CTI Engineering Group Overview

First
Established in 1945, CTI was the first engineering consultancy established in Japan.

Over 800 projects
CTI Engineering Group has delivered over 800 international projects in over 100 countries.

Over 3,440 employees
CTI Engineering Group employs over 3,440 people in 13 Group companies.

Top
CTI Engineering Group has sales of $571.6m (2019) and has the top share of sales to the government among consulting engineering companies in Japan.
Message from our president

CTI Engineering Co., Ltd. was the first engineering consultancy established in Japan. The company’s origin dates back to 1945 when the Civil Engineering Research Institute was founded. Since then, we have consistently grown to offer world-class expertise encompassing the latest technological scientific advances.

Japan and the world are facing a huge wave of technological innovation which is evolving at a rapid pace. As a leading multidisciplinary engineering consultancy, we embrace our role in pre-empting and responding to complex challenges shaping the communities of tomorrow, ensuring these thrive sustainably. We recognize the importance of building national resilience and we are leading the implementation of countermeasures by assessing key trends in technical innovation, society, climate change and resources, and developing useful technologies using the latest ICT.

The CTI Engineering Group will, as a leading company in the industry, continue to actively grow on a global scale and make a significant contribution to society based on our philosophy of "Enriching life through engineering".

President & Chief Executive Officer
Tetsumi Nakamura
Areas of Services

CTI has expertise in many areas with its highly qualified engineering staff and experience in most forms of infrastructure projects ranging from urban development to safeguarding the environment. We plan, design, supervise construction and maintain projects. CTI contributes to industrial development so people can live in safety and comfort.
In order to realize our business philosophy of “contributing to a progressive, safe, pleasant and prosperous living environment through our globally-recognized professional expertise and technical capabilities”, we have created the CTI Engineering Group Code of Corporate Conduct. Under sound corporate management, the Code shows all officers and employees how to take concrete and effective actions with a thoughtful mind.

**Code of Corporate Conduct**

**Sustainability** - Contributing to the creation of a sustainability-focused society

**People First** - Corporate activities with a culture of putting people first

**Social Commitment** - Commit to solving social problems

**Trust** - Building trust with our stakeholders

**Integrity and Fairness** - Acting with integrity, fairness and responsibility

**Risk Management** - Ensuring risk management at the highest standards
A Solid and Sustained Performance

- Number of Employees: 1,670 (parent company) and 3,449 (CTI Engineering Group)
- Annual Sales Amount in 2019 (consolidated): 571.6 million USD (62.6 billion JPY)
- Annual Net Income in 2019 (consolidated): 25.6 million USD (2.81 billion JPY)

$1\text{USD} = 109.6\text{JPY}$
Orders by Sector

Water & Land Sector, 25%
Transport & Urban Sector, 24%
Environmental & Social Sector, 16%
Construction Management Sector, 3%
International market: 31%
Japanese market: 69%

1 USD = 109.6 JPY

Our Clients
- Government agencies
- Japan International Cooperation Agency
- Japan Bank for International Cooperation
- Private developers
- The World Bank
- The Asian Development Bank
- Construction companies
- Private companies
CTI Engineering Group Project Overview
As a comprehensive engineering consultancy with great strengths in relation to rivers and coasts, we offer technical expertise in preparing proposals for river and coast management including the preparation of disaster prevention countermeasures against flood/tsunami/storm surge and countermeasures to properly conserve water environments.

Pasig Marikina River improvement project, Philippines

Flood protection and drainage improvement, Cambodia

Flood protection and drainage improvement, Cambodia

Flood mitigation in Ormoc city, Philippines

Flood Risk Management for Cagayan River, Tagoloan River and Imus River, Philippines
We provide a range of professional services, from land erosion through to contaminated land assessment and remediation.

We advise our clients on how to prevent landslide disasters, including studies on prevention and restoration measures, and planning/experiment/design of land erosion disaster prevention works.

