



We are Stantec

This is our story





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關於 STANTEC

We design with community in mind



- 22,000 全球專業人員
Employees*
- 400 辦公室
Offices
- 6 大洲
Continents
- 250+ 台灣員工
Taiwan Employees

Stantec 以社區為根本。全球各地任何角落都以社區為基礎，具有地域與歸屬感。這也是 Stantec 長久以來以社區為設計與服務的核心價值。

我們關心所服務的社區-- 因為，我們同時也是這些社區的一員。因為關心，讓我們更能適切的評估在地需求，連結專業、洞察趨勢，匯集多元觀點，連結合作共創美好。

我們是設計師、工程師、科學家和專案經理人，在社區(community)、創意(creativity)與客戶關係(client relationships)中，共同激發想像與創新，透過這些元素優化專案，臻善全球社區的生活品質。

Stantec 集團 (Stantec Inc.) 成立於 1954 年，名列全球前十大綜合性工程顧問公司，總部位於加拿大艾德蒙(Edmonton, Alberta, Canada)。服務領域涵蓋都市規劃、建築、環境、水利、能源、基礎建設、運輸、智慧城市與社區發展等，從專案概念、規劃、設計、施工到管理提供綜合性解決方案。透過遍及 6 大洲 400 多個服務據點，超過 22,000 名專業建築師、工程師、顧問、科學家等，藉由全球技術領先的專業優勢提供客戶不斷創新的高品質服務。

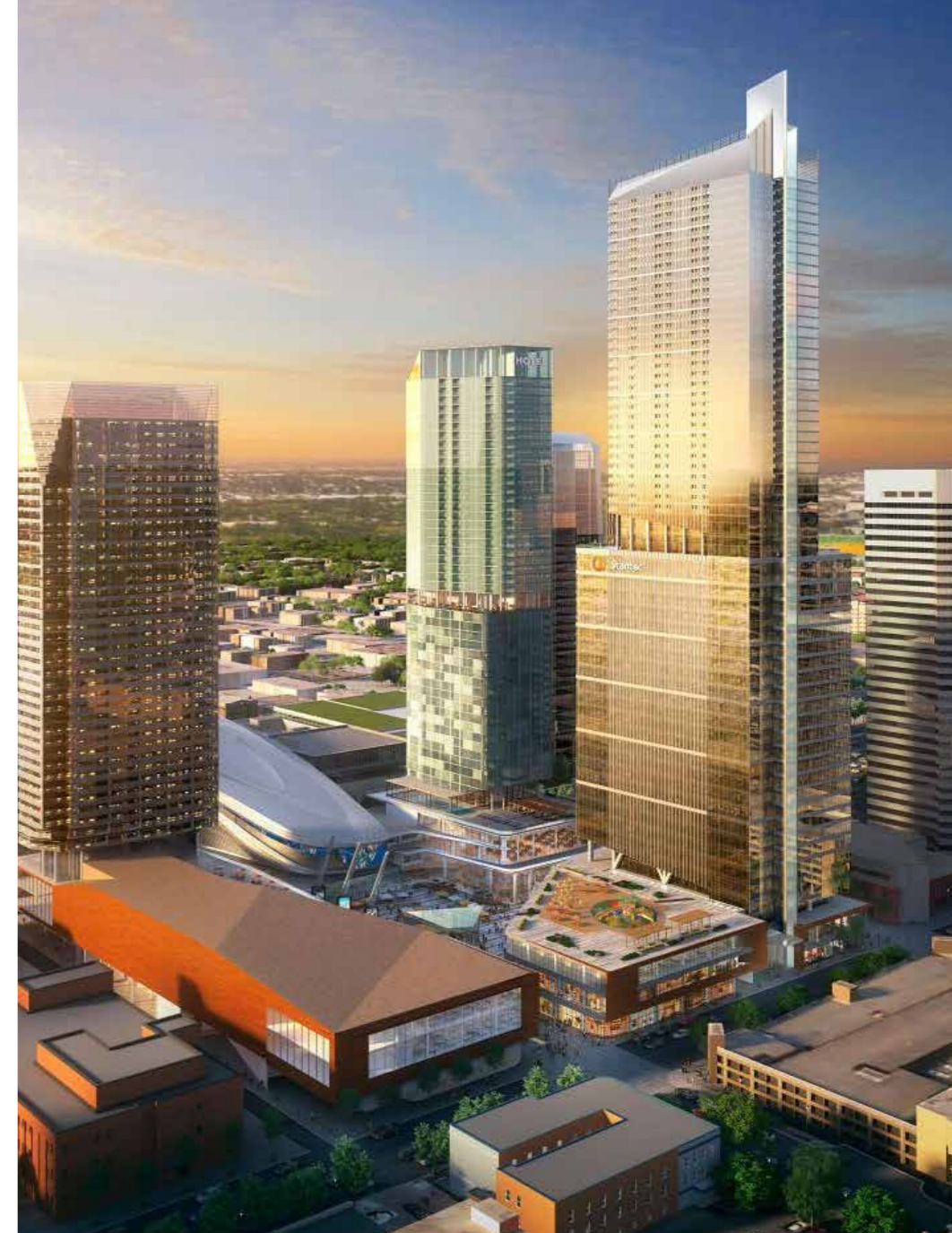
我們的客戶類型、業務和地理分佈多樣化，從在地到全球規模，提供跨基礎設施和完整的專案生命週期服務。並根據顧客需求和市場變化不斷重整業務與細分化市場，提供顧客最好的服務。

- 我們的目標 | 創建社區
- 我們的承諾 | 以社區為設計核心
- 我們的價值 | 行事剛正 | 共創美好 | 追求卓越 | 以人為本

Communities are fundamental. Whether around the corner or across the globe. They provide a foundation. A sense of place and of belonging. That's why at Stantec, we always design with community in mind. We care about the communities we serve—because we consider them our own. This allows us to assess what's needed, connect our expertise to appreciate nuances, envision what's never been considered to bring together diverse perspectives so we can collaborate towards shared success. We're designers, engineers, scientists, and project managers, innovating together at the intersection of community, creativity, and client relationships. Balancing these priorities results in projects that advance the quality of life in communities across the globe.

Stantec, founded in 1954, is listed as one of the top 10 global architecture and engineering firms. The headquarter is in Edmonton, Alberta, Canada. The service areas include city planning, architecture, environment, water resource, energy, basic infrastructure, transportation, smart city, community development, and more. We provide comprehensive solutions including project ideation, planning, design, construction, and overall project management from over 400 service locations across six continents by more than 22,000 professional architects, engineers, consultants, scientists, and more. Stantec ensures high quality service to all its clients by incorporating world-leading technologies.

Our clients' types, businesses, and geographic distribution are diverse. We provide cross-infrastructure facilities and a complete project life cycle service on local and global scales. Moreover, we continue to reorganize the business and segment the market according to customer needs and market changes, to deliver our best services.



OUR PURPOSE Creating communities
 OUR PROMISE Design with community in mind
 OUR VALUES
 We do : We are : We are : We put
 what is : better : driven to : people
 right : together : achieve : first



市場分布
Our Markets

- 52% 美國 United States
- 30% 加拿大 Canada
- 18% 全球 Global

服務領域
Our Services

- 29% 基礎設施 Infrastructure
- 22% 建築 Buildings
- 20% 水 Water
- 15% 環境服務 Environmental Services
- 14% 能源 Energy & Resources

關於 STANTEC 台灣

每一個環節 都為致力創造更美好的 環境與生活品質

Stantec 在台灣深耕30年，草創1991年，先後設立美商傑明工程顧問(股)台灣分公司及美華環境科技股份有限公司。專精涉水基礎建設，積極投入都市及工業水與污(廢)水處理、水域環境保護與生態復育、土壤與地下水污染整治等。自2017年起並積極投入拓展建築、能源、智慧資訊等領域。

從機場、商場、學校、醫院到廠房建築工程；從能源、環境、水利、交通到社區發展等基礎設施；從中央到地方，從國營公共事業到私人企業，我們皆以完美品質為最高標竿，提供一站式綜合性工程管理解決方案。我們的服務包含整合可行性研究、調查評估、模廠試驗、規劃、設計、監造、營運和風險管理、資訊科技等專業技術服務。營業範圍擴及台灣、中國及整個亞太地區。

透過在地化知識與全球經驗整合，並維持事業永續發展，我們持續創新以成就客戶的成功，與合作夥伴共融成長、共創價值。

我們的核心服務包含

- 水資源管理
- 水與污廢水處理
- 上下水道及管網
- 流域環境治理規劃與分析
- 現地處理及水環境營造
- 土壤及地下水環境品質調查評估與污染改善整治
- 場址環境評估
- 低碳與綠能
- 建築與營建管理
- 智慧科技與資訊系統

我們的服務環繞著空氣、陽光、水、土壤和人

Our services revolve around air, sun, water, earth, and people

They are dedicated to create a better and wonderful environment, ensuring quality of life

Stantec has cultivated in Taiwan for over 30 years. It was founded in 1991 as Stantec Consulting Services Inc., Taiwan Branch, and Stantec Environmental Technologies Taiwan Ltd. respectively. We specialize in water-related infrastructures such as city and industrial wastewater management, water environmental protection, ecological restoration, soil and underground water pollution treatment, and more. In 2017, the company broadened its horizons to architecture, energy, and smart information services.

From airports, shopping malls, schools, hospitals to factory architecture constructions; infrastructures from energy, environment, water resource, transportation to community development; from metropolitan to local areas, from government-owned public enterprises to private ventures, we are known for our high standard services and professional engineering management consultations. We also provide One-stop Solution Services including vertical integration feasibility research, survey evaluation, pilot plant examination, planning, design, construction supervision, operating and risk management, and information technology. The operation range of our services covers Taiwan, China, and the entire Asia Pacific region.

With localized knowledge along with global experience, we contribute to the clients' successes by delivering continuous ground-breaking and sustainable solutions.

