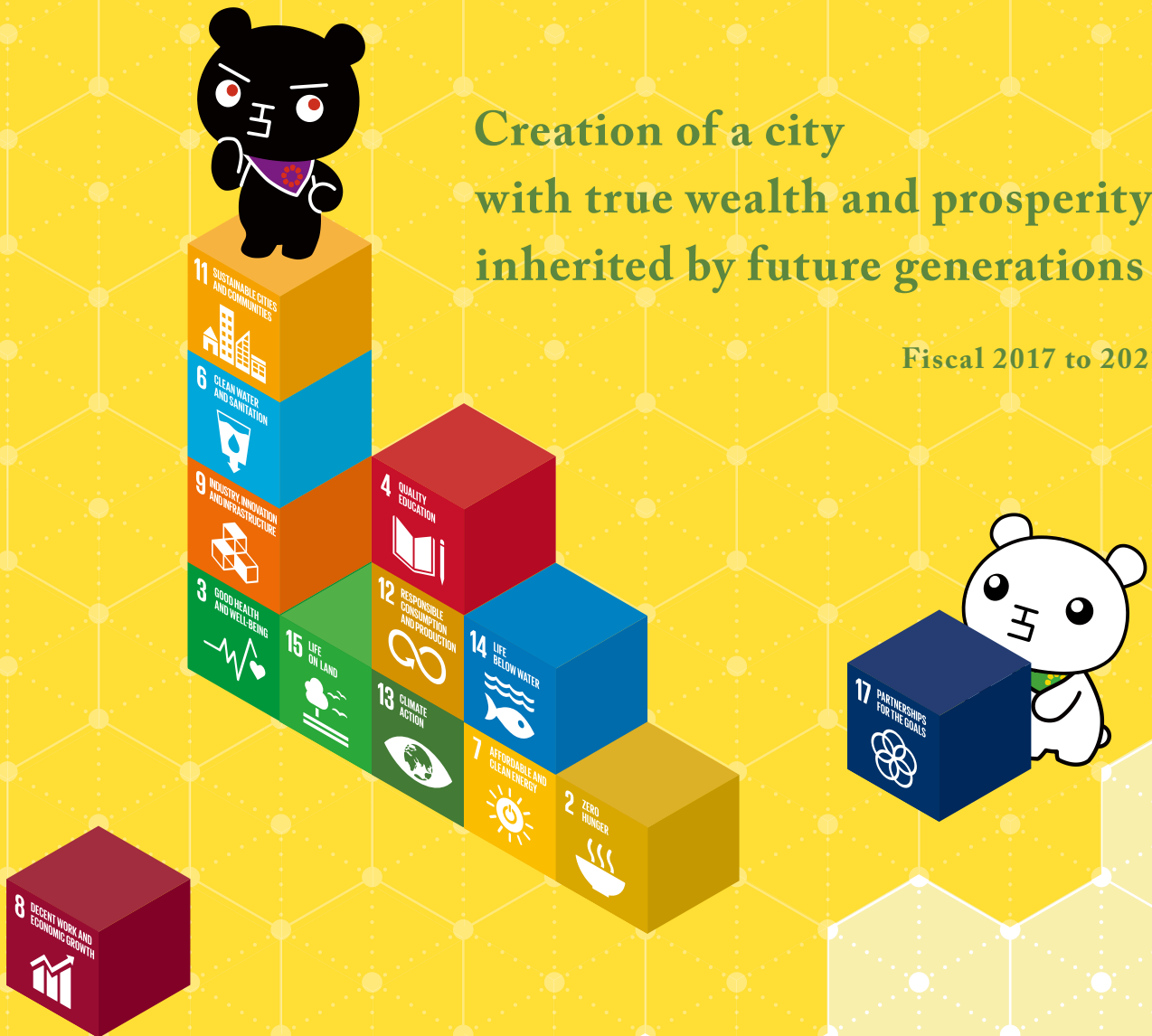


The Kitakyushu City Basic Environment Plan

Subtitle: Environmental Capital & SDGs Realization Plan

Creation of a city
with true wealth and prosperity,
inherited by future generations

Fiscal 2017 to 2021



City of Kitakyushu

Do you remember the Grand Design on World Capital of Sustainable Development?

In 2004, citizens, business and the government in Kitakyushu got together and formulated the Grand Design on World Capital of Sustainable Development.

