

## **About This Report**



# Think the Green [

2016 KC Green Holdings Sustainability Report

KC Green Holdings will communicate with various stakeholders and share performance of sustainability activity of KC Green Holdings with them for mutual growth.

#### Think the Green [ ] -

Under the key word 'Green' that indicates the care for global environment, it expresses possibility of various subjects such as The Green Society, People, Company and Business in the form of bracket [ ] in order to connect with and embrace various stakeholders.

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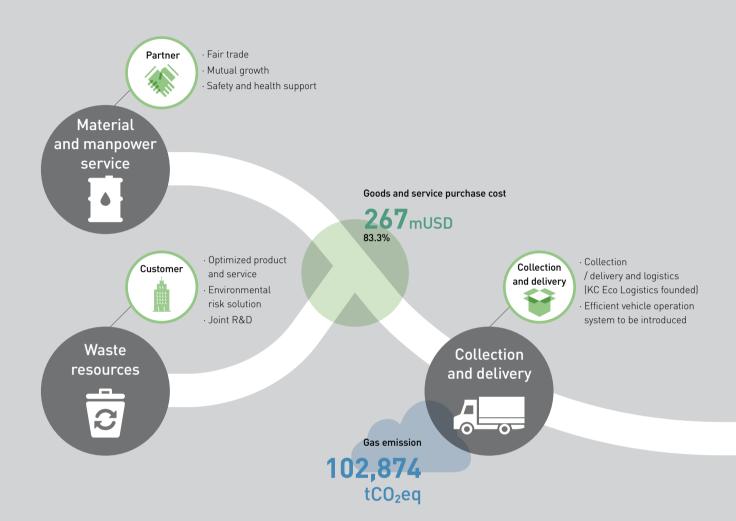
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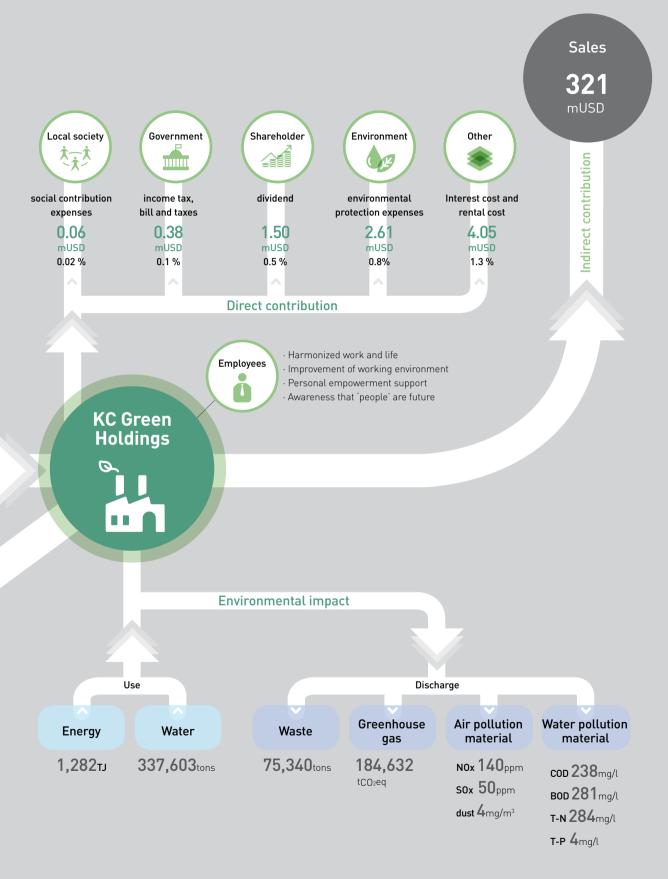
# KC Green Holdings' Sustainable Management at a Glance

Overall process to create and distribute value of KC Green Holdings





Environmental Performance





In 2015, we experienced delayed global economy recovery under the low growth trend worldwide. While the USA was restored from economic recession, the EU and China could not overcome such recession which made it difficult to run businesses. To cope with such hardships efficiently, KC Green Holdings made every effort to develop sustainable business portfolio such as active business expansion and new business model development. Thanks to such effort, KC Green Holdings has secured growth engine for longer and further development and we focus on Sustainable Management as our management philosophy.

#### Reconstruction of business portfolio for sustainable growth

Paris Agreement on climate change achieved consensus on the environmental problem solving and green house gas reduction. Awareness and criteria on global environment and energy have been rapidly changed. Under such circumstances, KC Green Holdings has made an effort to find an opportunity by reconstructing business portfolio. KC Cottrell that has supplied air pollution prevention facility and the plant for last 40 years provided 34 mUSD size waste material furnace and SRF production facility for Changwon Enertech from which KC Hanmi Environment obtained 40% of share. In doing so, we attempted to enter energy plant construction business (Mini-EPC) and have obtained visible achievement. In addition, we completed KC Enviro Services plant construction in Hwachi, KC Eco Energy's SRF production facility for reinforcement of Waste-To-Energy business, KC Hanmi Environment's waste water and oil treatment facility extension and establishment

of KC Eco Logistics to ensure logistics network of environmental resources. In Vietnam, as the economic grows rapidly, support of environmental industry becomes essential. So, we have promoted joint venture for advanced environmental businesses with local partner in Vietnam. We aim to expand business of 'Resource Recovery' successfully in domestic and overseas markets.

# In 2015, we distributed 333 mUSD of economic value to society and stakeholders, treated 36,928 tons of waste safely and recycled 171,327 tons.

KC Green Holdings engages in reduction and treatment of environmental pollution materials from industry and recycles waste resources as energy source. As a result, we treated 36,928 tons of waste, waste water and waste oil in 2015, and recycled 171,327 tons of waste resource to create new values. We supplied 290,222 tons of heat source (steam) to the adjacent industrial facility by incinerating waste or burning solid fuel. As such we have led resource circulation and recycling by converting waste to energy. KC Green Holdings improves and protects global environment with our development and growth. At the same time, we do our best to make clean management based on innovation in order to distribute more economic value to our stakeholders. Thanks to such efforts, KC Green Holdings and our affiliates could distribute 333 mUSD of economic value to society and stakeholders.

# We made effort for ethical and dedicated social activity of employees who are key for Sustainable Management

In 2015, we published the code of ethics so that employees may practice compliance and ethical management. It contains our willingness to provide safe and happy workplace for employees, to seek mutual growth with partners and to give best value to customers and shareholders. As a result, KC Cottrell was appointed as 'the best mutual growth partner company of 2015.' In 2016, we prepare a systematic decision making system for the improvement of governance structure and intend to perform social contribution activities from the company level through final approval and distribution of 'CSR Initiative.'

KC Green Holdings will make every effort to make clean environment, happy people and warm society. We will do our best for our stakeholders to enjoy happier life in a better environment.

We look forward to your continual support and encouragement. Yours sincerely,

KC Green Holdings Co., Ltd.
CEO **Taeyoung Lee** 

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# Stakeholder Dialogue

#### Purpose of stakeholder dialogue

KC Green Holdings held a dialogue to check sustainable management and to find any improvement measures. External experts make comments on the performance and direction and figure out improvement measures, which we will implement. At the first forum, philosophy and vision of KC Green Holdings' Sustainable Management were mainly discussed.

#### Main opinions



**Prof. Hyungkoo Moon**Prof. of Korea University
Business School

Sustainable management report can be downloaded from Homepage of KC Green Holdings but there is no CSR. If CSR philosophy, target and performance can be shown to stakeholders, it would be an efficient message to them. As KC Green Holdings mainly engages in environmental business, it provides global environment with positive effect. I ask for active and sustainable interest in the management as well.

Corporate Social Responsibility (CSR) treats company as a person and requires social responsibility. To cope with such social requirements, the vision of the company must be linked to CSR. I recommend KC Green Holdings to re-edit its leaflet from the 'Corporate Citizenship' perspective. Corporate Citizenship includes environment and people. For effective environmental business, it needs to study policies such as GCF (Green Climate Fund) and to make strategy to utilize it. Furthermore, KC Green Holdings must be a company leading environmental policy.

Business of KC Green Holdings itself has an effect on the sustainable of the global society. While it is meaningful to develop a new model, if we explain 'what we do' effectively, it can be recognized as environmental performance.

\* Corporate Citizenship: It means that a company has certain right and responsibility as a member of local society like person. The company has right to receive excellent management resources from society and must contribute to society in reward. Many companies define own corporate citizenship and carries our CSR activities.



Yoonki Ahn, Management director POSCO Management Research Institute (Sustainable - environment management)



Eunkyung Lee Team manager The Global Compact Network Korea

For effective sustainable management of KC Green Holdings, it is important to show willingness of CEO clearly. And, it is required to designate any issues to a certain team and member clearly so that the direction of sustainable management may be determined and it is managed continually to achieve goals.

While it is argued in Sustainable Management Report that KC Green Holdings pursues environment business, it is insufficient on 'how they contribute to environment.' It is necessary to define environment performance target and its achievement. And, CSR must contain the description on how their effort transformed society to what degree.

CSR review is common in overseas. Scope of review is not restricted to inside organization, but it recognizes supply chain as a whole. And it assesses how the contents of report are reflected in the management system. It is important to embody PDCA\* process into the organization. Embodiment stresses two things: Risk management and Value creation. It is important for KC Green Holdings to view the management of the company from CSR Risk management. In this context, it is crucial to integrate CSR vision and mission to the existing corporate vision.





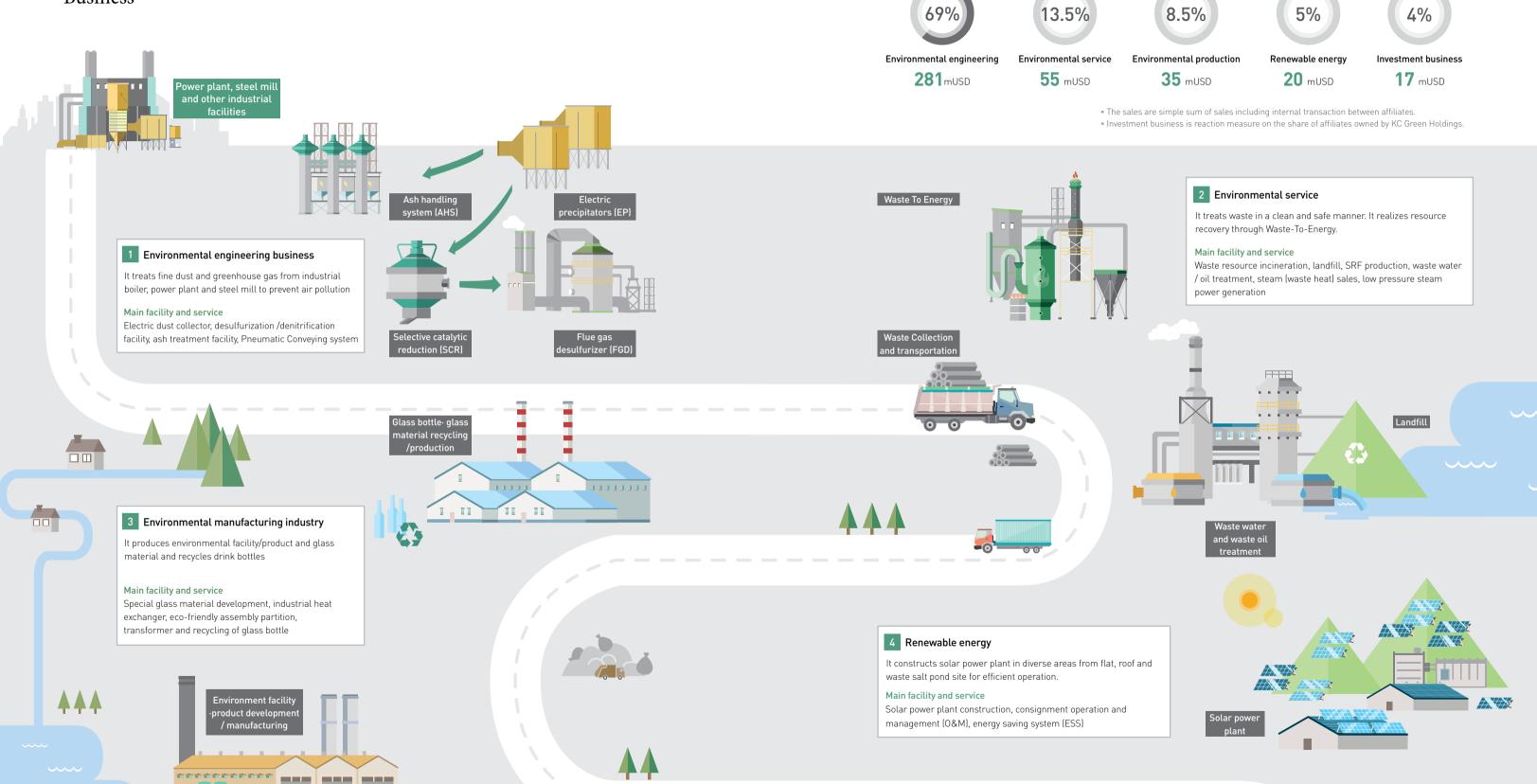
**Jeongkwon Ahn Team manager** Slowalk CSO

