

EXPO 2027 YOKOHAMA JAPAN

Sustainability Strategy (Summary Version)

Created in March 2024
Japan Association for the International Horticultural Expo 2027, Yokohama

Summary of the Sustainability Strategy



The Sustainability Strategy was formulated in March 2024 based on the regulations, etc., of the International Association of Horticultural Producers (AIPH). It prescribes basic policies, objectives, and other matters to deliver a sustainable international horticultural exhibition. **We will contribute to the realisation of a sustainable society by publicising initiatives related to issues such as biodiversity conservation and climate action based on the theme, etc. of EXPO 2027 YOKOHAMA JAPAN.**

Item	Summary
1 Introduction	Based on the Sustainable Policy, etc. of AIPH, we will deliver a sustainable international horticultural exhibition in line with the theme of “Scenery of the Future for Happiness” and the significance of the EXPO.
2 Situational Analysis	The EXPO will comply with and respect international and domestic conventions, laws, and regulations. It will promote initiatives that contribute to the achievement of the 17 United Nations Sustainable Development Goals (SDGs). The situation of the EXPO will be analysed through an environmental analysis.
3 Basic Policies	We have developed the Basic Policies for six areas, 1 Human rights, 2 Labour, 3 Anti-corruption, 4 Diversity & inclusion, 5 Accessibility, and 6 Environment These policies will be promoted based on the directions of actions.
4 Goals and Objectives	KPIs have been established for five goals and 12 objectives to promote the implementation of actions. Goals: 1 Climate Action, 2 Biodiversity conservation, 3 Sustainable sourcing and resource management, 4 Equity & inclusion, and 5 Education & awareness raising Objectives: 1 Biodiversity, 2 Water, 3 Carbon, 4 Energy, 5 Pollution, 6 Waste & Dismantlement, 7 Contractors & Construction, 8 Design, 9 Transport, 10 International Participants, 11 Sustainable Events Operations & Management, and 12 Legacy

Introduction



Based on the Sustainable Policy, etc. of AIPH, we will **deliver a sustainable international horticultural exhibition in line with the theme of “Scenery of the Future for Happiness” and the significance of EXPO 2027 YOKOHAMA JAPAN.**



Sustainability Policy

- Climate action
- Biodiversity conservation
- Sustainable sourcing and resource management
- Equity & inclusion
- Education & awareness raising



Theme

- “Scenery of the Future for Happiness”

Significance of EXPO 2027 YOKOHAMA JAPAN

- In light of global environmental changes, such as climate change, reappraise the value of the wisdom and culture of making use of diverse functions of the natural environment in daily life, and utilise such wisdom and culture to build a sustainable society as part of the relationship Japan has built with nature.
- Create a society that fosters happiness by spreading horticultural culture across the globe, realising enriched lifestyles filled with flowers and greenery where farming is a familiar part of everyday life, and encouraging participation of diverse entities.

Delivery of a Sustainable International Horticultural Exhibition

Situational Analysis



EXPO 2027 YOKOHAMA JAPAN will **comply with and respect international and domestic conventions, laws, and regulations. It will promote initiatives that contribute to the achievement of the 17 goals of SDGs.**
 The situation of the EXPO will be analysed through an environmental analysis.