This is a promise made by the citizens of Kitakyushu to the world's people, the earth and to future generations that citizens, business and government will strive to **build and pass on to the next generation a city brimming with "True Wealth and Prosperity."**

To realize this we have formulated the "10 Principles of environmental action of the people of Kitakyushu", and citizens will promote the importance of material things and nature, environmental education and the creation of an environmentally friendly city.



World Capital of Sustainable Development Forum
(October and December 2003)

Call for ideas and opinions to create "World Capital of Sustainable Development"
 · Period: April to December 2003
 · Receive over 1000 submissions

Debate at the Board towards World Capital of Sustainable Development
 · Committee: 34 members (Industry, academia, government)
 · Date: March to October 2004
 · 4 General Meetings, 10 Sub-Committee Meetings etc.



Declaration of the creation of the "World Capital of Sustainable Development"(9 October 2004)

10 PRINCIPLES OF ENVIRONMENTAL ACTION OF THE PEOPLE OF KITAKYUSHU

1. Intensifying the environmental power of the city through the laughter and strength of the people
2. Advocating the advancement of exceptional environmental human resources
3. Valuing the significance of visible local ties
4. Encouraging the symbiotic relationship with all living things through a deeper understanding of nature
5. Protecting our valuable urban assets in the quest for beauty
6. Reducing the urban load on the environment
7. Stimulating the market for innovative environmental technology with the participation of local actors
8. Advocating the use of recycled resources in socio-economic activities
9. Sharing environmental information for further actions
10. Channeling the concept of a model environmental city to all people of the world



What is the Basic Environment Plan? Why change the plan now?

The Basic Environment Plan is a promise by the city government to implement the Grand Design on World Capital of Sustainable Development.

In 2015 the countries of the world gathered together to make **the Paris Agreement**. Based on this agreement, it is necessary to proceed with concrete measures to tackle global warming.

In 2015, the countries of the world promised to attain **SDGs (Sustainable Development Goals)**.

At first glance, SDGs seem difficult to attain. However, they are goals that must be achieved by governments and business working together with people all over the world to help those in dire need, in terms of environment, education, welfare, economic growth and peace, as well as for future generations.

Kitakyushu City has been working to leave prosperity for future generations with the World Capital of Sustainable Development Grand Design. This means **the City has been working on SDGs for over a decade.**

In order for this project to expand throughout the world it is necessary to remind ourselves of the Grand Design and the 10 Principles of Environmental Action of the People of Kitakyushu.

Based on this background, we have decided to change the Basic Environment Plan.

BLACK TEITAN

Environmental Capital
SDGs Realization Plan

The Kitakyushu City Basic Environment Plan has been changed!



TEITAN
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(Kitakyushu City official mascot characters)

What's the connection with our lifestyles?

On the surface, the Basic Environment Plan seems to be for the city government, and no connection with the average citizen. However, it affects our daily life in many ways.

For example, working on making energy and products we use every day more environmentally friendly, tackling our daily waste, recycling, environmental learning, PM2.5, odor and noise pollution, and actively using the bounty of nature and creating jobs in the environment industry.

Improving welfare and disaster-prevention policies, and creating a compact city may not seem to have much in common with the environment, but we are going to tackle these challenges as well from the environmental aspect.

How will Kitakyushu City change under the new plan?

The new plan includes undertakings such as: "Strengthening each and every citizens' environmental awareness, and making the name 'Kitakyushu' synonymous with 'The Environment' both at home and abroad", "Aim at creating a zero-emission society", "Aim at creating a society which values living and material things" and "Achieving sustainable development goals (SDGs) by tackling various issues from an environmental perspective".

To attain these goals we will, for example, aim to become **the top renewable energy user and have the top municipal waste recycling ratio of all major Japanese cities.**

Concrete changes include more study groups to gain insight into how environment issues link with other issues, bringing wind and other renewable energy sources as well as hydrogen energy closer to the average citizen, promoting recycling by not discarding items that can be recycled, making citizen's actions for achieving SDGs and a better environment more rewarding and increasing new environmental technology and environment business startups.



What can we do?

Recent environmental issues are caused not only by pollution discharged from some factories, which was considered to be the main cause of the issue in the past, but by the CO2 emissions and waste from our daily lives.

Already, 13 years ago the 10 Principles of Environmental Action of the People of Kitakyushu were established, and based on these principles we have been living, learning, working and taking action in Kitakyushu City.