#### Main opinions and reflections

Proposed by	Proposed opinion	Response of KC Green Holdings				
Yoonki Ahn	Reinforcement of environmental index management	Process, performance and environment index report updated at 'KC Green Holdings at a glance'				
	Reinforcement of international index and criteria through GCF	GCF business review and promotion in progress through Korea Environmental Industry and Technology Institute				
Jeongkwon	Integration of corporation vision with CSR	To be incorporated in 2016				
Ahn	Embodiment of CSR into corporate management from the perspective of PDCA	Reflected in management strategy in 2016				
	Expression on how we contribute to society and environment	Process, performance and environment index report updated at 'KC Green Holdings at a glance'				
	Setting target and criteria of environment performance	Environmental index and target set in 2016				
Eunkyung Lee	Definition of CSR team and duties	Recruitment of staff (1 added person)				
Hyungkoo Moon	Delivery of sustainable management meaning at homepage	Section added in homepage update in 2016				

# KC Green Holdings Business

KC Green Holdings engages in environment and energy business for sustainable global society.



Sales per business

# Company Profile

KC Green Holdings dedicates business for our environment and future. With the 43rd anniversary, we strive for a new 50 years. We will make an effort to make customers and employees happy.

formation	Shar
KC Green Holdings Co., Ltd.	Cate
	Taey
11F, Digital Cube, 34, Sangamsan -ro, Mapo-gu, Seoul, Korea	Kore Indu: Econ
Nov. 27, 1973	 Jaey
Taeyoung Lee	
1119	— Orga
A-	
(NICE. As of Dec. 2015)	
www.kcgreenholdings.com	M: su
	KC Green Holdings Co., Ltd.  11F, Digital Cube, 34, Sangamsan -ro, Mapo-gu, Seoul, Korea  Nov. 27, 1973  Taeyoung Lee  1119  A- [NICE. As of Dec. 2015]

Shareholders		As of	Dec. 31. 2015
Category	Relation	No. of share	Equity rate
Taeyoung Lee	CEO	7,091,089	31.61%
Korea Institute for Industrial Economics Trade	Other	2,070,000	9.23%
Jaeyoung Lee	Relative	1,478,965	6.59%

#### anization chart

	CE0	
Audit		Management
Addit	COO	committee
Management support team	Strategic management team	Financial management team

#### Mission, Vision and Core Value

#### Mission

To embrace talented people with positive thinking;

To extend and explore Green/Environmental Business Opportunities through development and growth of our employees; And therefore, to contribute to the sustainable growth of the global society.

#### Vision

KC Green Holdings, as a holding company in the Green / Environmental business area, is committed to promote synergies among KC Network companies. Based on our solid APC business, we strive to explore synergies with Eco-friendly Green Business and Renewable Energy Business. Our target is to achieve 0.9 million dollars in revenue from our green business portfolio by 2023, and to build a transparent and solid business group in the Green / Environmental Business Area. To achieve our goal, we effectively share technologies and resources among KC Network companies, explore new business opportunities in diverse markets, and build close mutually communicating network operating systems. We will continue to grow to be a small, but powerful leading company in the Global Green Business with open communication, leadership by everyone, and mutual respect that overcomes cultural differences.

#### Core Values



Leadership by Everyone



Communication



Mutual Respect

# Global KC Green Holdings

- 01 KC Cottrell
  - 01-1 KC Air Filtertech
  - 01-2 Nol-Tec Korea 01-3 KC Energy Technology
  - 01-4 KC Africa
- 02 Changchun KC Envirotech
- KC Cottrell Vietnam
- KC Cottrell Taiwan
- 05 Lodge Cottrell UK
- 06 KC Cottrell India
- 07 Nol-Tec Systems

#### 07-1 Nol-Tec Asia

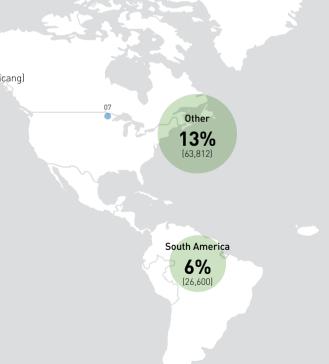
#### Environmental service division

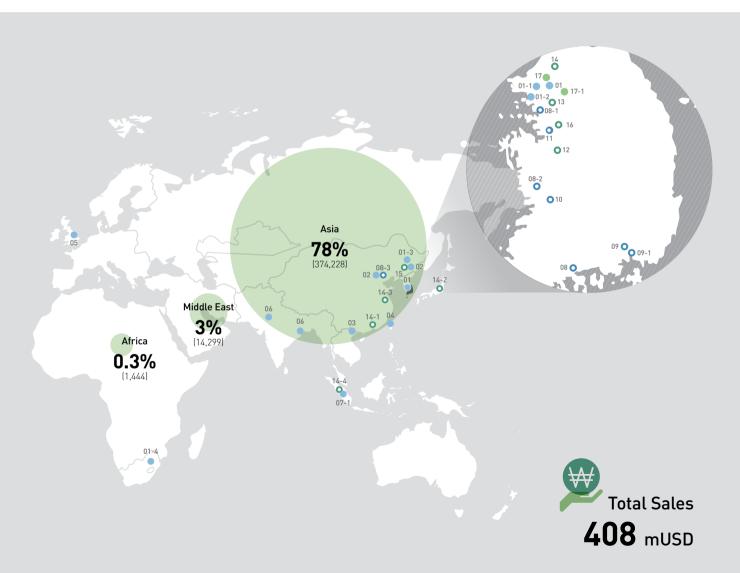
- 08 KC Enviro Services 08-1 KC Lanfill Services
  - 08-2 KC Enviro Construction 08-3 KC Catalyst Services
  - (Beijing)
- 09 KC Hanmi Environment 09-1 Changwon Enertech
- 10 KC Eco Energy
- 11 KC Eco Logistics

#### Environmental engineering division Environmental manufacturing division

- 12 KC Glass & Materials
- 13 KC Thermal
- 14 Clestra Hauserman
  - 14-1 Clestra (Hongkong)
  - 14-2 Clestra Hauserman k.k
  - 14-3 Clestra Hauserman (Taicang)
  - Architecture Product 14-4 Clestra (Singapore)
- 15 KC Envirotech E&C (Fushun)
- 16 NWL Pacific

17 KC Solar Energy 17-1 KC Green Energy





KC Green Holdings operates independent and professional board of directors to seek transparent and efficient management and to protect rights of shareholders.

#### **Board of directors**

Board of directors is the top decision making organization in the company. Based on specialty and transparency, the wage of board of directors is determined by the shareholders' meeting. In 2015, total 357,197 USD was paid to inside director, auditor and outside director. Total 39 times of board of directors' meeting were held in 2015 having 54% participation of outside director and 85% of auditor. Main agenda, participation of outside director and decision result are disclosed at the electronic disclosure system.

(As of end of Apr. 2016)

Full

Full

time

Full

time

Part

Full

time

Male

Male

Male

Male

Male

#### 2015 performances

Enactment and education on code of ethics of employee to protect shareholder.Introduction of e-voting system for KC Cottrell

#### 2016 plan

Enactment of corporate governance charter, updated homepage disclosure

Board of directors'

auditor and auditor (%),

No. of meeting (time)

Average attendance rate of

2013 (21) 83%

2014 (25) 71%

2015 (39) 69%

meeting

#### Director and auditor

Category

Inside director



Representative director, KC Glass & Materials

· Vice president of KC Green Holdings

Representative director, KC Green Holdings

Chamber of Commerce and Industry

Simon Fraser University MBA

(Bachelor's Degree)

· Vice president of environment climate committee of Korea

Vice chairman, Korea Environment Industry Association

Seoul National University Dept. Business Administration



· Former Korea Institute of Machinery & Materials

· Former Korea IBM Science Technology Support Center

Seoul National University, Dept. of Mechanical Engineering





· Prof., Kookmin University, Dept. of Business Administration

· University of Texas at Austin, Business School, (Ph.D in Accounting) · University of California Berkerley, Business School (MBA)

Seoul National University, Dept. Business Administration

Jaekyung Lee

Auditor

· Adjunct professor of Hanyang University, College of Engineering

Former managing director of Korean Air Former team head of financial management of Hanjin Group

Hoseo Graduate school of venture (Ph.D)

Jongryul Kim

## Management committee

With the representative director as the chair, the management committee of KC Green Holdings was established whom engages in management review, strategic management planning and decision making on investment.

# KC Green Holdings' Sustainable Management

KC Green Holdings has management philosophy to protect global environment and to create values continually.

#### Core Value, Vision and Mission

#### Vision

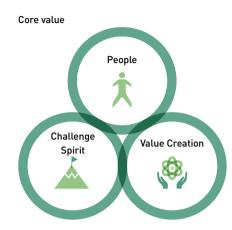
#### Global GREEN Business Company

Global Leader of environmental industry with the recognition of by its transparent and sound management

#### Mission

Fostering human resources and challenges the best technologies and services will create sustainable corporate values and contribute to the development of humanity.

- · Create synergy through sharing and spreading
- · Expand to new markets and new industries
- · Win-win management through bi-directional networks
- · Build corporate culture of self-motivated participation and mutual-respect



#### 7 Major Issues of Sustainable Management

#### Society T Environment 09 Economy 👍 · R&D Environmental Pollution Family-friendly Management Win-win Social Performance Management contribution prevention cooperation management Innovation System activities · Quality and Fair competition · Employee **Environmental** product health Risk · Ethical information technologies and safety management Management · New Use of Training and Knowledae · Product sustainable businesses education Management responsibility resources Governance · Customer Renewable happiness Energy · Participation of stakeholders

#### Goals for sustainable management and Business Group Goals

Goals for sustainable management	Strengthen communication Internalize sustaina management in compar management inde		in company-wide	Establish CSR strategies	
	Environmental engineering	Environmental Services	Environmental Manufacturing	Renewable Energy	
Business Group Goals	Develop and manufacture environment-friendly air pollution control facilities for sustainable global environment     Expand Waste-to-Energy Business	· Construct handling system that restores wastes and sewage to safe and clean nature	Develop and manufacture high efficiency and high performance environmental equipment	· Develop environment -friendly renewable energ for the future environmen	

Stakeholder

KC Green Holdings figures out main issues through communication with stakeholders and reflects them in the sustainable management.

