

CSR Report 2019



About This Report

Since the first Corporate Social Responsibility (CSR) report has been published in 2015, ISU PETASYS continues to publish CSR report for the transparent disclosure of information on its CSR activities and performance. This is the third issue of the CSR report of ISU PETASYS.

Reporting Period

This report focused on the ISU PETASYS CSR activities and performance from January 1st to December 31st, 2018. For certain important issues, it includes the performance up to 2019. This report also covers for 3 fiscal year result to show the progress by time series as it needs.

Reporting Coverage and Boundaries

This report was prepared centering on the CSR activities and performances of domestic establishments, and in case matters pertaining to certain affiliates, such has been noted in the report.

Reporting Standards

This report was prepared in accordance with the 'Core Option' of Global Reporting Initiative (GRI) Standards Guidelines, and referred to ISO 26000, the international standard of social responsibility, and to \IR\rightarrow Framework of International Integrated Reporting Council.

Report Assurance

This report was verified by an independent third-party assurance provider to ensure the reliability and quality of the information presented. The details of the independent assurance statement can be found in the Appendix.

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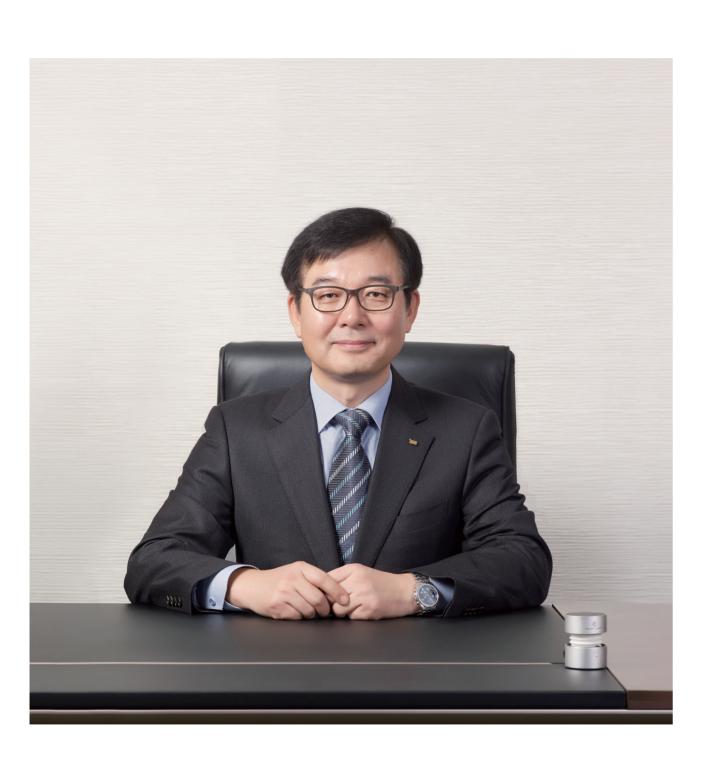
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Principle and Membership

CEO MESSAGE



Dear stakeholders.

Thank you for your steadfast interest and affection for ISU PETASYS. 2019 CSR report is the third report published by ISU PETASYS, containing the business performance and social responsibility performances.

Last year, ISU PETASYS achieved record-high sales since its establishment, thanks to the increase in new customer sales. This is all the more meaningful as it was achieved through the efforts of the employees and the interest and support from the stakeholders despite the difficult business environment such as the slow global economic growth and expansion of trade protectionism. ISU PETASYS shall not settle for the status quo, and go on to secure competitiveness while carrying out its social responsibility as a corporate citizen, and grow to be the No. 1 company leading the PCB industry.

We are reinforcing the future competitiveness in the ever-changing environment.

The 4th industrial revolution, including 5G network commercialization, is bringing a great impact to the global PCB industry. Accordingly, ISU PETASYS is focused on securing future competitiveness in line with the changing times. Focusing on persistent production innovation, sales force reinforcement, new growth drive discovery, customer satisfaction reinforcement, and product quality improvement, we shall build ourselves with the capacity to convert changes into opportunities.

We are striving for corporate social value creation.

Today, the stakeholders consider the execution of corporate social responsibility to be an essential element for sustainable growth. Accordingly, in order to manage social responsibility in all areas of management such as human rights, safety, environment, fair operation, product responsibility, and community participation, ISU PETASYS has set the CSR KPIs (Key Performance Indicators) and manages the performances thereof. Especially in 2018, ISU PETASYS was recognized for its performances by winning the Minister of Trade, Industry and Energy Award at 'The Most Loved Companies in Korea Government Prize," which evaluates and awards prizes on corporate social responsibility. Going forward, ISU PETASYS will do its part in social responsibility across all areas of management to be a sustainable business.

ISU PETASYS will continue to create a beautiful future pursuing abundance and convenience to life, and do its utter best to live up to the trust of all the stakeholders.

Thank you.

ISU PETASYS CEO Young-joon Seo

ISU PETASYS 2019 CSR Report

ISU PETASYS Overview

General Status

ISU PETASYS produces ultra-high layer PCB* used for network equipment (switch, router), servers, storage equipment, supercomputers and such, leading the market by developing high-quality products.

Overview	As of 31, December 2018
Company Name	ISU Petasys Co., Ltd
CEO	Young-joon Seo
Date of Foundation	February 1972
Main Business	PCB production and sales
Location	Head Office 36, Nongong-ro 53-gil, Nongong-eup, Dalseong-gun, Daegu, Korea Seoul Office 84, Sapyeong-daero, Seocho-gu, Seoul, Korea
Number of Employees	921 employees
Capital Stock	USD 36.9 million
Sales	USD 508.9 million
Affiliated Companies	ISLI Evahoard Co. Ltd. ISLI Petasys Corp. ISLI Petasys Asia Limited

^{*}PCB: Printed Circuit Board

History

19009	5	2000	5	2010	5	2018	~2019
February 1972	Company Established	August 2000	Listed on KOSDAQ	April 2011	Founded ISU EXAFLEX	November	Selected as an outstanding
June 1989	Started PCB business	September 2000	Founded ISU PETASYS AMERICA	November 2013	Founded ISU PETASYS HUNAN	2018	workplace for laborer health enhancement
November 1995	Incorporated into ISU Group	October 2003	Listed on KOSPI	October 2014	ISU EXABOARD merged ISU EXAFLEX	November 2018	Won the Minister Award at The Most Loved Companies
June 1998	Built the second factory	November 2004	Founded ISU EXABOARD	October 2015	Built the third factory	December	in Korea Labor-management
	Novembe 2007 October 2008 October 2009	October	Obtaining AS 9100 certification	November 2015	Acquired certification for TS	2018	culture presidential citatio
			Achieving CISCO "Supplier of the year" award	Rewarded by government the most loved company of Korea (CSR)	April 2019	TOP Direct Component Supplier"	
			Received "Supplier of the		' '	April - 2019	Won the 1st Industrial
		2007	year" award from CRAY	July 2017	Selected as an employment- friendly company		Peace Award
				November 2017	Achieving Gold level from EcoVadis business sustainability ratings		
				December 2017	Acquired certification for IATF 16949		

Management Philosophy

In order to create a beautiful future that adds richness and convenience to life, ISU PETASYS sets Sincerity, Seek for World Best, and Customer Satisfaction as its management philosophy. The sincere attitude to create the best product with sincerity for the human being and the work, the challenge through self-development and endless innovation, and customer satisfaction through providing better values are actualized across all areas of management of ISU PETASYS.



Management Strategy

ISU PETASYS, as a PCB company with business activities in the global market, has established a management strategy reflecting changes in market environment to play a leading role in the globalization era. Reinforcing the customer contact point and field sale force, securing new growth drive, and strengthening the manufacturing competitiveness are the major management strategies, and ISU PETASYS strives to create sustainable value with various stakeholders such as the customers, shareholders, employees, and local community.



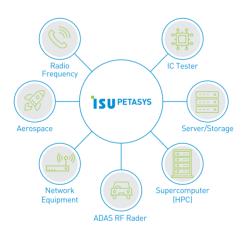
Overview

ISU PETASYS and CSR

Business Areas

ISU PETASYS specializes in ultra-high layer PCB production, producing PCB used in network, server/ storage, supercomputer, space/aviation, IC tester, automotive radar, and base stations. PCB is the core component of all electrical/electronic products, connecting various electronic components and also mechanically fixing them. Midst the changes of 4th industrial revolution, the IT-based manufacturing environment is rapidly changing, and the increase in layers and concentration of PCB is growing in importance for fast data transmission and processing. ISU PETASYS consistently participates in new product development and fostering next-generation growing industry in early stages so as to respond to rapidly changing environment actively, thus growing to be one of the top global electronic component companies.

Business Areas



Network Equipment	The ultra-high layer PCB is equipped on network equipment that demands high performance, high concentration, and high reliability, and the global top advanced level PCB manufacturing technolog applied for faster and safer communication without loss in a high network traffic environment.	
Server/Storage	Based on network ultra-high layer technology, ISU PETASYS entered the white-box server market, and has secured numerous global customers and is leading the market.	
Supercomputer (HPC)	Supercomputer PCB is widely used in research institutions, meteorological agencies, and large enterprises in order to process a large volume of data at a high speed.	
Aerospace	A malfunction in space/aviation industry PCB may lead to critical issues or great accidents. ISU PETASYS provides high-quality, high-reliability PCB to space/aviation industry.	
IC Tester	In order to secure new growth drive based on ultra-high layer technology, ISU PETASYS entered semiconductor test equipment PCB market. ISU PETASYS provides IC Tester PCB which minimizes loss due to fault occurrences by evaluating semiconductor functionality and reliability at the early stage.	
ADAS RF Rader	ISU PETASYS provides automotive radar PCB that will pioneer a new automobile telecommunication era based on know-how on using special materials of ultra-high layer PCB.	
Radio Frequency	ISU PETASYS is doing its very best to secure a new growth foundation by providing base station RF (radio frequency) PCB that supports 5G, the core infrastructure of the 4th industrial revolution.	

