Closer to Nature, Closer to People

K-eco

Creating a brighter world where humans
and nature live in harmony

K-eco
Korea Environment Corporation

1. Introduction to K-eco

For the affluent world where mankind live together with the nature and the sustainable future where today meets tomorrow, K-eco will open the green future by performing its role faithfully as the global environmental keeper under the Korean government.

MISSION Contribution to the development of eco-friendly nation by improving environment and promoting resource circulation

VISION K-eco ensures a sustainable future for Nature and Mankind

Legal basis	The K-eco Act (Law No. 11446)
Type of institution	A consigned enforcement-typed quasi-government agency
Umbrella body	Ministry of Environment
Organization	5 Headquarters, 6 Regional Headquarters
Number of persons	About 3,200 staff members / environmental experts
Annual budget	About 980 million USD

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2. BUSINESS OVERVIEW

Climate & Air

- Air quality and GHG reduction policy support
- Reinforcement of capacity for climate change response
- Management of national ambient air quality and smokestack monitoring system
- Management of ambient air quality

Environmental Infrastructure

- Installation support of aquatic ecology restoration and water treatment facilities
- Installation and operation of water and sewage facilities
- Installation and support of environmental energy recovery facilities

Water & Soil

- Water and sewage policy support
- Soil and underground water management
- Water pollution management and control
- Water quality monitoring

Resource Recirculation

- Resource circulation program
- Operation and management of the resource circulation system
- Waste management

Environmental Health

- Promoting life-based environmental services
- Provision of environmental public health services
- Management of hazardous materials
- Prevention and reduction of pollutant discharges

3. The SDGs of K-eco

The work of the K-eco is related to most Korean environmental fields and plays a very important role in achieving the nation's SDGs.

Vision	**K-eco ensures a sustainable future for Nature and Mankind**			
4 Core Value	**Clean and pleasant natural environment**	**Safe and sustainable living environment**	**A cooperative and co-existing social environment**	**Transparent and respectful organizational**
16 Goal	**Clean air quality** **Healthy and safe water management** **Environmental Disaster Prevention and Restoration** **Strengthening climate Change response capabilites**	**Promote Environmental Welfare for the Vulnerable** **Guarantee the right and safety of the people** **Responsible Waste Management** **Minimize environmental load**	**Strengthening public trust** **Creating quality jobs and developing economy** **Establish Fair Economic Through co-prosperity** **Regional development through social contribution**	**Creating a good work place** **Establishing integrous Workplace** **Respect for human rights** **Harmonious labor-management relations**
UN SDGs	**6. 9, 11, 13, 15, 17**	**3, 7, 10, 11, 12, 13**	**4, 8, 9, 10, 11, 17**	**3, 4, 5, 9, 10, 16**

4. K-eco Overseas Environmental Business and International Cooperation

K-eco strives to realize eco-friendly technology in a sustainable future by actively responding to global environment issues. K-eco is doing its best to realize the happiness of the world and continuously improve the value of technology through the overseas-environmental ODA and consulting of technical cooperation.

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K-eco

ODA (Official Development Assistance)

- Major ODA Projects

36 Projects with USD **20** M since 2007

International Org. & MDBs

- UNIDO, UNEP, UNESAP ...
- WB, ADB, IFC ...

Public Private Partnership (PPP)

