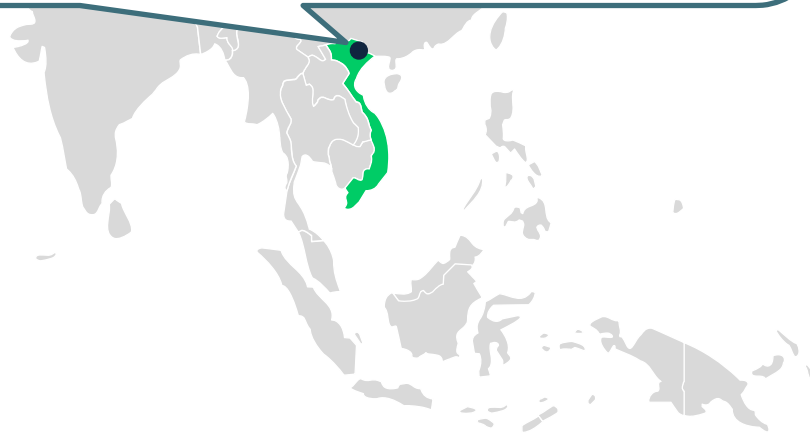


City-to-City Collaboration between Quang Ninh Province and Shiga Prefecture

- In Quang Ninh Province, the water environment of Halong Bay (World Natural Heritage Site) has deteriorated in recent years due to rapid economic development. Shiga Prefecture has been cooperating with JICA's technical cooperation project (Project for Green Growth Promotion in Halong Bay Area, Quang Ninh Province) since 2015, to achieve economic development while working to preserve the water environment of Lake Biwa.
- In 2017, Shiga Prefecture signed a "Memorandum of understanding on environmental and economic cooperation" with Quang Ninh Province, and has been conducting technological interaction and other activities related to wastewater treatment. In the City-to-City collaboration project, Shiga Prefecture will provide support based on the knowledge and experience it has gained through its activities to realize a CO₂ net-zero society and to conserve the water environment.

Quang Ninh Province, Vietnam

- Quang Ninh Province ranked first in the Provincial Competitiveness Index for the fifth consecutive year.
- Deterioration of coastal water quality, including Halong Bay, has become apparent with the progress of economic development.
- In response to the Vietnamese government's declaration of "Net Zero Emissions by 2050," the provincial climate change adaptation plan is being updated (e.g., conversion of some coal-fired power plants to natural gas-fired ones).

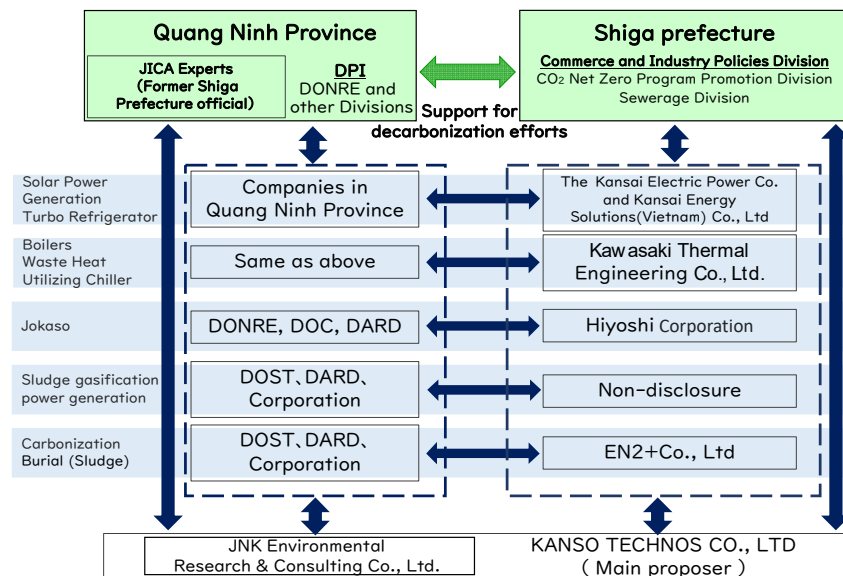


Shiga Prefecture

- Lake Biwa is the largest lake in Japan and one of the most ancient lakes in the world.
- Under the collaboration of industry, academia, government, and the private sector, Shiga Prefecture will achieve economic development while working to preserve the water environment of Lake Biwa.
- The "Shiga Prefecture CO₂ Net Zero Society Promotion Ordinance" and the "Shiga Prefecture CO₂ Net Zero Society Promotion Plan" will be formulated (March 2022), and efforts will be made to realize a "CO₂ Net Zero Society."

City-to-City Collaboration between Quang Ninh Province and Shiga Prefecture

【 Organization Chart 】



【 Project Activities 】

- Surveys in Vietnam: 4 times (July, September, November, and February)
- Meetings with local companies: Approx. 20 times (including online)
- Seminars and company matching: Held in February

【 Outcome 】

- Support for system development
 - ✓ Works done by Shiga Prefecture were shared at a seminar in February.
- Solar power generation
 - ✓ Undergoing discussion with one local company to develop a JCM project.
- Turbo refrigerator, boilers, chillers utilizing waste heat
 - ✓ Providing information and matching opportunities to local companies in February.
- *Jokaso*
 - ✓ Made a proposal to the Grant Assistance for Grass-Roots Human Security Projects to obtain introductory funds for *jokaso* adoption.
 - ✓ Currently preparing proposal for the Grant Aid (The Economic and Social Development Programme) to expand adoption.
- Sludge gasification power generation, burial of sludge by carbonizing
 - ✓ Organizing the needs and issues for adoption.
 - ✓ Technical proposal to the department in charge.

【 Photo 】



Meeting with Quang Ninh Province



Visit to *jokaso* test operation site (local press photo)