CSR Strategy System

ISU PETASYS has set the CSR goals and 6 strategic goals under the vision of company-wide socially responsible management, establishing the CSR strategy system. Also, the detailed execution plan and performance indicators for 6 strategic goals were drawn to examine, inspect, and improve annual performances.

Enterprise-wide socially responsible management CSR Goa Global CSR Leader 2020 CSR ① Conducting sustainable management 4 Improving fair operation policies and establishing Strategio activities in line with business strategies process Tasks ② Establishing a systematic customer audit response ⑤ Achieving transparent and responsible management process for customer satisfaction 3 Strengthening CSR in the supply chain 6 Expanding programs to participate in community services and social contributions Enabler CSR commitments of top management and employees Global CSR Initiative: ISO 26000 / UN Global Compact / GRI / UN SDGs

Composition of CSR Committee

Won the Minister of Trade,

Industry and Energy Award

of 2018 The Most Loved Companies in Korea



CSR Committee

The CSR Committee of ISU PETASYS is operated as a subcommittee within the board of directors, and the chair of the committee is the CEO. It is overseen by the secretariat (planning team) of the CSR Committee, participated by the members of the board of directors and officers in charge of each area, deliberates CSR-related strategies and policies, and also inspects the CSR status, major performances, and plans. In 2018, the 4th CSR Committee was held, and the major agenda per each CSR area is as follows.



Corporate Governance

Establishment and Operation of Board of Directors

The board of directors is the highest body of decision-making at ISU PETASYS, which deliberates and decides on major management matters, and consists of three standing directors and a non-standing director. The term of a director is 3 years, and the compensation is determined by a resolution by the general shareholder meeting. The chair of the board of directors is held by CEO, and in order to reinforce the expertise of the board of directors, the directors with expertise in each area were included in the board of directors.

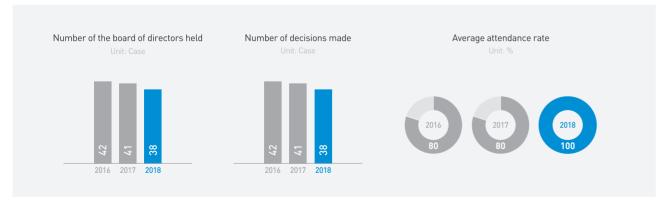
Board of Directors Composition

As of June 201

Name	Category	Post	Area of Expertise	Major Background
Young-joon Seo		CEO	Electronic engineering	Mechanical engineering, Kumoh National Institute of Technology
Sung-min Kim	Standing director	ISU Co., Ltd. Head of management improvement department		Master of Business Administration, Seoul National University CEO, ISU Co., Ltd.
Dae-sung Kim		Vice president	Business administration	CEO, ISU Venture Capital CEO, ISU ABXIS Business Administration, Seoul National University
Jae-kyung Lee	Non- standing director	External director		PhD in Business Administration, University of Texas Professor, Business Administration, Kookmin University
Sang-il Park	Standing director	Auditor	Economics	School of Economics, Dongkuk University Head of New Growth Policy Finance Center, Korea Development Bank

Board of Directors Activities

As of 31, December 201



Board of Directors Transparency

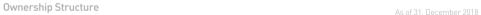
When appointing a director, ISU PETASYS transparently makes public all information on the director before the general shareholder meeting, and externally publicizes the history on the relationship to the recommender and the largest shareholder and trade with the company. Most director appointment takes place through shareholder voting on the director candidate recommended by the board of directors. Also, in order to secure the transparency of the board of directors, ISU PETASYS has a full-time auditor based on the stipulations of the commercial law for accounting and business auditing activities, and the auditor also attends and states opinions at the board of directors meeting. When appointing an auditor, it is stipulated that a shareholder with 3% or more of total voting share issuance cannot exercise the voting right for the exceeding amount of shares.

Evaluation and Compensation

The compensation for the members of the board of directors is paid within the compensation limit approved at the general shareholder meeting according to the director performance compensation payment standards. The compensation for the members of the board of directors is the sum of basic salary and bonuses, and when bonuses are paid, not only the quantitative indicators of company sales, operating income, and net profit performances, but also the non-quantitative indicators of leadership, expertise, ethical management performances are evaluated. The detailed compensation history of the board of directors is transparently made public through DART (Data Analysis, Retrieval and Transfer System) of Financial Supervisory Service.

Ownership Structure and Communication.

ISU PETASYS holds a general meeting of shareholders on a yearly basis and actively reflects the opinions of shareholders in the decision-making process and management. Furthermore, the company is proactively communicating with shareholders by officially announcing important management decisions on its website and the DART of the FSS.





Ethical Management

Ethical Management System

ISU PETASYS has prepared a code of ethics in an effort to build a fair and healthy corporate culture and ethical management environment. All employees are made aware that the code of conduct according to the code of ethics is strictly required, and are encouraged to put it into practice, and the external stakeholders such as partners are recommended to abide by it as well. The contents of the code of ethics of ISU PETASYS broadly cover the attitude towards shareholders and investors, the attitude towards customers, the attitude towards competitors and partners, the responsibility to the employees, the responsibility to the society, and the basic ethics of the employees. Also, the ethical management committee is constantly in operation to improve the corporate reliability and the timely response to ethical issues.

Code of Ethics Attitude towards shareholders and investors Attitude towards customer Attitude towards competitors and partners · Protection of rights and interests of shareholders Customer respect · Fair competition with competitors Fair trade with partners Fair treatment Customer protection Active information provision Responsibility to society Basic ethics of employees Responsibility to employees • Settlement of healthy corporate culture • Respect and fair treatment of employees • Compliance with domestic/foreign laws and Work environment establishment Prohibition of conflict of interest Contribution to national economy and social Prohibition of internal information appropriation Protection of company property and important information development Environment protection • Prevention of workplace sexual harassment Prohibition of inappropriate political involvement • Prohibition of receipt of financial or material benefits Compliance with the code of ethics

Expansion of Ethical Management Culture

ISU PETASYS raises the awareness for integrity and internalizes the value of respecting human rights through employees ethical conduct and respect for human rights guideline. Also, through the principle of anti-corruption and bribery prevention, any act of bribery or conflict of interest such as receiving money, treatment, or accommodations from a stakeholder are prohibited under any circumstances. Also, in order to internalize the ethical management, anti-corruption education was conducted for total of 895 employees and the employees of partners in 2018, and there has not been a single case of violation related to anti-corruption during the reporting period.

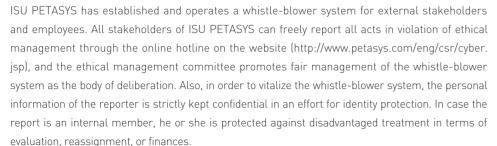
Operation of Whistle-Blower System

Online Hotline

Grievance
Gornseline

Traplane can report privaces related to working confident, 18 Manus, small hearment in workings, etc.
[98] Manus / Armyshelmi)

Batel Mores



Risk Management

Risk Management System

ISU PETASYS categorizes potential risks for identification and management. For a thorough risk management, not only are the risks and opportunities identified, but also the impact on business, possibility of occurrence, risk severity, preventability, risk rating, and countermeasure strategies are drawn.

Internal Accounting Management I ISU PETASYS prevents illegality and errors of disclosed accounting information by complying with the accounting-related laws and regulations while establishing an internal accounting management system, thereby increasing internal/external reliability. The operator in charge of the internal account management system is CEO, and the manager is appointed as a full-time director with accounting capabilities, who manages the system compliance, occurrence of accounting instructions noncompliant with the system, and accuracy of accounting information in handling of the accounting.

Compliance Risk | ISU PETASYS strictly complies with the laws and regulations of the local country at both domestic and foreign workplaces, and especially complies with CSR-related laws and regulations and international agreements in all organization activities through CSR laws and regulations management guideline to reduce the compliance risk occurrence possibility. ISU PETASYS periodically identifies enactments/amendments of relevant CSR laws and regulations for business activities, and identifies the subsequent assignments and establishes the execution plans thereof.

Business Continuity I As the important and impact of CSR management is only ever-increasing, the occurrence of CSR risk has a profound impact on the business continuity. Accordingly, ISU PETASYS conducts regular and occasional risk assessments, where the regular risk assessment is conducted once every year in principle, and the occasional risk assessment is conducted whenever the business or environment pertaining to each functional organization has occurred. When the risk impact assessment is conducted, not only are the risks and opportunities identified, but also the impact on business, possibility of occurrence, risk severity, preventability, risk rating, and countermeasure strategies are drawn. Also, in acknowledgement of the importance of follow-up management, the risk management results are re-assessed within 6 months after the completion of all improvements on the risks.