#### Customer • Customer satisfaction survey through • Large, medium and small environment guestionnaire and interview enterprise mutual growth contract (Environment Industry Association) • Joint R&D with customers 6th Green Economy Forum participation • Hosting and participation in affiliate and (KC Cottrell) customer discussion . . . • Environmental expo and seminar participation Customer Government Employees Support of local event Grievance handling system (regular) Support of tuition for local school • Sports event per division and company · Firefighting training in C Green Holding Employees · Labor and management public and private committee per quarter cooperation Voluntary activity for social company Shareholder Partners Shareholder Partners • Board of directors' meeting of KC Green Holdings • Construction quality meeting per quarter Management disclosure (regular) • Mutual growth workshop homepage • Health examination of employees of partner • Corporate presentation (regular) companies - KC Green Holdings, KC Cottrell • Environment evaluation of supplier Business report (half-year, quarter) Performance presentation (regular)

# Materiality Assessment

Step 1. Determination of sustainable management issue KC Green Holdings selected 26 specific issues by analyzing 2013 sustainable management mission and vision, sustainable management standards and proposal of experts. Materiality Assessment was progressed to collect opinions of various stakeholders.

Step 2. Materiality Assessment of stakeholders Materiality on the 26 issues was assessed through a questionnaire survey. KC Green Holdings wishes to communicate with stakeholders and wishes to carry out sustainable management in the same mind with them. For this purpose, we carried out the first questionnaire survey with various stakeholders to deliver our intention of sustainable management and to promote participation of sustainable management. Based on the results, we figured out main projects and decided key report issues.

Step 3. Selection of key issues Key issues were selected reflecting opinions of stakeholders, internal strategy, law and regulation and market trend. It figured out the direction of sustainable management and contained performance in the report. We will pay more attention on other issues than key issues continually.

#### Materiality Assessment matrix





# Safety and Health

Safety of the employees is the utmost value of the company as the company engages in plant construction and waste management with heavy safety risk. KC Green Holdings carries out periodic education and safety and health assessment to all affiliates to prevent accident in advance and to develop safe workplaces.



ccident-free oal

oat ) (1 company▲) health certification d a

8 times of disaster free achievement (KC Glass & Materials) Internal award for safety and health Special award (KC Eco Energy)

# Safety and health certification

KC Green Holdings puts safety and health of employees at its first priority. Main affiliates obtained OHSAS18001<sup>1)</sup> and KOSHA18001<sup>2)</sup> to execute, assess and update safety and health. Such acquisition of safety and health management certificate not only awakens the autonomous safety awareness to all employees but also reduce loss and disaster at work. Besides, KC Air Filtertech and KC Eco Energy obtained 'Risk

Assessment Recognition' by minimizing risky and harmful factors in workplaces. NWL-Pacific and KC Air Filtertech

received 'Clean Workplace Recognition' by observing safety criteria on the installation and handling of industrial facility.





<sup>1)</sup> OHSAS18001: Health and Safety Management System

<sup>2</sup> KOSHA18001: Autonomous safety and health system to promote disaster prevention and corporate loss prevention activity

## Certification of Safety and health

Earth

Category	Company
DHSAS 18001	KC Enviro Services, KC Cottrell, KC Envirotech E&C, Changchun KC Envirotech, KC Thermal, Lodge Cottrell UK
KOSHA 18001	KC Cottrell, KC Hanmi Environment, KC Glass & Materials, Clestra Hauserman
Risk assessment recognition	KC Eco Energy, KC Air Filtertech (2015)
CLEAN Workplace recognition	NWL-Pacific, KC Air Filtertech (2015)

AGENDA of

KC Green Holdings'

Sustainable Management

- 1. KC Glass & Materials: morning gym, safety campaign per quarter and self-firefighting unit activities
- 2. KC Eco Energy: Mock training in event of safety accident and monthly education to employees



KC Eco Energy Co., Ltd. won special award for safety and health

supervision of representative, Taeyoung Lee to make quick and coherent decision making as a control tower. NWL-Pacific, KC Glass & Materials and KC Eco Energy make effort to improve health of the employees and to develop accident response ability through periodic physical training and mock training. KC Green Holdings and affiliates will make an effort to prevent disaster by keeping safe and clean working environment in order to grow as a healthy company.





#### Safety and health assessment

To keep clean and safe working environment and to improve health of the employees, KC Green Holdings evaluates safety and health activities of affiliates and award qualified affiliates. In 2015, KC Hanmi Environment won safety and health award again following 2014 for the acknowledgement of periodic safety and health training and active improvement of safety check and working environment winning the full score of the evaluation. KC Eco Energy won special award for the discovery of potential risk factors and for active improvement of working environment.



#### Worker safety and health (KC Enviro Services)



As the environment issues became national issues, efficient recycling of waste as 'resource' has been stressed. KC Green Holdings makes effort to create synergy and management efficiency between affiliates having different waste treatment processing in a different area.



registration 6 cases





performance

13 mUSD

#### **CC100 Operation Innovation Project**

Following CC20 project in 2010 for the cost reduction, KC Cottrell performed operation innovation project for 2 months from October to develop progressive organization culture and to cope with rapid changing market environment.

## Challenging task solution

- Grant challenging task to division
- Team immersion experience and success experience through participation and concentration for problem

## Organization diagnosis

- Introduction of issue on awareness and attitude of employees and
- fundamental cause Key leverage point for organization change / innovation

#### Change/innovation program

- Awareness innovation and empowerment through weekly change/innovation education
- · Innovation activity by all emplovees • Promotion/awareness
- improvement activity

Under the target of challenging culture, achievement focused atmosphere, passionate organization, teamwork and influential leaders, this project had 7 steps including granting challenging task → Problem solving → Problem check at solution process → Announcement of solution plan → Innovation education. Through CC100 project<sup>1)</sup> employees had a chance to figure out problems and to have a mind to solve problems in an active and innovative mind beyond passive attitude.





CC100 Project: It stands for "Challenge & Change" and "One(1) Mind, with United (0) Spirit to create Permanent (0)





The 2nd TOP Unit Meeting

<sup>1]</sup> I Market Korea (MRO service company)

#### The second TOP(Total Operational Performance) Acitivity

After the success in the first TOP activity (from June 2014 to December 2015), KC Enviro Services, KC Hanmi Environment and KC Eco Energy have performed the 2nd TOP activity since January 2016. This activity sets increase of sales, cost reduction, increase of operational efficiency, and safety and environment activity as its targets. In the 2nd activity, they increase correlation between activity and management as they include these targets in their business plan for 2016 and they reinforce its implementation by having their field staffs participate in the unit activity. Repair consumables, safety and electric materials and medicines are registered in IMK<sup>1)</sup> to promote purchase through the system. The use of IMK makes employees more convenient and may reduce work burden. Through the 2nd TOP activity, promotion of management innovation and active participating culture has been settled. We will make continual improvement on the activity.

#### R&D

KC Green Holdings and affiliates carry out continual R&D activities to provide differentiated technology for customers and to reinforce competitiveness.

#### R&D projects

#### Projects in progress

- $CO_2$  collection technology commercial package development for 100MW dry  $CO_2$  collecting plant operation (KC Cottrell)
- Delivery of electric dust collector system to Gangnam Ring Road 7-2 section (KC Cottrell)
- Development of manufacturing medium quality desulfurization and denitrification SCR catalyst (KC Cottrell KC Enviro Services)
- Module type complex dissipation power system development [KC Cottrell]
- $CO_2$  solution technology development through heavy metal stabilization of ash purification and mixed mineral waste (KC Cottrell)
- Long Bag Test R&D (KC Cottrell KC Air Filtertech)
- Validity test of sintering denitrification complex system (KC Cottrell)

#### Projects to progress

- Development and validity of desulfurization system by applying condensing system at the rear of desulfurization facility (KC Cottrell)
- New biomass fuel development using bio waste (KC Cottrell KC Eco Energy)
- High-tech material (insulation material, ceramic, Glass Bubble Frits)

  (KC Glass & Materials)
- New material development of electronic thermal control new material development for high density electronic device (KC Glass & Materials)
- Evaluation of ESP for dust collection on core business systems [Nol-Tec Systems]
- Modify air pad distributor, dehumidifier guidelines (Nol-Tec Systems)

- Development of low heat expansion crystal glass board technology (KC Glass & Materials)
- Medium IR optical glass part technology development [KC Glass & Materials]
- In-duct mixing addition for DSI/ACI (Nol-Tec Systems)
- Standards for sizing gas-management on systems without air assist (Not-Tec Systems)
- Hose switch design (Nol-Tec Systems)
- Site evaluation method development on life and performance of solar power module (KC Solar Energy)
- High concentration waste water treatment system (KC Hanmi Environment)
- Waste oil separation system process (KC Hanmi Enviroment)
- Waste oil purification system (KC Hanmi Environment)
- Development of technology of overcoming difficulties in combustion to improve solid fuel efficiency at 50t/d commercial solid fuel applied facility (KC Eco Energy)
- Collection of valuable metal by solution extract after manufacturing medium oil desulfurization catalyst (KC Enviro Services)
- Low cost/ high efficient process system of crystal silicon solar power waste module and process technology development (KC Solar Energy)

#### R&D status



R&D personnel 31



Investment cost 1.7 mUSD

#### R&D achievements

	Title	Right holder	Reg. date	Reg. no
1	Independent micro grid distribution panel	KC Cottrell	2015.04.24	No. 10-1516802
2	Heat exchanger piping support structure	KC Cottrell	2015.05.12	No.10-1521282
3	Modular Hybrid energy power supply system operating method	KC Cottrell	2015.11.16	No.10-1570833
4	Waste catalyst integrated cleaning device at medium oil desulfurization and depressurized desulfurization process	KC Cottrell	2015.08.25	No. 11-548503

#### Modular Hybrid energy power supply system development and Assurance

KC Cottrell participated in 'Modular Hybrid energy power supply system development and assurance' project as an energy development project by the Ministry of Trade, Industry and Energy. Besides KC Cottrell, S Energy, Samsung SDI, Intec FA, Korea Electro technology Research Institute, Myongji University and Chonbuk National University. Korea Institute of Energy Technology Evaluation and Planning played a supervision role and assurance complex was installed at Jam-Island in Jinhae Bay in March 2015. Modular Hybrid energy power supply system is a complex power generating system that can make optimal combination and cope with load increase considering the size of complex, natural environment and loading condition. Since the installation, it is expected that electric energy can be sufficiently used in an area where sound power supply is difficult.

# 



Front view of Modular Hybrid energy power supply system of Jam-do, KC Cottrell

#### Expansion of business portfolio

**Establishment of KC Eco Logistics** In October 2015, KC Eco Logistics was founded to collect and deliver waste and obtained license for such area. KC Eco Logistics would be an efficient strategy to the growth of domestic waste handling market and to create synergy in the domestic environment services division. It aims to grow as a general environment logistics company by composing nationwide network.

