September 2017

About This Report



Scope of Report

The 2017 Corporate Social Responsibility Report of Sahaviriya Steel Industries Public Company Limited (SSI) is the eighth issue that the Company has published to inform shareholders, stakeholders, investors and the public. This issue has added information about stakeholder engagement and their expectation which will be applied to set up a clear CSR framework with economic, social and environmental consideration.

This issue has covered all business strategy, policies, guideline, and business performance in economic, social and environmental aspect, mainly about SSI and some parts connected to its subsidiaries, during 1 January 2017 to 31 December 2017, to ensure that the CSR guidelines are delivered consistently throughout the Group.

Moreover, SSI determines to expand the report to cover more areas in the future.

This report has been generated in accordance with Global Reporting Initiative (GRI) G4 which is an international initiative. The report is disseminated in written reports and online at www.ssi-steel.com to allow everyone easy access to the information.

For more information, please contact:

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Stakeholder Engagement and Sustainability

SSI has channels for appealing against illegal action, including actions which will damage whistle-blowers and the Company. Moreover, the Company has policies to protect the whistle-blowers and the appeal will be monitored and the facts assessed. These issues will be fixed, while the whistle-blowers and the Audit Committee will be informed about its progress. In addition, the results of the Good Corporate Governance Committee’s tasks will be reported to the Board of Directors for acknowledgement twice a year.

There are communication channels that the Company has applied to communicate with the main 7 groups of stakeholders to create understanding and allow them to be part of the operation. Their opinion will be assessed to appropriately respond to all stakeholders and continuously enhance for sustainable development.

Stakeholder Engagement and Expectation

Group of Stakeholder	Expectations	Engagement Method	No. of Time Engaged
Shareholders and Investors	<ul style="list-style-type: none">Good corporate governanceRisk managementGood performance and returnBusiness Rehabilitation Plan ProgressAnti-corruption policy	Annual general meeting	N/A
		Annual report	Annual
		Investor relations activities	As needed
		SET's website	Continuous
		Management Discussion and Analysis	Quarter
		SSI's website	Continuous
Customers	<ul style="list-style-type: none">Product qualityTechnical supportsOn time deliveryService qualityAppropriate access to productCorrect product informationProducts that promote the society and environment	Strategic Partner Meeting	Quarter
		Meeting	Continuous
		Development of good relationship via corporate tools; website, products manual, and activities	Continuous
		System of complaint	Continuous
		Plant visit	Continuous
		Website	Continuous
Business Partners and Suppliers	<ul style="list-style-type: none">Quality promotionTechnical supportCo-management of occupational health, safety and environment	Annual seminar	Continuous
		Meeting	Continuous
		Recruitment and selection process	Continuous
		Advisory system	Continuous

Group of Stakeholder	Expectations	Engagement Method	No. of Time Engaged
Competitors	<ul style="list-style-type: none">Fair competitionAvoiding dishonest or inappropriate access confidential information of competitorsNot discrediting competitors	Conference	Continuous
		Association membership	Continuous
		Association and sharing of experiences	Continuous
Employees	<ul style="list-style-type: none">Environment, health and safety management in workplaceHuman resource developmentFair evaluation and appropriate remunerationCommunicationsEqual employment opportunity and anti-discrimination in the workplaceWelfare	Meeting	Continuous
		Internal program development	Continuous
		Employee relations activities	Continuous
		Workplace visit	Continuous
		Internal radio broadcasting	Continuous
		Intranet	Continuous
		E-mail	Continuous
Government	<ul style="list-style-type: none">Job creationFair competitionSafety at workAdditional investmentNational economic promotion	System of complaint	Continuous
		Meeting and sharing information	Continuous
		Membership and participation in activities	As needed
		Meeting and sharing information	As needed
Communities	<ul style="list-style-type: none">Community developmentEnvironmental, occupational health and safety managementAdditional investmentKnowledge transferringCommunity activity supportProduct transportation	Community visit	Continuous
		Monthly meeting	Continuous
		Opinion leader meeting	Continuous
		Activity support	Continuous
		Sponsorships	Continuous
		Communication activities	Continuous
		Opinion survey	As needed
		System of complaint	Continuous