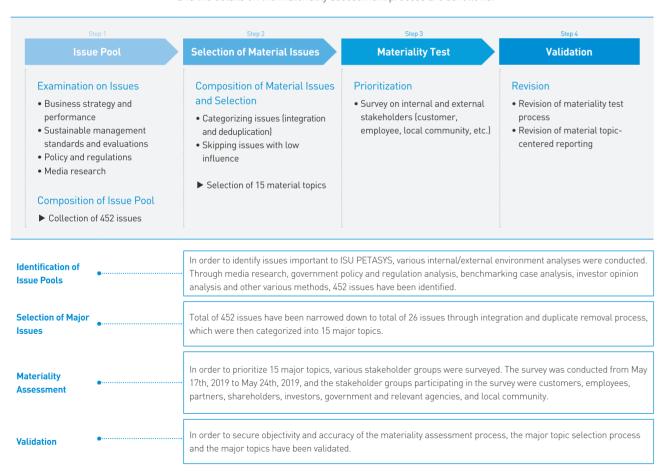
Information Protection | ISU PETASYS has established an electronic management procedure to prepare against system failure and information security accidents. The major information systems are installed in restricted areas with physical security and are monitored weekly for information system anomalies, along with execution of status check activities for performance and capacity of major information systems. Also, various education programs such as job digitalization education, computing technical education, and PC user education are conducted annually along with information security oath renewals, and all employees are supported to participated in the information protection risk countermeasures along with improvement of information protection capability enhancements.

Materiality Test and Stakeholder Engagement

In order to draw important issues for sustainable management and CSR, ISU PETASYS has conducted internal/external environment analysis on global sustainable management trends, major report issues in the industry, and current management issues. Also, a survey was conducted against core stakeholders to identify the opinions and needs of the stakeholders, which were included in the report.

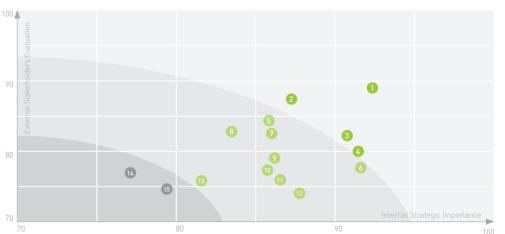
Materiality Assessment Process

Materiality assessment is conducted to reflect the internal/external business environment and the expectations and issues of interest of various stakeholders effectively on the report. Especially, this report conforms to the guideline on determining and constituting report matters proposed in GRI (Global Reporting Initiative) Standards, a new reporting standard. Total of 452 sustainable management-related issues have been collected, and according to GRI Standards, they were integrated/categorized into 15 major topics. The 15 major topics have been prioritized through internal/external stakeholder survey, and the details on the materiality assessment process are as follows.



Materiality Assessment Result

The major issues selected through the materiality assessment process have been categorized into three grades (High, Medium, Low) based on the priorities considering the stakeholder opinions and strategic importance. According to the materiality assessment results, the importance level was found to be in the order of quality control reinforcement, new growth drive discovery, workplace health and safety, business performance, and eco-friendly management, from highest to lowest, and an effort has been made to include the matters pertaining to all major topics in the report.



Material Topic List

Rank	Material topics	Internal	External
0	Quality management	92.19	89.10
2	New growth engines	86.97	87.80
3	Health and safety	90.48	82.29
4	Business performance	91.28	79.96
5	Environmental management	85.78	84.29
6	Sales ability	91.42	78.13
7	Risk management	85.82	82.89
8	Corporate governance	83.30	83.08
9	Innovation in manufacturing	85.92	79.12
10	Nurturing talents	85.64	77.66
•	Ethical management	86.20	76.32
12	Human rights management	87.50	74.25
13	Stakeholder engagement	81.41	76.14
14	Community engagement and development	77.00	77.31
15	Mutual growth	79.20	75.00

CSR Strategy & Performance

- 1 Securing Competitiveness for Future
- (2) Human Rights and Labor
- 3 Environment-Safety-Health (ESH)
- 4 Sustainable Supply Chain Establishment
- **(5) Product Responsibility Reinforcement**
- **6** Community Participation Expansion





Securing Competitiveness for Future

Context

The changes due to the 4th industrial revolution is rapidly transforming the IT-based manufacturing environment. The competition among PCB manufacturers is growing fierce, and there are difficulties such as increased production cost due to increased production of small number of items. Accordingly, the important to secure competitiveness for sustainable growth is greater than ever.

Our Approach

ISU PETASYS responds to the market change through high-level technology and innovation of production. Also, new growth drives are being secured through constant research and development, and the safe force is being reinforced to prepare a stable sales base. ISU PETASYS also strives to maintain a persistent relationship with already secured customers through customer satisfaction activities.

Our Performance



Sales

USD 508.9 million



Market Share

[Global Ultra-High Layer PCB, 18 layers or higher]

3rd



Customer Satisfaction

82 points



Customer Complaint
Timely Resolution Rate

100%



Cost Innovation

ISU PETASYS recognizes the raw cost and quality competitiveness as important elements of production innovation, and to secure them, is promoting the Cost Innovation project. In order to reinforce raw cost and quality competitiveness, ISU PETASYS continues to resolve the deduced vulnerabilities, and establishes an innovation process in an effort to build an operation system optimized for business.

Cost Innovation Project Process

Operation Strategy	Directions of	f Cost Innovation Project	Project Output
A Quality innovation	Securing quality competitiveness	(A1) Quality Q-Cost savings	Deduce sub-tasks of quality management for Q-Cost savings
B Raw cost innovation	competitiveness	Establishing general system for quality management	Deduce general tasks of quality management process according to quality cause developments and establish R&R Proceed centering on 4 major tasks for quality management process innovation
Operation Operations		(A3) Constructing preemptive prediction management modeling	Construct preemptive prediction modeling for defects linked to MES for defect release prevention → Proceed centering on defect types with critical impact on customer trustworthines.
Strategy A B Enabler	Securing raw cost competitiveness	B1 Raw cost competitiveness reinforcement	Baseline diagnosis configuration and analysis Ideation, evaluation, and establishment of execution plan for manufacturing raw cost savings
KPI, MES, ERP System	7	Raw cost management process improvement	Improve process centering on focused improvement themes beside establishing management system by the basic unit



Market Analysis

Telecommunication Operator

- Increase in demand according to network environment changes
- Equipment integration trend according to network technology changes
- Continued increase in exchange equipment demand according to traffic increase

Data Center

• Increase in the importance of cloud service businesses

Server/Storage

• Increase in data storage device demand due to traffic increase

HPC

 Increase in HPC server demand due to traffic increase

Sales Force Reinforcement

Field Sales Force Reinforcement

ISU PETASYS has allocated additional manpower centering on global offices with major customers and potential customers, engaging in purchase and quality response, technological prowess development, and new customer discovery. In future, the plan is to expand manpower in phases to reinforce customer relations and field sales force.

New and Potential Customer Discovery

ISU PETASYS strives for new and potential customer discovery through market analysis. New and potential customers that have not entered the existing market were discovered according to the growth of telecommunication operator wired network, data center, server/storage, and HPC market through market analysis. Also, as a part of the sales strategy, the per-market new and potential customer sales progress, sales volume, and growth were considered to draw the customer priority, and the sales capabilities are utilized in distribution.

New Growth Drive Discovery

New Business Promotion

ISU PETASYS is reinforcing the business structure through new business discovery, with various efforts to raise the new business sales to a significant level. The prominent new business areas of ISU PETASYS include semiconductor test equipment PCB, base station RF PCB, and automobile radar, and as they are expected to see high growth in the PCB industry, the product portfolio is being expanded centering on the said businesses. Beside the development of core technology for new business promotion, ISU PETASYS focuses on verification of PCB element that can optimize PCB for a smart vehicle and development to secure signal integrity. Moreover, alongside improving the customer satisfaction for new businesses, ISU PETASYS continues to develop the potential customers to extend the new businesses.

DOD	Performances	
$\pi \alpha \nu$	Periormances	

R&D project name	Research period	Research performance	Major commercialization detail
5G Base Station PCB development	June 2018 ~ June 2020	5G Base station element technology R&D: verify and optimize the factors influencing wireless antennas	Contribution to technology improvement: apply for 5G technology patent
Situation-recognition smart vehicle fusion platform development	April 2018 ~ December 2019	Automobile radar board characteristic technology R&D: verify and optimize the factors influencing antenna and FEM	Contribution to technology improvement

Customer Satisfaction Reinforcement

Client Opinion Hearing and Quick Response

Since the clients have diverse requirements, and the PCB structure is different per application, ISU PETASYS adopts 100% order-made production. Thus, it is very important to listen to the client opinions and quickly respond to the requests from clients. ISU PETASYS directly listens to the customer requirements through regular visits to the clients, and quickly responds to the client requests received through domestic, U.S., China, and Asia offices. Especially, ISU PETASYS has a system that can immediately respond to requests in case there are technical support requests from clients or an issue occurs.

Quick Response System

Request Detail	Corresponding Team	Response Principle
Quote, deadline adjustment, urgent inquiry response, etc.	Sales Team	Respond within 24 hours
Data review (Stackup, DFM, etc.)	Design Technique Team	Respond within 48 hours

Claim Handling Process Improvement Activity

The claim handling process of ISU PETASYS consists of receipt, determination of corresponding department, causal analysis, rectification measure, and result and report remittance. ISU PETASYS constantly improves the claim handling process in order to customer satisfaction, and since 2019, in order to reinforce the follow-up management system and the roles and responsibilities of the corresponding officer, tracking process will be added to the operation. Besides, through improvements such as establishing claim type categorization standards and management through electronic process, the company-wide claim handling process that can quickly respond to the customer demands and requirements is to be established.

