



ATAL Engineering Group
安乐工程集团

Engineering with passion
用心创造



SMART SOLUTIONS IN ENVIRONMENTAL ENGINEERING



环境工程智能解决方案



Solutions intelligentes en ingénierie
environnementale



Soluciones inteligentes de ingeniería
medioambiental



حلول ذكية في الهندسة البيئية

WHO WE ARE

A pioneer in environmental engineering

ATAL Engineering Group is a leading electrical and mechanical (E&M) engineering and technology service provider, with headquarters in Hong Kong SAR and operations in Macau SAR, Mainland China, the United States and the United Kingdom. Since 1977, we have earned a reputation for providing state-of-the-art environmental technologies and product applications.



环境工程先驱

安乐工程集团为领先的机电工程及技术服务供应商，总部设于香港特别行政区，业务遍及澳门特别行政区、中国内地、美国 and 英国。自1977年以来，集团凭借先进的环保技术和产品应用在业界享誉盛名。

Un pionnier de l'ingénierie environnementale

ATAL Engineering Group est un prestataire de services technologiques et d'ingénierie électrique et mécanique (E&M) de premier plan, dont le siège se trouve dans la RAS de Hong Kong et qui exerce ses activités dans la RAS de Macao, en Chine continentale, aux États-Unis et au Royaume-Uni. Depuis 1977, nous avons acquis la réputation de fournir des technologies environnementales et des applications de produits à la pointe du progrès.

Pioneros en ingeniería medioambiental

ATAL Engineering Group es un proveedor líder de servicios de ingeniería y tecnología eléctrica y mecánica (E&M), con sede en Hong Kong RAE y operaciones en Macao RAE, China continental, Estados Unidos y el Reino Unido. Desde 1977, nos hemos ganado la reputación de ofrecer tecnologías medioambientales y aplicaciones de productos de vanguardia.

شركة رائدة في مجال الهندسة البيئية

مجموعة ATAL الهندسية هي إحدى الشركات الرائدة في مجال توفير الخدمات الهندسية والتكنولوجية الكهربائية والميكانيكية (E&M)، ويقع مقرها الرئيسي في منطقة هونغ كونغ الإدارية الخاصة ولها مشاريع في منطقة ماكاو الإدارية الخاصة، والبر الرئيسي للصين، والولايات المتحدة والمملكة المتحدة. منذ عام ١٩٧٧، اكتسبنا سمعة طيبة في تقديم أحدث التقنيات البيئية وتطبيقات المنتجات.

WHY WORK WITH US

A one-stop shop

ATAL is a leader in the design, construction, testing, commissioning, operation and maintenance of water, wastewater, solid waste, gas treatment and green energy. We are dedicated to conserving water resources and protecting ecosystems in the best interests of sustainability.



一站式服务

安乐工程在净水、污水、固体废物、气体处理及绿色能源的设计、建造、测试、调试、运行和维护方面处于领导地位。集团致力于节约水资源和保护生态系统，以最大化实现可持续发展。

Un guichet unique

ATAL est un leader dans la conception, la construction, les essais, la mise en service, l'exploitation et l'entretien de l'eau, des eaux usées, des déchets solides, du traitement des gaz et des énergies vertes. Nous nous consacrons à la préservation des ressources en eau et à la protection des écosystèmes dans l'intérêt de la durabilité.

Servicio integral

ATAL es líder en diseño, construcción, pruebas, puesta en marcha, explotación y mantenimiento de instalaciones de agua, alcantarillado, residuos sólidos, tratamiento de gases y energía verde. Nuestro principal objetivo es la conservación de los recursos hídricos y la protección de los ecosistemas en pro de la sostenibilidad.

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متجر شامل

تميز شركة ATAL كونها رائدة في تصميم، وبناء، واختبار، وتشغيل وصيانة المياه، والصرف الصحي، والنفايات الصلبة، ومعالجة الغاز والطاقة الخضراء. نحن نلتزم بالحفاظ على موارد المياه وحماية النظم البيئية في مصلحة الاستدامة.