Seoul Initiative

- Pilot Project
- Political Forum
- Capacity Building Program

International Environmental Training

- Capacity Building Program

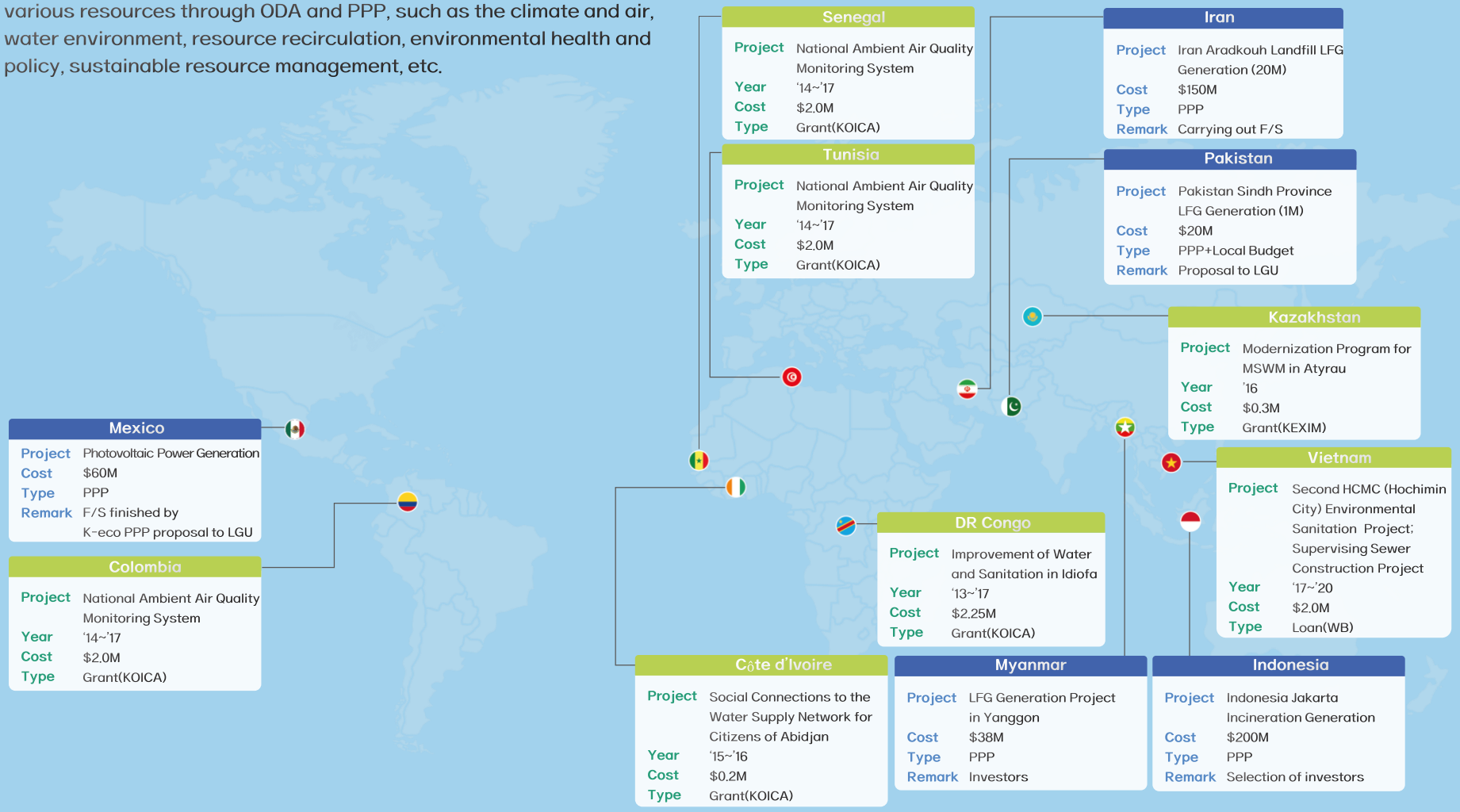
78 Courses **71** Countries

1,126 Participants

from 2007

5. K-eco Overseas Environmental Projects

K-eco plans to enhance the global environmental service by providing various resources through ODA and PPP, such as the climate and air, water environment, resource recirculation, environmental health and policy, sustainable resource management, etc.