Claim Handling Process 000 Determine Measure result Rectification Tracking Claim Receipt corresponding Causal analysis and report (to be applied in 2019 measure department remittance Needs to improve record Needs to reduce | Communication Needs to Needs to improve Needs followmanagement regarding time it takes via e-mail causes improvement in completion up management managing history product identification and to check the difficulties in management for system type categorization through departments in monitoring claim of rectification each measure introduction of claim charge handling status measure and result categorization standards results Sophistication of tracking management items Establish categorization Management of claim handling standards per claim type process utilizing electronic Sophistication of completion standards considering severity, processes urgency, and importance

Customer complain receipt Data review (Stackup, DFM, etc.) Internal measure registration Internal measure approval Customer measure remittance and registration Customer complain status check

Customer Complain

Management Process



Settlement of customer complaints on time

100% for 3 consecutive years

Audit findings on quality system

Ocase for 3 consecutive years

Average customer satisfaction (points)



Customer Complaint Management Program

ISU PETASYS systematically manages the customer complaint information system to react to the customer complaints actively, and constantly draws points of improvement and reflects them on management activities. ISU PETASYS gives its very best efforts for customer satisfaction reinforcement such that recently, the customer complaint timely resolution rate was 100%.

Customer Satisfaction Assessment

ISU PETASYS regularly conducts customer satisfaction assessment to gather the voice of the customers. The customer satisfaction assessment consists of on-time delivery, service & flexibility, technical support, quality, and cost, and for certain major clients, sustainable management assessment items are also included. In 2018, the average customer satisfaction was 82.5 points higher than the past year.

Customer Information Protection

ISU PETASYS takes the information security, including customer information and technology protection, to be a part of the corporate management, such that CEO and employees all actively participate in information property protection. All employees of ISU PETASYS protects customer information according to the security guideline, and the important customer information is collected and disclosed only when the information disclosure is consented by the customer or legally required. Also, ISU PETASYS has a security accident countermeasure procedure which minimizes damage by notifying the customer of the related details in case of a customer information leakage accident.



Human Rights and Labor

Context

According to the expansion of corporate social impact, the demand for human rights protection and respect by corporations is on the rise. Global evaluation indicators for corporate sustainability such EcoVadis or DJSI treats human rights issues gravely, and domestically, the 3rd National Human Rights Policy Basic Plan (NAP) has been established in 2018, and as such, the importance of human rights is heightening.

Our Approach

Due to the characteristics of PCB industry of being a manufacturing process, the labor conditions and human rights management of the employees is a core element in maintaining business competitiveness. Accordingly, ISU PETASYS establishes the value of respect for human rights at the systematic level and practices in all corporate activities. Also, ISU PETASYS strives for talent development and improvement of quality of life so that all employees can exercise their full potential, along with respect for human rights and labor.

Our Performance



Annual education time per 1 employee

96.7 hours



Annual education and training expense per 1 employee

USD 694.8



Welfare expense compared to sales

1.4%





ISU PETASYS participates in the global initiative of UN Global Compact 10 Principles, supporting the international standards and principles related to human rights and labor. Moreover, the principles of UNGC in human rights area will be actively reflected on CSR policy and operation to secure global-level human-rights management. Also, the negative influence in terms of human rights that may occur in the corporate operation process is preemptively identified, and the overall basic guidelines of human resources and labor are integrated with enactment and operation of human rights and labor guideline. The human rights and labor guideline, based on the value of respect for human being which respects all laborers as human beings, clarifies the stipulations on forced labor and child labor prohibition, anti-discrimination, work hours, and compensation and welfare. ISU PETASYS has designated the human resources and labor team as the department dedicated to human rights, promoting a broad range of human rights policies.

Respect for Human Rights of Employees



Employee Code of Ethics and Respect for Human Rights Guideline

I, as an employee of ISU PETASYS, shall comply with the following quideline

- ① I will maintain a healthy private life and not engage in any act that compromises dignity.
- ② I will not misuse my professional position or appropriate the company property for personal use, or execute expenses pontransparently.
- ③ I will not receive money, treatment or accommodations from stakeholders such as colleagues,
- ④ I will not disclose trade secrets learned through business, and comply with the security guideline.
- (5) I will not discriminate colleagues on gender, age, position, employment status, political position, or religion.
- ⑥ I will respect colleagues and not exercise physical, sexual, or lingual violence.
- I will immediately stop it if I see a violation of any of the above, and notify the relevant department.

Internalization of Culture of Respect for Human Rights

ISU PETASYS raises the human rights awareness of employees and internalizes the culture of respect for human rights through various human rights management activities. In 2018, all employees were educated on human rights including sexual harassment prevention education. Also, a pledge program for respect for human rights is operated so that all employees can comply with the code of ethics and respect for human rights guideline.

Employee grievance

ISU PETASYS operates a cyber reporting system on its website (http://www.petasys.com/eng/csr/cyber.jsp) to handle grievances of employees. All employees can submit grievances through the cyber reporting system regarding labor conditions, human resource management, gender, workplace sexual harassment, or other personal affairs, and all submissions are subject to the grievance handling regulations and are fairly handled through the grievance handling committee. ISU PETASYS operates various grievance handling channels beside the cyber reporting system including phone, fax, walk-in interview, and written submission so as to support all employees can handle grievances more conveniently. Also, grievance counselling and reports are operated as an open channel accessible by not only the employees, but also external stakeholders such as customers and partners.

Diversity and Anti-discrimination

ISU PETASYS stipulates anti-discrimination items in the human rights and labor guideline in order to build a workplace with respect for diversity and free from discrimination. Also, the employees code of ethics and respect for human rights guideline specify not to discriminate according to gender, age, position, political position, or religion.

Fair Opportunity and Compensation

Employment rate of the disabled





Ratio of female employees (%)





ISU PETASYS adopts a transparent and fair employment policy, where the fair treatment of all employees are systematically quaranteed to provide stable employment. ISU PETASYS adjusts the gender ratio of interviewers and educates the interviewers prior to the interviews so as to exclude potential discrimination elements from the hiring stage. Also, equal wage for all genders and equal welfare are applied to reinforce the fair compensation system. Also, in order to exclude sexual discrimination in promotions, a transparent performance evaluation system is operated to provide equal opportunity and compensation. Besides, the number of handicapped employees at ISU PETASYS in 2018 is 39 including 6 severely handicapped persons, taking leadership to remove the prejudice that hiring handicapped persons at a cutting-edge electronics business compromises production efficiency and developing jobs suitable for the handicapped. As the result, ISU PETASYS has been selected as an excellent gender-equal employment company and handicapped employment company by Ministry of Employment and Labor, and in 2017, it was selected the exemplary employment-friendly business by the City of Daegu.

Employees by Contract Type and Gender



Expansion of Labor-Management Coexistence Culture

Ratio of union membership (%)



ISU PETASYS maintains a cooperative labor-management relation, and has the record of no strike since foundation. ISU PETASYS is building a corporate culture of coexistence through labormanagement harmony, quarantees the freedom of assembly for the employees, and promotes social conversation. The labor-management coexistence culture is the most prominent corporate culture of ISU PETASYS, where the labor and management frequently exchange opinions through labor and group agreement negotiation, labor-management conference, labor-management safety and health committee, labor-management human resources subcommittee and such, and reflect the results on workplace environment and labor condition improvements. Also, labor and management have jointly adopted the social responsibility practice declaration statement so as to expand the coexistence culture of human-centered management, local economy vitalization, local hiring expansion and such to the overall areas of the society.

Nurturing and Improving Life Quality Talents

Talent Training

ISU PETASYS strives to provide quality education to the employees. Systematic education operation is executed to allow the employees to acquire basic attainments, knowledge, technology, and functions to develop individual capabilities and contribute to securing business competitiveness. Customized education per position and role of employees is conducted, and year-round language education courses for global capability training are also provided.

Employee Training Performance*

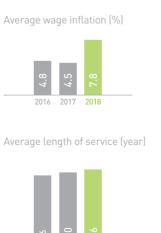
Category	Education program Details		Number of participants
Per-tier capability	All-hands education	Ownership, basic improvement and organization vitalization, sexual harassment prevention, anti-corruption, quality education	840
reinforcement	New employee course and OJT	Course for new employees, My Board course, etc.	17
	Cyber/reading communication	Job course execution	860
Job	External job education	Job specialization course	250
specialization	Labor union executive education	Labor-management relation expert and labor- management representative education	41
Capability for globalization	Internal language course	English and Chinese language proficiency improvement	50

^{*}Selecting a few training among a variety of training programs for employee

Improvement of Quality of Life

In order to improve the quality of life of its employees, ISU PETASYS has adopted flextime since 2016, and since 2018, the focus hours system has been in operation where meetings, calls, instructions, and reports are prohibited during the focus hours, providing conditions to reduce work hours. Also, in order to reduce unnecessary get-togethers and overtime, get-togethers are prohibited on family days (every Wednesday). Besides, newly introduced in 2018 are holiday exchange system where work days and holidays can be exchanged, half-day holiday system that guarantees holiday usage, and automatic parental leave system to reduce the pressure against using parental leave, all in an effort to improve the quality of life of the employees. Moreover, tuition support, feeding rooms operation and such welfare systems are operated to take the lead in systematic support for all staff and employees to have stable and rich lives in all areas of lives.