In-house design

Over the years, ATAL has taken the lead among E&M contractors by focusing on high-tech and innovative solutions in environmental engineering. We not only build plants, but we also design them, leveraging our own in-house technologies – and we operate them as well.

自主设计

安乐工程多年来专注于环境工程的高端科技和创新解决方案，成为业界领先的机电承建商。安乐工程不仅建造处理厂，更采用自主研发技术设计与运营处理厂。

Conception interne

Au fil des ans, ATAL est devenu le premier des entrepreneurs E&M en se concentrant sur des solutions de haute technologie et innovantes en matière d'ingénierie environnementale. Nous ne nous contentons pas de construire des usines, nous les concevons également à l'aide de notre propre technologie, et nous les exploitons.

Diseño interno

Con el tiempo y la experiencia, ATAL ha asumido el liderazgo entre los contratistas de E&M al centrarse en soluciones innovadoras de alta tecnología en ingeniería medioambiental. Nuestra labor no se limita a la construcción de plantas, sino también a su diseño mediante la aplicación de nuestra propia tecnología, donde también operamos.

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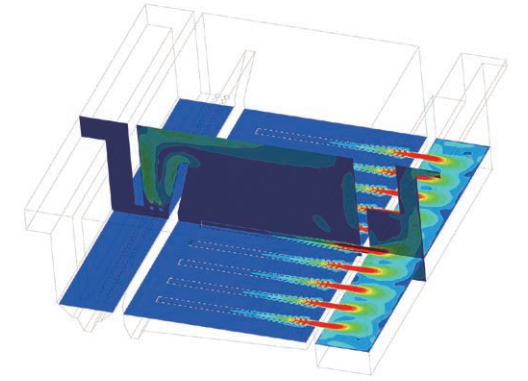
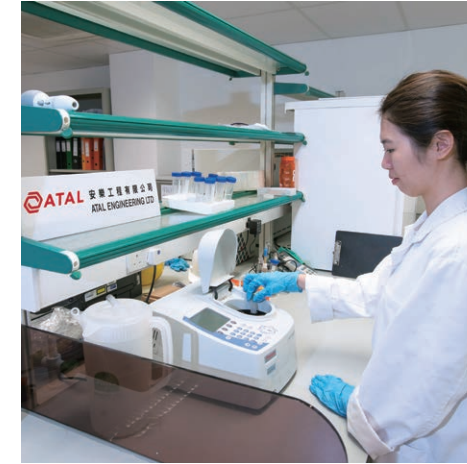
تصميماتنا الداخلية الخاصة

استطاعت شركة ATAL على مر السنين أن تتصدر الريادة بين مقاولي الأعمال الكهربائية والميكانيكية من خلال التركيز على الحلول المبتكرة ذات التقنية العالية في مجال الهندسة البيئية. نحن لا نبني المصانع فحسب، بل نصممها أيضًا باستخدام التكنولوجيا الخاصة بنا - ونقوم بتشغيلها أيضًا.



Advanced technology and innovation

Innovation has been in our DNA for more than four decades. One example is ATAL's ground-breaking in-house developed wastewater treatment technology – an all-in-one system that incorporates various wastewater treatment processes, including coagulation, magnetic media mixing, flocculation and sedimentation, all installed and completed within a container.



先进技术与创新

四十多年来，创新已经融入安乐工程的企业基因。例如，集团自主开发的开创性污水处理技术——污水处理一体化系统，从凝结、磁介质混合、絮凝到沉淀过程，均于一个载体内安装及处理完成。

Technologies avancées et innovations

L'innovation est dans notre ADN depuis plus de quatre décennies. Exemple : la technologie révolutionnaire de traitement des eaux usées développée en interne par ATAL est un système tout-en-un qui intègre divers processus de traitement des eaux usées, notamment la coagulation, les mélangeurs statiques, la floculation et la sédimentation, le tout installé et achevé dans un même conteneur.