5. 1. Improvement of Water and Sanitation in Idiofa

Project Overview

Target Area
DR Congo - Idiofa

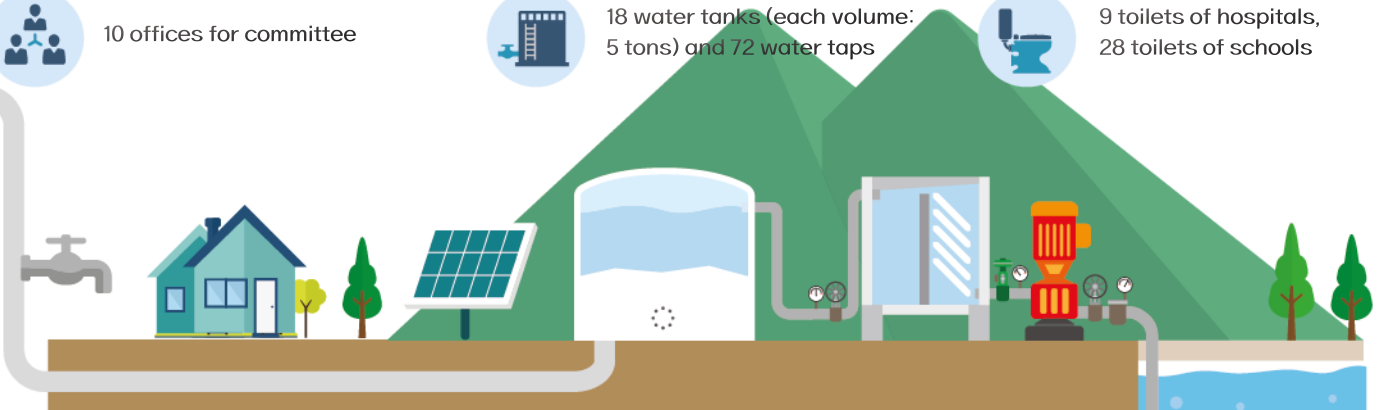
Goal
Development of Water Supply System & Improvement of Sanitation

Total Cost
USD 2.2 million (KOICA)

Period
2013. 12 -2019. 6

Details of Work Scope

- Boreholes and photovoltaic pumping systems : 18
- Improvement of existing water sources : 14
- 18 reinforced concrete towers (each height: 3m)
- 10 offices for committee
- 18 water tanks (each volume: 5 tons) and 72 water taps
- 9 toilets of hospitals, 28 toilets of schools



5. 2. Strengthening of Air Quality Surveillance Systems and of Institutional and Technical Capabilities for the Air Quality Management in Colombia

Project Overview

Target Area
Colombia (Santa Marta, Barranquilla, Boyacá, Bogotá)

Goal
- Installation of ambient air quality monitoring stations and national ambient air quality monitoring system
- Development of roadmap for air quality management

Total Cost
USD 2 million
(Total 5 million (KOICA))

Period
2014. 6. 11 – 2017. 6. 30.
(36 months)

Due to the air pollution from automobiles, increase of industrial facilities, mining industry and traditional industries Colombia suffers from economic and social damages of US$3 billion per year. K-eco implemented an air quality policy and systematic air quality monitoring system applying innovation of the scientific technology in Colombia.

Details of Work Scope

- Installation of national ambient air monitoring information system : 1 control center, NAMIS Colombia, Aircolombia
- Installation of ambient air monitoring stations: 9 (3 mobile stations and 6 monitoring stations)
- Strengthening the capacity to train the air quality monitoring operators
- Support the establishment of policies and roadmap for air quality monitoring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5. 3. Supporting Municipal Solid Waste Management Modernization

Project Overview

Target Area
Atyrau, Kazakhstan

Goal
Development of Modernization plan for the waste management

Total Cost
USD **260,000**
(Export-Import Bank of Korea)

Period
2016. 8 - 2017. 7

In Kazakhstan, the quantity of living waste has been increasing continuously due to the growth of both the economy and population, and they have a problem with leachate and landfill gas as they dispose of waste in a landfill way at the unsanitary dumpsites in most of the areas. Therefore, K-eco came up with a modernization plan for the waste management to improve the environment around dumpsites, control the quantity of the generated waste and raise the recycling rate.