Item	Summary
Normative and Institutional framework	<p><u>Comply with and respect international legal frameworks such as conventions, and laws and regulation of the state and municipalities.</u></p> <p>(International) Paris Agreement; Kunming-Montreal Global Biodiversity Framework; and others (Domestic) Act on Special Measures Necessary for Preparing for and Managing the International Horticultural Exposition; Basic Act on the Environment; and others (Municipalities) Kanagawa Prefecture Basic Ordinance on Environment; Yokohama City Basic Ordinance on the Conservation and Creation of Environment; and others</p>
International Standards	<p><u>Promote initiatives that contribute to the achievement of the 17 goals of the United Nations Sustainable Development Goals (SDGs)</u></p>
Context / Environment	<p><u>Using PESTEL Analysis, analyse positive and negative impacts on the EXPO</u></p> <p>(P: Political) Russia-Ukraine situation (energy issues and inflation, etc.) and other factors (E: Economic) Global price increase (including construction costs), and other factors (S: Sociocultural) Emerging infectious diseases (such as COVID-19), and other factors (T: Technological) Promotion of Society 5.0, and other factors (E: Environmental) Nature positive, Setting of goals related to biodiversity such as 30by30, and other factors (L: Legal) Establishment of legal systems related to sustainability and human rights, and other factors</p> <p><u>Using SWOT Analysis, analyse how to leverage strengths and opportunities, while improving weaknesses and threats</u></p> <p>(S: Strengths) Exceptional plants, gardening culture, and agriculture of Yokohama and Japan, and other factors (W: Weaknesses) Reduction in the production of flowers and plants in Japan, and other factors (O: Opportunities) Recovery of travel demand in Japan and overseas, and other factors (T: Threats) Global price increase, and other factors</p>

All parties involved in the EXPO shall **respect internationally recognised human rights** in accordance with international norms such as **the UN Guiding Principles on Business and Human Rights** and the UN Global Compact.

The parties shall also **respect human rights to achieve the theme of “Scenery of the Future for Happiness.”**

Basic Policy (Excerpt)

- All parties involved in the EXPO shall respect internationally recognised human rights
- The Association shall respect human rights to achieve the theme of “Scenery of the Future for Happiness”

Directions of Actions (Excerpt)

- Respect globally recognised international norms related to human rights
- Request contractors and exhibitors, etc. to comply with and respect globally recognised human rights standards through the Code of Sustainable Procurement, etc.
- Prohibit all forms of discrimination and harassment
- Respect the rights of women, children, people with disabilities, and minorities, etc.

International norms such as the ILO Core Labour Standards and the UN Global Compact shall be respected. **Appropriate worker management**, such as personnel of the Association, contractors and suppliers, shall be ensured.

Basic Policy (Excerpt)

- Ensure appropriate worker management of personnel of the Association
- Ensure appropriate worker management of contractors and suppliers

Directions of Actions (Excerpt)

- Respect international norms such as ILO's Core Labour Standards
- Guarantee the rights of workers, including their basic labour rights
- Prohibit discrimination, harassment, long working hours, forced labour, and child labour, etc.
- Manage occupational health and safety, and foster a pleasant workplace

The EXPO shall **respect international norms** such as the UN Global Compact, and **comply with domestic laws and regulations**.

The Association will establish a system to promote continuous compliance and enhance its governance function by taking into account the EXPO's characteristics as a large-scale international event, and the characteristics of the Association which conducts public business partially financed with public funds.

Basic Policy (Excerpt)

- Work on preventing all forms of corruption
- Respect international norms and comply with domestic laws and regulations

Directions of Actions (Excerpt)

- Develop a system to promote compliance through measures such as establishing the Audit Division and Compliance Committee
- Establish rules such as the Compliance Rules and the Rules on Professional Ethics of Officers and Employees
- Raise awareness for compliance among officers and employees
- The Association will post rules and information related to compliance, accounting and contract administration on a website

The diversity of people in the overall operation of the EXPO shall be respected.

(Race, gender, age, religion, place of origin, and disability, etc.)

The EXPO shall **leverage the diverse perspectives and abilities of people**, and deliver an advanced international horticultural exhibition.

Basic Policy (Excerpt)

- Respect the diversity of people in the overall operation of the EXPO
- Leverage the diverse perspectives and abilities of people, and deliver an advanced international horticultural exhibition
- Use the EXPO as an opportunity to spread awareness for Diversity & Inclusion across society

Directions of Actions (Excerpt)

- Create an environment where diverse people can thrive
- Encourage exhibitors and suppliers to work on Diversity & Inclusion

The EXPO shall **promote measures related to tangible and intangible elements of accessibility based on the diverse needs of users.**

We shall work with relevant organisations **to facilitate access to the site.**

Appropriate information through various means shall be provided.