Innovación y tecnología avanzada

Desde hace más de cuatro décadas, la innovación es la parte fundamental de nuestro ADN. Un buen ejemplo es la pionera tecnología de tratamiento de aguas residuales desarrollada por ATAL: un sistema integral que incorpora diversos procesos de tratamiento de aguas residuales como la coagulación, la mezcla de partículas magnéticas, la floculación y la sedimentación. Su instalación se completa con un contenedor específico.

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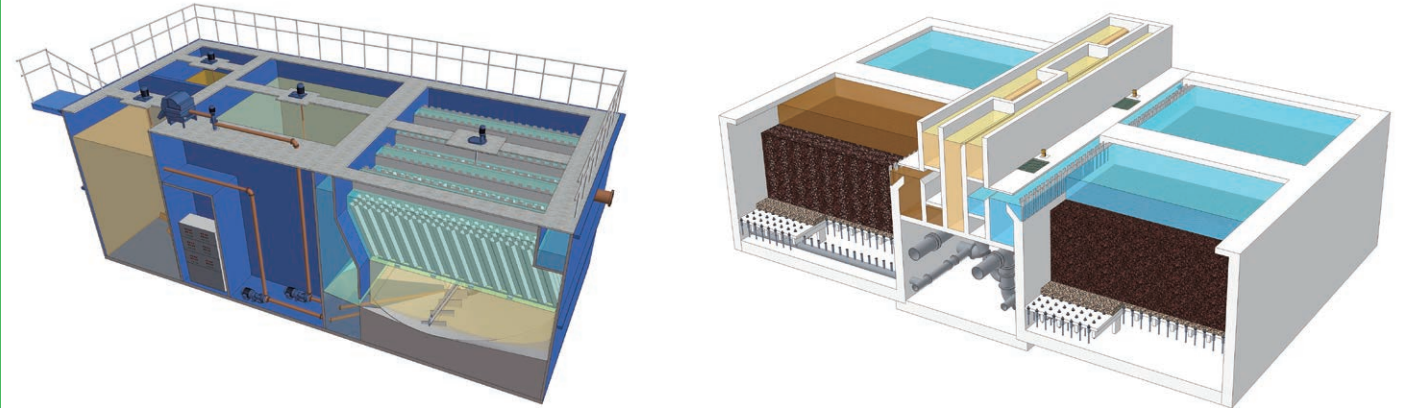
التكنولوجيا المتقدمة والابتكار