Details of Work Scope

- Review of the existing landfill sites and the current situation
- Preliminary design for new sanitary landfill and rehabilitation of existing dumpsites
- Projection of waste generation up to the year 2030
- Recommendations for improving waste collection & transportation, sorting process for recyclable materials
- Alternative options for modernization and integrated MSWM
- Financial and economic analysis

5. 4. End-of-Project Evaluation for "A Total Solution for Water Shortage on the Absheron Peninsula of Azerbaijan"

Project Overview

Target Area
Kurdakhani, Azerbaijan

Goal
To assess summative evalution for KOICA project "A Total Solution of Water Shortage on the Absheron Peninsula"

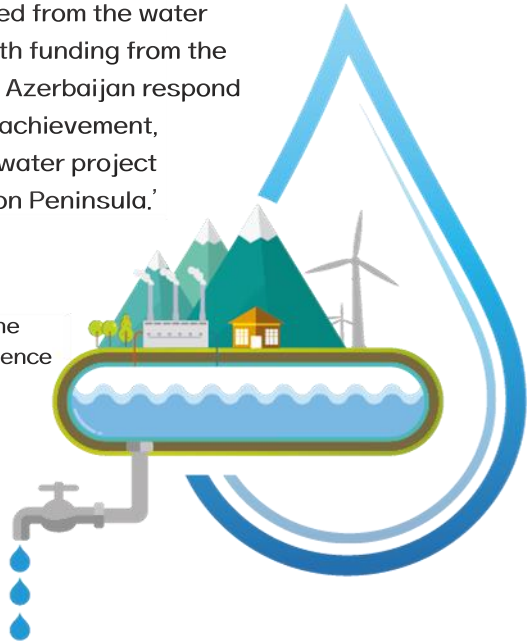
Total Cost
USD **77,500** (KOICA)

Period
2017. 5 - 2017. 12

The region of the Absheron Peninsula in Azerbaijan has seriously suffered from the water shortage due to the climate change. KOICA carried out the aid project with funding from the East Asia Climate Partnership (EACP). The aim of the project was to help Azerbaijan respond to climate change. Especially K-eco implemented the evaluation on goal achievement, contribution of the recipient country, sustainability etc. for 'the complex water project focused on the development of recycling water resources in the Absheron Peninsula.'

Details of Work Scope

- Evaluate installation of water supply facilities and its management status
- Evaluate adequacy of the project and correspondence of strategy
- Evaluate ripple effects and influence
- Evaluate effectiveness
- Draw a proposal to other similar projects

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5. 5. World Bank Loan Project (Supervision of Sewer Construction) Performed by K-eco

Project Overview

Target Area
Ho Chi Minh City, Vietnam

Goal
Construction supervision of sewer in the 2nd District of Ho Chi Minh City

Total Cost
USD 2 million

Period
2017. 10 - 2020. 10

Vietnam government plans to implement the project of newly constructing sewer pipes, pumping stations, combined sewer overflows (CSOs) in Ho Chi Minh City by investing USD 45 million of the World Bank loan, and rehabilitate the existing facilities. K-eco has implemented the construction supervision of this project through Public-Private Environmental Partnership (PPEP) and carries out the technology exchange joint with the Vietnamese local company.

Details of Work Scope

- Construction supervision of sewer pipes
- Construction supervision of detention facilities, pumping stations, CSOs
- Construction supervision of urban flooding prevention facilities


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6. Seoul Initiative(SI)

At the 5th Ministerial Conference on Environment and Development in Asia and Pacific (MCED-5) jointly held by the Ministry of Environment and United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP) in Seoul in March 2005, the “Seoul Initiative on Green Growth” was declared as a part of the regional implementation program. The forum is held for information sharing and exchange activities aiming at the economic growth of the Asia and Pacific Region and environmental sustainability in the serious situation of environmental pressure due to poverty and growth of the region.