Sustainability Evaluation

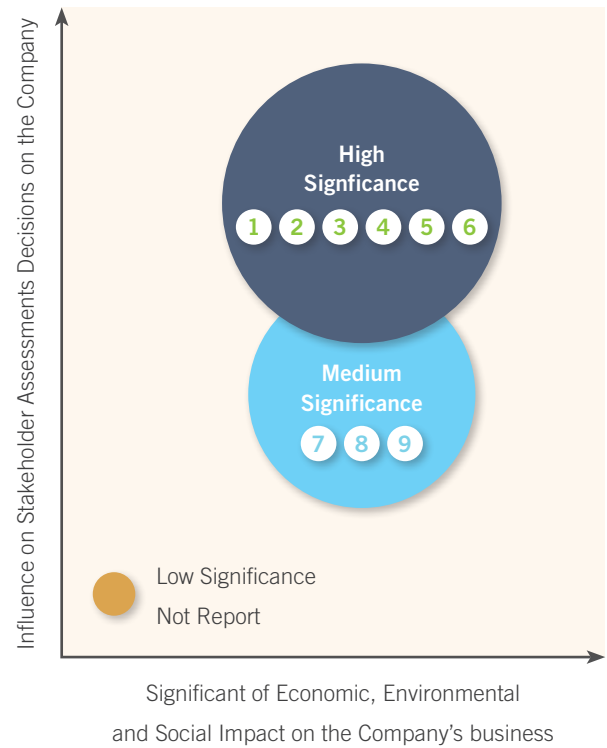
SSI has conducted this report, by considering important issues which cover risk assessment, current and future business opportunities, in accordance with Global Reporting Initiative (GRI) and information from its stakeholders. This report was assessed according to GRI (G4) and was grouped in “Core” level, by revealing Material Aspect, which is shown in GRI G4 Content Index. Details of the assessment are as follows:

1. Identification: Identified significant sustainability related issues, by taking into account GRI indicators, industry standards, and market trends. The Company chose the issues influence business strategies, business risks and sustainability strategies of the Company, stakeholder expectations and creating shared values.

2. Materiality Assessment: Collected, assessed and introduced issues significant to business operations and in line with stakeholder’s interest regarding level of high and medium significance. Other issues are presented through communication channels i. e. Annual Report, 56-1 Report, website, etc.

3. Issue Verification: Interviewed external stakeholders and incorporate their perspectives and viewpoints during the content development. Corporate Social Responsibility Management Committee verifies assessment of significant issues to the organisation, selection of report content for publishing, as well as report formatting in order to ensure that the report covers significant issues relating to SSI and stakeholders’ expectations.

Results of Significant Issue Assessment 2014 Table



- 1. Creating customer value
- 2. Good corporate governance and fair operating practices
- 3. Anti-corruption
- 4. Environmental management
- 5. Occupational health and safety
- 6. Water management
- 7. Human resource development and human right
- 8. Innovation for sustainable future
- 9. Local community development

GRI Content Index



General Standard Disclosures

GRI Aspect	Indicator	Level of Reporting	Page		Note
			CSR Report	Annual Report	
Strategy and Analysis	G4-1	●	2 - 4	-	-
	G4-2	●	2 - 4, 5, 12 - 14	24 - 30, 132 - 139	-
Organisational Profile	G4-3	●	6 - 7	-	-
	G4-4	●	5	8 - 9, 15	-
	G4-5	●	57	-	-
	G4-6	●	-	-	-
	G4-7	●	6 - 7	12 - 13	-
	G4-8	●	5, 12 - 14	15 - 18	-
	G4-9	●	5, 57	-	-
	G4-10	●	36, 53 - 55	-	-
	G4-11	●	-	-	Not applicable
	G4-12	●	8 - 10	15 - 18	-
	G4-13	●	-	4 - 7, 10 - 11	-