Let's take another look at these principles. For example, are we buying environmentally friendly products and services? Are we using the train instead of a car? Are we making sure we don't buy too much to reduce waste? Are we looking after and learning about the environment? Are we participating in local environmental activities? Are we asking the government and business to do more?



Developing Environmentally oriented Grassroots Activism and the Establishment of the “Kitakyushu Environmental Brand” Supported by All Citizens



While promoting environmentally friendly movement among citizens, business and community, we will promote the nurturing of environment experts.

We will also aim at creating a brand, which makes “Kitakyushu synonymous with the environment”, where citizens take pride in their city, appealing to people both at home and abroad.

To achieve this goal we will provide support for citizens and businesses to change their lifestyles, support activities of local community and NPOs, enhance education to nurture environment experts, establish good lines of communication with citizens regarding the environment, actively promote international cooperation, and enhance the domestic and international promotional efforts of Kitakyushu City’s approach to environment.

Basic Measure 1 Beneficial Cycle of Environmental Activities and Community Revitalization

- Promote awareness and support measures that prompt citizens and businesses to reexamine their lifestyle and business-style.
- Promote local community and NPO activities such as support for local recycling and cleanup campaign.
- Promote environmental activities in businesses in the overall supply chain through networking and cooperation.



Basic Measure 2 Fostering Environment Experts through ESD

- Promote Education for Sustainable Development (ESD) and environmental learning for citizens including pre-schoolers and retirees.
- Further promote environmentally-oriented grassroots activism through a cross-organizational cooperation between youth through the Kitakyushu Manabito ESD Station and Kodomo Eco Club.
- Reinforce the base to foster environment experts by strengthening the network among the universities, research institutions etc., in the city.



Basic Measure 3 Dealing with Environmental Risk Management through Dialog and Cooperation with Citizens

- Promote environmental risk dialogue.
- Provide appropriate information on the environment and fostering environmental literacy. *Literacy – The ability to find and use the necessary information from materials provided.
- Promote voluntary environmental risk management by businesses, implementing agreements, as well as utilizing awards and certification as a motivational tool for the businesses.



Basic Measure 4 Establishing the Kitakyushu Environmental Brand through International Collaboration

- Strengthen strategic international environmental collaboration and the international environmental brand through collaboration with domestic and overseas institutions.
- Create international networks by fostering overseas environmental personnel.
- Attract international conventions and domestic events in the environment-related field through the city government’s united effort.
- Promote networks between academia and business and use the City’s strength-technology and policy - to establish a “Technology Capital of Asia” Brand.





Realizing an Ultra-low Carbon Society by 2050 and a Post-carbon Society further down the Road



To tackle global warming, we are aiming to revise every facet of society including the way individuals and businesses use energy, transport and town planning, creating a society which produces hardly any CO2 and other greenhouse gases in order to realize an "Ultra-Low Carbon Emission Society", and subsequent "Post-carbon Society".

To achieve this goal, we will encourage efficient energy use at home and office, the design of compact communities, the use of public transportation. We will also promote research and development and creation of a system in an effort to change the way business, economy and society approach to the environmental issues, while taking steps to implement new energy sources including marine wind power and solar power and hydrogen energy, as well as promoting cooperation with Asian countries.

Basic Measure 1 Transition to a Stock-based Society that Supports an Ultra-low Carbon Society

- Promote energy-efficient, low-CO2 industry and city planning.
- Develop high quality regions and towns, residences and building stock, including solar power generation facilities, high efficiency energy facilities, net zero energy housing.
- Promote maintenance and good use of natural capital, including greening policies for urban areas and regional hubs, appropriate forestry management, measures to take care of neglected bamboo forests, and protection of natural scenery.
- Promote low-carbon development through stock management such as increasing the longevity of bridges and sewage facilities, consolidation and demolition of dilapidated facilities.

Basic Measure 2 Socioeconomic, Technological, Lifestyle Innovation and Industrial Cluster Development to Realize an Ultra-low Carbon Society

- Promote the development of ultra-low carbon technology and industrial cluster by utilizing renewable energy, hydrogen, ICT/AI, human engineering and highly functional materials, etc.
- Promote a low carbon lifestyle and business-style through regulatory and economic approaches.
- Study the feasibility of financial policies such as environmental finance.

Basic Measure 3 Comprehensive Formation of a Future Energy Base

- Promote development as a local energy base.
- Promote the use of hydrogen energy.
- Promote a local smart energy management.
- Promote human resources and technology development in the field of environment.