#### Nationwide logistics network of environment resource



**Metallic material business** KC Glass & Materials started metallic material business since February that produces cable copper plate and electromagnetic shield copper alloy to prevent malfunction of precision machines and electromagnetic. It will diversify customers and products with the application of copper alloy materials.





Changwon Enertech Incineratin

**Equity investment to Changwon Enertech** KC Hanmi Environment invested equity to Changwon Enertech to treat additional 84 tons of waste. And, it can produce SRF production and steam production for 300 tons/day and 50 tons/ hour.

#### **Expansion of facility**

KC Enviro Services started operating plant in Hwachi. Waste treatment facility of Hwachi Plant of Environment Service was designed in FBC (Fluidized Bed Combustor) type that is optimized for liquid and sludge waste. Thanks to the completion of Hwachi Plant, additional 84 tons of waste can be treated at KC Enviro Services. Main structure of Hwachi Plant was produced at KC Envirotech E&C(Fushun) to reduce the cost of construction. Waste heat can be supplied to adjacent factories which may increase sales. KC Eco Energy will complete leachate treatment facility in 2016. It is a facility to make chemical treatment of leachate from landfill process, which may prevent environmental pollution and may reduce leachate treatment cost.

# Ethical Management

Ethical management and ethical awareness are utmost important to earn trust from stakeholders in the contemporary management environment. KC Green Holdings enacts the code of ethics to improve ethical awareness and performs ethical education. We will enhance credibility from stakeholders with transparent and honest ethical management



Ethical education participation rate of employees

**69.7%** (increased 110 over last year)



Case of corruption

0 case

#### Code of ethics

KC Green Holdings established the code of ethics to make clean and transparent company and shared it with affiliates. For all employees to recognize the need of ethical management, KC Green Holdings progresses on the presentation or improves on the code of ethics to share the definition and the need of ethical management with affiliates.

•	Chapter 1 Basic attitude of employees	Basic attitude of employees to understand mission, vision and core value and to achieve them
•	Chapter 2 Fair trade and fair competition	Attitude to participate in market competition in a just and fair mind seeking mutual win-win with partners without engaging in any bribery, embezzlement or other corruption activities
•	Chapter 3 Responsibility to customer and shareholder	Responsibility to provide better value for customer and shareholder with management innovation and efficient management
•	Chapter 4 Social responsibility	Willingness to recognize economic, social and environmental responsibility and achieve targets for sustainable management
•	Chapter 5 Application of ethical management	Description of establishment of code of ethics, its objective and target to all affiliates of KC Green Holdings



The Code of ethics of KC Green Holdings - KC Cottrell (Anseong factory) Signature of employees

#### **Ethical education**

KC Green Holdings and affiliates carry out a periodical internal education to improve ethical awareness of employees including business manner education and sexual harassment prevention education. In 2015, total 490 employees from 11 companies have had an internal ethical education. The number increased by 110 over 2014 and KC Green Holdings will make a continual effort to improve the ethical awareness of employees.

#### Participation of ethical education to affiliates



Based on 12 affiliates where ethical education is obligatory

#### Execution of ethical education

Business division	Affiliate	Education	Time (count)	Attendant (person)			
Environmental	KC Cottrell	Business manner education	2 (1)	98			
engineering	KC Cottrell Anseong Factory	2 (1)	38				
	Nol-Tec Korea	Sexual harassment prevention education	1 (1)	22			
		Personal information protection education	1 (1)	13			
	KC Air Filter Tech	Sexual harassment prevention education	prevention education 1 (1)				
	KC Cottrell	Company culture	2 (2)	24			
	Vietnam	Harmony in working	2 (4)	24			
Environmental	KC Enviro Services	Sexual harassment prevention education	1 (1)	30			
service	KC Eco Energy	Sexual harassment prevention education	1 (1)	58			
	KC Hanmi Environment	Transparent transaction with stakeholders	2 (2)	46			
	KC Landfill Service	Sexual harassment prevention education	1 (1)	8			
Environmental production	Clestra Hauserman	Sexual harassment prevention education	1 (1)	20			
	KC Glass & Materials	Ethical management standard education	1 (team education and disclosure)	130			
		Sexual harassment prevention education	1 (2)	65			
		Personal information protection education	1 (2)	65			
	KC Thermal	Sexual harassment prevention education	1 (1)	3			

#### Fair trade

KC Green Holdings makes efforts to create sustainable performance through transparent and fair trade. To improve ethical awareness of employee, we embody fair trade and fair competition in the code of ethical to stress fair trade and competition. As a means of fair trade per affiliate, KC Cottrell invites more than 3 bidders in bid and takes strict confidentiality measure on the estimated price (basic price). KC Glass & Materials also sets at least 3 bidders in bid and requests partners to cooperate transparent mutual win-win by sending compliance letter of ethical management.

#### Corruption and violation of regulation

6 violation cases of regulations were detected in affiliates in 2015 and about 16,985 USD of penalty was paid and 1 month suspension of business was sanctioned for the designated waste treatment. While there was unintended violation, we make an effort to prevent recurrence.

#### Corruption and violation of regulation



# **Employees**

Respect and investment to employees are social responsibility and also are the most important investment for growth and development. KC Green Holdings make efforts to invest 'people' such as working environment improvement and job creation with recognition that people are the most important resource.



New hiring of female employees

29person [19person ▲]



Employment rate of non-regular job

8.0% (1.5%p ▼)



Total education time of employees

**24,047** hours



Grievance handling 17<sub>cases</sub>

KC Green Holdings makes every effort to respect every employee's human right and to provide equal opportunity. In 2015, total number of employees of KC Green Holdings and affiliates is 1,119. While the total number increased, the number of non-regular jobs decreased. It was 8.0% which was 1.5% point decrease over 2014. While the number of female employees decreased, 29 new female employees were hired which made the number increase by 19 compared to the previous year. In 2015, 7 and 6 female employees used maternity leave and childcare leave. Return rate after childcare leave was 100%. KC Green Holdings makes effort to develop woman friendly corporate culture. KC Green Holdings never discriminates people from sex, religion and social status and provides equal opportunity to practice sustainable personnel management.

#### Information of employees

Category	Classification	2013	2014	2015
Employment	No. of total employee (person)	1,182	1,111	1,119
	Employment of disability (%)	0.5	2.4	4.2
	Contractual worker (person)	216	94	89
	New hiring (person)	137	133	192
	Average continual work years (years)	6.2	7.2	7.2
Retirement /	Retirement rate (%)	6.3	4.8	10.2
turnover	Turnover rate (%)	6.2	11.7	16.1
Female /	No. of female employee (person)	150	159	158
childbirth	No. of new hired female employee(person)	26	10	29
	No. of female manager (person)	42	35	34
	No. of maternity leave (person)	7	1	7
	No. of childcare leave (person)	3	0	6
	Return rate after childcare leave (%)	100	-	100
Management	No. of employees in the labor union (person)	410	391	343
and labor communication	Ratio of labor union subscription (%)	34.7	35.2	30.7

2015 employee composition by age

Below 30 12%

30~ 50

Over 50 25%

#### Grievance handling process

KC Green Holdings and affiliates developed grievance handling process to improve working environment of employees. The management team received personal grievance and it was solved through management report and grievance committee. As a result, total 17 cases were handled in 2015 (KC Eco Energy, KC Glass & Materials and KC Hanmi Environment). We will make an effort to provide employees with pleasant and comfortable workplace.



Sports event of environment service affiliates

#### Unity activity of employees

Environmental service affiliates of KC Green Holdings hold sports event annually for networking and unity of employees in different affiliates. Besides, KC Cottrell India hosts Family Day, KC Cottrell Taiwan hosts sports event and Nol-Tec Systems makes effort to develop joyful working environment through satisfaction survey of employees.

#### Education for employees

KC Green Holdings promotes education plan to each personnel. And, it enacts training and education regulation and provides language and special education as well as job capability empowerment with equal opportunity.

Subject of education (person)	876	Language education (hour)	1,691
No. of education	848	Job education (hour)	13,742
		Special education (hour)	379
Total education hours	(hour)	Education hour per person	(hour)
Total education hours 2014 19,129	(hour)	Education hour per person 2014 17	(hour)

#### KC Cottrell education system

Category	Education per rank		Job ed	ob education				Other education			Qualification education
Category	Compulsory	Core personnel education		Outsourcing education		All employees			Optional course		
Officer	New director and head of corp. education	Comp	oulsory				Safety				
Team head	Team head education						education				
Senior level	New team head education	Personnel		Engineer	Manager	Job capacity empow-	(4), sexual harass- ment pre-	KMS	Mentoring	Internal technical	Language/ job related qualification acquisition
Manage	Negotiation education	exchange with affiliates/	Special degree	com-	com-	erment	vention	KIND	activity	education	
Assistant manager Employee	New employee education	overseas seminar	course	pulsory	pulsory	course	education (compul- sory)				

# **Customer and Partners**

Due to rapid management environment change and intensification of regulation in the contemporary, customer requirements have ever increased. To satisfy customers, authentic value must be delivered and ethical and fair cooperation with partner as 'companion' is required. KC Green Holdings makes effort to deliver genuine value with optimized products and services and supports partners to achieve such value.



As a customer survey result of KC Cottrell

Overall 'Satisfaction'

**\$3** 

Korea South-east Power Co.

- KC Cottrell KOSEP World Class investment (2015-2017)

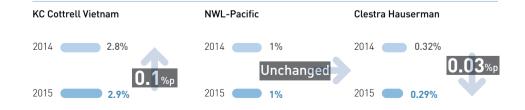
15 mUSD

#### Communication

KC Green Holdings weighs high on stability and development of partners. With mutual win-win and cooperation, services and products of KC Green Holdings would have higher value. Through active communication with partners, we listen to their grievance and requirements. Periodic discussion, workshop and questionnaire survey are carried out by affiliate. As for KC Air Filtertech, they hold an annual dialogue for quality improvement to 87 partners. KC Glass & Materials pays incentives if joint target is achieved.

#### **Customer satisfaction**

At the customer questionnaire survey by KC Cottrell, the result was 'Very Satisfaction' and 'Satisfaction' in all areas. In particular, the kindness of staff and customer response had high points. As for the product defect rate, KC Cottrell Vietnam increased by 0.1% point from 2.8% in 2014 to 2.9% in 2015, but NWL-Pacific kept 1%. Clestra Hauserman reduced by 0.03% point with 0.29% compared with the last year.





KC Cottrell was awarded the 'bes mutual growth partner company of this year'

#### Mutual growth

Thanks to the effort for providing best services and products with customers, KC Cottrell was awarded the 'best mutual growth partner company of this year' by the National Commission for Corporate Partnership. As an excellent partner of POSCO, we contributed to develop productivity and was recognized for the achievement of joint entrance to overseas market with the 2nd and the 3rd partners.

KOSEP World Class (KWC30) is a program by Korea South-East Power to select excellent small and medium standing companies to develop as a global hidden champion. It is progressed in two sessions from 2015 to 2017, and the total investment will be 1.53 mUSD. By the support of Korea South-East Power, KC Cottrell achieves productivity increase, cost reduction and job creation effect through internal capacity diagnosis, long-term growth strategy planning, domestic and overseas market analysis and operation innovation consulting.

