INTEGRATED SEAWATER INTAKE AND OUTFALL SOLUTIONS

Trusted Marine Infrastructure Partner Since 1953
Over 50 Years of International Marine Project Experience

SURVEY / ENGINEERING / PROCUREMENT / CONSTRUCTION / INSPECTION / MAINTENANCE



TOKYO KYUEI CO., LTD. / International Project Division

Why Tokyo Kyuei?

We help clients reduce project risk and improve long-term asset reliability through integrated engineering, construction, inspection, and maintenance services.

INTEGRATED SUPPORT

One Seamless Technical Team

• We reduce interface risk through a single technical partner covering engineering, construction, inspection, and maintenance.

INTERNATIONAL EXPERIENCE

Over 50 Years of International Project Experience

• Over 50 years of international experience supporting power plants, industrial facilities, desalination projects, and other critical marine infrastructure.

INTEGRATED QUALITY MANAGEMENT

Quality from Fabrication to Site Execution

• Quality management from fabrication through offshore installation helps minimize rework, delays, and construction risk.

UNDERWATER CAPABILITY

Professional Divers & ROV-Based Inspection

• Professional divers and advanced inspection technologies support reliable maintenance and long-term facility performance.

Intake Head



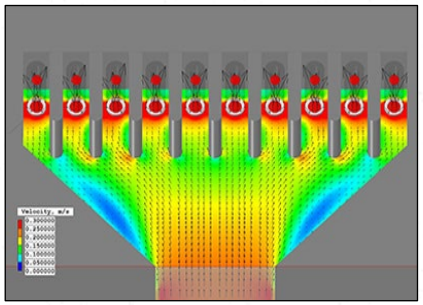
Outfall Head



Intake & Outfall Pipes



FROM CONCEPT TO UNDERWATER MAINTENANCE



01

INVESTIGATE & ANALYZE

Bathymetric and marine environmental surveys, numerical flow analysis, hydraulic assessments, and structural 3D modeling.

Reduce design uncertainty before construction begins.



02

DESIGN, FABRICATE & TRANSPORT

Design and quality-controlled fabrication of intake and outfall components, combined with coordinated marine and land transportation.

Reduce coordination risks and fabrication rework.



03

OFFSHORE INSTALLATION

Heavy-lifting marine operations, dredging, piling, and precise underwater structural installation.

Deliver complex marine construction safely, efficiently and precisely.



04

INSPECT & MAINTAIN

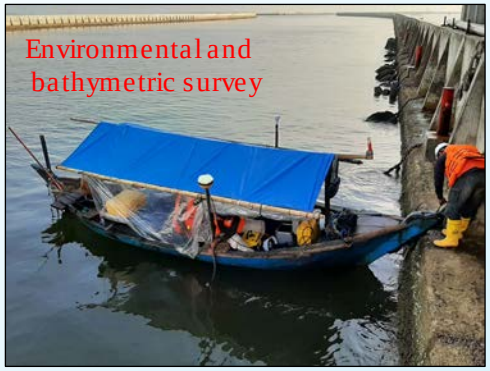
Underwater visual inspection, thickness measurement, ROV-based surveys, anode replacement, surface cleaning, and repair welding.

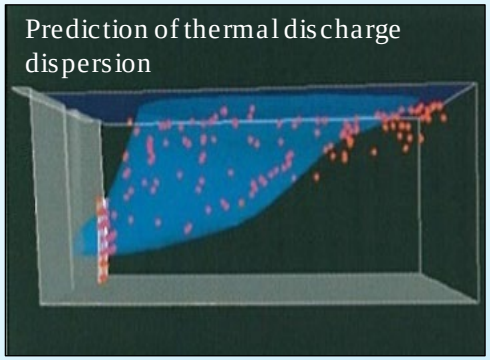
Improve asset reliability and extend facility service life.

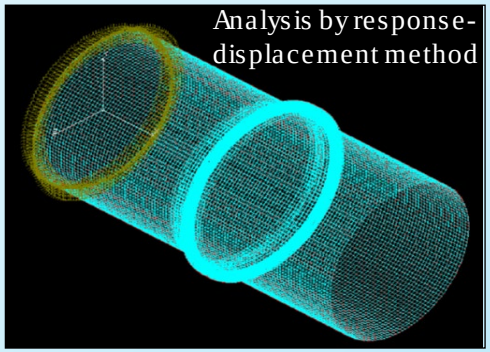
ONE PARTNER THROUGH THE ENTIRE ASSET LIFE CYCLE OF YOUR MARINE FACILITY

MARINE ENGINEERING AND ANALYSIS

Understand the environment. Minimize uncertainty. Design with confidence.