Welfare System



Welfare cost compared to sales

Life Balance	ľ	Leisure & Activity
Tuition support		Cafeteria operation
Dormitory operation		Congratulations and condolences
Regular health		expenditure support

- examinations . Group accident insurance • Language education
- expense support Voucher provision (handicapped/veteran)
- Congratulations and condolences holiday support Clothing provision
- Feeding room Medical room operation / dressing room and visiting room provision • Rest area / shower room operation
- Happy Workplace Condominium operation · Various clubs operation and
- support • Group culture activity (movi
- Group / company-wide
- athletic meet Voucher provision
- through evaluation Production incentive payment Excellent education subject voucher payment

• Long-term employee rewards

Exemplary employee domestic/

overseas training support

Graduate school support

Motivation

and holidays



Environment-Safety-Health (ESH)

Context

Corporate activities contribute to the survival and convenience of mankind, but the negative impact on the environment keeps increasing. Accordingly, the domestic/foreign regulations on environmental protection and energy are stronger than ever. Also, as the social interest in safety is increasing, the strict safety and health management in corporate management activity is growing in importance.

Our Approach

ISU PETASYS has established the environment/safety/health promotion system, selecting focus projects every year and executing activities for improvements thereof. Also, in order to improve serious environmental influences due to production activities, ISU PETASYS engages in various efforts such as impact assessment and contaminant control, and especially the scope of safety and health is extended to partners with support activities.

Our Performance



Safety Accidents

Zero case



Industrial Accident Rate



Waste Recycling Rate

87%



Environment-Safety-Health Promotion System

ISU PETASYS has established Environment-Safety-Health integrated management system for systematic management of environmental impact incurred across overall management activities and establishment of safe work environment. With the ESH laws and regulations compliance as the baseline, focus tasks in the areas of environment, safety and health are selected, and the environment and safety team acts as the control tower to promote major policies company-wide with corresponding ESH officers in each department.

Environment-Safety-Health Management Promotion System

Category	ESH Focus Task Selection	Major Policy Establishment	Key Performance Indicato
			1
		Execute environment impact assessment	Execution rate
	Zero environmental accident	Improve severe environment impact	Goal achievement rate
- Carrian and and		Conduct legal education on hazardous chemical substances	Completion rate
Environment	Sustainable resource usage	Reinforce waste storage/treatment in processes	Execution rate
	Climate change mitigation	Greenhouse gas emission reduction	Emission amount
		Execute risk assessment	Execution rate
		Improve severe danger	Improvement rate
	Zero safety accident	Near-miss accident discovery activity	Discovery activity count
		Manage safety check subjects	Execution rate
	Disease rate reduction activity	Execute internal health enhancement program - Alcohol temperance campaign - Anti-smoking campaign	Execution
Safety·health		Operate disease rate team objective management system	Execution
		Complete supervisor (new/returning) education	Completion rate
	Execute safety and health education	Execute regular safety and health education (office positions, managerial positions 2hr/month)	Execution count
		ESH management system education	Execution
	Partner safety and health support	Execute coexistence cooperation program	Execution result
		Execute emergency drill (4 times/year)	Execution count
0	Raise environment safety awareness Basic safety guideline compliance campaign (12 times/yea		Execution count
0	avareness	First respondent selection and specialization education	Execution
Common	Improve ESH management system validity	Upgrade safety and health management system - OHSAS18001 → ISO45001	Certification
		▼	
	Minimiz	ze environment, safety and health impact	

Environment Management System

Environmental Impact Assessment Reinforcement

ISU PETASYS executes environmental impact assessment in order to identify the impact on environment from the perspective of the entire process from raw material acquisition to disposal for products and services. The environmental impact assessment is executed upon the occurrence of matters such as new installation or expansion of equipment, new product development, stakeholder request, severe environmental impact occurrence, or changes to chemicals used in the production process, and the results* are grade from A to F. Environmental impact items with grade D or higher are categorized as severe environmental impacts, which are reflected when setting environmental goals and details objectives so as to enable focused management.

* Environmental impact assessment result: A [no environmental impact at all], B (very small environmental impact), C (small environmental impact), D (somewhat severe environmental impact). E (severe environmental impact).

Severe Environmental Impact Improvement

ISU PETASYS improves environmental impact by managing contaminants that can be discharged from production process such as air pollutant, water pollutant, hazardous chemical substance, or waste.

Hazardous Chemical Substance Management

ISU PETASYS strictly manages chemical substances included in chemical products used in all production processes. Before a new chemical substance is to be used, the related laws and regulations are reviewed and screening/hazard assessments are conducted, and even the issues that may occur in the disposal stages are preemptively identified. The facilities that handle hazardous chemical substances are managed through daily, weekly, and monthly inspections, and the material safety data sheet (MSDS) is provided on site, which is also equipped with safety protectors necessary for handling and disaster prevention equipment against leakage accidents. Moreover, the handlers of hazardous chemical substances are regularly educated in the best of efforts to prevent accidents related to hazardous chemical substances.

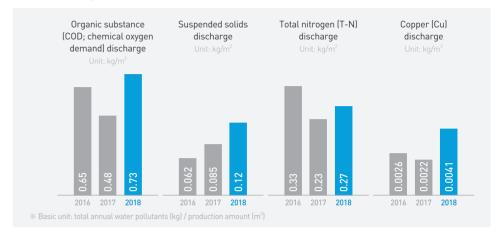
Air Pollutant Management

ISU PETASYS strives for strict management and process improvements in order to reduce the generation of air pollutants discharged from the production process. In order to minimize the air pollutant discharge emission, the pollutant absorbent and such of the air pollution prevention facility is regularly replaced.

Water Pollutant Management

ISU PETASYS has established a processing system to manage the waste water and water pollutants inevitably generated from the production process. The waste water generated due to the production activity is categorized per process characteristics and processed at the proprietary facilities, and the processed waste water is again directed to the waste water sewage treatment plant for second processing before release. The high-concentration waste water that cannot be processed internally are separately collected and processed by an agency, and the internal discharge allowance criteria for pollutants are more strict than the legal requirements.

Water Pollutants, basic unit



Waste discharges (Ton/m²)

*Basic unit: total annual waste discharges

General waste discharge, basic unit
 Designated waste discharge, basic un



Waste Management

ISU PETASYS sets per-process reduction objectives and manages all wastes from the stage of generation to storage and processing in order to minimize waste generation during production activities. Also, in order to minimize the environmental impact of the consigned waste, the waste processors are regularly assessed with items such as equipment, technology, consignment handling capability, and legal matters, and the wastes are consigned only to businesses with tradable grade.

Tackling Climate Change

Greenhouse Gas Emission and Energy Usage Management

ISU PETASYS engages in activities such as greenhouse gas emission calculation and management and greenhouse gas inventory establishment based on the national greenhouse gas management system [NGMS]. ISU PETASYS recognizes that the greenhouse gas emission and energy usage reduction is the core activity for climate change mitigation and engages in greenhouse gas emission and energy usage reduction activity per production process, and also gives efforts to replace aged equipment. Nevertheless, the greenhouse gas emission and energy usage showed a small increase in 2018 due to the increased production, and accordingly the 2019 objectives were set more challengingly in an effort to contribute to the climate change mitigation.

Greenhouse gas emissions and energy consumption

	Category	Unit	2016	2017	2018
	Direct emission Scope1		21,317	20,508	23,840
GHG Emission	Indirect emission Scope2	tCo₂eq	30,083	29,284	30,690
LIIII33I0II	Total		51,400	49,792	54,530
_	Direct consumption Scope1		118	122	142
Energy Consumption	Indirect consumption Scope2	TJ	619	603	632
	Total		737	725	774

Hazardous chemical substance usage, basic unit(kg/m²) *Basic unit: total annual usage of hazardous chemical substance (kg) / production amount [m²]



Air pollutant emission, basic unit(g/m²) **Basic unit: total annual air pollutant substance (g) / production amount (m²)

2016 2017 2018

Water usage, basic unit (Ton/m²) **Basic unit: total water usage (Ton) / production amount (m²)



Waste water generated, basic unit (Ton/m²) **Basic unit: total waste water generated [Ton] / production amount [m²]



Water Usage Reduction

ISU PETASYS minimizes the water usage for production to respond to the climate change. In 2018, WET equipment was examined and improvement actions were taken to stop the water supply automatically when idle.

Resource Recycle and Reuse

ISU PETASYS recycles waste generated through production activities and reuses raw and subsidiary materials in a company-wide effort to enable sustainable resource usage. For waste recycling, the internally generated waste including disposed products due to faults are categorized into 47 types, 45 of which are recycled, and 87% of wastes generated in 2018 were recycled. Also, ideas on raw and subsidiary material reduction and reuse are constantly sought for and executed. ISU PETASYS operates collection facility for valuable metals such as gold (Au), silver (Ag), and copper (Cu) included in the raw and subsidiary materials. As the result of such efforts, ISU PETASYS won a citation from the Minister of Environment in recognition for the contribution to formation of resource circulation society through workplace waste reduction and excellent eco-friendly corporate management.

Safety and Health System

Safety and Health Management System Operation

ISU PETASYS operates safety and health management system to establish a safe and healthy workplace, and maintains KOSHA 18001 and OHSAS 18001 certifications. KOSHA 18001 certification was re-certified in July 2019, and OHSAS 18001 certification is to be converted to ISO45001 in October, 2019 for new attainment and maintenance.

Industrial Safety and Health Committee

ISU PETASYS deliberates and resolves matters regarding safety and health through the industrial safety and health committee, which is seated by 8 members including the officer in charge of safety and health and the head of the labor union, and the major resolutions included amendment of safety and health management regulations, workplace improvements and such.

Preemptive ESH Assessment

ISU PETASYS reviews the ESH risks and conducts on-site examinations at a stage before the investment deliberation and consultation for building construction, equipment installation/expansion and such, through which the safety can be secured and accidents can be prevented preemptively. The preemptive ESH assessment is conducted centering on the department in charge of environmental safety, and the safety assessment is categorized into safety, health, and fire protection.