Basic Measure 4 Realization of Ultra-low Carbon Societies at the Asian level

- Promote international cooperation toward realization of an ultra-low carbon society in Asia through cooperation with KITA (Kitakyushu International Techno-cooperative Association), IGES (Institute for Global Environmental Strategies) and other related institutions and businesses based in Kitakyushu.
- The Kitakyushu Asian Center for Low Carbon Society plays a pivotal role in helping private businesses to expand "low-carbon movements" overseas.





Building a World-leading Circular System

Aiming to have the top municipal waste recycling ratio among major Japanese cities



Through sound and sustainable recycling (collection of raw materials ⇒ processing ⇒ distribution ⇒ consumption ⇒ disposal ⇒ reused as raw materials) of materials (resources), and nature's cycle (the cycle of ecosystems, agricultural and fishery products), we strive toward creating a balanced society between those two cycles.

To achieve this goal, the City will promote the "3Rs (Reduce, Reuse, Recycle) of Waste", making use of recycled products, establishing a waste disposal system that will function in time of disaster. It will also foster industries, which will take on the 3Rs, conduct appropriate maintenance of hazardous substances, conservation of precious nature and ecosystem take measures against introduced species such as fire ants, proactively use and identify the state and condition the City's rich nature.

Basic Measure 1 Promotion of the "3R Plus" Initiative and Advanced Recycling Activities and Improvement of Resource Recycling Ratio

Promote Reduce, Reuse and Advanced Recycling.

Reduce CO2 and energy consumption by improving efficiency of using resources in waste processing, and promoting the use of waste power generation and thermal usage.

Actively promote the use of recycled and renewable resources.

Secure appropriate processing.



• Kitakyushu Eco Industrial Town

Basic Measure 2 Facilities and Technological Development to Support Circular Systems and the Creation of a Recycling-oriented Industrial City

Promote regional collaboration to improve waste management and facilities that support stable and efficient waste processing and circular systems.

Create an advanced industrial recycling Eco Industrial Town where industry and region coexist.

Build a network in the environmental industry and form a resource recycling research center in cooperation with universities etc.

Aim at creating an international resource recycling center for electric and electronic waste, which would be difficult to recycle in developing countries, and miscellaneous scrap and other precious recyclable resources, which would otherwise be sent overseas.



• Hibikinada Biotope

Basic Measure 3 Appropriate Processing and Management of Chemical and Hazardous Substances

Facilitate appropriate processing of PCB.

Facilitate appropriate management of mercury, asbestos etc.

Facilitate management of chemical substances.

Take an active step to control CFCs (freon gas).



• Sone Tidal Flats

Basic Measure 4 Securing Natural Recycling and Preserving Biodiversity

Protect ecosystem habitat and species.

Advance the preservation of the Forest-Village-River-Sea.

Collect and integrate extensive natural environment information while fostering environmental experts and creating networks in a proactive manner.

Make use of the rich natural tourism resources through study tours and eco-tourism.



• Hiradai Limestone Plateau



Future-oriented, Quality Urban Development and Integrated Improvement of Environment, Economy and Society



We aim to build a city that contributes to realization of SDGs and answers the needs of issues such as the falling birth rate and aging society, disaster prevention and revitalization, a safe and livable people-friendly city conducive to the creation of innovative industry and jobs growth.

To achieve this goal, the city government will network with stakeholders both government and private on issues which include monitoring of PM 2.5 air pollution and water contamination, conduct appropriate environmental impact assessments on developments, prevent activities that have an adverse effect on climate change. The City will also create a regional center that is environmentally friendly and disaster resistant, make use of food banks and reuse activities in welfare projects, involve local people in developing environmental industries, and business promotion overseas.

Basic Measure 1 Creation of a Safe and Stable Resilient City

Protect the air, water, soil environment through monitoring and guidance based on legislation.

Take steps to implement appropriate assessment and control measures to prevent pollution.

Undertake measures to tackle climate change.

Strengthen the City's ecosystem-based disaster risk reduction including utilization of decentralized and self-reliant energy and disaster waste management.



● On site inspections of project areas

Basic Measure 2 Realization of an Environment and Society-friendly Comfortable City

Conserve the city's landscape by utilizing stock and realize a pleasant townscape.

Promote a compact city and public transportation system, which is senior citizen and disabled-friendly.

Aim at securing a welfare safety net and community revitalization.



● Kitakyushu Eco-Premium Certification

Basic Measure 3 Promotion of the Fostering of Environmental industries and International Business

Promote a regional economic circulation zone and employment in those industries for youth, women and senior citizens.