OUR ENGINEERING CAPABILITY

We combine marine surveys, numerical analysis, hydraulic assessment, structural design, and 3D modeling to develop practical seawater intake and outfall solutions.

- Bathymetric and marine environmental surveys
- Numerical flow and hydraulic analysis
- Hydraulic and pollution dispersion assessment
- Structural design and 3D modeling
- Environmental review
- Constructability and installation planning

INVESTIGATE → ANALYZE → DESIGN → VERIFY

Early site understanding reduces design changes, construction risks, and project uncertainty.
Helping clients make informed decisions before construction begins.

QUALITY MANAGEMENT FROM FABRICATION TO SITE EXECUTION

Delivering quality from fabrication to final installation.

We coordinate fabrication, transportation, offshore installation, and associated civil works to maintain quality and accuracy throughout the project from the fabrication shop to the final installation site.

OUR QUALITY MANAGEMENT APPROACH

- Material and drawing control
- Dimensional accuracy and fit-up
- Welding and assembly inspection
- Coating and corrosion protection
- Transportation and lifting preparation
- Construction interface and civil works coordination
- Inspection records and documentation

MATERIALS → FABRICATION → COATING → TRANSPORTATION → SITE EXECUTION

- QUALITY ASSURANCE & INSPECTION THROUGHOUT -







Integrated quality management improves installation accuracy, minimizes rework, and supports project schedule reliability.

INTEGRATED MARINE AND CIVIL CONSTRUCTION

Safely executing complex marine and civil works in challenging coastal environments.







We coordinate offshore and onshore construction for seawater intake and outfall facilities, from heavy lifting and dredging to piling, concrete works, and underwater installation.

OUR CONSTRUCTION CAPABILITY

- Heavy-lifting marine operations
- Dredging and seabed preparation
- Sheet pile driving and piling
- Concrete and foundation works
- Intake and outfall pipe installation
- Intake and outfall head installation
- Underwater connection and joint work
- Related civil and coastal construction

MARINE WORKS / CIVIL WORKS / UNDERWATER WORKS

Integrated coordination of marine, civil, and underwater activities helps reduce construction risk and improve project efficiency.

UNDERWATER INSPECTION AND CONDITION ASSESSMENT

Professional underwater inspection supporting asset reliability and maintenance planning.

We inspect underwater structures to identify corrosion, damage, sediment accumulation, marine growth, and other conditions that may affect facility performance.

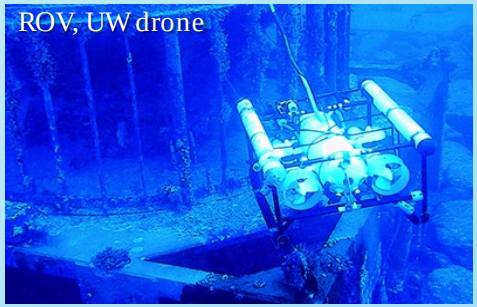
OUR UNDERWATER INSPECTION CAPABILITY

- Underwater visual inspection
- Steel thickness measurement
- Structural and concrete condition assessment
- Coating and corrosion assessment
- Anode and corrosion protection inspection
- Underwater photography and video
- Pipe, joint, and diffuser inspection
- ROV-based and underwater drone surveys

INSPECT → MEASURE → ASSESS → REPORT







Reliable inspection data supports informed maintenance decisions and reduces operational risk.

UNDERWATER MAINTENANCE AND REPAIR

From inspection findings to effective life-extension solutions.







We provide underwater maintenance and repair services based on inspection results and facility conditions.

OUR MAINTENANCE CAPABILITY

- Underwater cleaning and marine growth removal
- Anode replacement and corrosion protection work
- Underwater surface preparation and painting
- Underwater repair welding
- Intake and outfall head maintenance
- Pipe, joint, and diffuser repair
- Removal and replacement of damaged components
- Jellyfish protection
- Condition assessment and maintenance planning

INSPECT → PLAN → REPAIR → MONITOR

Timely maintenance extends asset life, reduces shutdown risk, and improves facility reliability.

Whether originally designed and constructed by Tokyo Kyuei or by others, we support inspection, maintenance, rehabilitation, and life-extension of marine infrastructure assets.