Preemptive ESH Assessment Process

Department in charge of environmental safety

Corresponding



Safety and Health Program

\overline{\overline{\pi}}

Safety accident count (accidental disaster)



Day of Safety Check



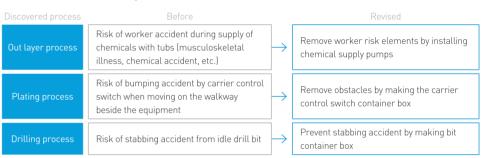
Safety and Health Program

ISU PETASYS conducts safety and health education in order to raise the safety and health awareness of the employees and establish an accident-free workplace. The safety and health education are regularly conducted every month, and also upon new hires or changes in work details. Besides, various education programs are in operation such as process safety job education, special safety and health education, and supervisor education, and education training assessments are conducted so that all employees can acknowledge the importance of safety and health.

Near-Miss Accident Discovery Activity

Near-miss accident is that there was a potential risk of an accident due to worker negligence or on-site equipment failure, but such did not lead to an accident. ISU PETASYS considers near-miss accidents as a hint of industrial disaster, and executes discovery activities at the production process stage.

Near-Miss Accident Discovery Cases



Emergency Preparations / Responses

ISU PETASYS has established emergency scenarios against accidents such as hazardous chemical substance leakage, fire explosion, or natural disaster in order to minimize damages in case of emergencies, and verifies the validity of response system through regular emergency drills 4 times a year (fire, chemical leakage, closed space rescue, etc.) and emergency items inspection (once every month). Also, a self-defense firefighting team within ISU PETASYS where CEO assumes the role of head firefighter is operated for a thorough preparation against potential fire accidents.

Healthy Workplace Establishment

ISU PETASYS operates health and work environment improvement program so that all staff and employees can work healthy and prevent work-induced illnesses. Twice every year, the work environment is measured to check the exposure of workers to harmful elements such as chemical, metal, gas, and noise. In 2018, no harmful elements exceeding the exposure threshold were found. Also, a system to prevent musculoskeletal illnesses has been established to prevent work-induced illnesses due to simple repetitive tasks through education and medical treatment, and in addition to the periodical general health examinations, regular special health examinations are also conducted for employees exposed to harmful elements such as night-shift workers. All patients are being treated first-hand through medical rooms, and emergency first-aid kits are placed at locations with high potential risk of emergencies.

^{*} Musculoskeletal illness: Illness occurs to neck, shoulder, etc., and the surrounding tissues as physical stress is accumulated due to repetitive tasks



Sustainable Supply Chain Establishment



Context

As the business areas and markets of corporations expand, the corporate supply chain from raw material stage to final production. As the risks from supply chain such as quality issue or unfair trade are also increasing, responsible supply chain management is in demand, and the coexistence with partners are increasingly recognized as an important element to secure the corporate sustainability.

Our Approach

ISU PETASYS engages in various education and support activities to enhance the capabilities of partners within the supply chain, and shares opinions with partners through mutual growth conferences. Also, in order to maintain sustainable supply chain, ISU PETASYS gives efforts for fair operation, legal compliance, anti-corruption, and raw material management.

Our Performance



Anti-corruption education performances 895 persons



Supplier CSR Audit execution rate

78%



Anti-corruption violations

Zero case



Mutual Growth

Mutual Growth Orientation

ISU PETASYS engages in various coexistence activities according to the values of joint-interest group, righteous management, performance promotion, and mutual innovation as suggested in the code of conduct to actualize mutual growth with partners. Also, ISU PETASYS strives to contribute to the CSR reinforcement of partners, and operates communication channels through conferences and such.



Joint-interest Group

Under the sense of mission that we are not simply in cooperation, but are a joint-interest community to rise to No. 1, we actualize the value of mutual growth based on trust.



Righteous Management | Performance Promotion

We respect the fair and free market economy order according to the principle of free competition among partners, and compete fairly with competitors so as to contribute to increasing the growth value of partners. We promote mutual development by

establishing mutual

trust and cooperating

relationships through

fair trade with the

partners.



We set and promote the goal to rise to be the top global PCB group.



Mutual Innovation

We select competitive partners and focus on fundamental improvements. We support the growth of strong partners and promote self-innovation so as to rise to be the global leader. We promote the value of innovation that enables coexistence by securing long-term selfperpetuity of partners.

Education and Consulting

ISU PETASYS engages in education and consulting to improve the capabilities of partners. Human resources and labor relations education and financial consulting are provided for partners, and in order to prevent infringement of human rights and labor rights at the workplaces of partners, the basic education on human resource management quideline is conducted, and the education on human resources and labor related matters such employment contracts and rules is supported. Also, risk assessment education is conducted every year, and safety and health education is supported every month so that the partners can maintain a safe workplace.





Mutual Growth Conference

ISU PETASYS conducts mutual growth conferences every year in order to share the business status and major issues with partners and establish healthy partnership culture. At the 2018 mutual growth conference, total of 20 partners participated, and reinforced the partnership relations by sharing PCB industry market environment and 5G technology matters. Moreover, ISU PETASYS strives to maintain a partnership of mutual growth by listening to the grievances and demands of the partners.

2018 Staff, Employees and

Anti-Corruption Education

895 persons

Partners Fair Trade and

Performance

Fair Operation

Fair Operation Reinforcement

ISU PETASYS has reinforced fair operation to promote mutual growth with partners. All partners are guaranteed a fair opportunity for participation, and in order to improve the capabilities of partners, partner evaluation system is in operation, based on deadline, quality, financial stability, and cooperation. The evaluation results are divided into 4 grades (A, B, C, D) where excellent partners are incentivized while shortcomings are given the opportunity to be improved. Also, in order to expand fair competition and anti-corruption culture among partners, the fair trade and anti-corruption education program is in operation for staff, employees and partners.

Anti-Corruption

Corruption Prevention and Anti-Corruption Management

ISU PETASYS complies with domestic and foreign laws and regulations regarding anti-corruption and prevents corruption through internal audit and control system. Through ISU PETASYS code of conduct and anti-bribery principles, bribery, corruption, coercion, and misappropriation are prohibited under any circumstances, and providing bribes or other methods for improper benefits is forbidden. As the result of such efforts, there has been no violation related to anti-corruption in 2018.

Internal Whistle-Blower System

ISU PETASYS has established the internal whistle-blower as an online program so as to systematically guarantee that internal/external stakeholders can report all unfair activities related to management including corruption activities. Anyone who is a stakeholder of ISU PETASYS such as staff, employee, customer, or partner can anonymously make a submission, and a unique number is attributed to each posting so as to protect reporter confidence strictly according to internal CSR rules. No submission was received in 2018, and upon report receipt, appropriate measures are taken through a systematic internal whistle-blower system process.

Whistleblowing Process



Supply Chain CSR Management

Supply Chain CSR Management Standard Establishment

In order to establish a stable supply chain, ISU PETASYS reduces potential risks in the supply chain by reflecting CSR management standards in the supplier and partner management procedure document. ISU PETASYS shall continue the persistent supply chain CSR management so that all businesses in the supply chain can build a safe work environment and promote eco-firendly and ethical corporate operation.

Audit (%) CSR Audit

ISU PETASYS executes CSR Audit in order to manage social responsibility in the overall supply chain. ISU PETASYS executes audit in four areas of human rights and labor, environment/safety/health, fair operation, and product responsibility so as to reduce the potential risks in the supply chain and reinforce the basis of sustainable management.

Supply Chain CSR Audit (%)



Raw Material Management

Responsible Mineral Procurement

The importance of conflict mineral management is globally on the rise. Conflict minerals refer to the minerals produced in countries with conflicts, and as the funds made from conflict minerals flow into the armed forces within the corresponding countries, human rights issues such as child labor, forced labor, and abuse of women are being raised. Accordingly, ISU PETASYS has established a conflict mineral management policy to exclude conflict minerals from the supply chain under any circumstances. Also, in case the information necessary to determine whether conflict minerals have been used was not sufficiently provided by the partners or non-factual information was provided, or in case the measures according to the discovery of risks in the partner supply chain was not executed, it is specified that the trade with the said partner can be suspended.

Conflict Mineral Management of ISU PETASY

- We shall establish conflict mineral work process for legal compliance by applying the international standards regulating conflict minerals, and actively support the conflict mineral prohibition activities promoted by EICC and Global e-Sustainability Initiative (GeSI).
- We shall identify the names and locations of all smelters of tin, tantalum, tungsten, and gold used in our products by using conflict mineral usage report inquiry provided by EICC-GeSI.
- $\bullet \ \ \text{We shall request the partners for written verification that they are not using conflict minerals and submission of conflict mineral usage report questionnaire.}$
- We shall support the partners to purchase conflict minerals from smelters certified by 'Conflict-Free Smelter Program.
- We shall establish the due diligence procedure according to the OECD Due Diligence Guidance, and when necessary, the partner shall execute due diligence for the executed procedures and materials for the conflict mineral usage report.

Conflict Mineral Management for Partners

- A partner must establish a documented conflict mineral management policy and procedure to exclude conflict minerals that contribute to the benefit of armed forces of Democratic Republic of Congo, or its neighboring countries, from products supplied to ISU PETASYS.
- A partner must give good-will efforts to identify all the names and locations of all smelters from which the conflict minerals were purchased within the supply chain.
- A partner must prepare the conflict mineral usage report inquiry and make a timely submission upon the request of ISU PETASYS.
- A partner must take timely rectification measures in case a risk in the supply chain has been identified.