We provide expert land quality consultancy services at all stages of the development lifecycle. Our team of specialists employs the latest risk assessment techniques and advise on remediation technologies to deliver cost effective and pragmatic solutions to reduce environmental liability and maximise value.
We offer comprehensive services in all aspects of dam management including the planning and design of new dams, formulation of effective plans for utilizing existing dams, and preparation of countermeasures to mitigate the environmental impacts caused by dam construction.
Water Supply and Sewerage Management

CTI Engineering Group

We aim to reduce the cost of water supply and sewerage management by providing professional services that encompass the design of pipes, drains and related facilities, evaluation of the seismic capacity of related structures, design of aseismic reinforcement works, detection of structural degradation, and formulation of a plan to extend the life of structures.

- Ground water development, Malawi
- Water supply facilities construction, Benin
- Sewerage treatment plant construction, Philippines
- Drainage and sewerage improvement project in Phnom Penh, Cambodia
- Integrated water management, Bulgaria
- Herlen river basin water supply project, Mongolia
- Scottish and Southern Energy (SSE) flood resilience framework, Scotland
- Capacity Development for Non-Revenue Water Reduction in Jaipur, India
We contribute to the development of port and marine infrastructure, and we design to potential natural disasters such as earthquakes and tsunamis. Experts in both new construction and regeneration projects, we have delivered new deep water berths, marinas, quay walls, ro-ro facilities, bulk handling facilities, and oil terminals. We are particularly proud of our involvement in dockland development, in which we have worked on the regeneration of several dock areas. We have also worked on contracts relating to coastal protection, sea defences, and Shoreline Management plans.

Simulation of excavation of embankment by Tsunami, Japan

Liverpool Ferry Terminal, UK

Coastal levee constructed by CSG (Cemented Sand and Gravel), Japan

Bristol Port, UK

Dun Laoghaire Harbour, UK

Aberdeen Harbour, UK
Agriculture, Forestry and Fisheries

We assist the development of various measures and plans for agricultural water utilization facilities (irrigation and drainage facilities) and fishing facilities, including formulation of disaster prevention measures, implementation of environmental assessments, and preparation of O&M plans.

Rehabilitation of farmland by soil improvement, Japan

Design of an improved breakwater structure at a fishing port, Japan

Rehabilitation and improvement of irrigation area, Indonesia

Oaklands College and residential development, UK

14ha brownfield site - assessment of the quality of agricultural land
We provide professional services that cover all elements of the evaluation, planning and design of road and highway infrastructure projects based on the current social needs and road traffic conditions. We are committed to delivering safe and reliable roads, implementing O&M activities to make them fit for generations to come.

Rehabilitation of roads and infrastructure, Burundi

A133 Ipswich Road, UK

Road improvement on Cambodia-Laos-Vietnam development triangle

Noi Bai International Airport connecting road construction project, Vietnam

Reconstruction of Nippon Causeway, Republic of Kiribati

Bedford Western Bypass, UK

Scotland Performance Audit Group Framework – 3,400km of roads, 6,000 structures incl. 1,911 bridges and footbridges, UK
We provide the full range of traffic engineering and transport planning services. Our expertise helps ease the path through planning procedures, enabling developers to unlock problem sites and realise returns from their investments. Our expertise in multi-modal studies and major transport infrastructure schemes enables us to provide integrated solutions to major developments. We define safe and reliable traffic and transportation management plans that include the development of information technology solutions for managing road traffic and a relief supply distribution system at the time of a disaster.

- **Study on urban transport infrastructure, South Sudan**
- **Study on high standard highway network development, Philippines**
- **Preparatory Survey for Nagdhunga Tunnel, Nepal**
- **A2 / A251 / B2041 Faversham Further Option Modelling, UK**
- **Tile Hill Park & Ride Expansion, UK**
- **Infrastructure for active traffic management, M62 and M60 Smart Motorways, UK**
- **Congestion management for A322 Road, UK**
We prepare proposals on the optimal bridge type based on convenience for users, safety against natural disasters such as earthquake and typhoon, harmony with nature and the landscape, and cost reduction. We carry out bridge inspections and assessments preparing plans including O&M activities to extend the life of a bridge. Our structural and civil engineers provide planning and design of road-, rail- and foot bridges, aqueduct and tunnel constructions, including work over and adjacent to railways, highways, rivers and canals.
Environmental Impact Assessment

We are a market-leader in EIA and environmental planning. We offer a bespoke, commercially-minded approach to projects, advising at all stages from feasibility and planning through to design and implementation. Our focus is on early engagement with relevant stakeholders and providing proportionate, yet robust assessments to facilitate timely decisions on schemes that are cost-effective and deliverable.
We possess the vast expertise required for urban management in order to assist the development of safe and pleasant communities.