Our Core Services

- Water Resources
- Water & Wastewater Treatment
- Pipeline Network
- Watershed Management
- Onsite Treatment & Aquatic Environmental Restoration
- Soil & Groundwater Investigation and Remediation
- Environmental Site Assessment
- Green Energy
- Architecture & Building Services
- Smart Technology



卓越成就

We are driven to achieve

全球公司在地化、國際團隊跨協合作和源源不絕的創新與設計，促使我們成功為全球的環境、建築和社區奠定永續基礎，打造多項設計與工程卓越品質經典。

獲國際知名ENR 工程期刊、建築評鑑機構BD+C 認可：

- #1 全球100 強建築/ 工程設計公司
- #1 國際廢污水系統設計公司
- #2 國際水務設計公司
- #2 綠建築設計公司
- #3 全球100 強設計公司
- #6 BIM 建築工程公司
- #8 全球500 強工程設計公司
- #9 全球100 強海外工程設計公司

(評鑑年份為2018-2020 年)

台灣獲獎紀錄：

2019 全國水環境大賞—有氧淨化獎 四方林排水水質淨化工程	金賞
2019 全球卓越建設獎—環境類 綠川排水景觀工程	首獎
Good Design Award 2018 綠川排水景觀工程	Best 100
2018 國家卓越建設獎- 環境文化類 綠川排水景觀工程	卓越獎
2018 國家卓越建設獎- 環境文化類 朝陽水語教育園區	金質獎
第十九屆公共工程金質獎—水利工程類 黎明溝水環境改善計畫	佳作
第十八屆公共工程金質獎—設施工程類 南崁溪大橋溪橋水質淨化工程	優等
第十八屆公共工程金質獎—設施工程類 綠川排水景觀工程	佳作
第十四屆公共工程金質獎—設施類 迪化污水處理廠污泥減量統包工程	佳作
第十三屆公共工程金質獎—設施類 老街溪新勢公園礫間接觸曝氣氧化與截流工程	佳作
第十一屆民間參與公共建設金擘獎—顧問機構團隊獎 羅東地區污水下水道系統興建營運移轉計畫	優等

A global corporation with local and the international teams collaborating across borders with non-stop innovations and excellent designs have prompted us to successfully establishing a sustainable foundation for the environment, architectures, and communities.

ENR and BD+C RECOGNITIONS:

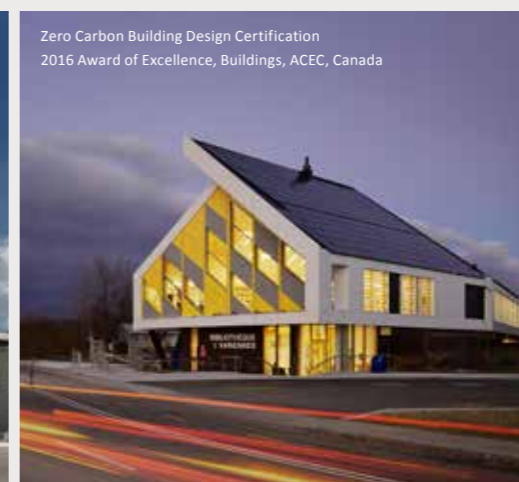
- #1 Top 110 Architecture/Engineering Firms
Top 10 International Design Firms-Sewer/Waste
- #2 Top 10 International Design Firms-Water
Top 160 Green Building Architecture
- #3 Top 100 Pure Designers
- #6 Top 200 BIM Architecture+AE Firms
- #8 Top 500 Design Firms
- #9 Top 150 Global Design Firms

GLOBAL Highlights
全球代表實績

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1. 巴拿馬運河擴建工程
2. 奧斯汀第四水處理廠
3. 賽歐拖河綠道設計
4. 德賴登污水處理廠
5. 素里生物燃料處理設施
6. 瓦雷恩斯零碳圖書館
7. 紐約質子中心

1. Panama Canal Expansion Engineering
2. Austin Water Treatment Plant #4
3. Scioto Greenway
4. Dryden Wastewater Treatment Plant
5. Surrey Biofuel Processing Facility
6. Varennes Net-Zero Library
7. The New York Proton Center



台灣代表實績



1 桃園地區污水下水道系統BOT計畫

桃園

桃園地區污水下水道系統興建、營運、移轉(BOT)計畫是台灣目前規模最大的污水下水道系統建設，我們提供民間機構團隊污水收集與處理之設計、監造服務。主要工程包含污水處理設計容量達每天20萬噸的桃園北區水資源回收中心、總長285公里的污水管網、揚水站及截流站等周邊設施。目標為完成計畫範圍內25萬戶的用戶接管，提高桃園市全市的用戶接管數，最終改善河川水質與提升市民的生活品質。



2 鳳山溪污水處理廠放流水回收再利用

高雄

協助內政部營建署及高雄市政府水利局於BTO案廠商興建及營運期間執行必要查核與相關功能、品質及安全要求事項之履約管理、諮詢及建議分析。再生水設施完工後已可供再生水25,000 CMD，至108年底已達45,000 CMD，為國內污水處理廠大型放流水回收再利用首例，有效穩定高雄地區供水。

2018 銀級綠建築候選標章



3 降低無收益水量(NRW)計畫總顧問

基隆、台中、高雄

無收益水量(Non-revenue Water, NRW)為自來水管網中因漏損等因素而無法送至用戶之水量，也是各供水事業營運上之重要指標。我們延續多年累積的全球經驗，自105年起協助台灣自來水公司進行基隆、台中與高雄地區之降漏策略規劃並推動多項實質作業，預計至111年計畫完成時，共可減少供水損失達17.4萬噸以上。



4 綠川排水景觀工程

台中

我們協助台中市政府進行綠川水質改善、防洪安全及生態景觀營造。透過截流、旱溪引流和建置礫間處理設施，徹底改善水質，並導入低衝擊開發強化都市防洪。第一期工程完工後，每日處理水量可達24,000 CMD，解決河川污染問題並同時維持河川必要基流量，污染指數從原本的「嚴重污染」降低為「輕度污染」，水質大幅改善。綠川礫間工程上部更結合景觀廊廊，營造整體水岸活化意象，大幅提升居民生活品質。綠川工程已進入第二、三期整治，總長約3.3公里。

2019 全球卓越建設獎-環境類 # 2018 日本優良設計獎-百佳獎 # 第十八屆公共工程金質獎-設施工程類



5 高雄市多功能經貿園區及周邊場址土地永續發展評估

高雄

高雄多功能經貿園區早年為重工業區域，在運作過程中留下污染，以致該區尚有許多未完成改善的污染場址。我們協助高雄市政府環境保護局，透過場址分級管理制度進行場址監督加速改善、結合都市計畫推動方向與計畫區內場址特性進行土地價值分析，並藉由記錄土地變遷過程和計畫執行成果，行銷高雄土地活化再利用機制，同時提升國際形象及能見度。



6 連江縣自來水智慧管理推動

連江縣

我們協助連江縣自來水廠進行智慧化系統工程建置，透過整合分析區域內各水庫、淨水場、配水池及供水管網監測數據，提升連江縣自來水水源調配能力、強化淨水廠自動監控技術、健全水網供水科學化功能，從水源、水場到水網全面的智慧調控，促成連江縣轉型智慧水城市，達成穩定供水與良好水質之目標。



7 榮總屏東大武分院新建工程專案管理及監造

屏東

屏東為台灣高齡化縣市，長期有急重症需求與醫療資源不足等問題。我們協助高雄榮民總醫院興建屏東大武分院，於該案中擔任規劃諮詢、設計審查、BIM諮詢審查、施工及履約管理等角色，讓屏東大武分院如期、如質、如預算，圓滿完工。大武分院將成為屏東地區第一座醫學中心及緊急醫療災難應變中心，大幅增加屏東地區醫療資源。



8 安邦青年社會住宅專案管理及監造

新北市

我們於此案當中進行先期規劃、設計審查、施工監造及專案管理工作。為建設高品質與高標準的青年社會住宅，並考量長期管理需求與基地空間發展特性，該案外觀結合立體跳層的綠化設計，採銅級智慧建築、黃金級綠建築標準進行規劃並融入以人為本的通用設計。我們將此案規劃為一個結合社區服務互聯的住宅，提供年長與身心障礙者日間照顧、公共托育，並為創業青年設置创客空間等，打造為全齡安居的社宅。本青年社會住宅興建約630戶。



9 下水道雲端智慧管理系統

桃園

隨著桃園市推動下水道及水資源回收中心建設，下水道接管率大幅提升，管線資料的管理、下水道和水資中心的操作與維護益形重要。計畫團隊協助完備下水道資料庫、建置雨污水下水道各項業務管理功能模組、透過物聯網IoT架構將現場設備訊息即時回傳至管理單位、藉由APP工具提升營運效能與時效性，提供管理人員有關水資源回收中心現場即時性資訊並達到即時控管效益。該案榮獲智慧城市創新應用獎，並被發表於2018全球智慧城市報告書中。

2018 智慧城市創新應用獎



10 桃園市生質能中心BOT案前置作業暨促參履約管理

桃園

我們協助桃園市政府規劃生質能中心，於此計畫中進行了可行性評估、先期規劃、招商作業與促參履約管理。此生質能中心亦為全台首座三合一的處理中心，包含熱處理、厭氧消化和廢棄物掩埋場共三單元，達成城市垃圾自主處理並產生再生能源目標。完工後，預計成為台灣規模最大的生質能中心，提供桃園市發電量二億度(約六萬戶用電量)，協助減少政府財政支出，為台灣首次將循環經濟導入城市發展的指標。