Promote sustainable production and consumption.

Aim at environment technology development, the creation of new industries and productivity improvements in collaboration with FAIS (Kitakyushu Foundation for the Advancement of Industry, Science and Technology) and Kitakyushu City University, etc.

Promote the overseas expansion of environmental industries through JCM and other overseas international cooperation projects.



● Promoting SDGs through TEITAN points

Basic Measure 4 Initiatives Aimed at the Achievement of SDGs and Environmental Governance

Promote an urbanization model in working toward attaining SDGs.

Promote environment governance in working toward attaining SDGs.



● Holding Symposiums on SDGs

SDGs (Sustainable Development Goals)

- The SDGs are based on the principle of “Leaving no one behind”, sharing the earth’s resources equally among all people of the world and leaving them for the next generation.
- Adopted by the UN in 2015 • SDGs are universal, inclusive and indivisible • Setting 17 SDGs to be achieved by 2030

Corresponding Relation between Measures Incorporated in the Basic Environment Plan and *SDGs*

 <p>2 ZERO HUNGER</p>	<p>Building a World-leading Circular System</p> <ul style="list-style-type: none">•Promoting effective use of food-banks, reducing food loss and raising awareness of the No Leftovers Declaration <p>Future-oriented, Quality Urban Development and Integrated Improvement of Environment, Economy and Society</p> <ul style="list-style-type: none">•Strengthening measures to deal with climate change•Food bank and food-loss reduction	 <p>3 GOOD HEALTH AND WELL-BEING</p>	<p>Realizing an Ultra-low Carbon Society by 2050 and a Post-carbon Society further down the Road</p> <ul style="list-style-type: none">•Promotion of a compact city and public transportation <p>Building a World-leading Circular System</p> <ul style="list-style-type: none">•Appropriate processing and management of chemical and hazardous substances <p>Future-oriented, Quality Urban Development and Integrated Improvement of Environment, Economy and Society</p> <ul style="list-style-type: none">•Protection of air, water and soil environment•Promotion of a compact city and public transportation
 <p>4 QUALITY EDUCATION</p>	<p>Development of Environmentally Oriented Grassroots Activism and the Establishment the Kitakyushu Environmental Brand Supported by All Citizens</p> <ul style="list-style-type: none">•Fostering environmental experts through environmental learning, ESD, World Environment Capital Examination, Eco Life Stage, etc.•Accept trainees from Asia and other regions, advance overseas environmental education and promote other international environmental cooperation activities.	 <p>6 CLEAN WATER AND SANITATION</p>	<p>Building a World-leading Circular System</p> <ul style="list-style-type: none">•Appropriate processing and management of chemical and hazardous substances•Preserving ecosystems and species, and the Forest-Village-River-Sea <p>Future-oriented, Quality Urban Development and Integrated Improvement of Environment, Economy and Society</p> <ul style="list-style-type: none">•Protection of air, water and soil environment
 <p>7 AFFORDABLE AND CLEAN ENERGY</p>	<p>Realizing an Ultra-low Carbon Society by 2050 and a Post-carbon Society further down the Road</p> <ul style="list-style-type: none">•Introduction of large-scale renewable energy such as solar and wind and building an industrial center for the developing hydrogen technology and wind power generation industries•Promotion of energy saving and management.•Promotion of renewable energy and energy saving in the Asian region through the Asian Low-Carbon Center	 <p>8 DECENT WORK AND ECONOMIC GROWTH</p>	<p>Realizing an Ultra-low Carbon Society by 2050 and a Post-carbon Society further down the Road</p> <ul style="list-style-type: none">•Promotion of development as a local energy base including renewable energy and energy management, etc. <p>Building a World-leading Circular System</p> <ul style="list-style-type: none">•Advancement of Eco Industrial Town and recycling industries•Utilize natural tourism resources <p>Future-oriented, Quality Urban Development and Integrated Improvement of Environment, Economy and Society</p> <ul style="list-style-type: none">•Promotion of the fostering of environmental industries and international business