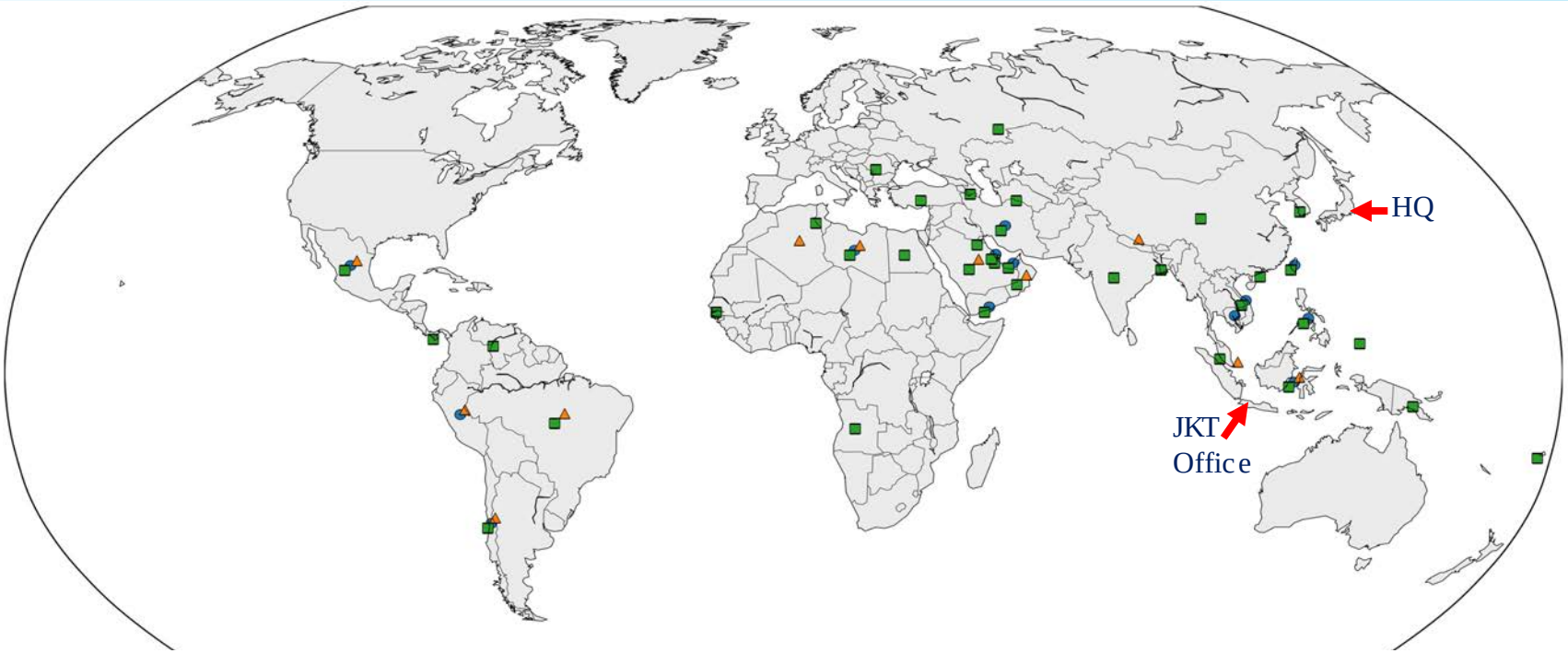
GLOBAL PROJECT EXPERIENCE

OVER 50 YEARS
International Marine Project Experience

ENGINEERING TO MAINTENANCE
One Technical Partner

38 COUNTRIES & REGIONS
International Marine Project Experience

TRUSTED BY
Power, Industrial, Desalination and Marine Infrastructure Clients



Our international experience covers marine construction, survey, consulting, and seawater intake and outfall solutions.

LET'S DISCUSS YOUR NEXT MARINE INFRASTRUCTURE PROJECT

From engineering studies to long-term underwater maintenance.



WE CAN SUPPORT

- Seawater Intake Facility
- Seawater Outfall Facility
- Marine / Coastal Facility
- Water and Wastewater Treatment
- Fisheries-related Facilities
- Aquarium / Marine Leisure

Whether you are planning a new system, upgrading an existing facility, or seeking long-term maintenance support, Tokyo Kyuei is ready to help.

COMPANY WEB SITE

TOKYO KYUEI CO., LTD. / International Project Division

Contact; Hiroshi Tanaka Email; htanaka@tc.kyuei.co.jp

NAME CARD; TANAKA