■ 1. FACILITATING THE PUBLIC TO PARTICIPATE IN THE BOT PLAN OF TAOYUAN REGION'S UNDERGROUND SEWAGE SYSTEM The build, operate, and transfer plan of the Taoyuan Region's underground sewerage system is currently the largest underground sewerage system construction project in Taiwan. We designed a water resource treatment center with a daily capacity of 200,000 tons of wastewater treatment in the northern region of Taoyuan. The sewerage line networks, relift stations, intercepting stations, and related facilities are spread across to a total of 285 kilometers (177 miles). Provide improved quality of water to 250,000 households in Taoyuan and eventually improve the quality of rivers and streams and enhance the quality of life for the residents of the city. ■ 2. FACILITATING THE PUBLIC TO PARTICIPATE IN THE ENTRUSTMENT OF THE CONTRACT FULFILLMENT MANAGEMENT OF FENGSHAN RIVER WASTEWATER PLANT'S WATER RECYCLING PROJECT The team assisted the Construction and Planning Agency, Ministry of the Interior, and the Water Resource Bureau, Kaohsiung City Government to audit, manage contract fulfillment, consult, analyze, recommend relevant functions, qualities, and the safety requirements for this project. The water recycling facility could provide 25,000 cubic metres per day (CMD) of reclaimed water upon the facility's completion and later reached to 45,000 CMD by late 2019. It was the first case of recycling water released from a large wastewater treatment plant which effectively stabilized the water supply in the Kaohsiung region. ■ 3. LEAD CONSULTANT, PROJECT TO DECREASE NON-REVENUE WATER Non-Revenue Water (NRW) is the water that failed to be delivered to the households due to the leakage in the water pipeline network or other factors across Taiwan. This became a key performance indicator for water supply management. Stantec with its domestic and foreign technical expertise to decrease NRW has assisted Taiwan Water Corporation since 2016. We have carried out various practical operations while serving as the lead consultant of Keelung, Taichung, and Kaohsiung. The 2018 census showed a magnificent decrease of NRW by 38.45 percent, 28.13 percent, and 19.61 percent respectively. It is estimated that the loss of water supply will be lowered by at least 174,000 CMD, until project completion. ■ 4. TAICHUNG LYU-CHUAN RESTORATION PROJECT We assisted Taichung City Government to conduct the remediation of urban river, Lyu-Chuan, including water quality improvement, flood prevention capabilities enhancement and ecological landscape create. Through river interception, Han river drainage and GCOP on-site treatment, the water quality of Lyu-Chuan has improved. Further, Low Impact Development (LID) was adopted to reduce the volume of urban flooding. After the completion of the phase I, it treats around 24,000 CMD of water daily, making the water quality be improved from severe pollution to light pollution. In addition, the project significantly increased the river's overall landscape and provide a better quality of life for residents. Now, we are conducting the Phase II and III of the Lyu-Chuan Restoration. The total construction length is around 3.3 kilometers. ■ 5. EVALUATION PLAN FOR THE SUSTAINABLE LAND DEVELOPMENT OF THE KAOHSIUNG MULTIFUNCTIONAL COMMERCE AND TRADE PARK AND THE SURROUNDING SITES The Kaohsiung Multifunctional Commerce and Trade Park was a heavy industrial district in 1980s, which always contaminated its surroundings. Stantec assisted the Environmental Protection Bureau, Kaohsiung City Government to carry out the park's on-site supervision through a site classification management system, and analyzed the land's characteristics and values. The improved results were used to market Kaohsiung's land revitalization and enhanced its international image.

■ 6. LIENCHIANG COUNTY SMART WATER MANAGEMENT PROMOTION Stantec assisted the Lienchiang County water plant to carry out the installation of smart water management system. We raised its ability to manage and distribute water, strengthen the automatic monitoring technology of the water purification station through integration and analyzing the reservoirs, water purification stations, distribution reservoirs, and the water supply pipeline's network monitoring data within the region. The full smart management and control from the water source, water plants, and water networks facilitated Lienchiang County's transformation as a smart water city to achieve the goals of constant water supply and superior water quality. ■ 7. PINGTUNG DAWU CAMPUS-NEW BUILDING CONSTRUCTION PROJECT MANAGEMENT AND SUPERVISION Pingtung is an aging county in Taiwan with long term issues of critical medical needs with limited medical resources. Our team at Stantec assists the Kaohsiung Veterans General Hospital to build its Pingtung Dawu Campus. Our services include planning and consultancy, BIM consulting and auditing, project supervision, and contract management. Pingtung Dawu Campus will be the first medical and an emergency response center in the Pingtung enhancing the region's medical resources significantly. ■ 8. ANBANG SOCIAL HOUSING FOR THE YOUTH-PROJECT MANAGEMENT AND SUPERVISION Stantec aims to build 630 houses for Anbang Social Housing for Youth. The goal is to build affordable, healthy and comfortable housing in the Great Taipei area. We conduct planning, design, and construction building management for the clients. With the consideration of the long-term management requirements and the characteristics of the foundation's development, this project integrate green & smart building and universal design to maximize the use of the site and create a sustainable community. ■ 9. SMART SEWER MANAGEMENT SYSTEM FOR THE TAOYUAN CITY With the Taoyuan city promoting the underground sewerage and water resource recycling, the connection rate to the underground sewerage system increased largely. Thus, the pipeline's data management and operation and maintenance of the underground wastewater treatment plant, became very important. Stantec experts used technologies such as Internet of Things (IoT), Augmented Reality (AR), and Geographic Information System (GIS), combined with mapping and engineering information to build a cloud-based smart management system. It immediately increased the efficiency to manage the underground sewerage facilities. This project received an award for the Smart City Innovation Application and was also published in the Global Smart Solution Report 2018. ■ 10. TAOYUAN BIOMASS ENERGY PLANT BOT Stantec supported the Taoyuan City Government in its planning for a new biomass energy facility, and was responsible for its feasibility, preliminary planning and tender services. This is the first and to date largest 3-in-1 facility in Taiwan, featuring a thermal process, anaerobic digestion, and a landfill, to produce 200 million kWh of electricity (equivalent to ~60,000 households). This reduces the government's financial burdens, and signifies Taiwan's move towards circular economy.

WE **CONNECT** TO
PROJECTS ON
A PERSONAL
LEVEL AND
ADVANCE THE
QUALITY OF
LIFE ACROSS
THE GLOBE

對計畫品質的要求和 客戶服務的考量為優先

全球企業體系優勢、多元的文化與豐富的專案經驗，讓我們能為各項管理諮詢服務提供全面性國際級與在地化技術資源，隨時滿足客戶在專案計畫管理上的需求，獲得高效益的投資回報，包含：技術品管、成本效益評估、適法性評估、工程設計管理、營運維護、資產與風險管理、商務評估、即時分析與投資策略規劃等。我們始終以人為本，做好每個小細節，在計畫的各個層面觸及我們的影響力，為你我生活的品質帶來獨特的體驗。

WE PRIORITIZE PROJECT QUALITY AND CLIENT SERVICE

The advantage of being an international enterprise with diverse cultures and abundant project experiences, allows Stantec to provide the clients with comprehensive and innovative technical consultation services on all aspects of management. Obtaining high efficacy return on investment on project management at any given time. Our services also include: technical quality assurance, budget and return evaluation, legality assessment, engineering design and management, operation and maintenance, asset and risk management, business evaluation, real-time analysis and investment strategy planning etc. We are always community focused and take care of every little detail by creating impacts on each aspect of the project with a goal of enhancing the quality of life.

水資源管理

連結環境、社會、經濟與自然生態系統 為您達成水資源開發與利用最佳化

水維繫著人類的生命，在都市與經濟發展上亦是重要天然資源。水資源管理不能只看單一面向，需要全面性的考量方能達成水資源永續利用。

我們於全球進行許多大型水資源開發、利用與管理專案計畫，以「水」起家的專業背景，於各項涉水工程與環境保護擁有領先業界的技術與經驗。我們協助政府與民間企業進行水資源的評估、調查，並訂定開發、利用與營運管理計畫，包含：地表/地下水源聯合運用與各類水資源技術與再利用、整體/區域性供需端用水分析、先進工程或管理手段導入及效益評估。因應氣候變遷及不同社經條件，在考量環境與生態系統下，引進國際上成功模式與新穎技術，協助完成各項政策擬定與風險管理工具應用。

與時俱進強化水資源管理創新技術，導入物聯網科技等輔佐既有工程管理模式，提供多元水源智慧調控決策方案等，長期為客戶評估規劃、有效應用與環境永續作出貢獻。



服務項目

- 水資源運用調配策略規劃
- 水資源相關法令研析與探討
- 供需端用水規劃及調查
- 水理與水資源調配模式
- 簡易自來水系統管理
- 多元水源智慧調控方案
- 智慧水務

WATER RESOURCES

Making the most of
all your water resources

Water supports human life; it is also a critical natural resource for a city and its economic development. Water resource management cannot be viewed from a single aspect and requires a complete consideration to achieve sustainable usage.

Stantec has many development, utilization, and water management projects around the globe. Our professional background began with "water". We have industry-leading technologies and experiences on every water-related constructions and environment protections. We assist various government bodies and private ventures to conduct evaluation, investigation of the water resources, and create development, utilization, and operation management plans for them. Our services also include: treating surface/underground water resources, water recycling, demand and supply analysis of the regions, implementing advance engineering and management measures, and returns evaluation. In response to climate change and various social and economic conditions while considering the ecological systems, we have successfully introduced innovative techniques to assist with the drafting of policies and application of the risk management tools.

Strengthening water resource management, ground-breaking technology that can keep up with time, adopting smart management measures, and providing smart allocation of the water resource, are some but not the only solutions that Stantec offers to the clients ensuring long term sustainable solutions.

Services

- Water resources planning & management
- Reviews of water resources policies and regulations
- Supply and demand survey and forecast
- Hydraulic and water resources modeling
- Small system management
- Conjunctive uses of water resources
- Smart solutions

主要實績

- 未來台灣各地區產業發展所需水源供應之可靠性分析研究
- 高雄地區多元水源方案檢討與推動策略分析
- 東港溪流域整體水資源運用策略研擬
- 新加坡裕廊島工業區水資源綜合評估規劃
- 用水調查統計暨地下水可用水量調查分析試辦計畫
- 104-105 年台灣地區未接用自來水區域調查作業
- 簡易自來水管理機制之探討
- 107-109 簡易自來水智慧管理推動計畫
- 台中盆地地下水資源調查開發評估
- 多元水源智慧調控 - 水資源資料盤查及技術整合
- 連江縣自來水供水智慧化系統工程總顧問 (含監造) 專案服務
- 多元水源智慧調控 - 水資源物聯網感測技術創新研發計畫
- 荷苞嶼排水逕流分擔措施規劃設計
- 108 年度新北市智慧地下水管理推動計畫
- 金門水廠智慧水網與既有系統整合評估前期計畫

水與污廢水處理

從使用、再利用到排放的生命週期 優化水系統各個階段化污為淨

水與污廢水處理是我們全球集團發展近二世紀的核心技術之一。深耕台灣污廢水處理已逾30年，持續向大中華與東南亞地區拓展。

站在水與污廢水處理技術的最前線，我們整合工程、財務、法務提供一系列水與污廢水服務，對都市、社區或是工業製程，都能滿足最嚴格的排放標準，幫助降低成本和監管風險，同時保護自然資源。我們提供都市污水、工業廢水、自來水、水回收再利用、海水淡化、污泥減量及再利用等領域專業技術與管理支援。在此類工程中，即時引進全球最新科技與觀念，包含：採用Bio-Win生物處理模擬軟體、GPS-X廢水處理模擬軟體、BIM導入及三維設計工具、工程監造資訊管理系統等。