GRI Aspect	Indicator	Level of Reporting	Page		Note
			CSR Report	Annual Report	
	G4-14	●	2 - 4, 12 - 31	24 - 30	-
	G4-15	●	2 - 4, 30, 33 - 35, 40 - 49	10 - 11	-
	G4-16	●	34 - 35	-	<ul style="list-style-type: none">Private Sector Collective Action Coalition Against Corruption (CAC)The Association of Thai Hot Rolled Flat Steel (ATHF)The Association of Thai Cold Rolled Flat Steel (ATCF)Thailand Structural Steel Society (TSSS)South East Asia Iron & Steel Institute (SEASI)The Federation of Thai IndustriesThailand Business Council for Sustainable Development (TBCSD)
Identified Material Aspects and Boundaries	G4-17	●	-	19	-
	G4-18	●	57 - 60	-	-
	G4-19	●	58 - 60	-	Results of Significant Issue Assessment 2017
	G4-20	●	57 - 60	-	The Aspect is material within the organisation, refer to “About this Report” and “Assessment of SSI’s Key Sustainability Issues”
	G4-21	●	31, 57 - 60	-	page 31 “Result of Stakeholder Survey” and page 57 - 60 “About this Report”
	G4-22	●	-	-	-
	G4-23	●	2 - 4	4, 7, 10 - 11	-
Stakeholder Engagement	G4-24	●	9 - 10, 58 - 59	-	Stakeholder Engagement
	G4-25	●	9 - 10, 58 - 59	-	Stakeholder Engagement
	G4-26	●	9 - 10, 58 - 59	-	Stakeholder Communication Process
	G4-27	●	31, 58 - 59	-	Stakeholder Communication Process

GRI Aspect	Indicator	Level of Reporting	Page		Note
			CSR Report	Annual Report	
Report Profile	G4-28	●	57	-	-
	G4-29	●	57	-	-
	G4-30	●	57	-	-
	G4-31	●	57	-	-
	G4-32	●	50 - 55	-	-
	G4-33	●	60	142 - 145	Our financial data are audited by Independent Auditor.
Governance	G4-34	●	8 - 11	87 - 92, 97 - 98	-
	G4-35	●	11	97 - 98	-
	G4-36	●	11	97 - 98	-
	G4-37	●	-	36 - 48, 97 - 98	-
	G4-38	●	-	97 - 98	-
	G4-39	●	-	49 - 60	-
	G4-40	●	-	99 - 101	-
	G4-41	●	-	90 - 91	-
	G4-42	●	11	4 - 7, 72 - 87	-
	G4-43	●	-	94	-
	G4-44	●	11	93	-
	G4-45	●	-	24 - 30, 72 - 73	-
	G4-46	●	-	24 - 30, 72 - 73	-
	G4-47	●	11	72 - 73	-
	G4-48	●	60	-	-
	G4-49	●	11	72 - 73	-
	G4-50	●	-	-	In 2017, there was zero case.
	G4-51	●	-	62 - 69	-
	G4-52	●	-	62 - 69	-
	G4-53	○	-	93	-
Ethics and Integrity	G4-54	○	-	-	Not applicable
	G4-55	●	-	-	Not applicable: Proprietary information
	G4-56	●	1, 8 - 11	-	-
	G4-57	●	34 - 35	85 - 87	-
	G4-58	●	34 - 35	85 - 87	-

Specific Standard Disclosures Overview

GRI Aspect	Location of Disclosure	Indicator	Level of Reporting	Page	
				CSR Report	Annual Report
General	SSI	Disclosures on Management Approach	●	2 - 4, 8 - 11	-

Economic

GRI Aspect	Location of Disclosure	Indicator	Level of Reporting	Page	
				CSR Report	Annual Report
Economic	SSI	G4-EC1	●	2 - 4, 12 - 14, 50	132 - 139
Performance	Partner	G4-EC2	●	24 - 31	-
	Customer	G4-EC3	○	Not applicable	
	Community	G4-EC4	○	-	-
Market Presence	SSI	G4-EC5	○	-	-
		G4-EC6	○	-	-
Indirect Economic Impacts	SSI	G4-EC7	○	-	-
	Community	G4-EC8	●	2 - 4, 12 - 14, 50	-
Procurement Practices	SSI	G4-EC9	●	2 - 4, 45, 50	-