Corporate diagnosis and consulting

Corporate capacity diagnosis and long-term growth strategy planning

Market expansion

- 1. Renewable energy and fine dust business market pioneering
- $2.\ Desulfurization\ facility\ overseas\ market\ pioneering$

Technology

- 3. (R&D) Development and validity of desulfurization system by applying Condensing System at the rear of desulfurization facility
- 4. (R&D) Long Bag Test Tower development for the fine dust treatment facility development

Investment

5. Production process improvement

Management innovation informatization

- 6. Profit increase and operating innovation consulting
- 7. IT UP-grade for work process improvement

PM and performance management

Growth task promotion check and performance assessment management

Market survey (common)

Analysis of global co-generating power plant market

# Environment

As all management activities of a company affect environment, companies are required to manage pollution material effectively as well as developing eco-friendly product. Business of KC Green Holdings had direct and indirect impact on environment. We have a sense of mission of keeping global environment and make effort to minimize adverse environmental impact.



ISO 14001 certification



Waste recycling 171,327ton



Environmental cleaning 633.760 tons



Reduction of greenhouse gas through solar power generation

**3,443** tons

KC Green Holdings and affiliates spare no effort for development and investment to minimize environmental pollution materials in the workplace as well as for the protection of sustainable and clean global environment.

#### 2015 environment communication activity with affiliates

KC Enviro services, KC Hanmi Environment	KC Eco	Energy
Participation in technical forum to improve waste management system by the ministry of environment	Participation in government policy presentation on safety and environment	Organizing Honam regional committee of Korea Industrial Waste Resource Mutual Cooperative

#### Environmental management system

KC Green Holdings' affiliates set environment management as the corporate management policy with ISO14001, environmental management system and make continual improvement of environmental management with specific target. In 2015, NWL-Pacific received the certification in addition. Thus, total 10 companies received ISO14001 certification.

#### Affiliates' environment certifications

IS014001	KC Cottrell (including workplace), Lodge Cottrell UK, KC EnviroServices KC Landfill Service, KC Enviro Construction, KC Hanmi Environment, KC Eco Energy, KC Glass & Materials, NWL-Pacific (2015), Clestra Hauserman
Green technology certificate	KC Glass & Materials
Excellent recycling product GR certificate	KC Glass & Materials

KC Environ Services and KC Glass & Materials install 24-hours monitoring system on 7 major air pollutants such as dust, sulfur oxides and nitrogen oxides in order to minimize pollution materials.

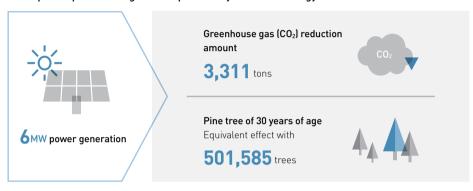
## Renewable energy (KC Solar Energy solar power plant)

KC Solar energy, the affiliate of renewable energy in KC Green Holdings manages and operates solar power plant facility. Solar power produces eco-friendly energy. As solar power is infinite, it shows continual growth. In 2015, GMK 11.5 MW was constructed and it attempts to penetrate into various markets besides large solar power plants.



GM Korea 11.5MW Solar power plant

#### Solar power plant managed and operated by KC Solar Energy



#### Environment improvement through product and service improvement

Company	1	mprovement activity		Effect	
KC Enviro Services		RKS ID FAN INVERTER applied		Reduction of pow	ver
KC Hanmi Environment		SDR bottom dust treatment system improvement		Reduction of labo and packing cost 25,478 USD	
KC Glass & Materials		Reuse of disposable wood pallet		Reduction of 6,794 USD	

#### 2015 Environmental business performance







#### Environmental performance per affiliate

Affiliate	Category	Details	Treatment/ production	Unit	Remark
KC Enviro	Environmental cleaning	Waste incineration	43,144	ton	
Services	Energy recycling	Reuse of waste heat (steam)	83,544	ton	
	Waste recycling	SCR catalyst remanufacturing	230	m³	
KC Landfill	Environmental cleaning	Waste landfill	422,540	ton	
Service		Water pollutant	25,056	ton	Treatment of leachate
KC Enviro Construction	Waste recycling	Reuse of construction waste (aggregate, filling powder, scrap, Wnon-ferrous, waste plastic, waste wood)	85,000	ton	
KC Hanmi	Energy recycling	Reuse of waste heat (steam)	36,900	ton	
Environment	Environmental cleaning	Waste incineration	24,630	ton	
		Waste oil	20,923	ton	
		Waste water	40,721	ton	
KC Eco Energy	Environmental cleaning	Waste incineration	25,419	ton	
		Construction waste treatment	81,269	ton	
	Energy recycling	Reuse of waste heat (steam)	50,516	ton	
	Waste recycling	Construction waste recycling	53,136	ton	
		SFR production	2,863	ton	
KC Glass &	Waste recycling	Waste glass recycling	44,402	ton	
Materials		Sales of waste	50	ton	
	Environmental cleaning	Water pollutant (waste water)	16,599	ton	
		General waste (waste treatment sludge and waste synthetic resin)	114	ton	
		Designated waste dust and waste oil)	103	ton	
	Energy recycling	Waste heat boiler installation (Energy cost reduction)	2.6	TJ	
		Waste heat boiler installation (Greenhouse gas, CO₂ reduction)	133	TCO <sub>2</sub>	
	Renewable energy production	Sales of solar power energy	171,500	kwh	

2014

(ton)

(mg/l)

# Community

In the contemporary society, a company can achieve sustainable growth when they perform social responsibility along with creating economic profit. As the sympathy and consent of local society is required in the business of KC Green Holdings, we spare no effort for the local development and for participating in local events. We will continue to carry out systematic social responsibility management through CSR Initiative and strategy development





Local event participation and support

20 cases

Energy consumption

2012

Lifer gy consumption		(1)		
Category	2012	2013	2014	2015
Fuel energy	331	343	211	209
Electric energy	451	463	7,835	328
Other (renewable energy)	40	100	5,187	745
Total energy consumption	787	907	13,234	1,282
Remark		20 companies	18 companies	16 companies
		reported	reported	reported

2013

Vaste generati	on			(tor
Category	2012	2013	2014	2015
General waste	19,966	101,903	30,395	47644
Designated waste	1,516	3,859	30,673	7630
Total waste generation	24,876	105,762	61,068	75,340
Remark		11	8	9
		companies reported	companies reported	companies reported

2015

Total expenses (Unit: mUSD)

Ratio over sales [%]

Water	consumption
-------	-------------

	•			
Category	2012	2013	2014	2015
General water	-	-	280,173	271,802
Recycling water	-	-	47,750	65,802
Total water consumption	387,459	397,048	327,923	337,604
Remark		20	18	16
		companies reported	companies reported	companies reported

waste				
Total waste generation	24,876	105,762	61,068	75,34
Remark		11	8	
		companies	companies	companie
		reported	reported	reporte
Greenhouse a	as dischar	ge		(tCO <sub>2</sub> e

or cermiouse go	as discribi	gc	(tCO2eq			
Category	2012	2013	2014	2015		
Direct dis- charge	72,410	141,405	177,934	162,863		
Indirect dis- charge	14,323	19,239	20,341	21,770		
Total dis- charge	86,733	160,662	198,275	184,633		
Remark		7	4	5		
		companies reported	companies reported	companies reported		

#### Water pollutant discharge

Category	2012	2013	2014	2015
COD	52.8	103.8	247	238.2
BOD	25.4	19.4	378	281.3
T-N	69.6	105.6	418	284.2
T-P	0.6	1.1	4	3.8

T-P	0.6	1.1	4	3.8			
Remark	Total 5 companies report - KC Cottrell(Anseong Factory)						
	KC Enviro Services, KC Hanmi Environmnet, KC Glass & Materials and Clestra Hauserman						

#### Air pollutant generation

Category	2012	2013	2014	2015
NOx (ppm)	114.4	129.1	137	140
SOx (ppm)	41.0	36.2	37	50.4
Dust (mg/m³)	8.4	26.5	20	14.8
Remark		7	6	5
		companies	companies	companies
		reported	reported	reported

\* The number of reporting company was changed as KC Cottrell US was merged by Nol-Tec Systems and KC Eco Logistics Co., Ltd. was established.

KC Green Holdings carries out various social contribution activities to solve social problems such as local environment cleaning, low income level support, solitude aged support and local society development.

#### Contribution to stable employment

KC Green Holdings has an interest in youth unemployment and employment security issues and makes various efforts to solve such social problems. Dongyoung Seo, president of KC Cottrell had a chance to share opinions with young job seekers at the 'Youth Sketch Talk Concert' for Industrial Environment Job Expo in October 2015 organized by the ministry of environment. And, KC Enviro Services was selected as an excellent employment company by achieving high employment rate through the young generation and priority employment of local residents. KC Glass & Materials achieved employment stability by succeeding the existing workers when they acquired a metallic material business.





- 1. KC Enviro Services selected as excellent employment company
- 2. Dongyoung Seo, president of KC Cottrell at 'Youth Sketch Talk



#### **Environment improvement through donation activity**

KC Solar Energy built 3kw solar power plant facility for the disabled living facility in Gimpo, Gyeonggi-do in February last year. It can save 1,019 USD of electric bill and enable people to enjoy better life. In November 2015, at the 10th anniversary of the foundation, KC Solar Energy visited Vietnam and donated 3kw solar power facility and hot water boiler at Nham Son Kindergarten in Dong Huong. As the electricity is expensive in Vietnam, it is expected that they could improve quality of education through reduction of electricity bill and it can improve environment of Dong Huong area through eco-friendly energy use.

#### Sharing activities per affiliate

KC Green Holdings

• Support Baroque orchestra

Nol-Tec Systems

• Christmas toy and food shelf

KC Enviro Services

- Donation to revive Yeosu Sea Environment protection head office
- donation to ecosystem and environment report event by climate change
- Local resident 1 local resident filial tourism and sports events support
- local youth association support

KC Hanmi Environment

- Scholarship to child head of household rice donation at Chuseok
- Campaign donation to low income family for summer
- Local event support -Gyeongnam Opera support

KC Landfill Service

- Chilgok-ri silver club event support
- Hwaseong-si resident club event support

KC Eco Energy

- Support to silver center and event of resident day
- Support sports event at Jochon-dong and Dongsan-dong
- Local police development committee and Jeonju District Police school violence prevention committee activity support

KC Glass & Materials

- Local love sharing event
- Social welfare fund support to vulnerable class and solitude aged
- Connection for 1 company 1 social corporation to improve self-help of social corporation

NWL -Pacific

• Support of group home

# **APPENDIX**

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- Registered Association and Awards

## KC Green Holdings' Affiliates

#### Environmental engineering division



#### KC Cottrell Korea

Since its foundation in 1973 as an environmental plant company, it provides gas treatment facility removing sulfur, nitrogen oxides and industrial heat exchange and powder transfer facility.

⊙ Fl.12, Digital Cube, 34, Sangnamsan-ro, Mapo-gu, Seoul⊙ www.kc-cottrell.com



#### KC Air Filtertech

It makes efforts to make bright air and clean sky with customized services in air pollution prevention facility (dust collector) such as Bag Filter, Bag Cage, Diaphragm Valve, Venturi.

- © (212-31, Nae-dong) Fl. 3, Changseong Tech, 183, Ojeong-ro, Oejong-gu, Bucheon-si, Gyeonggi-do
- www.kcairfiltertech.com



#### Nol-Tec Kore

It is a powder transfer system specialized company including Bottom & Fly Ash that provides total solution. It expands its business area through Pneumatic Handling System to achieve sustainable growth.



#### Changchun KC Envirotech (KC Cottrell China)

KC Cottrell China has developed its status in China by supplying more than 150 products including electric dust collector, bag filter, desulfurization facility, waste water treatment facility and waste incineration.