憑藉堅強的技術團隊，我們的污廢水處理技術與設計獲得多屆公共工程金質獎設施類肯定，全球水與污廢水工程更年年獲得知名〈工程期刊 (ENR)〉評比名列前茅。



超過 300 萬噸
污水處理廠實績

服務項目

- 模型試驗與可行性研究
- 先期計畫與整體規劃
- 概念設計、初步設計與細部設計
- 設計管理及工程管理
- 統包工程及履約之專案管理
- PPP 之業主端總顧問及投資方之工程技術顧問
- 即時監控 (SCADA) 系統規劃、設計

WATER & WASTEWATER TREATMENT

Through the life cycle of use, reuse, and discharge, our team works to optimize every facet of a water system

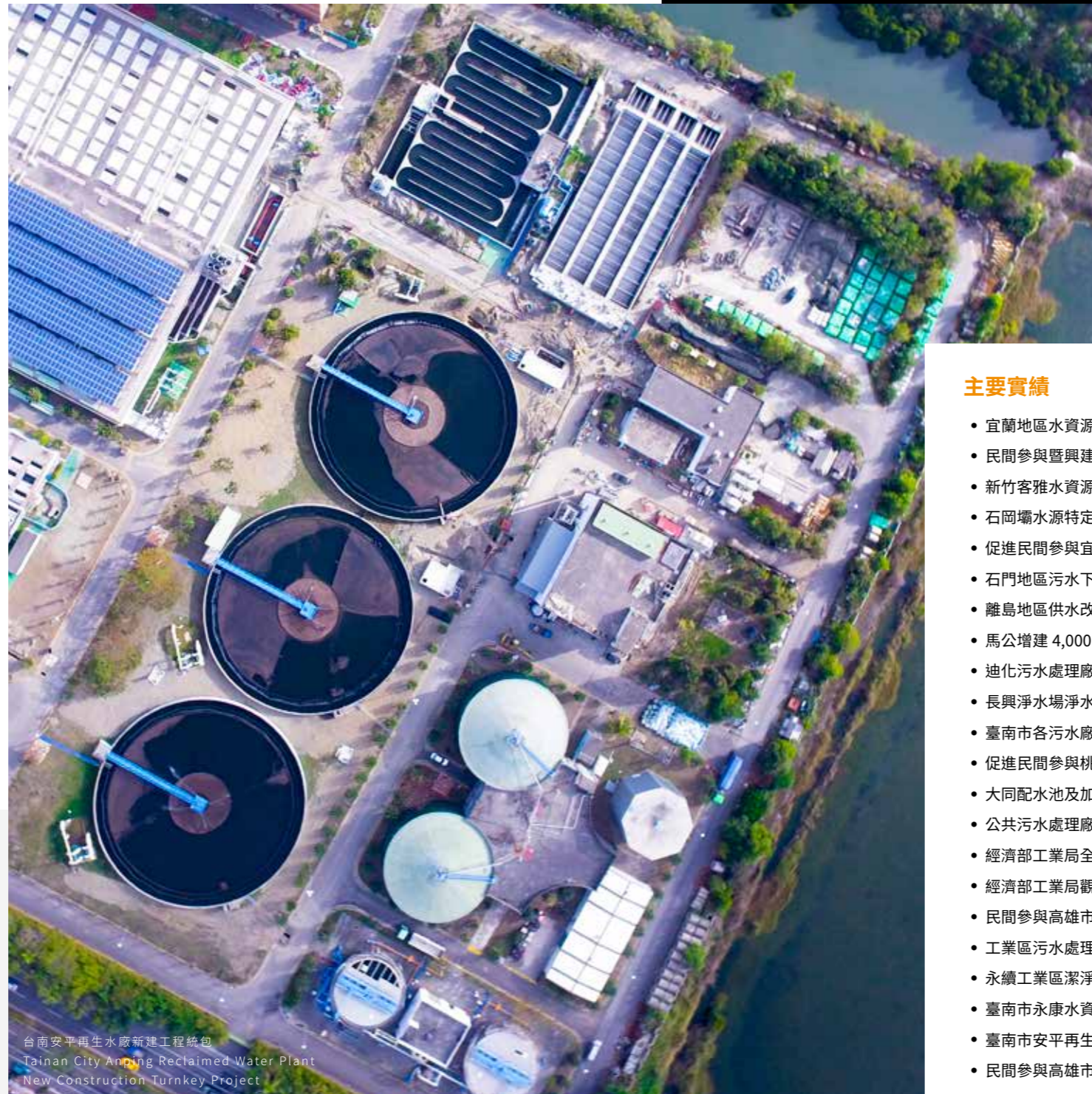
Water and wastewater treatment are one of our global group's core services which have been developed for almost two centuries. We are deeply rooted in Taiwan's wastewater treatment for over 30 years, and continue to expand in the South East Asia region.

In the front line of our water and wastewater treatment technology, we integrate engineering, finance, and legal services to satisfy the firm standards of a city and its community. We help lower the cost and the risk of supervision and management while protecting the natural resources at the same time. We provide professional, technical, and management support for the city's wastewater/water treatments, water recycling, seawater desalination, sludge reduction and more. For such projects we introduce the latest technology and concepts like Bio-Win biotreatment simulation software, BIM import, three-dimensional design tool, and supervision information management system.

Stantec's wastewater treatment technology and exceptional designs have received many recognitions from Taiwan Golden Quality Awards for Public Infrastructure. Our water and wastewater engineering techniques have also been documented in renowned engineering publication, Engineering News Record (ENR).

Services

- Piloting and feasibility study
- Preliminary and master planning
- Concept, basic, and detail design
- Design and construction management
- Project and program management
- Owner's engineer for PPP projects
- SCADA planning and design



台南安平再生水廠新建工程統包
Tainan City Anping Reclaimed Water Plant
New Construction Turnkey Project

主要實績

- 宜蘭地區水資源回收中心第一期設計
- 民間參與暨興建高雄市楠梓污水下水道系統計畫規劃設計監造
- 新竹客雅水資源回收中心新建工程規劃設計及監造
- 石岡壩水源特定區污水處理廠新建工程第(一期)招標及監造
- 促進民間參與宜蘭縣羅東污水下水道系統建設之興建、營運、移轉 (BOT) 履約監督專案管理
- 石門地區污水下水道系統第一期實施計畫新建工程設計及監造
- 離島地區供水改善計畫—增建馬公 4,000 噸海水淡化廠工程委辦先期作業
- 馬公增建 4,000 噸海水淡化廠專案履約管理
- 迪化污水處理廠委託營運管理服務 (第一~六期)
- 長興淨水場淨水設施改善工程委託設計及監造
- 臺南市各污水廠 (含截流站) 操作維護履約專案管理
- 促進民間參與桃園縣桃園地區污水下水道系統建設之興建、營運、移轉 (BOT)
- 大同配水池及加壓站第三座新建工程委託設計及監造
- 公共污水處理廠放流水回收再利用示範推動
- 經濟部工業局全興、芳苑、社頭織襪、新竹、仁大及大里下水道系統擴建營運轉移 (ROT)
- 經濟部工業局觀音工業區下水道系統及和平工業區冷卻水處理廠擴 (整) 建、營運及轉移規劃服務
- 民間參與高雄市鳳山水資源中心放流水回收再利用案履約管理 (第一、二期)
- 工業區污水處理廠技術諮詢與評鑑
- 永續工業區潔淨水環境計畫推動
- 臺南市永康水資源回收中心放流水回收再利用推動專案管理 (含監造)
- 臺南市安平再生水廠新建工程統包專案管理 (含監造) (第一期)
- 民間參與高雄市臨海污水處理廠暨放流水回收再利用計畫設計、試運轉
- 銅鑼科學園區污水處理廠第二期工程 - 導電度處理設施功能提昇統包工程設計、試運轉

上下水道及管網

讓水送到該去的地方

我們提供自來水管網和雨水/污水下水道系統之規劃、設計、監造、水理/水質模擬分析、無收益水(Non-revenue Water)控制、促參與統包履約管理等服務。服務對象包含中央機關、地方政府、PPP投資公司、水務集團、科學/工業園區與國營企業等，於台灣、中國大陸、香港、馬來西亞、越南等擁有豐富遍及全球的執行經驗。

我們的優勢在於：具備評估污水下水道系統中流量異常(Wet Weather Flow)之能力，能整合水網工程及資產，為客戶研擬完善的因應對策與改善方案。台灣業界最具經驗，進行中大型自來水管線風險評估與管理，長度已累積超過2,100公里；雨水下水道系統涵蓋台北、新竹、彰化及高雄，累積集水區面積超過13,000公頃。

此外，對回收水(Reclaimed Water)及灰水(Grey Water)管網系統之規劃、設計與工程等，亦口碑卓著。我們的團隊提供上下水管網各個面向技術服務與支持，協助客戶貼近組織營運目標，達成長期收益。



累積污水用戶接管
數達 618,000 戶



累積長度超過 9,000 公里
最大管徑達 2,000 mm



中大型自來水管線風險評估與管理，
長度累積超過 2,100 公里



雨水下水道系統之集水區面積
累積超過 13,000 公頃

服務項目

- 雨水及污水下水道規劃、設計與工程監造
- 雨水與污水下水道水理模擬與分析
- 自來水管網規劃、設計與工程監造
- 自來水管網小區 (DMA) 規劃、中大管徑管線狀況評估
- 自來水管網水力分析與模擬、無收益水 (NRW) 防治
- 再生水管線與截流工程規劃、設計
- 統包與促參 (BOT) 工程履約管理
- 管網系統現地調查、狀況評估、修繕、汰換及 GIS 建置

PIPELINE NETWORK

Getting your water where it needs to go

We provide services like planning, designing, construction management of the water networks and stormwater/wastewater underground systems, hydrological and hydraulic modeling, non-revenue water control, and facilitate turnkey contract fulfillment management. Our clientele include central authorities, local governments, Public-Private Partnership (PPP) investing firms, water affairs groups, science/manufacturing parks, and government-owned enterprises. Our projects spread over Taiwan, China, Hong Kong, Malaysia, Vietnam, and many countries globally.

Our advantages are: Possess the ability to assess the anomaly of a wastewater sewerage system's wet weather flow, integrate the water network constructions and assets, study and draft comprehensive response strategies, and provide complete solutions to our clients. We are the most experienced in Taiwan. The length accumulated for the current risk assessment and management of large-scale water pipelines is well over 2,100 kilometers. The stormwater sewer systems cover Taipei, Hsinchu, Changhua, and Kaohsiung regions with a total catchment area of over 13,000 hectares.