Basic Policy (Excerpt)

- Promote measures related to tangible and intangible elements of accessibility based on the diverse needs of users
- Promote the development of an environment that takes into account the continuity of “movement” and “ease of use”

Directions of Actions (Excerpt)

- Work with relevant organisations to facilitate access to the site
- Provide appropriate information through various means

The EXPO shall respect international norms and comply with Japanese laws, and promote environmental measures such as **biodiversity conservation and climate change countermeasures** through actions to achieve **Green Transformation (GX) and nature positive**.

We will create the **“Scenery of the Future for Happiness”** by showcasing the venue that takes advantage of the natural environment and the co-creative themed project “Village.”

Basic Policy (Excerpt)

- Respect international norms and comply with Japanese laws, and promote environmental measures such as biodiversity conservation and climate change countermeasures through actions to achieve GX and nature positive
- Communicate ways of co-existing with nature to foster changes in consciousness and behaviour of each person
- Implement a precautionary approach to reduce environmental impact, and make continuous improvements

Directions of Actions (Excerpt)

- Strive to procure renewable energy to fill all energy needs and promote 3Rs and renewables, with the goal of decarbonisation
- We will create the “Scenery of the Future for Happiness” by showcasing the venue that takes advantage of the natural environment and the co-creative themed project “Village”
- Promote the appropriate behaviour of exhibitors, suppliers and supply chain through the Code of Sustainable Procurement

Goals and Objectives 1

- Based on the Expo regulations of AIPH, **we have established key performance indicators (KPIs) for achieving the five goals and 12 objectives to promote specific actions.**
- As the five goals and 12 objectives are inter-related, we will minimise the trade-off between actions and promote actions that will create synergy.

Five Goals	Specific actions
1 Climate action	<ul style="list-style-type: none">• Development of a green network that seamlessly connects with the natural environment surrounding the site• Promotion of decarbonisation of the EXPO
2 Biodiversity conservation	<ul style="list-style-type: none">• Consideration of a site plan centred around green infrastructure• Publicising of initiatives to achieve nature positive
3 Sustainable sourcing and resource management	<ul style="list-style-type: none">• Formulation and operation of the Code of Sustainable Procurement
4 Equity & inclusion	
5 Education & awareness raising	<ul style="list-style-type: none">• Consideration of exhibition commentary and landscape planting with a focus on conveying information