- No.9576 Donghuancheng Rd., Changchun Economy & Development Zone, Changchun City, Jilin Province, 130033, P.R. China
- www.cckc.com.cn



#### KC Energy Technology

KC Energy Technology was founded in 2015 by the merger of KC Cottrell and Tienhai and has developed its status as general environment company in Chinese market and overseas markets for desulfurization and denitrification facility.

- 21st F Arsenal Tower, No. 69th, Zizhuyuan Rd, Haidian District, Beijing, China
- www.kc-energy.com.cn



#### KC Cottrell Vietnam

It is the first environment facility company in Vietnam. To protect future environment of Vietnam with growth potentiality, it supplies optimal air pollution prevention facility.

3F, SIMCO Building, 28 Pham Hung Street, My Dinh 1 Ward, Nam tu Liem District, Ha Noi, Vietnam www.kc-cottrell.com.vn



#### KC Cottrell Taiwan

For last 20 years, it has carried out projects in air pollution prevention area focusing on EPC and A/S technical service. From 2008 onwards, it was recognized its technical ability while supplying electric dust collector, desulfurization and ash treatment facility to Hsinta Power Plant in Taiwan.

① 14F-5, No.77, Sec.1. Xintai 5th Rd., Xizhi Dist., New Taipei City www.kctw.com.tw



#### KC Cottrell Indi

KC Cottrell India makes efforts to preoccupy environmental facility market that is expanded together with large power production. It aims to be a leader in desulfurization and denitrification facility market.

- © Spazedge Tower-B 5F, Suite No 506, 513-514, Gurgaon, Haryana-122002, India
- www.lodgecottrellpvt.com



#### Lodge Cottrell UK

Lodge Cottrell succeeded the commercialization of electric dust collector for the first in the world in 1913. Since then it has established its prestige in the Eur opean air pollution market for more than 100 years. In line with market change, it expands its business to renewable energy system such as biomass.



#### Nol-Tec Systems

It supplies all facilities for powder and particle material transport, loading and mixture. Recently, it stabilizes its business using Pneumatic Conveying System.

② 425 Apollo Drive Lino Lakes, MN 55014, USA

www.nol-tec.com

#### **KC Enviro Services**

It produces energy through stable treatment (incineration) of industrial waste and carries out waste catalyst remanufacturing and refurbishment of landfill site. It creates value by safe treatment and recycling of waste resources.

 Factory 1: (Wolnae-dong) 310-73, Jindallae-gil, Yeosu-si, Jeollanam-do

Factory 2: 1322, Hwachi-dong, Yeosu-si, Jeollanam-do www.kc-enviro.com



#### Changwon Enertech

KC Hanmi Environment owns 40% of equity of the company. Since the acquisition of the equity, it improved facility through 34 mUSD size investment in 2016. It supplies steam from general and designated waste incineration, SRF production/incineration with customers.

Nammyeon-ro 113beon-gil, Uichang-gu, Changwon-si, Gyeong-sangnam-do



#### KC Hanmi Environment

It plays a leading role in environmental cleaning at Yeongnam and Honam area through stable treatment of industrial waste with its one-stop service system for collecting, delivering and handling general, designated waste, waste water and waste oil.

- 103, Jayumuyeok 6-gil, Masanhoiwon-gu, Changwon-si, Gyeongsangnam-do
- www.kc-enviro.com



#### KC Eco Energy

It engages in collection and delivery of general and designated waste, waste incineration and interim treatment of construction waste. It produces SRF and operates SRF boiler to produce steam and electric power generation. It has solidified its status in the waste energy market.

- www.kc-enviro.com



#### KC Landfill Service

Under the slogan of safety and complete treatment, KC Environment Development engages in final treatment of waste (landfill) according to strict compliance of law and responsible services to protect global environment.

🔾 #303, 155, Byeongjeomjungang-ro, Hwaseong-si, Gyeonggi-do www.kc-enviro.com



#### **KC Eco Logistics**

It engages in industrial waste collection and delivery of the capital area. It collects market information through network with many workplaces as well as domestic partners for strategic use.

⊙ 1576-4, Seohae-ro, Cheongbuk-myeon, Pyeongtaek-si, Gyeonggi-do

#### **Environmental manufacturing division**



#### KC Glass & Materials

KC Glass develops new materials such as cook top ceramic board and optical glass materials based on bottle glasses and glass frits performing the mission as a green company.

- 1105, Seongjin-ro, Ipjang-myeon, Seobuk-gu, Cheonan-si, Chungcheongnam-do.
- www.asglass.co.kr



#### KC Thermal

KC Thermal makes efforts to increase efficiency of energy device such as refinery, petro-chemical plant and power generating plant by supplying pneumatic heat exchanger and other industrial devices worldwide.

 Office: #609, Owners Tower, 16-5, Sunae-dong, Bundang-gu, Seongnam-si, Gyeonggi-do

Factory: 253, Singi-ri, Seoun-myeon, Anseong-si, Gyeonggi-do



#### Clestra Hauserman

Clestra Hauserman produces partition and ceiling material to care for customers' health and global environment for the requirements and condition of customers.

 ♥ Fl. 14, Sewoo Bldg, 115, Yeouigongwon-go, Yeongdeungpo-gu, Seoul



#### NWL-Pacific

NWL Pacific produces constant current transformer, automatic control panel and plasma power device, which are essential part of electric dust collector. With more than 80 years of experience and technology, it makes effort to produce highly reliable products and services.

⊙ 89-20, Singiyangchon-gil, Seoun-myeon, Anseong-si, Gyeonggi-do

#### Renewable energy division



#### KC Solar Energy

It performs power plant system construction from small housing power system to MW commercial power plant system and carries out 0&M project to contribute to reduce greenhouse gas and global warming.

♥ Fl. 11, Digital Cube, 34, Sangamsan-ro, Mapo-gu, Seoul

#### Financial Information

#### **Independent Auditors' Report**

English Translation of a Report Originally Issued in Korean

To the Shareholders and the Board of Directors of KC Green Holdings Co., Ltd:

We have audited the accompanying consolidated financial statements of KC Green Holdings Co., Ltd. and subsidiaries (the "Group"). The financial statements consist of the consolidated statements of financial position as of December 31, 2015 and 2014, and the related consolidated statements of comprehensive income, consolidated statements of changes in shareholders' equity and consolidated statements of cash flows, all expressed in Korean won, for the years ended December 31, 2015 and 2014. The Group's management is responsible for the preparation and fair presentation of the consolidated financial statements, and our responsibility is to express an opinion on these consolidated financial statements based on our audits.

We conducted our audits in accordance with auditing standards generally accepted in the Republic of Korea. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, based on our audits and the reports of other auditors, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of the Group as of December 31, 2015 and 2014, and the results of its operations and its cash flows for the years ended December 31, 2015 and 2014, in conformity with Korean International Financial Reporting Standards ("K-IFRS").

Chara According Corporation

March 16, 2016

This report is effective as of the auditors' report date. Certain subsequent events or circumstances may have occurred between the auditors' report date and the time the auditors' report is read. Such events or circumstances could significantly affect the accompanying consolidated financial statements and may result in modifications to the auditors' report.

### KC GREEN HOLDINGS CO., LTD. and Subsidiaries Consolidated Financial Statements

Years ended as of December 31, 2015 and 2014

(in Korean won)

	(III Notedii Woli)		
	2014	2015	
ASSETS			
Non-current assets			
Property, plant and equipment-net	146,482,889,068	169,333,692,058	
Investment in real estate	12,286,285,493	12,270,728,366	
Non-current account receivables - net	-	16,577,967,501	
Investments in associates	15,395,885,264	14,580,775,689	
Goodwill	34,759,670,635	37,287,647,264	
Other intangible assets	1,124,625,160	989,304,335	
Derivative financial assets	-	77,497,729	
Deferred tax assets	7,568,695,407	11,745,670,908	
Other non-current financial assets	10,986,882,010	8,371,878,147	
Other non-current non-financial assets	1,096,456,461	849,583,040	
Total non-current assets	229,701,389,498	272,084,745,037	
Current assets			
Inventories	12,576,130,506 73,547,104,663 46,912,644,721 17,948,127,959 274,770,976 463,398,977 10,979,519,644	7,958,956,122	
Account receivables - net		69,600,381,202 25,854,919,384 20,177,643,294 148,086,734 2,465,230,938 10,877,784,597	
Due from customers for contract work			
Other current receivables			
Current derivative financial assets			
Current tax assets			
Other current financial assets			
Cash and cash equivalents	45,105,774,970	41,147,017,142	
Total current assets	207,807,472,416	178,230,019,413	
Total assets	437,508,861,914	450,314,764,450	
EQUITY			
Equity attributable to owners of the parent	145,345,345,792	153,879,162,562	
Issued capital	11,217,490,000	11,217,490,000	
Capital surplus	50,754,464,811	45,386,780,020	
Other reserves	5,437,043,323	6,052,186,041	
Retained earnings	77,936,347,658	91,222,706,501	
Non-controlling interests	48,753,285,976	41,942,425,204	
Total equity	194,098,631,768	195,821,587,766	

	2014	2015
LIABILITIES		
Non-current liabilities		
Other non-current provisions	20,511,312,277	21,038,606,469
Other non-current liabilities	-	2,711,925,960
Non-current account payables	-	9,641,910,259
Long-term borrowing	48,574,306,000	56,246,307,000
Convertible bond	2,006,168,210	2,073,262,976
Post-employment benefit obligations	8,686,622,578	8,521,906,518
Derivative financial liabilities	21,566,318	6,926,793
Other non-current financial liabilities	3,623,543,421	5,582,413,300
Total non-current liabilities	83,423,518,804	105,823,259,275
Current liabilities		
Other current provisions	<u> </u>	12,504,039
Short-term borrowings	29,948,478,687	23,250,724,065
Account payables	66,613,554,521	46,747,805,483
Other current liabilities	19,720,442,297	25,052,783,170
Advance from customers	34,465,329,523	44,192,169,020
Current tax liabilities	4,610,190,927	1,737,869,233
Derivative financial liabilities	175,915,387	51,991,421
Current portion of long-term liabilities	4,452,800,000	7,613,590,000
Other current non-financial liabilities	-	10,480,978
Total current liabilities	159,986,711,342	148,669,917,409
Total liabilities	243,410,230,146	254,493,176,684
Total equity and liabilities	437,508,861,914	450,314,764,450

# KC GREEN HOLDINGS CO., LTD. and Subsidiaries Consolidated Statement of Profits and Losses

Years ended as of December 31, 2015 and 2014

(in Korean won)

	2014	2015
CONSOLIDATED NETPROFIT		
Operating income	384,115,293,983	377,659,976,421
Sales	381,800,057,874	373,391,951,570
Gain from valuation of associates	771,100,876	1,502,005,987
Rental	1,544,135,233	2,766,018,864
Operating expenses	366,311,091,561	361,538,446,867
Cost of sales	322,769,686,715	314,540,753,758
Loss from valuation of associates	1,219,659,161	215,415,277
Selling, general and administrative expenses	42,321,745,685	46,782,277,832
Profit from operations	17,804,202,422	16,121,529,554
Other income	5,559,947,065	7,554,308,320
Other expenses	(6,158,983,545)	(9,129,551,364)
Financial income	1,042,320,413	1,081,705,039
Financial costs	(2,334,166,918)	(3,028,484,178)
Profit before income tax	15,913,319,437	12,599,507,371
Income tax expense	15,887,516,116	(813,546,088)
Profit for the year	25,803,321	13,413,053,459
COMPREHENSIVE INCOME(LOSS)		
Items that will not be reclassified subsequently to income(loss):	(3,787,154,411)	1,215,068,667
Re-measurement factor on defined benefit plans	(3,787,154,411)	1,215,068,667
Items that will be reclassified subsequently to income(loss):	522,808,151	289,351,013
Currency translation differences	485,408,166	569,334,035
Equity changes in equity method investee	(43,599,877)	(326,126,093)
Net change in fair value of financial assets	78,851,975	34,724,242
Net change in fair value of interest swap	2,147,887	11,418,829
TOTAL OTHER COMPREHENSIVE INCOME(LOSS)	(3,264,346,260)	1,504,419,680
TOTALCOMPREHENSIVEINCOME(LOSS)	(3,238,542,939)	14,917,473,139
Profit attributable to:		
Owners of the parent	2,447,603,158	13,605,615,532
Non-controlling interests	(2,421,799,837)	(192,562,073)
Profit for the year	25,803,321	13,413,053,459
Total comprehensive income attributable to:		
Owners of the parent	920,465,990	14,190,156,818
Non-controlling interests	(4,159,008,929)	727,316,321
Total comprehensive income for the year	(3,238,542,939)	14,917,473,139
Earnings per share(in Korean Won)		
Basic	111	615
Diluted	111	615

# Holdings 2016 Sustainability Report

# Independent Assurance Statement

The Business Institute for Sustainable Development (BISD), led by the Korea Chamber of Commerce & Industry, submits the assurance statement by the request of assurance of 'the independent assurance institute' for '2016 KC Green Holdings Sustainable Management Report' (hereinafter referred to as 'Report').