In addition, we also have an excellent reputation in the planning, designing, construction supervision of network systems for reclaimed and grey water. Our team provides technical services and supports in all aspects of sewerage and water networks to assist clients get closer to their goals and achieve long term benefits.

Services

- Stormwater and wastewater sewerage planning, designing, and construction supervision
- Stormwater and wastewater sewerage hydraulic modelling and analysis
- Water pipeline network planning, designing, and construction supervision
- District Metered Area (DMA) planning, and condition assessment for water transmission mains
- Water pipeline network hydraulic modelling and analysis, non-revenue water (NRW) management
- Reclaimed water pipeline and interceptor sewer planning and design
- Contract management for turn-key and Build-Operate-Transfer (BOT) project
- Site investigation, condition assessment, rehabilitation, replacement and GIS establishment for pipeline system



主要實績

- 桃園市污水下水道建設計畫總顧問
- 旗津區第二條過港送水管工程委託設計及監造服務
- 基隆、台中及高雄供水系統降低無收益水量 (NRW) 計畫總顧問
- 污水下水道系統不明水原因調查與對應策略服務
- 新竹市雨水下水道系統第二次重新檢討規劃
- 彰化縣彰化市 (第二次) 雨水下水道系統檢討規劃
- 口徑 800 公厘 (含) 以上管線安全評估
- 促進民間參與桃園縣桃園地區污水下水道系統建設之興建、營運、移轉 (BOT) 計畫
- 屏東及屏東地區分區計量管網建置規劃服務
- 新竹縣竹東鎮污水下水道系統第二期實施計畫 - 污水管線系統工程設計及監造
- 彰化市污水下水道系統水資源回收中心及主次幹管統包工程專案管理
- 馬來西亞沙巴洲亞庇市 (KK) 無收益水量降低計畫
- 高雄市第二十九期市地重劃區既設污水管線修繕評估規劃、設計及監造
- 宜蘭縣羅東地區污水下水道系統促參計畫 (BOT) 委託履約管理機構專業服務
- 中國廣東省廣州市獵德污水下水道系統建檢討及分析

流域環境治理規劃與分析

保護、復育、提升

流域被視為水資源管理最適宜的單位，因為河川、湖泊是自然與水之間重要的連結，流域管理綜合水土資源、生態環境、自然景觀、河川沿岸土地發展等，維護水流正常功能，確保資源與經濟永續發展。

在台灣，我們的服務對象主要為各級中央與地方環保單位，深入各項流域與環境水體污染防治工作達30年，已然成為受信賴的夥伴。我們團隊陣容堅強，並熟悉中央法規、了解政策需求，接軌海外技術發展，能針對全台灣河川、溪流、水庫、海洋等水體提供整體性環境政策研擬、污染調查、污染量推估、水質模擬與預測、整治策略評估與規劃、環境監測、水污染緊急應變、決策支援系統開發與建置等服務，長期透過技術創新與引進，貢獻於水污染防治工作。

促進流域夥伴關係—水污染防治與生態保育皆需要民眾共同參與，我們積極投入相關環境教育宣導活動。從中央、地方縣市環保單位，到公民營機關與開發單位，提供全方位的技術諮詢工作。



重點河川污染整治策略評析及執行計畫
Improvement Strategies in Primary Rivers for Taiwan EPA

服務項目

- 點源與非點源污染調查、推估及整治規劃
- 污染防治對策規劃與政策研擬
- 水質改善工程技術評估與規劃
- 河川、水庫及湖泊水質模擬
- 底泥污染傳輸模式
- 決策支援系統規劃與建置
- 環境品質與水質監測
- 環境影響檢討與差異分析

WATERSHED MANAGEMENT

Protect, Restore and Enhance

River basins are considered as the most appropriate unit for water resource management. River basin management incorporates water and earth resources, ecological environment, natural landscape, and the land development along the river's shore to protect the water flow and ensure the sustainability of the resources and economic development.

In Taiwan, our clientele are mainly the environmental protection agencies from central and local governments. Stantec is chosen as a trusted partner as we have performed pollution control tasks for the last three decades. Our teams are well familiar with the central government laws, policy requirements, bridging to the technical development oversea. We are capable of servicing groundwater resources such as rivers, streams, reservoirs, and oceans to research and draft comprehensive environmental policies, investigating and estimating the quantity of pollution, water quality simulation and estimate, assessing and planning remediation strategy, environment surveillance, emergency response to water pollution, and development and installation of decision making support system.

Facilitating partnership along the river basins:

Water pollution control and environment protection requires public participation. We actively engage related promotional activities providing well-rounded technical consulting service to the central and local counties, city's environmental protection agencies, government and private-owned organizations, and development institutions.

Services

- Point and non-point source pollution investigation and planning
- Pollution mitigation strategies
- Engineering solutions for water quality improvement
- Water quality modeling of rivers and reservoirs
- Contaminant and sediment transport
- Decision support systems
- Environmental and water quality monitoring
- Review of environmental impacts and factors

主要實績

- 指定河川水質總量管制評析及支援管理專案 (2013~2018 年)
- 105-109 年度前瞻水環境改善綜合管理 (北區)
- 淡水河系河川曝氣、底泥清除及下水道聯接使用計畫對河川水質改善程度評估
- 重點河川污染整治執行成效評估及綠色國民所得帳估算專案
- 各縣市執行水質維護改善綜合管理 (2005~2007 年)
- 淡水河流域污染整治管理
- 北部地區河川污染整治推動、輔導及評析 (2009 年)
- 全國水體環境水質改善及經營管理
- 北部地區河川污染整治與水質改善策略規劃及執行 (2009~2010 年)
- 底泥污染來源及傳輸模式調查計畫 - 以重點河川為例
- 離島地區 (澎湖、金門及連江) 污染源調查及管理
- 臺北縣水污染整治整合 (2009~2012 年)
- 台東縣河川污染稽查及流域巡守隊成立暨教育訓練
- 卑南溪河川揚塵防制及改善推動計畫技術服務 (2013~2018 年)
- 桃園市重點河川污染總量管制實施管理計畫 (2015~2018 年)
- 核能四廠發電工程施工期間環境監測工作 (1995~2020 年)
- 北宜高速公路坪林行控中心專用道開放外來旅客 (每日最多 4000 車次) 環境影響差異分析報告共同管理協調會報總顧問 (2016~2018 年)
- 南星計畫中程計畫環境品質監測 (第二~五期)
- 台鐵捷運化 - 高雄市區鐵路地下化計畫環境監測
- 水質監測整合計畫
- 環境品質自動監測評估及站網規劃
- 淡水河流域大漢溪、新店溪非點源污染分析調查及整治規劃 - 板新水源區、翡翠水庫水源區氮磷污染分析、調查及整治規劃
- 鼓勵民眾參與二仁溪河川保育工作

現地處理及水環境營造

我們的水質淨化
不只解決現在的問題
更考量未來的需求

改善污染問題，要從源頭開始。現地處理乃利用現地環境特性進行水質改善，避免污染擴散，並將淨化後的水資源還給環境。

我們技術團隊為客戶兼顧成本效益並專注高效與可靠的設計，因地制宜採用最合適技術，將現地處理加以應用。利用高灘地、非都市地區、水域水體等處，規劃、設計現地處理設施，解決點源/非點源污染，改善河川、湖泊和水庫水質。團隊亦率先自日本引進「礫間接觸氧化法(Gravel Contact Oxidation Process, GCOP)」，進一步研發改良，將技術在地化與推廣，以自然生態工法淨化水質。包含目前亞洲最大新勢公園礫間，我們已在全台完成多座指標礫間設施，榮獲多項國際工程建設與台灣公共工程金質獎。

近年，更投入水環境營造，結合環境、景觀、生態復育、人文與經濟，全台多處進行整體河川整治與社區發展。讓水質淨化設施成為民眾可親近、互動的環境教育場所與親水休憩空間。



完成礫間工程逾 30 座
BOD 污染削減量
累積 >5,667 kg/day

現地總污水處理量
>200,000 CMD

氮氣污染削減量
>2,359kg/day

服務項目

- 污水自然淨化處理技術評估與規劃
- 礫間接觸曝氣氧化工程設計、監造及操作
- 人工濕地處理系統工程設計、監造及操作
- 植物緩衝帶及草溝系統工程規劃設計
- 最佳管理技術 (BMPs)
- 地下滲濾處理系統工程設計及監造
- 呈層複合式土壤處理 (MSL) 工程設計及監造
- 水域環境營造
- 景觀工程設計及監造

ONSITE TREATMENT & AQUATIC ENVIRONMENTAL RESTORATION

Our water treatment addresses current needs while keeping an eye on the future

To improve river water quality, one must begin with treating the source of pollution. The on-site treatment facilities are set up near the wastewater source to achieve better river water quality.

Our technical teams designs with cost effectiveness and reliability in mind. Adopting the most suitable on-site treatment techniques such as floodplains, non-urban areas, river basins, and water bodies according different conditions. This eliminates point source pollution and non-point source pollution to improve the water quality of the water resources. Stantec were the first to introduce Gravel Contact Oxidation Process (GCOP) from Japan and took a further step to even improve it. The localization and promotion of the technologies allow the water to be purified through a natural ecological method. Including Xinshi Park's gravel which is currently the biggest in Asia. We have completed many iconic gravel facilities in Taiwan and received many international engineering construction awards and Taiwan's Golden Quality Awards for Public infrastructure.