SINGG

Theoretical Level	Policy Consultation Forum
Action Level	Pilot Project

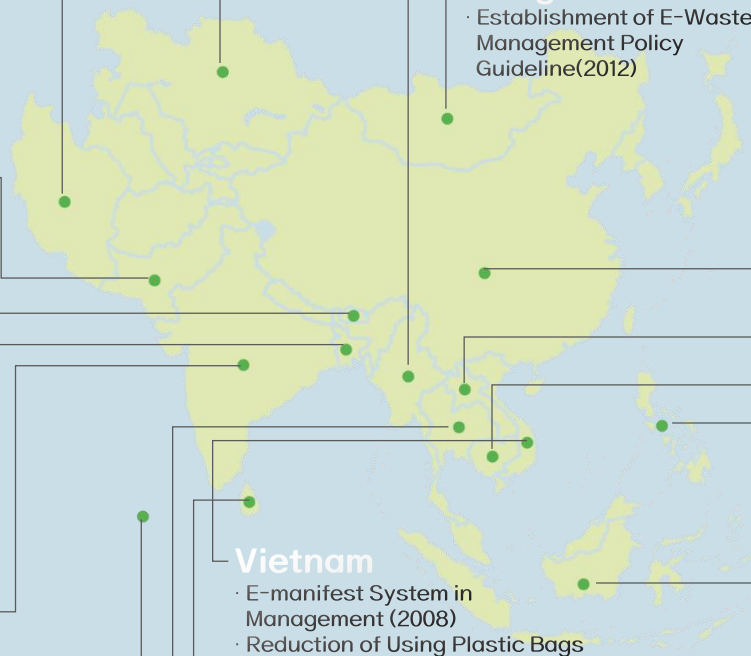
Budget $200,000

Period 1 year

https://www.sing.org

Countries Bangladesh, Bhutan, Brunei, Cambodia, China, Fiji, Iran, Indonesia, Japan, Kazakhstan, Kyrgyzstan, Lao PDR, Malaysia, Maldives, Mongolia, Myanmar, Nepal, Pakistan, Philippines, Russia, Samoa, Singapore, Sri Lanka, Tajikistan, Thailand, East Timor, Uzbekistan, Vietnam

6. Seoul Initiative(SI) - SI Pilot Project List



Kazakhstan
· Cooperation Seminar between Seoul Initiative on Green Growth and Astana Green Bridge Initiative for Sharing Green Growth Strategy(2011)

Iran
· Study on the Application of the Innovative Water-saving System for the Landscaping & Urban Agriculture of the Republic of Iran to address climate change(2016)

Pakistan
·Promoting Green Growth Initiative in Pakistan through Awareness, Education and Regional Knowledge Networking-A Road Map to Low Carbon Initiative(2012)

Bhutan
· Feasibility Study Project for Establishing Waste Management Master Plan in Darkhan City(2010)

Bangladesh
· Supporting the Introduction of Strategic Environment Assessment(SISEA) (2009)

India
· Korea-India Joint Environment Seminar(2010)

Maldives
· Provision of Waste Resource Efficient Management Plan in Maldives(2015)

Sri Lanka
· Promoting Point Source Separation of Household Solid Waste for Sustainable Waste Management (2013)

Myanmar
· Pre-feasibility study for HCW incineration facility in Mandalay(2017)

Monglia
· Establishment of E-Waste Management Policy Guideline(2012)

Vietnam
· E-manifest System in Management (2008)
· Reduction of Using Plastic Bags in Hochiminh City (2009)
· Improvement of Sludge Dehydration System Management of Sewage and Wastewater Treatment Plant in Ha Noi and Surrounding Cities(2016)

Thailand
· Capacity Building on Environmental Aspects of Asbestos Exposure Management in Thailand(2013)

Cambodia
· Environmental Quality Monitoring in the Kingdom of Cambodia(2014)

China
· Development of Carbon Labeling System(2009)

LaoPDR
· Establishment of Climate Change or Waste Management Policy Guideline(2013)
· Hazardous Waste Landfill Development Plan in Lao PDR(2015)

Philippines
· Groundwater Pollution and Characterization of Leachates from Waste Disposal Facilities(2014)

Fiji
· Low Cost Sewage Treatment Technologies for Rural Water and Sanitation Scheme(2013)
· Establishment of River Protection Plan by Conversion of Fats, Oils and Grease(FOG) to Biodiesel(2015)

Indonesia
· Improvement of Capacity Building as Initiative Program on Protection of Human Health and Environment from Asbestos Hazards in Indonesia(2014)
· Study on a Mechanical/Biological Solid Waste Treatment System Customized for the Western Java Region of Indonesia(2016)

7. International Environmental Fellowship Program

K-eco plans to lead development of the environmental industry based on its know-how accumulated over the past 38 years, including research, study, education, etc. for the environment. The group is composed of the best experts having both practice and theory across all areas of the environment implements the International Environmental Fellowship Program.