 <p>9 INDUSTRY, INNOVATION AND INFRASTRUCTURE</p>	<p>Realizing an Ultra-low Carbon Society by 2050 and a Post-carbon Society further down the Road</p> <ul style="list-style-type: none">•Building quality housing and material stock•Promotion of low-carbon and energy related industries <p>Building a World-leading Circular System</p> <ul style="list-style-type: none">•Advancement of Eco Industrial Town and recycling industries <p>Future-oriented, Quality Urban Development and Integrated Improvement of Environment, Economy and Society</p> <ul style="list-style-type: none">•Strengthening measures to deal with climate change and ecosystem-based disaster risk reduction•Development of environmental technology through collaboration with academic institutions, etc.	 <p>11 SUSTAINABLE CITIES AND COMMUNITIES</p>	<p>Realizing an Ultra-low Carbon Society by 2050 and a Post-carbon Society further down the Road</p> <ul style="list-style-type: none">•Promotion of a compact city and public transportation•Promotion of urban afforestation projects <p>Building a World-leading Circular System</p> <ul style="list-style-type: none">•Appropriate processing and management of chemical and hazardous substances <p>Future-oriented, Quality Urban Development and Integrated Improvement of Environment, Economy and Society</p> <ul style="list-style-type: none">•Protection of air, water and soil environment•Strengthening measures to deal with climate change and ecosystem-based disaster risk reduction•Promotion of a compact city and public transportation
 <p>12 RESPONSIBLE CONSUMPTION AND PRODUCTION</p>	<p>Development of Environmentally Oriented Grassroots Activism and the Establishment of the Kitakyushu Environmental Brand Supported by All Citizens</p> <ul style="list-style-type: none">•Promotion of environmental learning and ESD etc. <p>Building a World-leading Circular System</p> <ul style="list-style-type: none">•Promoting the “3R Plus” Initiative and advanced recycling activities and improving resource recycling ratio•Promoting effective use of food-banks, reducing food loss and raising awareness of the No Leftovers Declaration <p>Future-oriented, Quality Urban Development and Integrated Improvement of Environment, Economy and Society</p> <ul style="list-style-type: none">•Promoting the Kitakyushu Eco Premium Awards etc.•Food bank, food-loss reduction	 <p>13 CLIMATE ACTION</p>	<p>Development of Environmentally Oriented Grassroots Activism and the Establishment of the Kitakyushu Environmental Brand Supported by All Citizens</p> <ul style="list-style-type: none">•Promotion of environmental learning and ESD etc. <p>Realizing an Ultra-low Carbon Society by 2050 and a Post-carbon Society further down the road</p> <ul style="list-style-type: none">•Promotion of efforts to realize an Ultra-low Carbon Society <p>Building a World-leading Circular System</p> <ul style="list-style-type: none">•Promotion of efficient use of resources, waste and heat powered generation <p>Future-oriented, Quality Urban Development and Integrated Improvement of Environment, Economy and Society</p> <ul style="list-style-type: none">•Strengthening measures to deal with climate change and ecosystem-based disaster risk reduction
 <p>14 LIFE BELOW WATER</p>	<p>Building a World-leading Circular System</p> <ul style="list-style-type: none">•Taking steps to control marine litter and appropriate processing and management of chemical and hazardous substances•Preserving ecosystems and species, and the Forest-Village-River-Sea <p>Future-oriented, Quality Urban Development and Integrated Improvement of Environment, Economy and Society</p> <ul style="list-style-type: none">•Protection of air, water and soil environment	 <p>15 LIFE ON LAND</p>	<p>Realizing an Ultra-low Carbon Society by 2050 and a Post-carbon Society further down the road</p> <ul style="list-style-type: none">•Maintenance and good use of natural capital through the proper forest management, etc. <p>Building a World-leading Circular System</p> <ul style="list-style-type: none">•Preserving ecosystems and species, and the Forest-Village-River-Sea•Tackling fire ants and other na species•Assessment of the value of natural capital <p>Future-oriented, Quality Urban Development and Integrated Improvement of Environment, Economy and Society</p> <ul style="list-style-type: none">•Appropriate assessment
 <p>17 PARTNERSHIPS FOR THE GOALS</p>	<p>Development of Environmentally Oriented Grassroots Activism and the Establishment of the Kitakyushu Environmental Brand Supported by All Citizens</p> <p>Realizing an Ultra-low Carbon Society by 2050 and a Post-carbon Society further down the Road</p> <p>Building a World-leading Circular System</p> <p>Future-oriented, Quality Urban Development and Integrated Improvement of Environment, Economy and Society</p> <ul style="list-style-type: none">•Promotion of international environmental cooperation, international environmental business, the realization of Asia-wide ultra-low carbon societies, the formation of an international resource recycling center and the international development of environmental industries		

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