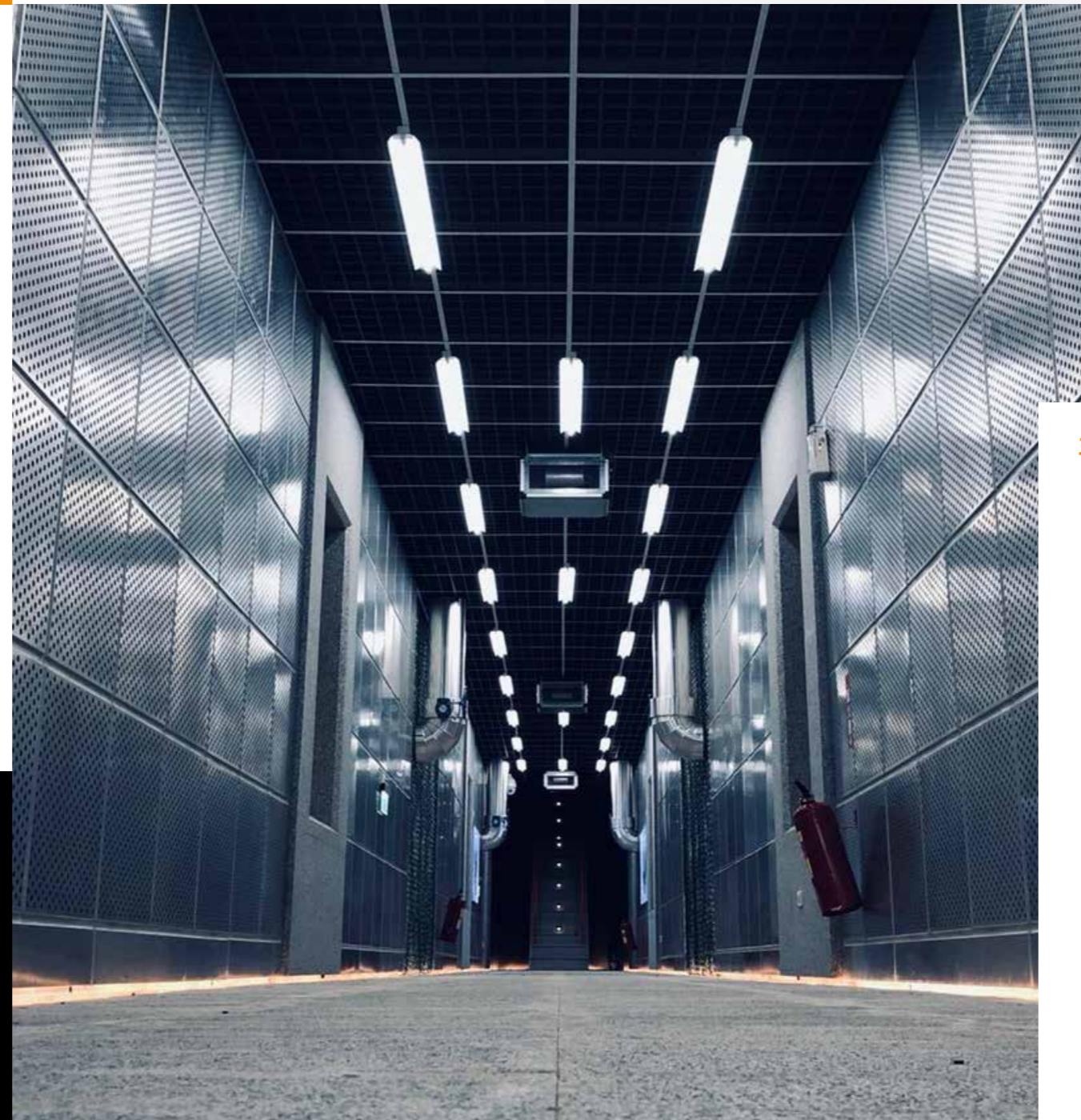
In recent years, we have devoted ourselves for the construction of the water infrastructure by combining the environment, landscape, ecological restoration, culture, and economy. We are conducting projects of overall river remediation and community development in multiple locations in Taiwan and making them community friendly.

Services

- Natural purification treatment technical assessment and planning
- Gravel Contact Oxidation Process engineering design, supervision, and operation
- Constructed wetlands
- Vegetative buffer strip and swales
- Best management practices (BMPs)
- Soil infiltration system
- Multi soil layering (MSL) system
- Aquatic environmental restoration
- Landscape design

主要實績

- 臺中市綠川水質及環境改善規劃設計
- 臺中市綠川排水環境營造 (雙十路至民權路段)
- 老街溪中上游水質改善用地調查及規劃設計
- 龍潭大池水質改善及水體環境營造規劃設計
- 南崁溪上游水質淨化工程規劃設計
- 大漢溪流域大溪排水水質淨化工程規劃及細部設計
- 沙鹿區南勢溪環境營造工程
- 臺中市南屯區黎明溝環境營造工程
- 南湖雨水抽水站晴天排水地下礫間接觸曝氣氧化試辦統包工程
- 成美雨水抽水站晴天排水水質淨化現地處理統包工程—規劃設計及監造
- 臺北縣大漢溪生態廊道現地處理水質淨化建置
- 忠孝、鄭州、貴陽、成都等排水新建接觸現地處理工程與康寧排水聯接南湖湖間接觸曝氣氧化設施進水設施
- 桃園縣都會型河川污染整治及河道生態環境改善之評估規劃及細部設計
- 桃園縣老街溪新勢公園礫間接觸曝氣氧化工程與截流工程監造
- 新店溪流域水質淨化現地處理工程
- 臺北縣污水下水道設施及現地處理工程委託設計及監造
- 「臺北縣臺北大學特定區污水下水道改善工程」委託設計及技術諮詢
- 北港溪北港排水水質淨化現地處理
- 永康排水水質淨化場細部設計



老街溪新勢公園礫間設施地下觀察廊道
GCOP underground Observer Corridor at Xinshi Park

土壤及地下水環境品質 調查評估與污染改善整治

我們是地表下環境的專家

土壤及地下水是珍貴的自然資源，因此如何維護並管理乾淨的地表下環境，以及適切掌握與有效改善污染，都是重要課題。

我們承攬政府機關與私人企業的污染調查與整治計畫，包括彙整工廠運作、水文地質及污染特性，建立場址概念模型；利用人工智慧技術建立風險評估與辨識模組；應用地球物理探測技術，掌握水文地質特性，以及地下結構設施與可能的污染分佈。此外，提供快速篩測技術、採樣規劃、質量通量評估、環境法醫鑑識、地下水模式、風險評估與風險溝通、污染監測與規劃、環境責任保險、化學物質管理、法規研析等技術服務。

針對土壤及地下水污染整治，我們提供規劃/設計/執行模廠試驗、土壤氣體抽除法(搭配微生物通氣/空氣注入法)、現地化學法、電動力/電化學法、多相抽除法、水力試驗、乳化植物油注入、地球化學檢測、菌相分析、地表掃描技術等服務，迄今已協助環保主管機關及許多知名石油化學公司與大型企業，完成最佳化並兼容法規的整治工作。



服務項目

- 地球物理探測規劃與數據分析
- 場址概念模型建立與污染傳輸模擬
- 油品與含氯碳氫污染物環境鑑識
- 鉛穩定同位素比例分析
- 現場篩測技術評估與應用
- 健康風險評估與風險管理
- 土壤及地下水污染環境責任保險
- 整治方案評估與先導試驗規劃設計
- 質量通量規劃執行與分析評估
- 土壤及地下水污染整治工程管理與改善監督驗證

SOIL & GROUNDWATER INVESTIGATION AND REMEDATION

We have got the subsurface
environment down to a science

Soils and groundwater are both precious natural resources. Thus, maintaining and managing the underground environment to eradicate pollution while effectively improving its water quality is vital.

Stantec takes contracts of pollution investigation and remediation projects, integrating factory operation, hydrological, geological, and pollution characteristics, building a conceptual model of the site; using artificial intelligence technology to build risk assessment and identification modules; applying geophysical prospecting technology to grasp on hydrological and geographical characteristics, as well as the underground structure facilities and any potential pollution distribution from the government agencies and private ventures. In addition, we also provide services such as quick screening technology, sampling planning, mass flux assessment, environmental forensic, groundwater pattern, risk assessment and risk communication, pollution monitoring and planning, environmental pollution liability insurance, chemical substance management, and policy study.

Focusing on soil and groundwater remediation, we provide services such as planning/designing/pilot test, soil vapor extraction (combine with bioventing / air sparging), in situ chemical, electrokinetic/electrochemistry, multi-phase extraction, pumping test, vegetable oil emulsion, geochemistry examination and measurement, bacterial flora analysis, and ground surface scanning. To this day, we have already assisted environmental protection authorities, many famous petrochemistry companies and large corporations in completing the optimized as well as policy complied remediation projects.

Services

- Geophysical survey and data analysis
- Conceptual site model and contaminant transportation
- Environmental forensics for TPH (total petroleum hydrocarbons) and chlorinated VOCs (volatile organic compounds)
- Isotope analysis for Lead
- On-site screening techniques
- Human health risk assessment and risk management
- Environmental liability insurance
- Remedial planning and pilot study
- Mass flux evaluation
- Engineering, management, and auditing for remediation

主要實績

- 行政院環保署地面貯存設施土壤及地下水污染預防與調查示範
- 行政院環保署地下儲槽系統申報資料勾稽查核及管理
- 行政院環保署廢棄工廠土壤及地下水污染潛勢調查
- 行政院環保署高污染潛勢工業區污染源調查及管制
- 行政院環保署加油站土壤及地下水污染責任保險開發
- 行政院環保署應用監測式自然衰減整治法之可行性評估準則、設計及成效評估等規範建置
- 行政院環保署應用環境鑑識技術調查含氯碳氫化合物污染場址之污染來源
- 行政院環保署中港溪地下水污染評估與調查
- 苗栗縣環保局頭份及竹南地區地下水調查監測及查證
- 新竹科學園區第一含水層地下水水質第二階段細部調查
- 遠東航空公司土壤污染調查暨改善
- 中國石油化學工業開發股份有限公司安順場址整體整治規劃
- 桃園縣環保局桃園縣農地土壤污染控制場址之污染整治執行監督及驗證
- 高雄市環保局高雄亞洲新灣區及週邊場址土地永續發展評估
- 高雄市環保局台塑仁武廠暨中油高煉廠污染後續調查及污染改善監督

場址環境評估

儘管每一個場址、污染物及周邊環境都不同，
我們都能為您提供客製化的解決方案

地表下環境一旦遭受污染，需要投入大量成本與時間。場址環境評估協助掌握目前的環境狀況，並評估可能產生的環境污染與安全問題。

根據相關法規，公告事業於土地移轉、設立、變更或歇業/停業前，都須提供使用用地的土壤污染評估調查與檢測資料，以釐清污染責任。我們熟悉國內外最新環保法規與趨勢，可以協助跨國企業簽訂全球性或區域性的環境場址評估合約，負責執行與提出評估報告。此外，透過相關環境評估與稽核，以及整合我們的全球環境與工安資源，能為客戶進行完整的環境管理規劃與後續處理，簡化其大型投資開發、投資標的價值、銀行貸款與環境損害責任之評估等程序。