2007 ~ 2019

78 Courses

71 Countries

1,126 Participants

Overview and Purpose

- Environmental Fellowship Program for Public Officials in Developing Countries (KOICA)
- ASEAN Cooperative Program
- Training area : environment protection policy, climate change, waste management & waste to energy, soil pollution restoration policy, etc

Outcome

- 1,097 trainees from 290 countries from 2007
- Awarded as a excellent training organization in environmental Field(KOICA)

Future Plan

- No sporadic & no one shot
- Developing human resources through planning & continuous fellowship programme

8. Joint Environmental Research Projects

Background

Carried forward from 2007 for resolving international environmental problems and mutual technology exchange and enhancement related to the environment, and expanded to various countries

Contents

Setting the topic of the joint research project between the two countries every year on an annual basis and conducting joint research

Result

The research, analysis and result report of the two institutions on the plan and measures for environmental improvement

year	Country	Institution	Topic
2011	China	China Research Academy of Environmental Sciences	Green growth and low-carbon economy
			Export/import management of solid wastes
			Remediation of soil polluted by heavy metals
			Research field related to air polluted by the yellow dust
			China's river environment and improvement plan (improvement of polluted rivers and streams, etc.
2012	China	China Research Academy of Environmental Sciences	Environmental status and improvement plan for the canal basins of Lake Taihu and Lake Gehu of Jiangsu Province
			Changing food wastes into energy in Anhui Province
	Vietnam	State Agency for Technology Innovation (SATI)	Feasibility study of changing biomass into energy
2013	China	K Environment Institute/ Environmental Protection Agency of Heilongjiang Province	Study of how to reduce the water pollution in the rural area (Heilongjiang Province) of China
	Vietnam	Ho Chi Minh City University of Technology	Study on the treatment of domestic waste water using the rooftop wetland system in Ho Chi Minh City, Vietnam
2014	China	China Research Academy of Environmental Sciences	Study on application of monitoring to China for reducing the dust scattering on the road
	The Netherlands	Energy Research Center of the Netherlands	Study on the air pollution monitoring system between Korea and the Netherlands
2015	China	China Research Academy of Environmental Sciences	Comparative study between the eco-friendly energy town (Korea) and the ecological village
	Turkey	Ministry of Health, Ministry of Labor and Social Security, Ministry of Environment, and Occupational Diseases Hospital	Joint study on the asbestos management and technology
2016	China	China Research Academy of Environmental Sciences	Feasibility evaluation on application of the eco-friendly energy town to China
2017	Vietnam	Vietnam Environment Administration	Korea-Vietnam Joint Project to Control industrial Wastewater
2018	Kazakhstan	International Green Technology and Investment Center	Comparative Study on Extended Producer Responsibility System
2019	Denmark	Danish Biogas Industry Association	Cooperation on Biogas Production from Organic Waste

9. www.keco.or.kr

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KOREAN

About K-eco | Management Disclosure | Core Business | Social Responsibility | International Board | Contact Us

K-eco Promotes Environmental Health

K-eco will provide various environmental services such as safety diagnosis of children's playground and recovery system for asbestos damage that allow all the nations to enjoy the healthy life through making a pleasant living environment.

Establishment Basis | Mission & Vision | CI Introduction | Message Board | Photo News | Multimedia | Customer Service Charter | Ethical Management | CSR

Core Business

K-eco is keeping people's precious right to breathe clean and fresh air through not just the improvenment

- Climate and Air
- Water and Soil
- Resource Recirulation
- Environmental Infrastructure
- Environmental Health

What's New

SINGG Policy Brief(Final)	2020-04-23
Indonesia, Algeria Environmental Gove..	2020-04-01
SINGG Policy Brief	2020-03-09
14th Policy Consultation Forum Outcom..	2020-03-09
(Extension of the deadline) Call for ..	2020-01-15
Call for the 2021 Seoul Initiative Ne..	2019-11-11

Photo News

The 14th Policy Consultation For..	2019-10-10
International Water Week Exhibit..	2019-10-10
Water Industry Cluster (9.4 DAEG..	2019-10-10
International Campaign for Resou..	2019-10-10
K-eco and CAMBI sign MOU for joi..	2019-10-10
2019 WATERKOREA OPENING CEREMONY..	2019-10-10