 $\overline{\mathbb{Q}}$

2018 Anti-Corruption Violation Count

0 violation



Our Approach

ISU PETASYS is reinforcing quality management across all production processes, and based on high technology, has obtained major quality-related certifications from officially approved quality certification agency. Also, ISU PETASYS takes the quality of the final product one step higher through support activities for quality management of partners.

Our Performance



Quality System Audit



Quality Management

Entire Process Quality Management System

One of the major competitive factors of PCB industry, with the characteristics of device and material industry, is quality. As the demand level for quality heightens, the efforts of ISU PETASYS for quality is growing stronger. ISU PETASYS, according to the quality guideline, supplies the products and services the customer needs, with the level of quality the customer demands, at a competitive price, at a time the customer wants. The quality management system is applied to the entire production process from the raw material stage and the product packaging stage to secure the quality level, and the defects that may occur in the process is minimized through automatic optical test, electrical performance test and such in the PCB process stage. Also, the potential risk elements with impact on quality is preemptively shared to the production process through the preemptive alarm system (Q-Communication) and then verified so as to minimize the release of nonconforming products or omission of quality assessment.

Quality Policie

Quality policy of ISU PETASYS is that all employees shall responsibly carry out quality assurance activities satisfying customers through supplying the products & services required by customers

- ① By equipping them with the quality level demanded by customers
- ② At the time desired by customers
- 3 For competitive prices

Quality TFT Activity

Process of Quality TFT Activities

Selecting issue subjects in the process

n the process

Planning of activities and understanding of the situation

Evaluation of Improvement and execution of activities

Understanding of the effects

Standardization and

ISU PETASYS engages in quality TFT activity in order to conduct a general diagnosis and resolution of quality issues that are problematic per defect type. Based on the development of fundamental cause of defect, the ideation and proposal activities are being reinforced, allowing company-wide substantive activities for product quality improvement to take place. Also, the execution of activity promotion is improved by managing the progress of TFT on a weekly basis. In 2018, total of 4 quality TFT's selected detailed goals and improvement rates and engaged in improvement them activities, and 4 teams in the first half of 2019 and 2 teams in the second half of 2019 are in operation. ISU PETASYS fully supports quality improvement activities such as issue resolution technique education, and going forward, will continue the activities to quality improvements at the company-wide level. Quality TFT activity is not just simple resolution of defects, but to analyze the underlying cause and resolve the issue, showing the sincerity of ISU PETASYS about quality management.

PCB Manufacturing Process

Inner Layer Imaging

Using Working Film, based on the inner layer image data provided from customers, and dry film, conductive patterns are imaged on thin-cores.

Auto Optical Inspection

Inspecting and verifying pattern defects that could happen during inner layer imaging.

Lamination

Laminating oxide-treated I/ L, Prepreg, and Cu foil for outer layer into one by applying constant pressure in high temperature and cooling down to the room temperature as decreasing pressure.

Drilling

Drilling(required) holes on boards using X-Y Coordinator which implements CNC (Computer Numerical Control) method.

Routing

The process that shapes the products into required dimension. The process is divided into press depanelization and Routing, which utilizes CNC routing.

Electrical Test

methods that will minimize Cu oxidation and increase The process that tests for solderability for SMT assembly. electric integrity such as opens Most common treatments are and shorts, using test fixtures HAL, Electrolytic/Electroless Ni/ (jig).

Photo Solder Resist Printing

Au, Tin, Silver, and OSP.

Surface Finish

Applying various surface finish

Covering (thus insulating) areas that are not surface mounted, in order to protect conductive patterns from physical and chemical attacks under ambient conditions.

Outer Layer Imaging

Using Working Film, based on the outer layer image data provided by customers, and dry film, conductive patterns are imaged on external layers.

Electrolytic Panel Cu Plating

Plating over electroless Cu layer which gives conductivity to dielectric surface.

Final Visual Inspection & **Outgoing Inspection**

After 100% visual inspection, designated inspector examines outgoing inspection criteria and reliability test results through random sampling. The results will qualify/disqualify the products before shipment according to the customer's specification.

Vacuum Packing

Final packaging includes vacuum packaging the products and packaging with protective materials(fillers). Box are labeled per customers requests and outgoing and reliability test reports are also attached.

Quality and Technology Recognition

ISU PETASYS has obtained major quality-related certifications from official quality certification agencies, externally being recognized for excellent quality and technology. From ISO 9001 in 1994 to IATF 16949 in 2017, the efforts of ISU PETASYS for quality management continue. The IATF 16949 obtained in 2017 is a standard replacing the TS 16949, includes regulation requirements and customer-designated demands along with core tools for automobile production and assembly, and services and embedded products.

List of Major Certifications



TL 9000 (2003) Telecommunication Leadership 9000 has been found to cardom to the Queby Panagement System standard: ISO 9501:2015 and AS\$1000 (technically equivalent to El

AS 9100 (2007) Aerospace Standard 9100



ITAR (2010) International Traffic in Arms Regulations



NADCAP (2010)

National Aerospace & Defense Contractors Accreditation Program



OHSAS 18001 (2004)

CERTIFICATE 🐯

ISO 14001 (1998)

And others: MIL-PRF-55110F (2001), Bellcore(2001), ISO 9001 [1994]

37

IATF 16949 (2017)

Technical Specification 16949



Community Participation Expansion

Context

The times are changing from an era centering on economic value, where profit creation was considered the most important in corporate activities, to an era of social value creation, which accommodates various social demands. The demand for domestic corporations to execute social responsibility is increasing as in the movement of legislation of CSR disclosure, and accordingly, many corporations are engaging in social responsibility activities utilizing their characteristics and capabilities.

Our Approach

ISU PETASYS utilizes its understanding of the local community and its capabilities to engage in social contribution activities. The participation by employees is encouraged that they all contribute to the local community development, and providing help that beneficiaries actually need through reinforced communication with the local community.

Our Performance



Volunteer hours per employee

3 hours



Volunteer participation rate of staff and employees

23%



ISU PETASYS promotes a balanced development of corporate values and social values through social contribution activities. Rather than simple donation activities, volunteer activities where employees can participate are constantly being reinforced, through which ISU PETASYS intends to actualize the value of social contribution where both the participant and the beneficiary can be satisfied. Going forward, ISU PETASYS will continue to contribute to the local community development through activities such as local community development support, education and scholarship support, disaster recovery, social imbalance resolution, and support for the social disadvantaged.

Social contribution orientation

Social contribution objective

Developme

Create the beautiful and rich future value					
Mutual growth with	local community and social res through sharing management	ponsibility execution			
Promote distinguished social contribution activities	Communication with local community through sharing	Improve corporate image			
Increase effectiveness through concentration of social contribution activities and promote activities demanded by the local community	Reinforce communication with local residents and contribute to mutual growth with local community through various activities centering on the volunteer group.	Raise the corporate brand value and likability through social contribution activities so as to reinforce the external image			

Framework of Social Contribution Activity

ISU PETASYS has designated the management support team to be the dedicated department for social contribution activities, establishing operation standards for social contribution activities and improving the impact of community participation activities. ISU PETASYS proposes a standard for social contribution activities through the social contribution activity operation standards and clarifies the scope and objective of the activities.

Social Contribution Activity Promotion Framework

	Planning stage	Planning/preparation	Volunteer group recruiting Social contribution activity operation standards establishment
	Design stage	Current status analysis and direction establishment	Issues and current status analysis Employees opinion collection Midterm report and inspection Volunteer group organization composition
	Execution stage	Completed program	Volunteer group conference execution
		Incomplete program	New volunteer activity execution Employees donation fundraising
	Result	Effectiveness analysis	Execution performance report Social contribution program inspection Social contribution performance management [social contribution cost, participation rate, local community issue resolution rate]

Encouraging Employees' Participation

ISU PETASYS strives to help all employees understand the important of corporate social responsibility, and to settle the sharing culture, operating ISU sharing volunteer group and paid volunteer systems, and also supporting expenses necessary for volunteer activities to expand the participation rate and activity hours of the employees. In case of paid volunteer works, ISU PETASYS sets the objectives for employees volunteer activity hours and social contribution participation rates, and expands the participating volunteer activities and reinforces the volunteer group promotion to

Volunteer hours per employee (unit: hours)



Employee participation in social contribution activities(unit: %)



Major Social Contribution Programs



achieve the objectives every year.

ISU PETASYS sharing volunteer group pays a monthly visit to the general social welfare center located in Dalseong-gun, Daegu, continuing volunteer activities for the handicapped through building cleaning, wheelchair repairs and such. Going forward, ISU PETASYS will strive to do its part in the proper corporate social responsibility activities close to the local residents through sharing volunteer activities in the local community.

ISU PETASYS freely donates electronic devices (PC, monitors, printers, multi-functional printers, etc.) to developing countries in cooperation with Korea IT Welfare Agency. Unused or aged devices are collected and readjusted, and then freely supplied to the socially disadvantaged group, and 91 pieces were donated in 2018. Going forward, ISU PETASYS plans to continue to engage in responsible support activities along with the free donations every year.





ISU PETASYS conducted 'Vision School' with the local NGO as a part of the self-initiative learning program and youth activity capability reinforcement program. Specialized professionals such as make-up artists were invited for career education, while the career experience activities for youths were supported through various programs such as college tours. In 2018, ISU PETASYS partnered with two of the local middle schools to support total of 13 youths, 12 times a year. ISU PETASYS shall continue to support various career experience activities for local low-income youths through 'Vision School' with the objective of continued support into the future.