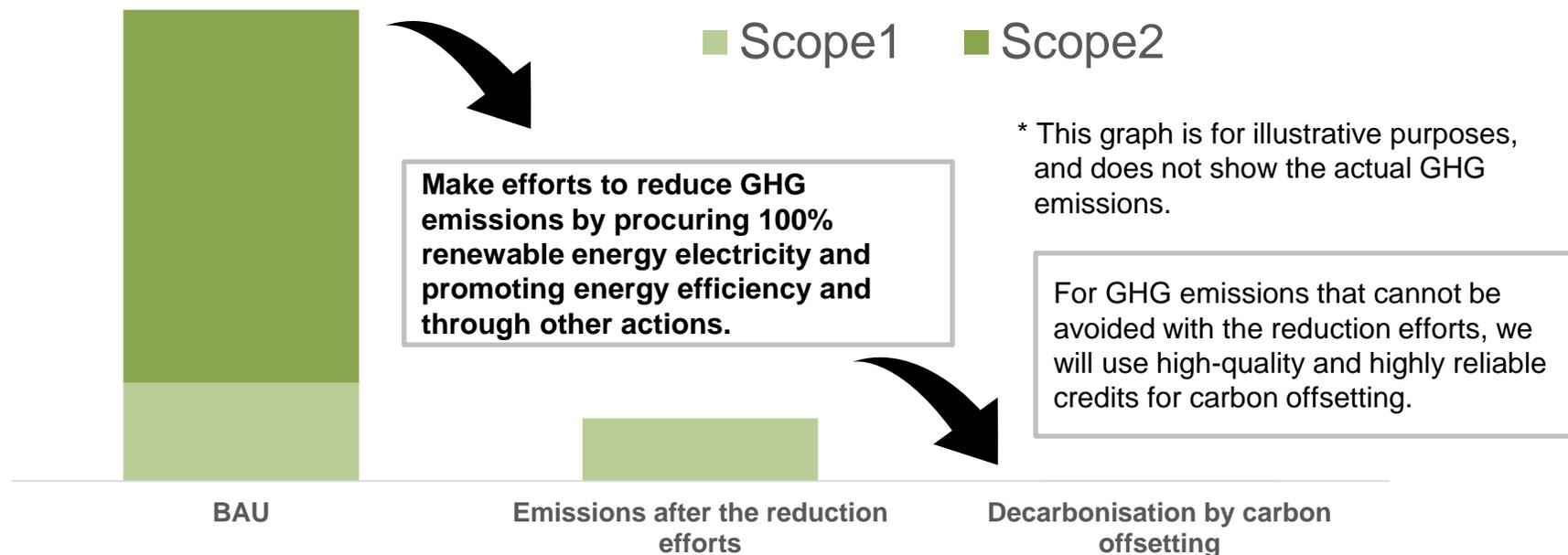
Goals and Objectives 2

12 Objectives	Specific actions
1 Biodiversity	<ul style="list-style-type: none"> • Consideration of a site plan centred around green infrastructure • Publicising of initiatives to achieve nature positive
2 Water	<ul style="list-style-type: none"> • Reduction of irrigation water consumption and demand
3 Carbon	<ul style="list-style-type: none"> • Promotion of decarbonisation of the EXPO
4 Energy	<ul style="list-style-type: none"> • Procurement of 100% renewable energy electricity • Adopt energy-saving equipment • Adopt passive architecture design
5 Pollution	<ul style="list-style-type: none"> • Implementation of environmental impact assessment
6 Waste & Dismantlement	<ul style="list-style-type: none"> • Promotion of a circular economy through GREEN Circular Architecture • Promotion of the 3Rs (reduce, reuse and recycle waste) & renewables

12 Objectives	Specific actions
7 Contractors & Construction	<ul style="list-style-type: none"> • Active utilisation of future park facilities • Formulation and operation of the Code of Sustainable Procurement
8 Design	<ul style="list-style-type: none"> • Formulate design consideration guidelines
9 Transport	<ul style="list-style-type: none"> • Enhance access to the site with public transportation, etc. • Adoption of universal design
10 International Participants (Foreign governments and international organisations, etc.)	<ul style="list-style-type: none"> • Creation of a webpage for official participants (foreign governments and international organisations, etc.)
11 Sustainable Events Operations and Management	<ul style="list-style-type: none"> • Develop an Event Sustainability Management System (ESMS) (Obtain and operate ISO20121 certification) • Promote reduction of food loss and waste • Reduction of single use containers such as plastic containers
12 Legacy	<ul style="list-style-type: none"> • Reuse the EXPO's facilities as a park • Succession of initiatives related to sustainability of the EXPO

- **The following specific actions are included in the Basic Policies, Goals, Objectives, and KPIs, etc.**
 - **Carbon:** Promotion of decarbonisation of EXPO 2027 YOKOHAMA JAPAN
 - **Biodiversity:**
Consideration of a site plan centred around green infrastructure
 - **Contractors & Construction and Waste:**
Promotion of a circular economy through GREEN Circular Architecture
 - **Overall Environment:**
Implementation of environmental impact assessment
 - **General:**
Formulation and operation of the Code of Sustainable Procurement

- To achieve Green Transformation (GX), we will **promote decarbonisation by procuring 100% renewable energy electricity and promoting energy efficiency and through actions such as carbon offsetting, for Scope 1 and 2 emissions of the Association.**
- **For Scope 3 emissions, we will work with visitors and relevant parties, etc. to reduce GHG emissions.**



*1 GHG (Greenhouse Gas): Greenhouse gases that cause climate change

*2 Scope 1: Direct emissions that occur from sources that are controlled or owned by a business operator; Scope 2: Indirect emissions associated with the use of electricity, heat, or steam provided by other companies;