我們以全球尖端的技術，提供跨國界的服務。相關經驗大中華區已超過 70 處跨國企業環境場址評估，主要業主包含 Honeywell、GM、DuPont、ExxonMobil、Shell、BP、ARCO、BASF、Intel、Kodak、Volvo、Dow Chemical、Motorola、TE、Delphi、Alstom、Ashland、Eaton、Fluor Daniel、Lend-lease、Lendlease、Lilly、RPS 及 MB Aerospace 等。

主要實績

- 聯仕電子公司高雄廠第一階段環境場址評估
- 美商科林研發第一階段環境場址評估及第二階段土壤及地下水調查
- 國鈺企業公司汽車廠第一階段環境場址評估
- 赫克力士新竹廠第二階段土壤及地下水調查
- 香港柚木高雄廠第一階段環境場址評估
- 美商 EATON T&B 台南縣幕品工業股份有限公司第一階段環境場址評估及第二階段土壤及地下水調查
- ARCO 林園廠第二階段土壤及地下水調查
- 台中縣（現台中市）翰特股份有限公司吊扇組裝廠第一階段環境場址評估
- 中正機場長榮航空飛機維護中心第一階段環境場址評估及第二階段土壤及地下水調查
- 科達公司台中加工出口區一廠第一階段環境場址評估
- 邁迪科技新竹科學園區廠第一階段環境場址評估
- Phoenixtec 勞工安全衛生稽核
- 台灣康旭股份有限公司第一階段環境場址評估及第二階段土壤及地下水調查
- Rohm and Haas 第一階段環境場址評估及第二階段土壤及地下水調查
- 阿克蘇諾貝爾常誠股份有限公司第一階段環境場址評估



服務項目

- 第一階段環境場址評估
- 第二階段環境場址調查
- 職業安全衛生稽核
- 土壤污染評估調查及檢測作業

高雄市多功能經貿園區及周邊場址土地永續發展評估
Evaluation Plan for the Sustainable Land
Development of the Kaohsiung Multi-functional
Commerce and Trade Park

ENVIRONMENTAL SITE ASSESSMENT

The site, contaminants, and surroundings are
always different
We deliver a solution that fits the site—tailor-made

Once the underground environment is contaminated, it requires a significant amount of cost and time to be treated. Thus, the environmental assessment of the site is aimed to understand the present condition and to assess any possible pollution and labor safety issues that may occur.

According to the related law, the announced enterprises must provide the occupied land's environmental site assessment (ESA) reports, including site visit records and soil analytical results, prior to the transfer of the land, establishing, changing, or termination/suspension of the business. If contamination is identified, the ESA report can be used to clarify the responsibility of the contamination. We are familiar with the most up-to-date environmental protection policy and trend, both domestically and internationally. We can assist multinational corporations to sign a global or regional environmental assessment contract for the sites and be responsible for the execution of the assessment reports. In addition, we can conduct a comprehensive environment management planning and follow up measures for the clients through a relevant environment assessment and audit and integration with our global environmental and labor safety resources. It can simplify many procedures such as large investment development, investment target's valuation, bank loan, and assessment for environmental impairment liability.

Stantec provides services across the borders with our world-leading technologies. The related experiences are accumulated for over 70 sites of the enterprise environment assessment. The major owners include the following, Honeywell, GM, Dupont, Exxon Mobil, Shell, BP, ARCO, BASF, Intel, Kodak, Volvo, Dow Chemical, Motorola, TE, Delphi, Alstom, Ashland, Eaton, Fluor Daniel, Lend-lease, Lifestyle, Lilly, RPS, and MB Aerospace, etc.

Services

- Phase I environmental site assessment
- Phase II environmental site assessment
- Environmental health and safety compliance
- Soil investigation per Articles 8 & 9, Soil and Groundwater Pollution Remediation Act

低碳與綠能

作為領先能源、水務和環境管理顧問
我們站在綜合永續解決方案的最前鋒

GREEN
ENERGY

As a leading energy, water, and environmental management consultancy, we are at the forefront of integrated sustainable solutions.

As the leading brand in the industry of environmental engineering consulting, we dedicate to slow down the impacts on the environment caused by global economic developments by promoting low-carbon homes and the development of renewable energy.

We assist every country and city in Taiwan in the low-carbon development including: promoting each of the low-carbon measures and their management and inspection operation, promoting citizen education on the environment, and hosting competitions on environment education to raise the public's understanding on the importance of the environment protection.

Moreover, we have a talent bank of professionals and technical experts that can be utilized through the global supporting network. We provide professional and economical environmental technology services to the clients through our understanding of all kinds of energy markets and multiple engineering technology development background. Assisting clients to utilize the most out of every resource they allocate to the manufacturing process and can be recycled and used in the system continuously. It turns troubled waste processing into a part of the circular economy.

With ample and solid service experiences and devoting to the green economy's pioneering and development, we introduce the world's latest technologies and ideas to provide the most advanced, proper, and reliable environment protection professional technology services to the clients. Through comprehensive planning and design to bring differentiation to the clients, it builds unique competency and continues laying the foundation for sustainable development.

Services

- Waste recycling and reuse planning and advisory
- Solid waste classification and separation planning and advisory
- Biofuel process planning and design
- Waste-to-energy (W2E) planning and design
- Circular Economy planning
- Air pollution control engineering
- Incinerator rehabilitation planning and design
- Investment and strategic planning for waste management facilities
- Project and construction management

桃園市生質能中心BOT 促參履約管理
Taoyuan Biomass Energy BOT



作為業界環境工程顧問領導品牌，我們致力減緩全球經濟發展造成的環境衝擊，推動低碳家園和再生能源發展。

我們協助全台各縣市低碳發展，包含：推展各項低碳措施與管考作業和推廣環境公民教育與辦理環境教育競賽，以提升民眾環境保護觀念。

此外，我們擁有專業的技術人才庫，透過全球人力支援網絡，憑藉對各種能源市場的了解與多元工程技術發展背景，為客戶提供專業性、經濟性的環保技術服務，協助客戶將生產過程中的每一份資源用到極致，能持續在產業系統中被循環利用，將困擾的廢棄物處理轉進成為循環經濟的一環。

藉由豐富札實的服務經驗，投身綠色經濟的開創與發展，我們引進全球最新技術與思維，為客戶提供先進、妥善、可靠的環保專業技術服務，透過完整的規劃與設計為客戶帶來差異化，創建獨特的競爭力，持續建立永續發展的基礎。

服務項目

- 廢棄物回收再利用諮詢顧問、規劃及設計
- 固態廢棄物分選諮詢顧問、規劃及設計
- 再生燃料製程諮詢顧問、規劃及設計
- 廢轉能 (W2E) 構想規畫
- 循環經濟評估及規劃
- 空氣污染防治工程規劃及設計
- 焚化廠興建及改善工程規劃及設計
- 廢棄物處理廠投資及規劃設計
- 工程監造及專案管理

主要實績

- 桃園市生質能中心 BOT 案前置作業
- 桃園市生質能中心興建、營運及移轉 (BOT) 促參履約管理
- 台中市文山焚化廠興建營運及移轉
- 台南縣環保科技園區污泥資源再利用廠興建工程顧問服務
- 台糖東海豐負壓水簾及綠能設計豬場改進工程委託專案管理暨研究
- 屏東縣禽畜糞液沼氣中心投資計畫
- 屏東縣禽畜糞液沼氣中心設置規劃設計
- 109 年度桃園市一般廢棄物綜合管理
- 新北低碳城市管理與評估暨再生能源綜合推動
- 104 年 -109 年新北市低碳永續家園運作及成效管考
- 103-104 年度臺東縣低碳永續家園運作及成效管考
- 104 年 -105 年連江縣低碳永續家園運作及成效管考
- 104-105 年度馬祖地區低碳推動計畫

建築與營建管理

我們打造的不只是建築 還有改變未來的力量

建築改變城市，深刻影響城市生活與風貌。建築營建也隨著人、城市空間與生態平衡需求，工程規模逐漸變得龐大、多樣與複雜化。營建管理已跳脫傳統工程思維，將上、中、下游各階段工作流程與各種跨界專業有系統地整合，使工程能在既定時程、品質及預算要求下順暢執行，還要確保能為都市潛在的未來做好準備。

作為全球前十大建築設計與工程顧問公司，我們是一個跨界高效的創新團隊。不僅僅在建築技術，在能源、環境與智能設計發展亦不斷精進、跨界協作。從是否能帶來經濟效益的商業空間規劃、提供安全健康的醫療與研究醫院、激發想像的教育學校空間，到交通運輸樞紐，我們都能提供從工程開始到結束、從概念設計到竣工驗收全生命週期完整的建築與營建管理服務，如工程可行性評估、環境影響評估、規劃、設計、發包、監造、營運監督、專案管理服務等。

從中央到地方政府單位、公營機構到私人企業，我們都與客戶同在。不只是建築，更要促進更好的社區與環境，以及對細節的講究，最終提供客戶可長期信賴的建築營建管理品質。

ARCHITECTURE & BUILDING SERVICES

We are engineering a
promising future.

Architectures transform a city; they influence a city's life and image deeply. An architecture's construction scale becomes large, diverse, and complex because of the need for balance between the people, city space, and ecology. Construction management is no longer the traditional engineering mindset. It systematically integrates each phase's procedures from the upstream, midstream, and downstream, and all kinds of crossover professions together to allow constructions to run smoothly under the planned time, quality, and budget while ensuring to be prepared for the city's future potential.

As one of the world's top 10 architecture design and engineering consulting firms, we are a crossover high efficiency innovative engineering team. We are not only continuing to thrive on architecture technologies, energy, environment, and smart design development and work collaboratively across professions. From whether a business space planning is cost-effective, providing a safe and healthy medical and research hospital, an inspiring educational space in campus, to a traffic transportation hub, we can provide a full lifecycle comprehensive architecture and construction management service from the beginning of the project to the end, from concept creation to the final inspection for all. Including: project feasibility assessment, environmental impact assessment, planning, design, investment, supervision on construction, operation supervision, project management, and lead consultant services.

From central to local government, government-owned institution to private enterprise, we are with our clients. It is not just architectures; moreover, it is to facilitate a better community and environment as well as pay attention to details, providing a long-term reliable architecture management quality to the clients.