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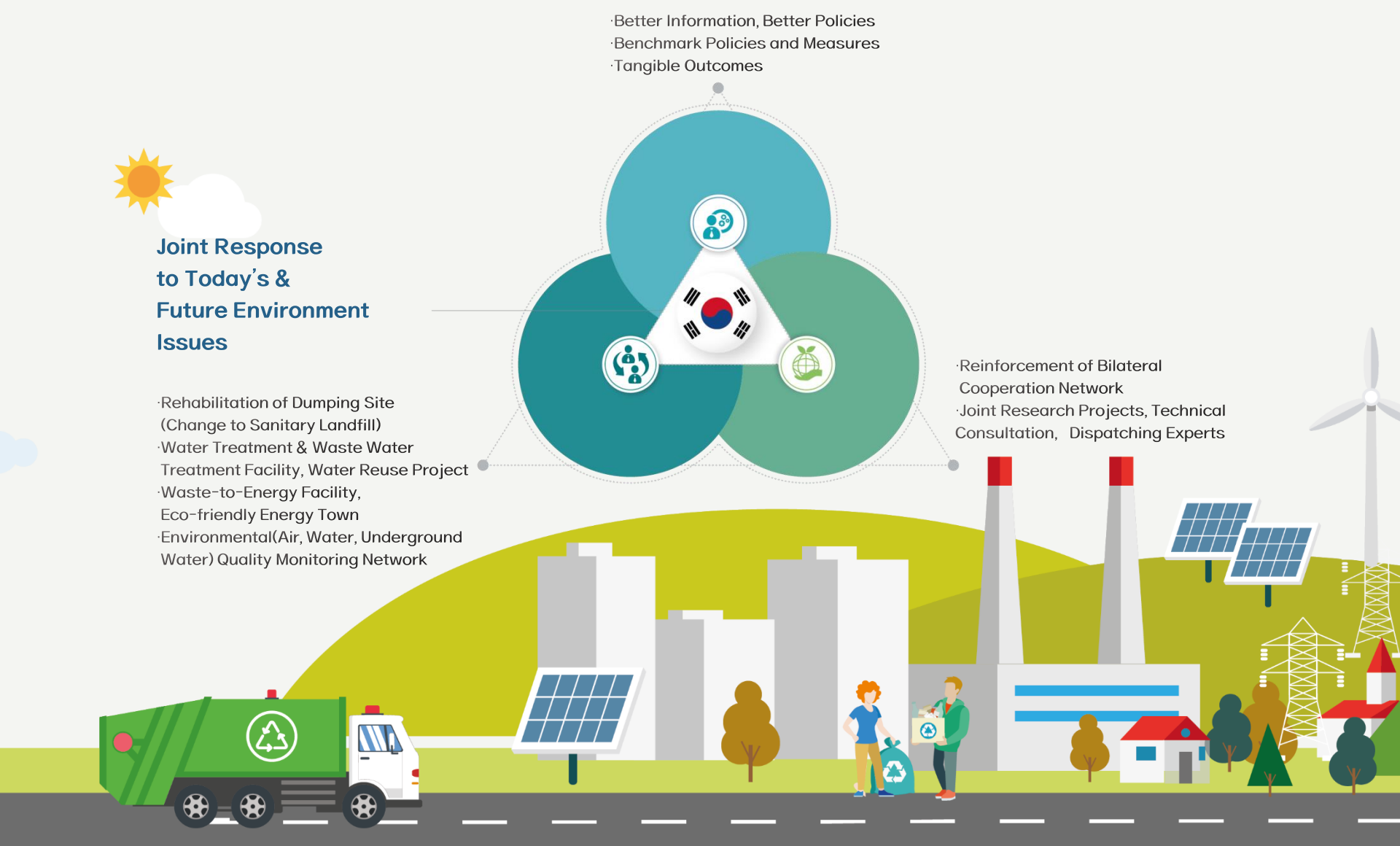
10. The Way Forward

For an affluent world where mankind coexists with nature and creates a sustainable future where today meets tomorrow, K-eco will open the door to a green future by performing its role faithfully as the global environmental keeper representing the Korean government.



Thank You

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