Scope 3: Indirect emissions other than Scope 1 and Scope 2 (emissions originated from other companies in relation to the business operator's activities)

* 3 BAU (Business as Usual): A case where no measures are taken

Biodiversity: Consideration of a site plan centred around green infrastructure

We will preserve and utilise the existing natural environment and biodiversity, and **promote a site plan centred around green infrastructure. We will also publicise initiatives through EXPO 2027 YOKOHAMA JAPAN to achieve nature positive.**

1 Preserve and enhance the potential of the natural environment

- Preserve and utilise as much as possible the existing natural environment, such as groves, terraced land, and the wildlife inhabiting the area.
- By further enhancing the potential of the existing natural environment, utilise it as the **foundation of spaces for promoting coexistence with nature and spaces for developing communities through the power of nature.**

2 Enhance the comfort and appeal of the site

- **Design a site that is comfortable, safe, reassuring, and appealing for visitors by** making effective use of water, greenery, and wind corridors and through other approaches.
- **By using green infrastructure,** offer environmental education and activities, etc. to create connections among various entities and promote the participation and interaction of diverse people.

3 Reduce environmental impact in site development, administration and operation

- Reduce environmental impact across all processes of site development, administration and operation, while paying attention to global trends such as the movement toward carbon neutrality.

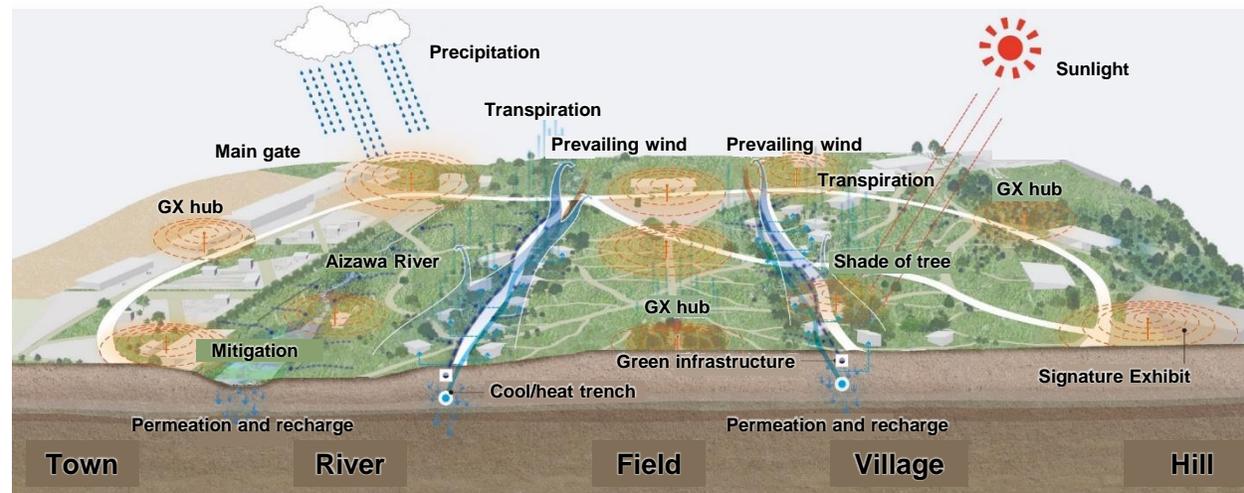


Image of implementation of green infrastructure

Contractors & Construction and Waste: Promotion of a circular economy through GREEN Circular Architecture

Temporary structures of EXPO 2027 YOKOHAMA JAPAN will be constructed with environmentally friendly **GREEN Circular Architecture**.

Architecture in harmony with the surrounding scenery

- Utilise *Kamiseya*'s natural environment conditions such as its terrain, riverine systems, existing trees, and prevailing wind patterns to create a coherent layout and direction in line with exhibitions and landscape, with a size and height that blend into the surroundings.
- Take an ingenious approach to build the roof, openings and foundation, etc. to actively incorporate the natural power of light, wind, water, and earth.
- Develop facilities that connect to a pleasant outdoor setting so that visitors can enjoy outdoor gardens (plants) that show different scenes each day as well as the changing seasons.