**Purpose** The Assurance Opinion is to check any material error or bias in the contents of the Report, and to suggest opinion if KC Green Holdings' sustainable management issues are suitably extracted and reported through the independent assurance procedure.

Responsibility and independency The Report is on the promotion of sustainable management, efforts, performance and future plan of sustainable management of KC Green Holdings in 2015. And KC Green Holdings takes full responsibilities for the preparation of the Report.

In the performance of assurance procedure of the Report and supplying assurance opinion to the management, BISD has no any interest with KC Green Holdings for the purpose of benefit except for the independent assurance to keep independency and autonomy of providing opinion.

Assurance criteria and restriction BISD performed the assurance based on 3 principles of AA1000AS(2008) including inclusivity, materiality and responsiveness and the principle of contents and quality of Report in Global Reporting Initiative(GRI) G4.

The assurance was performed to KC Green Holdings and its affiliates. The scope of assurance is restricted to performance in the Report, and previous data and online information was excluded even though it was referred to. And, greenhouse gas emission which was verified by the 3rd party institution is not included.

Main assurance procedure BISD reviewed contents of interview and provided documents. The main procedure includes the followings.

- Review on the application of internal sustainable report criteria
- Review on the information in the Report and information collection process
- Review on the materiality test procedure, main issues and related internal policy
- Interview and check specific data through site inspection

Assurance opinion BISD carried out the assurance according to the procedure in the assurance report and if necessary, revision on the report was made. On this basis, it was determined that there is no material error in the Report and the Report is in accordance with GRI G4 Core criteria.

Assurance opinion based on AA1000APS principle is as follows.

Inclusivity: In the promotion of sustainable management, does it comply with the participation of stakeholder for the responsible and strategic response?

- KC Green Holdings defines stakeholders and receives opinions from key stakeholders including customers, government, employee, partner, shareholder and local community, which were figured out through communication channel.
- BISD did not find any omitted stakeholder in the communication channel of KC Green Holdings.

Materiality: Does the Report contain material issues affecting stakeholders in the sustainable management?

- KC Green Holdings finds main issues of sustainable management through the materiality test and figured out main issues through opinion collection from stakeholder questionnaire survey.
- BISD did not find any omitted issues in the materiality assessment process.

Responsiveness: Does it properly respond to stakeholders' issues?

- KC Green Holdings figured out the effect of management activities on stakeholders and performed activities to respond. And, they disclosed performances.
- BISD did not find any improper respond to demand and request of stakeholders in the main issues.

**Recommendations** As long as it does not affect assurance result, BISD makes the following recommendations

- KC Green Holdings is an environment engineering specialized company and many business activities are related to sustainability. As new environment technologies and new business lead to meaningful performance to environment and society, it is necessary to share performance with stakeholders actively. At the same time, it is expected for KC Green Holdings to grow in harmony with economy, society and environment by the continual development of social contribution programs related to environment.
- It is necessary for KC Green Holdings to stress and report sustainable management activities in new business areas according to the rapid change of management environment. For this purpose, it is recommended to report key issues of KC Green Holdings promptly after precise analysis of materiality.
- KC Green Holdings held the first stakeholder dialogue to discuss sustainability of the company. At the dialogue, the management and CSR experts figured out improvement measures and various activities to improve sustainable management performance were reported. It is expected to promote reliable sustainable management continually.

July 2016

The Business Institute for Sustainable Development President
Chun. Subona







#### GRI G4 Index

Index no. Index name

#### General index

Category	inaex	c no.	index name	Page	Remark
Strategy and analysis	G4	1	Declaration of top decision making on organization and strategy of sustainable	6-7	
Organization	G4	2	Organization name	12	
profile -	G4	3	Representative brand, product and service	10-11	
	G4	4	Head office / head quarter address	12	
	G4	5	The number of country where organization engages in business and country specially related to sustainable management operating business	12-13	
	G4	6	Organization ownership type and legal type	12,14	
	G4	7	Market to provide service (Geographical distribution, industrial area, customer and beneficiaries)	12-13	
	G4	8	Organization size (employee, sales, capital, products and services)	12-13,44	
	G4	9	No. of employee by type (contract type and sex, employment type and sex, worker and supervised worker, region and sex and self-employed in law), serious change of number of employees	27	
	G4	10	Ratio of workers subject to collective bargaining	27	
	G4	11	Explanation of organization supply network	29	
	G4	12	Serious change in organization size, structure, ownership and supply network during report period	None	
	G4	13	Existence and execution method of preliminary preventive method and principle	20	Safety preventive activity
	G4	14	Economy, environment, society charter, principle or other initiatives which organization subscribes or supports	50	
	G4	15	Information of subscription of main associations	50	
Important issues and report boundaries	G4	16	List of entity in the organization's consolidated financial statements or equivalent documents or entity in the organization's consolidated financial statements or equivalent documents but not mention in the report	12	
	G4	17	Report principle application method in the report contents, aspect boundaries decision process and report contents decision process	16,17	
	G4	18	List of important aspects figured out in the process of decision of report contents	17	
	G4	19	Description of aspect boundaries in organization by each important aspect	18	
	G4	20	Description of aspect boundaries other than organization by each important aspect	18	
	G4	21	Effect of revised report of information from the previous report and reason for revised report	None	
	G4	22	Important change in scope and aspect boundaries after the previous report period	34	
Stakeholder	G4	23	Participating stakeholder list	16	
participation '	G4	24	Main stakeholders and reason for selection	16	
	G4	25	Participation method of organization's stakeholder (participation frequency by type and by stakeholder group)	16	
	G4	26	Important issue response and result raised by stakeholder participation including the publication of the report (main issue per stakeholder)	8-9	
Report	G4	27	Reporting period	2	
profile	G4	28	Publication date of recent report	2	
	G4	29	Reporting cycle	2	
	G4	30	Contact for report or contents of report	2	
	G4	31	GRI Index (option, GRI Content Index, independent assurance report)	49	
	G4	32	External assurance policy and activity, scope and criteria of assurance, relation with reporting organization and assurance organization, role of top decision maker and the management to ensure reliability of the report	48	
Governance structure	G4	33	Organization chart of top decision maker including committee and list of committee in charge of economy, society and environment related issues (remark representative issue per committee)	12,14	
Ī	G4	34	Wage policy and assessment criteria to top governance organization and high rank officers	14	
Ethics and integrity	G4	35	Code of conduct or code of ethics	25	

Remark

#### Specific index

Category	Aspect	Index no.		Index name	Page	Remark
DMA	DMA	G4	DMA	Reason for importance of aspect, impact of significant decision and i mpact mgmt method, management policy effect assessment system, assessment result and related adjustment report	19, 21, 25, 27, 29, 31, 35	
Economy	Economic performance	G4	EC1	Economic value creation and distribution	4-5	
Environment	Energy	G4	EN3	Direct energy consumption in organization	34	
	Water	G4	EN8	Amount of intake per supply source	34	-
	resource	G4	EN10	Total amount and ratio of reused and recycled water	34	-
	emission	G4	EN15	Direct greenhouse gas emission	34	•
		G4	EN16	Indirect greenhouse gas emission	34	•
		G4	EN19	Greenhouse gas reduction	32-33	-
		G4	EN21	NOx, SOx and other main air pollutant emission	34	-
	Waste water and waste	G4	EN23	Waste emission by type and treatment method	34	•
	Product and service	G4	EN27	Environment impact reduction activity and performance of product and service	32	
	Compliance	G4	EN29	Amount and number of sanction by violation of environment regulation	26	•
	Logistics	G4	EN30	Serious environment impact of product, raw material delivery and resource transportation	4	102,874tCO₂eq emission
Society-	Employment	G4	LA1	No. of new hiring, no. of changeover and ratio by age, sex and region	27	
Labor practices		G4	LA3	Childcare leave per sex, return rate and continual service rate	27	•
and labor right	Workplace safety and health	G4	LA7	Occupational disease occurrence rate or vulnerable worker	20	
	Training and education	G4	LA9	Average training hour per year to one worker per sex and category of worker	28	
	Labor practice and grievance handling procedure	G4	LA16	No. of grievance filed, discovered and solved on working environment by the official grievance handling system	28	
Society- Human right	Investment	G4	HR2	Worker training hours for human right policy and procedure in workplace and number of trained workers	26	
Society- Society	Sanction	G4	S08	Fine imposed by violation of law and regulation and no. of non-monetary sanction	26	
Society- Product responsibility	Product and service labeling	G4	PR5	Customer satisfaction questionnaire survey result	29	