Environmental

GRI Aspect	Location of Disclosure	Indicator	Level of Reporting	Page	
				CSR Report	Annual Report
Materials	SSI	G4-EN1	●	18	-
		G4-EN2	●	29, 52	-
Energy	SSI	G4-EN3	●	18 - 19, 51	-
		G4-EN4	○	Not applicable	
		G4-EN5	●	24 - 25	-
		G4-EN6	●	19	-
		G4-EN7	●	19	-
Water	SSI	G4-EN8	●	19 - 21, 52	-
		G4-EN9	●	19 - 21, 52	-
		G4-EN10	●	19 - 21	-
Biodiversity	SSI	G4-EN11	○	-	-
	Community	G4-EN12	○	-	-
		G4-EN13	●	23	-
		G4-EN14	●	23	-
Emission	SSI	G4-EN15	●	24 - 25, 52	-
		G4-EN16	●	24 - 25, 52	-
		G4-EN17	○	-	-
		G4-EN18	●	24 - 28	-
		G4-EN19	●	24 - 31	-
		G4-EN20	○	-	-
		G4-EN21	●	24 - 28	-
Influents and Waste	SSI	G4-EN22	●	19 - 22	-
		G4-EN23	●	29, 52	-
		G4-EN24	○	-	-
		G4-EN25	○	-	-
		G4-EN26	○	-	-
Product and Services	SSI	G4-EN27	●	17	-
		G4-EN28	○	2 - 4, 32 - 33	4
Compliance	SSI	G4-EN29	○	-	-

GRI Aspect	Location of Disclosure	Indicator	Level of Reporting	Page	
				CSR Report	Annual Report
Transport	SSI	G4-EN30	●	17, 52	-
Overall		G4-EN31	○	-	-
Supplier Environmental Assessment	SSI	G4-EN32	●	22	-
		G4-EN33	●	17	-
Environmental Grievance Mechanisms	SSI	G4-EN34	●	31, 58 - 59	-

Social

GRI Aspect	Location of Disclosure	Indicator	Level of Reporting	Page	
				CSR Report	Annual Report
Employment	SSI	G4-LA1	●	36 - 39, 53 - 55	-
		G4-LA2	●	38	-
		G4-LA3	●	54	-
Labor/Management Relations	SSI	G4-LA4	○	-	-
Occupational Health and Safety	SSI	G4-LA5	●	16 - 17	-
		G4-LA6	●	2 - 4, 16, 55	-
		G4-LA7	○	-	-
		G4-LA8	○	-	-
Training and Education	SSI	G4-LA9	●	16 - 17, 39, 54	-
		G4-LA10	●	-	-
		G4-LA11	●	55	-
Diversity and Equal Opportunity		G4-LA12	●	36, 53 - 54	-
Equal remuneration for women and men	SSI	G4-LA13	○	-	-
Labor Practices and Decent Work					
Supplier Assessment for labor practices	SSI	G4-LA14	●	SSI found no illegalctions from performing supplier assessments, auditing and evaluation.	
	Supplier	G4-LA15	○	-	-
Labor practices grievance mechanisms	SSI	G4-LA16	●	SSI has received no significant complaints, affecting the business.	

GRI Aspect	Location of Disclosure	Indicator	Level of Reporting	Page	
				CSR Report	Annual Report
Human Rights Center					
Investment	SSI	G4-HR1	○	-	-
		G4-HR2	●	37, 54	-
Non-discrimination	SSI	G4-HR3	○	-	-
Freedom of association and collective bargaining	SSI	G4-HR4	●	8 - 10	-
Child Labor	SSI	G4-HR5	●	36, 53 - 54 No case of child labor in our operations.	
Forced or compulsory labor	SSI	G4-HR6	●	36, 53 - 54 No case of forced labor in our operations.	
Security practices	SSI	G4-HR7	○	-	-
Indigenous rights	SSI	G4-HR8	○	-	-
Assessment	SSI	G4-HR9	○	-	-
Supplier human rights assessment	SSI Supplier	G4-HR10	●	SSI found no illegal actions from performing supplier assessment, auditing and evaluation.	
		G4-HR11	○	-	-
Human rights grievance mechanisms	SSI	G4-HR12	○	-	-