GREEN Circular Architecture

Architecture that coexists with plants

- Create a design that enable visitors to feel the materials, plants' energy, the value of plants that create oxygen in the air, and gain the feeling of well-being.
- Take a new look at the relationship between architecture and plants, between which a close connection and relationship have been built over the years in regional climates of Japan, and utilise modern technology to propose a new relationship between people, plants, and architecture.

Architecture that promotes circulation and connection

- Design architecture that makes it easy to conduct daily maintenance and future repair, and that can grow with the surrounding environment and functions, for example, by planning its subsequent use in advance.
- Select environmentally friendly materials and do not create waste. Especially when using wood materials, etc. produced in Japan, they should contribute to the circulation of forest resources by using them to the fullest as structural/ finishing materials, furniture, and energy, etc.

Venue with nature-based design and GREEN Circular Architecture

- Leverage the plant resources and culture of Japan, and provide an appealing venue with a vision to create a green society filled with flowers and greenery after the EXPO.
- Temporary structures in the site should be circular structures (reuse and recycle) based on **GREEN Circular Architecture** that facilitates the reduction of environmental impact and effective use of resources.
- For construction materials, actively use wood materials produced in Japan.
- Reduce the construction work carried out at the site by manufacturing parts in factories in advance. By doing so, the work load and construction period will be reduced.

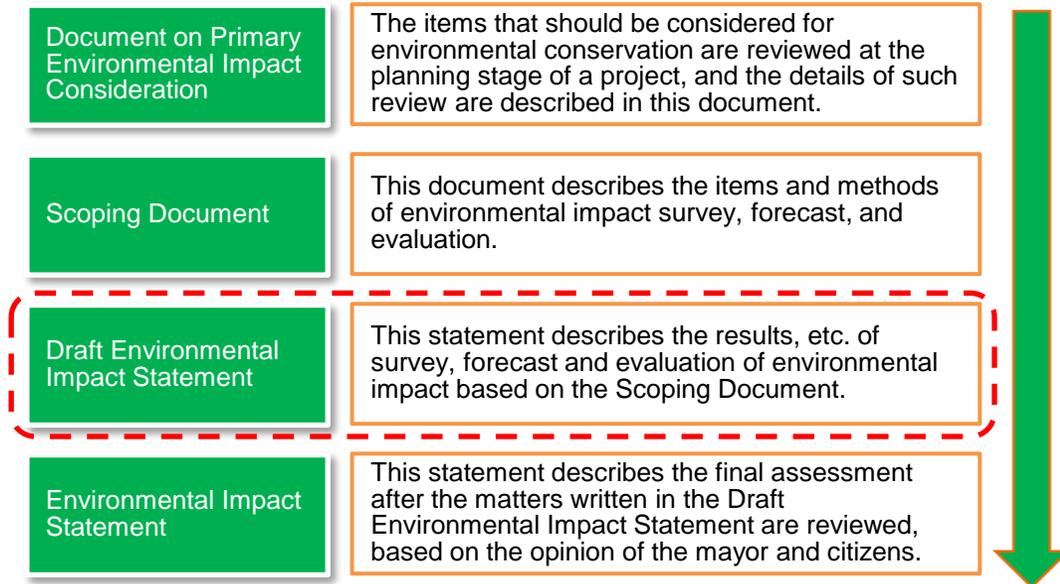


Image of a wood-based prefabricated facility

Overall Environment: Implementation of environmental impact assessment

We are currently **preparing a Draft Environmental Impact Assessment** based on the Yokohama City Environmental Impact Assessment Ordinance.