.C Green Holdings 2016 Sustainability Report

# Affiliates membership and certification

KG Gene Holdings         Kance Chamber of Commerce and Industry The Business Institute for Sustainable Development (BISD).         SO (Chamber of Commerce and Industry Packed Company association).         SO (Chamber of Commerce).         So (Chamber of Chamber).         So (Chamber of Chamber of Chamber).         So (Chamber of Chamber of	Affiliates membership and certification	Membership association	Certification
Association, Korea Environment Industry Association, Doosan Hawing Industry Association, Korea Chamber of Committee and Industry The Business Institute for Substantable Development (BSDI), Korea Camber of Committee and Industry The Business Institute for Substantable Development (BSDI), Korea Camber of Korea Association, Korea Substantable Development (BSDI), Korea Camber of Korea, Korean Countriction Association, Association, Miss Phorthal Enterprise or Respirement Cub Roman, Korea Industrial Committee, Korea Industrial Committee (BSD), Morea Enterprise Cub Roman, Korea Industrial Vietnam (BSD), Morea Industrial Vietnam (BSD),	KC Green Holdings		
Changchun KC   Envirotech   150 9001	KC Cottrell Korea	Association, Korea Environment Industry Association, Doosan Heavy Industry Association, Korea Association of Machinery Industry, Korea Construction Engineers Association, Korea Chamber of Commerce and Industry The Business Institute for Sustainable Development (BISD), Korea Carbon Capture and Storage Association, Korea Association for Chief Financial Officers, Korea Construction Association, Korea Electrical Contractors Association, Association of High Potential Enterprises of Korea, Korean Council on Latin America & the Caribbean, Korea International Trade Association, Korea	
Environate No.   Envi	KC Air Filtertech		
KC Cottretl UK  Korean Association in India, KOCHAM India, Korea India Green Tech Forum, Indo-Korean CSR Forum  KC Enviro Services  Korea Industrial Waste Resources Mutual-Aid Association, Yessu Industrial Complex Environment Committee, Yesou Small and Medium Enterprise Committee, Plant & Mechanical Contractors Financial Cooperative of Korea  KC Landfill Service  KC Enviro Construction  KC Hanmi Environment Association Waste Mutual Cooperative, Korea Construction Resource Association, Korea Special Construction Maste Mutual Cooperative, Korea Construction Resource Association, Korea Special Construction Association  KC Hanmi Environment  KC Hanmi Environment  KC Hanmi Environment  KC Enviro Construction  KC Hanmi Environment  KC Hanmi Environment  Association, Opengman Environmental Engineers Association, Korea Industrial Waste Resources Mutual-Aid Association, Korea Fire Safety Association, Korea Electric Engineer Association, Korea Industrial Waste Resources Mutual-Aid Association, Social Welfare Fund Association, Korea  Beneric Electric Engineer Association, Morea Industrial Waste Resources Mutual-Aid Association, Norea Construction Waste Mutual Cooperative, Korea Electric Engineer Association, Aid Association, Jeonipu Mostral Waste Resources Mutual-Aid Association, Korea Construction Waste Mutual Cooperative, Korea Electric Engineer Association, Morea Industrial Waste Resources Mutual-Aid Association, Jeonipu Chamber of Commerce & Industry, Jeonipu Wanju Complex Firefighting Association, Jeonipu Industrial Complex Safety and Health  KC Eco Logistics  KC Glass & Materials  KC Frommere, Red Cross Korea, Overseas Martyrdom Korean Commemorating Committee, Korea Ceramic Technology Institute, Directors of Research Institute Association, Changaman Technology  Commerce, Red Cross Korea, Overseas Martyrdom Korean Commemorating Committee, Korea Trade  Association, Korea Institute Association, Changaman Fromme	-		ISO 9001
Lodge Cottrell UK  KC Enviro Services  Korea Industrial Waste Resources Mutual-Aid Association, Yeosu Industrial Comptex Environment Committee, Yeosu Small and Medium Enterprise Committee, Plant & Mechanical Contractors Financial Cooperative of Korea (Construction of Korea Industrial Waste Landfill Association)  KC Landfill Service  Korea Industrial Waste Landfill Association  KC Enviro Construction  Korea Construction Waste Mutual Cooperative, Korea Construction Resource Association, Korea Special  Construction Association  KCP Hammi Environment  Korea Industrial Waste Resources Mutual-Aid Association, Korea Industrial Waste Water Treatment  Association, Changwon Chamber of Commerce & Industry, Masan Free Trade Zone Office Enterprise  Association, Gyeongnam Environmental Engineers Association, Korea Fire Safety Association, Korea  Electric Engineer Association, Korea Energy Engineer Association, Korea Fire Safety Association, Korea Electric Engineer Association, Social Waffers Fund Association  KC Eco Energy  Jeonbuk Environment Preservation Association, Jeonbuk Environment Engineer Committee, Jeonju  Enterprise Environment Committee, Korea Industrial Waste Resources Mutual-Aid Association, Korea Industrial Complex Safety and Health  Managers Association  KC Eco Logistics  Weengaij Cargo Transport Association, Deeping Undustrial Complex Safety and Health  Managers Association  KC Glass & Materials  Korea Industrial Safety Association, Deeping Chungnam Environment Preservation Association,  Korea Industrial Promotion Association, Korea Part Material Investment Committee, Korea Ceramic  Technology Institute, Directors of Research Institute Association, Chungnam Forthern Chamber of Commerce, Red Cross Korea, Overseas Martyrdom Korea Automated Combined Association, Promotion Association, Ko	KC Cottrell Vietnam		ISO 9001
KG Enviro Services  Korea Industrial Waste Resources Mutual-Aid Association, Yeosu Industrial Complex Environment Committee, Yeosu Small and Medium Enterprise Committee, Plant & Mechanical Contractors Financial Cooperative of Korea  Korea Industrial Waste Landfill Association  KG Enviro Construction  Korea Industrial Waste Landfill Association  KO Enviro Construction  Korea Industrial Waste Resources Mutual-Aid Association, Korea Industrial Waste Resources Mutual-Aid Association, Korea Industrial Waste Resources Mutual-Aid Association, Korea Industrial Waste Water Treatment Association, Oyeongnam Environmental Engineers Association, Korea Fire Safety Association, Korea Electric Engineer Association, Korea Energy Engineer Association, Korea Fire Safety Association, Korea Electric Engineer Association, Korea Energy Engineer Association, Speongnam Opera Sponsor Association, Gyeongnam Joint Fund Association, Speongnam Opera Sponsor Association, Gyeongnam Interput Association, Jeonal Mutual-Aid Association, Korea Industrial Waste Resources Mutual-Aid Association, Korea Industrial Waste Resources Mutual-Aid Association, Korea Industrial Waste Resources Mutual-Aid Association, Korea United Managers Association Industrial Waste Resources Mutual-Aid Association, Korea Industry, Jeonal Waste Resources Mutual-Aid Association, Korea Industry, Jeonal Waste Resources Mutual-Aid Association, Korea Construction Waste Mutual Cooperative  KC Eco Logistics  Gyeonggi Cargo Transport Association, Korea Energy Engineer Association, Jeonal Complex Safety and Health Managers Association Korea Industrial Formotion Association, Korea Dard Mutual Cooperative  KC Glass & Materials  KC Glass &	KC Cottrell India	Korean Association in India, KOCHAM India, Korea India Green Tech Forum, Indo-Korean CSR Forum	ISO 9001
Committee, Yeosu Small and Medium Enterprise Committee, Plant & Mechanical Contractors Financial Cooperative of Korea Cooperative of Korea Construction Korea Construction Maste Landfill Association  KC Enviro Construction  KC Enviro Construction Association  KC Hanmi Environment  KC Hanmi Environment  KC Hanmi Environment  KOrea Industrial Waste Resources Mutual-Aid Association, Korea Industrial Waste Water Treatment Association, Openagman Environmental Engineers Association, Korea Industrial Waste Water Treatment Association, Gyeongnam Environmental Engineers Association, Korea Enterprise Association, Korea Energy Engineer Association, Korea Fire Safety Association, Korea Energy Engineer Association, Gyeongnam Opera Sponsor Association, Korea Energy Engineer Association, Gyeongnam Opera Sponsor Association, Forea Industrial Waste Resources Mutual-Aid Association, Korea Industrial Waste Resources Mutual-Aid Association, Korea Industrial Waste Resources Mutual-Aid Association, Korea Engineer Association, Korea Construction Waste Mutual Cooperative, Korea Electric Engineer Association, Korea Engineer Association, Jeonju Industrial Complex Safety and Health Managers Association  KC Eco Logistics  Gyeonggi Cargo Transport Association, Gyeonggi Cargo Mutual Cooperative  KC Glass & Materials  Korea Industrial Safety Association, Korea Ouality Foundation, Korea Automated Combined Association, Korea Industrial Promotion Association, Korea Part Material Investment Committee, Korea Ceramic Technology Institute, Directors of Research Institute Association, Chungnam Northern Chamber of Commerce, Red Cross Korea, Overseas Martyrdom Korean Commemorating Committee, Korea Tramber of Commerce, Red Cross Korea, Overseas Martyrdom Korean Commemorating Committee, Korea Tramber of Commerce, Red Cross Korea, Overseas Martyrdom Korean Commemorating Committee, Korea Tramber of Commerce, Red Cross Korea, Overseas Martyrdom Korean Commemorating Committee, Korea Trade Association, Korea December of Research Institute Association, Factory	Lodge Cottrell UK		ISO 9001, ISO 14001
KC Enviro Construction  Korea Construction Waste Mutual Cooperative, Korea Construction Resource Association, Korea Special  KC Hanmi Environment  KC Hanmi Environment  KOrea Industrial Waste Resources Mutual-Aid Association, Korea Industrial Waste Water Treatment Association, Changwon Chamber of Commerce & Industry, Masan Free Trade Zone Office Enterprise Association, Gyeongnam Environmental Engineers Association, Korea Fire Safety Association, Korea Electric Engineer Association, Korea Energy Engineer Association, Opengnam Opera Sponsor Association, Gyeongnam Joint Fund Association, Social Welfare Fund Association  KC Eco Energy  Jeonbuk Environment Preservation Association, Jeonbuk Environment Engineer Committee, Jeonju Enterprise Environment Committee, Korea Industrial Waste Resources Mutual-Aid Association, Korea Industrial Waste Resources Mutual-Aid Association, Jeonju Chamber of Commerce & Industry, Jeonju Wanju Complex Firefighting Association, Jeonju Industrial Complex Safety and Health Managers Association  KC Eco Logistics  KC Glass & Materials  KC Gl	KC Enviro Services	Committee, Yeosu Small and Medium Enterprise Committee, Plant & Mechanical Contractors Financial	ISO 9001, ISO 14001, OHSAS 18001
Construction Association	KC Landfill Service	Korea Industrial Waste Landfill Association	ISO 14001
Association, Changwon Chamber of Commerce & Industry, Masan Free Trade Zone Office Enterprise Association, Gyeongnam Environmental Engineers Association, Korea Fire Safety Association, Korea Electric Engineer Association, Korea Energy Engineer Association, Gyeongnam Opera Sponsor Association, Gyeongnam Joint Fund Association, Social Welfare Fund Association  KC Eco Energy  Jeonbuk Environment Preservation Association, Jeonbuk Environment Engineer Committee, Jeonju Enterprise Environment Committee, Korea Industrial Waste Resources Mutual-Aid Association, Korea Industrial Waste Resources Mutual-Aid Association, Korea Construction Waste Mutual Cooperative, Korea Electric Engineer Association, Korea Construction Waste Mutual Cooperative, Korea Electric Engineer Association, Korea Construction Waste Mutual Cooperative, Korea Energy Engineer Association, Jeonju Chamber of Commerce & Industry Jeonju Wanju Complex Firefighting Association, Jeonju Industrial Complex Safety and Health Managers Association  KC Eco Logistics  KC Glass & Materials  Korea Industrial Safety Association, Oseeon Chungnam Environment Preservation Association, Korea Automated Combined Association, Korea Industrial Promotion Association, Korea Automated Combined Association, Korea Industrial Promotion Association, Korea Part Material Investment Committee, Korea Ceramic Technology Institute, Directors of Research Institute Association, Chungnam Northern Chamber of Commerce, Red Cross Korea, Overseas Martyrdom Korean Commemorating Committee, Korea Trade Association, Korea Electricity Engineering Association, Factory Directors Association, Chungnam Economic Forum Association, Daejeon Chungnam Technology Management Club  KC Thermal  KC Thermal  AS/NZS 1400, AS/NZS ISO 9001, AS/NZS 150 9001  AS/NZS 4801, OHSAS 18001  Clestra Hauserman  KC Envirotech E&C [Fushun]  KW Facilities (Korea International Trade Association, Electric Construction Association, Korea Ozone Association  ISO 9001  ISO 9001	KC Enviro Construction		ISO 9001, ISO 14001
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	KC Solar Energy	Korea Solar Power Industry Association	