The employees of ISU PETASYS sharing volunteer group conducts briquette sharing activities for the elderly who live alone in Daegu area. Also, the scope of volunteer participants was expanded so that the family of the employees of the volunteer group can also join the briquette sharing activities. In 2018, 300 briquettes were delivered to the households of the elderly who live alone in the areas of Dalseong-gun, Daegu.







ISU PETASYS supports cultural experience activities for local low-income children every year, since the partnership with Dalseong General Social Welfare Center. Every year, the employees get together to provide various cultural experience activities such as traditional Korean housing experience, museum visits, history tours, and amusement park visits, and in 2018, twelve ISU PETASYS employees and thirty children visited Daegu E-World and had the time for cultural experience activities such as VR and iso ripk.

Appendix

CSR Performance

GRI Content Index

Third Party Assurance Statement

Principle and Membership



CSR Performance

Financial Performance

Financial Statement	Unit	2016	2017	2018
Current assets		281.63	253.31	240.46
Non-current assets		174.21	197.93	211.77
Total assets		455.84	451.25	452.23
Current liabilities		217.17	238.14	239.95
Non-current liabilities	USD million	74.84	51.46	53.38
Total liabilities	USD Million	292.01	289.60	293.32
Capital stock		34.13	38.53	36.91
Capital surplus		13.33	14.16	13.89
Retained earnings		122.10	121.99	104.50
Total Stockholders' equity		163.83	161.65	158.90

Income Statement	Unit	2016	2017	2018
Sales		477.33	469.80	508.93
Gross profit (loss)		49.33	33.98	51.57
Operating income (loss)	USD million	9.52	(7.10)	6.81
Non-operating income	OSD Million	16.05	16.55	9.85
Non-operating expenses		33.00	37.77	41.54
Net income (loss)		0.20	[13.16]	(6.70)

Creation and Distribution of Economic Value

Stakeholder	Economic value	Unit	2018
Shareholder and investor	Dividend		2,529
Employee	Wage, severance pay, benefits		64,286
Local community	Social contribution amount	USD 1,000	30
Government	Corporate tax		6,672
Total			73,517

CSR Key Performance Indicator

Human Rights & Labor	Unit	2016	2017	2018	Target for 2019
Average training hour per employee	Hour	108.1	110	96.73	100
Average training cost per employee	LICD	819	849	695	739
Total training cost	USD	700,971	751,547	625,554	673,025
Proportion of female recruits		14.5	15.0	9.6	10.6
Proportion of female employees		8.6	8.8	8.5	9.4
Rate of return after parenting and maternity leave	%	100.0	100.0	100.0	100
Rate of employees with disabilities		4.2	4.2	3.7	4.1
Resignation rate		1.65	1.20	7.20	7.9
Average length of service	Year	12.6	13	13.6	14
Average wage growth rate		4.8	4.5	7.8	8.6
Ratio of benefits to sales	%	2.0	2.0	1.4	1.5
Ratio of employees under collective agreement		94.1	96.0	91.8	100

ESH		Unit	2016	2017	2018	Target for 2019
0110	Scope 1 (direct)	10	21,317	20,508	23,840	22,648
GHG emission	Scope 2 (indirect)	tCo₂eq	30,083	29,284	30,690	29,156
F	Direct consumption	. T.J	118	122	142	135
Energy consumption	Indirect consumption	. 11	619	603	632	600
Masta diseasal	General, base unit	Ton/m ²	0.034	0.031	0.033	0.032
Waste disposal	Designated, base unit		0.034	0.032	0.037	0.036
Waste recycling rate		%	88	85	87	88
Air pollutant emission	Air pollutant emission		134.0	91.0	112.8	107.2
Wastewater discharge, base	unit	Ton/m ²	8.46	8.65	8.45	8.20
	COD, base unit		0.65	0.48	0.73	0.70
Water all that discharge	SS, base unit	1/-/2	0.062	0.085	0.12	0.11
Water pollutant discharge	T-N, base unit	Kg/m²	0.33	0.23	0.27	0.26
	Cu, base unit		0.0026	0.0022	0.0041	0.0039

ESH Unit 2016 2017 2018 Target for 2019 Water consumption, base unit Ton/m2 9.58 9.67 8.93 8.66 Hazardous chemicals leakage accidents case Number of safety accidents case % 0.0% 0.0% 0.0% 0.0% Rate of industrial accidents kg/m2 63.39 64.44 62.42 60.68 Hazardous chemical consumption, base unit Fair Operating Unit 2016 2017 2018 Target for 2019 Education on anti-corruption and fair trade 868 874 895 900 Person Rate of conducting CSR Audit in supply chain 73 76 80 % Product & Customer Unit 2016 2017 2018 Target for 2019 100 100 100 100 Rate of resolving customer complaints on time Number of findings at quality system audit case 83 77 82 84 Customer satisfaction Point Community Involvement & Development Unit 2016 2017 2018 Target for 2019 Volunteering hours per employees Hour Rate of employee participation in social contribution 28 37 23 35 activities

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Third Party Assurance Statement

To the stakeholder of ISU PETASYS:

This Third Party Assurance Statement is prepared for ISU PETASYS. Marcspon Inc. (hereinafter "assurance provider") has been requested by ISU PETASYS to verify the contents of its CSR Report 2019 (hereinafter "the Report").

Assurance	
Standard	

The assurance provider performed a Type 1, moderate level of assurance using AA1000AS (2008) as an assurance standard, and reviewed suitability according to Principles of Inclusivity, Materiality and Responsiveness. In addition, the assurance provider checked the compliance with the GRI Standard guidelines and ISO 26000.

Assurance Scope

The scope of Third Party Assurance Statement is from January 1 to December 31, 2018, which is same as the reporting period of the Report. The assurance provider reviewed social, economic and environmental performance of ISU PETASYS.

The assurance provider took the following process of review in order to check the Report's reliability and internal process used

Assurance Process

• Review of methodology and process used to calculate data

- Review of reporting contents' reference document and data
- Interviews with stakeholders related with reporting contents
- Review of material issue selection process

by ISU PETASYS to obtain data in the Report.

• Review of compliance with the GRI Standard guidelines in terms of contents and quality

The assurance provider reviewed reporting contents from draft and provided opinions to ISU PETASYS, and revision was reflected as necessary. The assurance provider verified that the Report contents reflect the CSR activities and performance sincerely and fairly without critical errors or prejudice. Also, it was verified that the Report is prepared in accordance with the 'Core Option' of GRI Standard.

The Report properly reflects the organization's alignment to and implementation of the AA 1000 Assurance Standard (2008) principles of Inclusivity, Materiality and Responsiveness in its operations. Details are provided below;

Our Conclusion

- Inclusivity: ISU PETASYS is maintaining the process of stakeholder engagement. Information is actively shared through a variety of stakeholder communication channels, and ISU PETASYS collects and reflects the opinions. Also, the assurance provider was not able to find omitted material stakeholder group.
- Materiality: The Report contains material issues of ISU PETASYS through conducting materiality assessment on economic, environmental and social issues. The assurance team could not find any critical issues left out in this process.
- Responsiveness : The assurance provider reviewed that the Report reflects the identified material issues and ISU PETASYS responds to stakeholders' opinions through the stakeholder response process. Also, the assurance provider could not find any inappropriate activities reported in the report.

Recommendation for Improvement

- The assurance provider highly appreciates ISU PETASYS' effort and performance to strengthen its CSR management. The following recommendations are to improve the quality of the next CSR Report and CSR management. • Promote CSR management-related to higher level. Promote CSR-related mission and strategic system, and Intensify KPIs
- As the importance of human rights management increases, ISU PETASYS should establish human rights management system, and select human rights vulnerable group and manage risks in the overall business value chain. Also, ISU PETASYS should tackle human rights risks in advance through human rights impact assessment.



and goals in order to operate CSR management in a systematic way.



Principle and Membership

UN Global Compact

In order to support and implement corporate social responsibility, ISU PETASYS has participated in UN Global Compact Principle as a global initiative. ISU PETASYS will secure the global level of CSR competitiveness by actively integrating UNGC's ten principles in four areas of human rights, labor, the environment and anti-corruption into its CSR policy and operation.

UN Global Compact

Human Rights	Principles 1 Principles 2	Businesses should support and respect the protection of internationally proclaimed human rights; and make sure that they are not complicit in human rights abuses.	
Labour	Principles 3 Principles 4 Principles 5 Principles 6	Businesses should uphold the freedom of association and the effective recognition of the right to collective bargaining; the elimination of all forms of forced and compulsory labour the effective abolition of child labour; and the elimination of discrimination in respect of employment and occupation.	
Environment	Principles 7 Principles 8 Principles 9	Businesses should support a precautionary approach to environmental challenges; undertake initiatives to promote greater environmental responsibility; and encourage the development and diffusion of environmentally friendly technologies.	
Anti-Corruption	Principles 10	Businesses should work against corruption in all its forms, including extortion and bribery.	

Memberships and Association

Daegu Employers Federation	Daegu Chamber of Commerce and Industry	
Korea International Trade Association	Korea Exchange	
UN Global Compact	Korea Listed Companies Association	
Federation of Korean Trade Unions	Korea Electric Engineers Association	
Electronics and Telecommunications Research Institute	Korea Printed Circuit Association	
Daekyung PSM Council Meeting	Korea Industrial Safety Association	
Dalsung Industrial Complex Safety Health Management Meeting	Dalsung Industrial Complex Environment Monitoring Meeting	
Korea Institute of Science and Technology Information	KISANHYUP	
Korea Environmental Engineers Association	Daewoosky Institute	

2019 ISU PETASYS CSR Report

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