1 Environmental impact assessment procedures



2 Project subject to environmental impact assessment

Type of projects	Size of projects in scope	
	Class 1 projects (*1)	Class 2 projects (**2)
Construction of sports and recreation facilities, etc.		
Construction of new class 2 special structures	Urbanization promotion area of 20ha or larger Urbanization control area of 10ha or larger	15ha or larger and less than 20ha 7.5ha or larger and less than 10ha
Construction of new city parks	Site area of 20ha or larger, with the area subject to land characteristic change of 10ha or larger	15ha or larger and 7.5ha or larger
Development of industrial parks	Development area of 10ha or larger	7.5ha or larger and less than 10ha
Development of distribution business zones	Development area of 10ha or larger	7.5ha or larger and less than 10ha
Land readjustment projects	40ha or larger area for a land readjustment project (if the area includes 10ha or larger forest area prescribed by the Forest and Forestry Basic Act, then 20ha or larger)	30ha or larger and less than 40ha (if the area includes a forest area of 7.5 ha or larger, then 15ha or larger)
Projects related to development activities	Urbanization promotion area of 20ha or larger Urbanization control area of 10ha or larger	15ha or larger and less than 20ha 7.5ha or larger and less than 10ha

3 Environmental impact assessment items for the EXPO (during construction, the EXPO period, and removal)

Basic concept for the conservation and creation of the environment	Environmental impact assessment items
Reduction of impact on the global environment	GHG emissions
Conservation, restoration creation of a familiar natural environment	Biodiversity <ul style="list-style-type: none"> Animals Plants Ecosystems
	Hydrologic cycle (groundwater level, flow of springs, flow and morphology of rivers, state of flow regime in coastal waters)
Preservation of the living environment where people can live with peace of mind and comfort	Waste / Construction soil (domestic/ industrial waste, construction soil)
	Air quality (air pollution)
	Water quality/ Bottom sediment (quality and bottom sediment of public waters, quality of groundwater)
	Soil (soil contamination)
	Noise
	Vibration
	Ground (ground subsidence)
	Offensive odour
	Low frequency noise
	Radio disturbance (television interference)
Shadow (obstruction of sunlight, shadow flicker)	
Wind damage (direction and velocity of wind in localized areas)	
Safety (ground stability, flooding, fire/ explosion, leakage of harmful substances)	
Ensuring of a comfortable global environment	Local communities (division of community, traffic congestion, safety of pedestrian)
	Landscape
	Places for interactive activities
	Cultural assets, etc.

* The Environmental Impact Assessment System is a system where the impact of a project on the environment is researched, forecast and assessed in advance, followed by the announcement of the results. Subsequently, appropriate measures to conserve the environment are considered by going through procedures such as by gathering the opinion of citizens and the mayor, and then incorporated into the project plan.

- **We formulated the Code of Sustainable Procurement (Procurement Code) in January 2024**, which the Association and exhibitors, etc. shall adhere to in the procurement of goods and services, implementation of construction, and other processes.
- As **five common standards and six standards by item were established** for the Tokyo 2020 Olympic and Paralympic Games and Expo 2025 Osaka, Kansai, Japan, we formulated the same standards according to these precedent cases as they are matters of high importance for EXPO 2027 YOKOHAMA JAPAN.
- In addition, for standards by item, we have also **established a new category called “7 Plants,” which is unique to EXPO 2027 YOKOHAMA JAPAN.**

Item	Composition of the Procurement Code for EXPO 2027 YOKOHAMA JAPAN
Sustainability Standards (Common Standards)	<p>We established the following five common standards that will be applied uniformly to all goods, services, and works.</p> <p>1 General provisions, 2 The environment, 3 Human rights, 4 Labour, and 5 The economy</p>
Standards by item	<p>For important goods, services, and works, we established the following seven standards by item.</p> <p>1 Wood materials, 2 Paper materials, 3 Agricultural products, 4 Livestock products, 5 Fishery products, 6 Palm oil, and 7 Plants</p>

Reference: [Sustainable sourcing code : Tokyo 2020 Olympic and Paralympic Games](#), Olympic World Library
[Code of Sustainable Procurement \(Second edition\)](#), Japan Association for the 2025 World Exposition Website