**Urban Management**

- Improvement of sightseeing district, Japan
- Development of park and related facilities, Japan
- District arrangement around industrial area, Japan
Our Structural engineers provide a wide range of services delivering professional input whether it be pre-acquisition due diligence, new build or refurbishment. Our technical expertise includes superstructure design, architectural engineer, tall buildings, structural surveys, modular systems design, foundation engineering, heritage & historic building design and assessments, site supervision and more. We work across wide range of market sectors including commercial, education, healthcare, retail, residential, industrial, power/energy, urban regeneration.
Our Building Services engineers provide innovative and creative mechanical, electrical and public health engineering services design and have helped deliver some of the most iconic buildings in the UK, Australia and Ireland. We believe in a holistic approach to design working closely with Architects to implement truly sustainable and low energy strategies that future proof our buildings. Our expertise includes power infrastructure, lighting, ventilation, SMART technology, vertical transport, air-conditioning as well as full design capability in BIM and thermal modelling.
Our engineers and scientists are proud to have played an important part in shaping our towns and cities including unlocking some of the most complex and large-scale developments in the UK and Ireland. With a holistic approach and expertise from a variety of market sectors, we cover challenging refurbishments schemes through to major new-build urban regeneration developments. The multidiscipline approach taken by our team – covering all elements of building services, structural, civil and environmental design – ensures that we can efficiently meet all project engineering demands from the pre-planning stages through detailed design, construction and operation.
We offer extensive experience and knowledge on the PFI and PPP businesses to propose the development of public facilities in order to provide higher level, economically competitive public services.
We expand our technical expertise to provide professional services for railway projects, including planning of the three-dimensional design of railway systems in regional cities and preparation of railroad crossing improvement works which are promoted by the Ministry of Land, Infrastructure and Transport.
Through planning and design of telecommunication facilities, we achieve the high-level utilization of disaster prevention infrastructures and social infrastructures. In addition, we continue to formulate countermeasures against large-scale disasters by considering structural and non-structural measures such as conducting risk analysis and preparing a wide-area disaster prevention action plan. Our engineers within Waterman specialize in delivering critical systems to reduce risks and maximise the asset value of any property with critical IT and power applications. These facilities include data centres, disaster recovery facilities, back-up facilities, air traffic control centres, operating theatres and 24/7 365-production operations that require business critical, life safety critical or environmentally critical management.
In order to promote infrastructure development and urban regeneration, with minimal impact on the natural environment and living environment, we propose solutions to a wide range of environmental issues by utilizing advanced technologies, and in house technical expertise.
We provide professional consultation services and support to commercialize the utilization of various renewable energies, and support for the recovery from a disaster as well as the revitalization of communities. Our experts have also delivered cutting-edge waste recovery facilities where domestic and commercial waste is converted back into power.
We provide technical suggestions on appropriate geological conditions necessary for the construction of civil engineering structures and propose approaches to reduce geological risks at each stage of civil engineering projects that cover planning, design, construction and O&M activities. Our expertise also covers geotechnical site investigation for developments, enabling construction of new roads, bridges and buildings.
We provide comprehensive professional technical services based on our experience in waste and soil contamination management, including investigation/analysis of existing conditions, study on countermeasures, and conducting post-event environmental impact monitoring. Our experts support planning applications through operational waste management strategies and site waste management plans, aligned with local policies to improve environmental performance, meeting regulatory controls and reducing the rising costs of disposing of construction, demolition and excavation waste.
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