

JGC STORY

Roadmap to the Sustainable Growth

The JGC Group pursues further growth through contributions toward a sustainable society.

The JGC Group is currently establishing 2040 Vision, a long-term vision that will inform the next medium-term business plan beginning in fiscal 2021. Based on creating shared value, the vision will guide us in efforts to transform current business while addressing urgent social issues on the path to sustainability, as we promote exploration of new business areas in the context of our core competencies to take on these social issues.

Sustainability-oriented Social Issues to Address

	Stable Food Supply for All	Total global population ^{※1}	2020: 7.7 billion people 2050: 9.7 billion people
	Assurance of Health and Well-being for All	Global population 65 or older ^{※2}	2019: 700 million people 2050: 1.5 billion people
	Water Conservation	Global water demand ^{※3}	2019: 4,600 km ³ 2050: 6,000 km ³
	Improvement of Energy Access	Global primary energy consumption ^{※4}	2017: 13,511 Mtoe 2040: 17,866 Mtoe
	Building Foundations for Infrastructure, Technological Innovation	Projected global demand for infrastructure development (2016–2030) ^{※5}	\$53 trillion
	Development of Safe, Secure, Comfortable Cities	Global urban population ratio ^{※6}	2020: 56.2 % 2040: 65.5 %
	Establishment of Recycling Systems	Global waste generated annually ^{※7}	2018: 2 billion tons/year 2050: 3.4 billion tons/year
	Promoting Decarbonized / Low-carbon Societies	Rate of CO ₂ reduction to meet Paris Agreement targets ^{※8}	By 2030: 7.6 % reduction each year
	Conservation of Oceans, Marine Ecosystems	Global marine plastic waste ^{※9}	approx. 150 million tons

Core Competencies

- Technical Expertise
- Project Execution Capabilities
- Organizational Strengths
- Solution Proposal Capabilities
- Ability to Respond to Changes
- Open-minded Corporate Culture



Transforming Existing Business

Significantly more competitive, from an innovation in project execution capabilities

Exploring New Business Areas

Business Segments Envisioned*

Low-carbon / Decarbonized Engineering

Focusing on segments that combine fossil energy with low-carbon technologies, such as CCS

Functional Materials Supporting Carbon Reduction and Conserving Environment

Contributing to greater EV/HV demand, microplastic alternatives, and other forms of carbon reduction and decarbonization

Resource Recycling

Responding to expanded resource recycling, such as plastic and other waste

New Energy

Focusing both on conventional renewable energy and new areas of energy, such as hydrogen and ammonia

Infrastructure, Industrial Innovation

Meeting greater demand for construction of advanced water, transportation, and other infrastructure and smart factories

Healthcare, Life Sciences

Responding to global population growth, longer life expectancy, and higher medical standards

* Subject to change

VISION 2040
(to be announced in 2021)

Sources

※1 UN*World Population Prospects 2019*

※2 UN*World Population Ageing 2019*

※3 IIASA*Water Futures and Solution 2016*

※4 BP*BP Energy Outlook 2019 edition*

※5 OECD*Strategic Transport Infrastructure Needs to 2030*

※6 UN*World Urbanization Prospects 2018*

※7 World Bank Group*What a Waste 2.0*

※8 UNEP*Emissions Gap Report 2019*

※9 McKinsey & Company and Ocean Conservancy

Stemming the tide:Land-based strategies for a plastic-free ocean