World-Class Project Management for

Offshore Wind Power Projects
Over our 90-year history, JGC has carried out 20,000 plant construction projects in 80 countries worldwide. We work with partners around the world to ensure optimal overall control of project quality, cost, scheduling, and safety.

As global measures in response to climate change have grown more urgent, JGC has promoted widespread use of renewable energy through solar and biomass plant construction.

Behind these offshore wind power generation projects are countless tasks over nearly a decade. Without a doubt, this shows that effective project management holds the key to success.

Here, we introduce our longstanding mission in this work and the value JGC project management can provide.

**JGC = PRIME CONTRACTOR**

JGC is a prime contractor coordinating all stages for optimal execution overall.

We work with diverse international partners to make projects a success.

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**PROJECT MANAGEMENT**

- RESEARCH
- ENGINEERING
- PROCUREMENT
- CONSTRUCTION
- OPERATION & MAINTENANCE

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**JGC’s major construction record around the world**

- Projects completion record: more than 20,000 projects in over 80 countries
- Workforce involved per project: up to 30,000 people
- World’s best record of zero accidents requiring time away from work: approx. 130.9 million hours

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*For the time duration of the Qatar gas processing plant from July 12, 2012 to March 20, 2014*
Success Calls for More Than Technical Proficiency: World-Class Project Management Channels Boundless Engineering Skills into Success -

**Solution 1**
- Environmental assessment support by JANUS
- Support in community briefings
- Water environment, flora and fauna, ecosystem, and scenery surveys

**Solution 2**
- Marine coordination securing safety and enabling efficient offshore project execution
- Construction and preservation control securing quality, safety, and schedule

**Digital management of all materials and equipment**
All equipment is tagged at the design phase, assessed and data collected is shared in real time. The data is managed and processed using JANUS, enabling data-based decision-making. The data in the system is also used when the original data is preserved during construction.

**Engineering management for offshore structures in 3/4 of the world’s FLNG Operations**
JGC has built three out of four world facilities for liquefied natural gas. Our engineering management system, known as JANUS, is applied across all project phases, from front-end engineering to the final assembly site, installation and construction.

**Control product manufacturing carefully to avoid errors**
In order to control the manufacturing stage, JGC has an internal control system for material, component, and manufacturing process quality, and safety. This system in conjunction with JANUS ensures control terminal and commercialization. The system is applied to various types of equipment and is expanded to all project phases.

**Construction and preservation control**
- Quality assurance department manages quality assurance and quality control. The quality assurance department is responsible for planning and managing the design and construction process, ensuring quality and safety.
- Safety control at the world’s highest level is ensured in safety training for workers, regular permit procedures, and safety inspections. JGC strictly observes standards that ensure the safety and environmental impact of FLNG related activities. As a result of dedicated safety control, JGC has achieved world-class safety achievements in the construction of FLNG facilities worldwide.

**Safety culture**
- Under the JANUS system, a culture of safety, also known as the “safety culture,” is implemented.这也是一种文化，其中安全是首要考虑因素，它被融入了企业的日常运作中。JGC致力于在所有项目阶段确保安全，从设计到施工，包括施工和维护阶段。

**Promotion of floating offshore wind power**
- Wind power business plan for floating offshore wind power
- Building connections with communities, fishing cooperatives, and other organizations

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**JGC’s VALUE**
- Business practice management to build vast plants in extreme environments
- Management to build vast plants in extreme environments

**Construction**
- Execute construction work accounting for quality, delivery, and safety
- Optimized project management plan

**Operation and maintenance**
- JANUS system for project evaluation and optimization
- JANUS system for project evaluation and optimization

**Mission**
- A partner with solid knowledge of global business
- A partner with solid knowledge of global business

**RESEARCH**
- Basic design of offshore structure, determination of optimal layout
- Detailed design (execution of plans accounting for procurement and construction in offshore environment)

**ENGINEERING**
- Specialist in wind analysis support business plans for maximum power generation
- Specialist in wind analysis support business plans for maximum power generation

**PROCUREMENT**
- Selects optimal suppliers from a holistic view accounting for quality, cost, and delivery schedule
- Comprehensive supply chain management from selection of manufacturers to purchase order issue and meticulous control over quality, cost, and delivery schedule
JGC is
A professional corps that excels at project management.
Entrust us with your projects to take advantage of business and engineering expertise on the global stage.

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