Society

GRI Aspect	Location of Disclosure	Indicator	Level of Reporting	Page	
				CSR Report	Annual Report
Local Communities	SSI	G4-DMA	●	32	-
		G4-SO1	●	2 - 4, 40 - 50	-
		G4-SO2	○	2 - 4, 40 - 50	-
Anti-corruption	SSI	G4-SO3	○	34 - 35	-
		G4-SO4	●	34 - 35, 54	-
		G4-SO5	○	34 - 35 In 2017, there was no corruption case.	
Public policy	SSI	G4-SO6	○	-	-
Anti-competitive behavior	SSI	G4-SO7	○	-	10 - 11
		G4-SO8	○	-	-
Supplier assessment for impacts on society	SSI	G4-SO9	○	SSI found no illegal actions from performing supplier assessments, auditing and evaluation.	
		G4-SO10	○	-	-
Grievance Mechanisms for Impacts on Society	SSI	G4-SO11	○	-	-

Product Responsibility

GRI Aspect	Location of Disclosure	Indicator	Level of Reporting	Page	
				CSR Report	Annual Report
Customer Health and Safety	SSI	G4-PR1	○	-	-
		G4-PR2	○	-	-
Products and service labeling	SSI	G4-PR3	○	-	-
		G4-PR4	○	-	-
		G4-PR5	●	51	-
Marketing Communications	SSI	G4-PR6	○	-	-
		G4-PR7	○	-	-
Customer Privacy	SSI, Partner, Customer	G4-PR8	●	SSI strictly protects confidential information of customers (as promagated in the Business Ethics of the Company). In 2017, there was no substantiated complaint regrading breaches of customer privacy and losses of customer data, CSR report page 9, 32.	
Compliance	SSI, Partner, Customer	G4-PR9	●	In 2017, there was no fines for non-compliance with laws and regulations concerning the provision and use of products and services.	

SSI and SDGs



Sahaviriya Steel Industries Public Company Limited determines to develop business by means of value added creation and enhancement of value throughout business chains for the growth of overall economic system, generation of investment, expansion of employment and tax payment for development of the country which can lead to better quality of life and well-being of the people on sustainable basis. In addition, our development is corresponding to Sustainable Development Goals (SDGs) of the United Nations which has been announced as global development agenda for the period of 2015 - 2030.



Environmental Management

1. Observe ISO 14001 Environmental Management Standards
2. Promote energy conservation
3. Encourage for environmental friendly procurement
4. Climate change management
5. Preserve community environment through environmental projects



Create shared value with customers and trade partners

1. Encourage development of innovative products and services which can add value to customers continually.
2. Purchase products and service from local communities.
3. Develop research works to build knowledge to industries.



Occupational Health and Safety Management

1. Promote occupational health, safety and working environment through Zero Accident Campaign and Behavior Based Safety (BBS).
2. Manage and prepare readiness for emergency response.
3. Safety management on transportation of raw materials and products.



Equitable Treatment

1. Treat trade partners-competitors equitably by complying with laws and regulations of public sectors.
2. Support government sectors on overseeing free trade fairly.
3. Support anti-corruption policy of the Company and become member of Thailand's Private Sector Collective Action Against Corruption (CAC).



Personnel Development and Human Rights

1. Define employment structure, compensation & welfare and skill/knowledge development continually.
2. Promote for Work Life Balance.
3. Non-discrimination on employee recruitment.
4. Oversee safety, occupational health and environmental condition of employees.



Community and Social Development

1. Promote money savings to communities located in areas where business is situated.
2. Encourage people and youth to learn about knowledge and skills on business operation and career development to generate income.
3. Support quality of life development of communities through sustainable activities and projects.
4. Emphasize on employment of local people, support family institution and minimise migration.