Services

- Architectural and engineering design of buildings
- Project and construction management
- Landscape planning and design
- Land development assessment and planning
- Urban planning and community development
- 3D and BIM services

主要實績

- 新北市中和安邦段青年社會住宅工程委託專案管理
- 國立臺灣師範大學華語國際學舍新建工程委託專案管理
- 屏東大武分院新建工程專案管理及監造
- 桃園市政府 106 建築工程委託專案管理
- 瑞塘國小活動中心新建工程及周邊環境改善工程專案管理與施工督導
- 平鎮新富市場綜合大樓新建工程專案管理與施工督導
- 青埔國中活動中心新建工程專案管理與施工督導
- 桃園市殯葬大樓暨立體停車場新建工程委託專案管理
- 桃園市楊梅區公所行政大樓專案管理
- 過嶺國小活動中心及專科教室新建工程專案管理
- 龍潭國中老舊校舍改建工程專案管理
- 桃園流行音樂劇場興建工程專案管理
- 桃園市政府 107 建築工程委託專案管理
- 中壢殯葬園區禮廳大樓、遺體處理中心暨火化場新建工程專案管理
- 桃園市中壢區青埔國民小學第二期新建校舍工程專案管理
- 龍岡運動中心新建工程專案管理
- 桃園市大溪阿姆坪水上運動訓練基地統包工程專案管理及施工監造
- 新北市立新北高工地下停車場暨共構其他設施新建工程委託規劃、設計諮詢審查及施工監造



服務項目

- 建築工程規劃與設計
- 專案暨營建管理
- 景觀工程規劃與設計
- 土地開發可行性評估與規劃
- 都市與社區開發
- 3D 和 BIM 應用與設計

智慧科技與資訊系統

最智慧的城市設計以人為本

談到智慧科技，一般總想到雲端、物聯網、大數據與人工智慧等技術。從這些科技獲得的資料，需被加以分析淬鍊，方能轉化為更有意義的「智慧」。因此，我們深信要打造高效的智慧科技應用仍是以人為出發，為人服務。

2017年我們成立智慧資訊事業部，積極投入商業智慧分析與資訊系統開發。以扎實的環境、水務、建築與能源工程專業為基礎，具備數十年公共建設資產管理與應用經驗，我們能在分散式的架構中進行數據分析、系統開發或提供資訊解決方案，改善公共建設服務的傳遞與管理。目前，在環境監測查詢系統、公共管線資產管理系統、施工監督及管理系統、環境地理資訊系統與BI商業智慧應用等領域成果輝煌。其中，發展的雲端水務管理系統更獲得智慧城市創新應用獎，並被發表於2018全球智慧城市報告書中。

我們的團隊在每個計畫中不斷探索智慧科技的潛能，透過我們的專業技術，串聯城市建設和網絡，點對點規劃每個角落輪廓，提供高效與安全的城市管理，翻轉生活體驗，協助政府與企業推動智慧城市與國家的永續發展。



服務項目

- 公共建設 / 管線設施資產管理系統規劃建置
- 資產狀況評估
- 數據分析與輔助應用決策系統規劃建置
- 資訊管理系統開發
- GIS 環境地理資訊系統應用
- BI 商業智慧應用

SMART TECHNOLOGY

The smartest cities put people first

When talking about smart technology, normally technologies such as cloud, IoT, big data, and artificial intelligence come across people's minds. The data obtained from these technologies still requires analysis to turn them into more meaningful "intel". Thus, we believe building high efficiency intelligence technologies should still be human centric, to service people.

We established the department of smart information business in 2017, and actively worked on the development of business intelligence analysis and information system. With a solid foundation of environment, water affairs, architecture, and energy engineering, equipped with decades of public infrastructure asset management and application experiences, we can conduct data analysis, system development or providing information solutions to improve a public infrastructure's service delivery and management under the scattered structure. Currently, there are outstanding accomplishments in the field such as environment monitoring system, public pipeline asset management system, construction supervision and management system, environment geographical information system, and BI business intelligence applications. Among them, the cloud-based water affair management system even received an award for the smart city innovation application and is published in the Global Smart Solution Report 2018.

Our teams continuously explore the potential of smart technology in each project. Through our professional technologies, we connect a city's infrastructures and internet to plan every corner point by point and provide highly efficient and safe city management. Turning the life experiences and assist the government and enterprises to promote smart city and country's sustainable development.

Services

- Infrastructure asset management system
- Asset condition assessment
- Data analysis and decision support system planning
- Management Information System (MIS) development
- GIS design and build
- Business intelligence (BI) services

主要實績

- 105~109年桃園市下水道地理資訊管理系統 GIS 建置與功能擴充
- 桃園 BOT 水資源回收中心廠務及下水道管網 GIS 系統建置
- 下水道工程建設暨計畫網站整合資訊加值應用系統擴改資訊服務
- 108、109年資源回收業務資訊系統維運管理與整合
- 108-109年社區總體營造資訊整合網站
- 建立高雄市下水道維護管理資訊系統
- 經濟部工業局水污染防治戰情中心
- 再生能源發電設備認定及查核作業資料庫結構分析暨程式開發
- 斷路器專家診斷暨加值應用系統資訊服務
- 全省自來水 800mm 以上口徑管線安全評估即時查詢
- 新北市優化跨區域低碳綠色汽車共乘網站資訊服務
- 北宜高速公路坪林行控中心專用道外來旅客環境影響差異分析之共管會報網站資料庫移轉 / 維護服務
- 全台灣簡易自來水系統資料庫及查詢平台建置
- 屏東縣禽畜糞尿沼氣中心設置規劃設計之沼氣中心資訊平台建置
- 卑南溪河川揚塵防治及改善推動相關系統網頁更新維護、資訊電子看板、揚塵即時資訊 APP 建置

企業永續 與社會責任

CORPORATE SUSTAINABILITY



我們不僅專注於本業，更追求企業永續經營。從我們的核心理念、企業文化、服務設計、技術與業務拓展藍圖都以創新、環境、永續與社區共存思考。

我們已連續數年獲得全球公認的氣候變遷CDP指標上A級評鑑。並榮獲聯合國評鑑2018與2019年度「聯合國永續發展企業領袖獎(Winner of UNGC SDG Leadership Award)」，七度獲得加拿大最佳企業公民，並獲得《Corporate Knight》選為全球百大永續企業，名列世界前1%。

在台灣，我們堅守Stantec的永續經營政策，透過在地專案、服務與關懷，參與低碳、綠能與智慧城市推動，贊助自閉症兒童體能活動，偏鄉孩童物資與書籍捐贈，協助精障者過度就業輔導及參與社區獨居老人關懷等，持續深化我們在地企業社會責任。

Stantec 全球社區週

每年9月，橫跨全球六大洲，我們匯集5,000青年員工一同為改善我們的社區、城市和地球為目標，以多親近在地生態、人文與環境回饋，善盡企業社會責任之責。



We are not only focusing on our core business, but also pursuing the sustainability of the enterprise's operation. From our core value, enterprise culture, service design, technology, and business expansion blueprint, are all thought from the perspective of innovation, environment and coexist with the communities.

It is precisely this kind of value, we have received an A rating in consecutive years on a world recognized climate change index, CDP. We were also the winners of UNGC SDG Leadership Award in 2018 and 2019 evaluated by the United Nations. We won the best corporate citizen seven times in Canada and received the top 1% selection of Global top sustainable enterprise by Corporate Knight.

In Taiwan, we value Stantec's sustainable operation policy, participate in low carbon, green energy, and smart city promotion through local projects, services, and cares. We sponsor children with autism physical activities, donating resources and books to distant rural areas. We assist mental disorder patients to receive employment counseling or reach out to the living alone elders in the community. All these initiatives strengthen our corporate social responsibility as a local enterprise.

Stantec in the Community Week

In September every year, we gather 5,000 young employees from across six continents in the world to have a goal of improving our communities, cities, and the Earth, holding corporate social responsibility by getting close to the local ecology, culture, and return to the environment.

ASIA
China
Shanghai

India
Pune

Taiwan
Taipei

AUSTRALIA & NEW ZEALAND

Australia
Sydney
Brisbane
Nerang
Rockhampton
Adelaide
Melbourne
Albany, WA
Busselton, WA
Perth

New Zealand

Auckland
Balclutha
Christchurch,
Dunedin
Hamilton
Hastings
Invercargill
Napier
Nelson
Palmerston North
Queenstown
Tauranga
Wellington
Whangarei

CANADA

Canada
*Alberta (Edmonton Capital)
British Columbia
Manitoba
New Brunswick
Newfoundland and Labrador
Northwest Territories
Nova Scotia
Nunavut
Ontario
Ontario
Prince Edward Island
Quebec
Saskatchewan
Yukon

NORTH AMERICAN EXPORTS

Caribbean
St. Michael

Ethiopia
Addis Ababa

EUROPE
Belgium
La Hulpe

Czech Republic
Prague

Germany
Potsdam

Italy
Milan
Rome

The Netherlands
Arnhem
Delft

Turkey
Istanbul

United Kingdom

Ashford
Birmingham
Bristol
Cambridge
Cardiff
Edinburgh
Glasgow
High Wycombe
Leeds
London
Manchester
Newcastle upon Tyne
Northampton
Oxford
Reading
Redditch
Shrewsbury
Taunton
Warrington

LATIN AMERICA

Argentina
Buenos Aires

Chile
Santiago

Peru
Lima

Middle East

Bahrain
Manama

Qatar
Doha

Saudi Arabia
Dammam

**United Arab
Emirates**
Abu Dhab
Dubai

UNITED STATES

UNITED STATES

Alabama
Alaska
Arizona
California
Colorado
Connecticut
Connecticut
Des Moines IA
District of Columbia
Florida
Georgia
Hawaii
Idaho
Illinois
Indiana
Iowa
Kansas
Louisiana
Maine
Massachusetts
Michigan
Minnesota
Mississippi
Missouri
Nevada
New Hampshire
New Jersey
New Mexico
New York
North Dakota
Ohio
Oregon
Pennsylvania
Puerto Rico
Rhode Island
Texas
Utah
Vermont
Washington
Wisconsin



《ENR 工程新聞》
綠建築設計公司評比
第1名、全球優良建築、
工程設計公司第10名



加拿大前50最佳企業公民



連續數年獲得
Jantzi 社會責任指數和
CDP 碳信息揭露項目
領導認可



全球頂尖
綠建築企業第二名



美商傑明工程顧問(股)台灣分公司
美華環境科技股份有限公司

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Design with **community** in mind