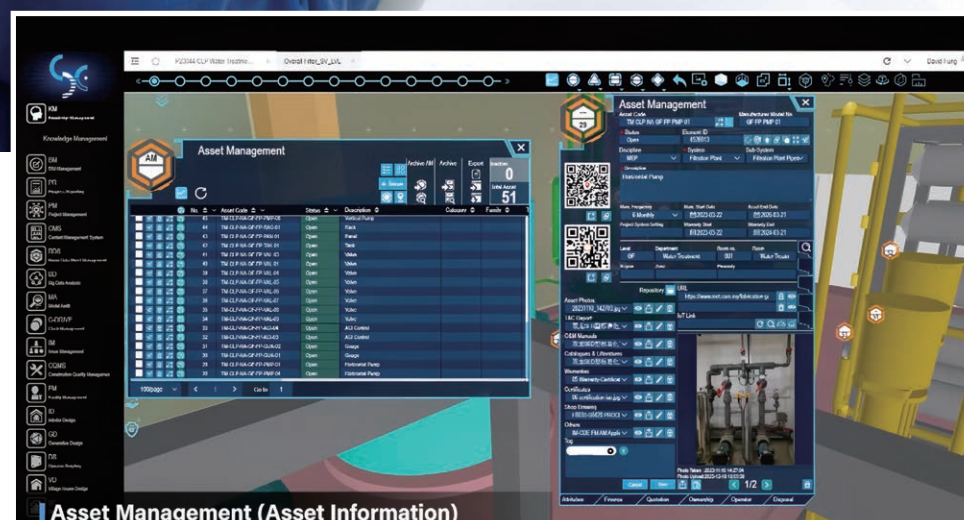
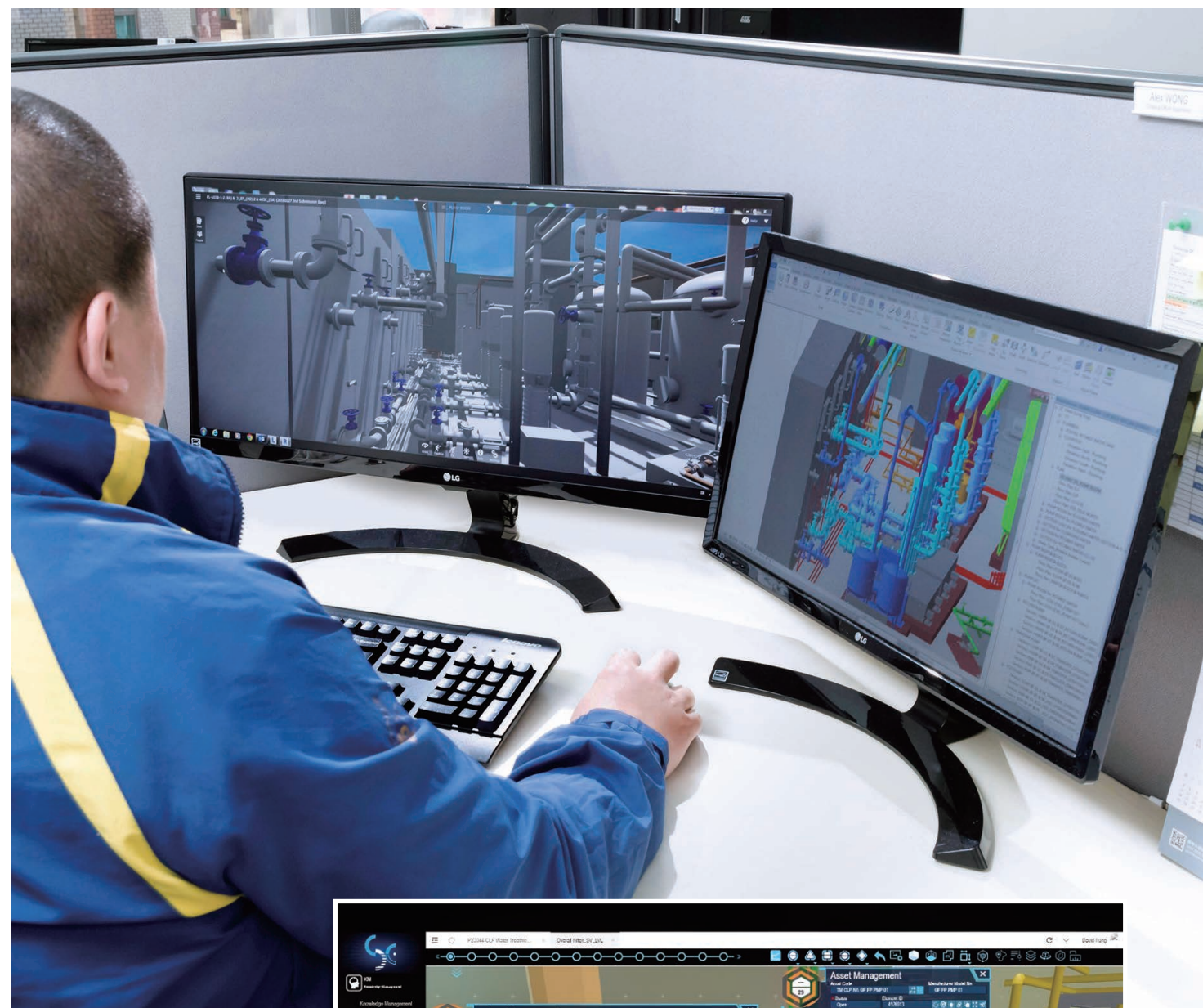
ظل الابتكار في جيناتنا لأكثر من أربعة عقود. أحد الأمثلة على ذلك هو تقنية ATAL لمعالجة مياه الصرف الصحي المتطورة داخلياً - وهو نظام شامل يتضمن العديد من عمليات معالجة مياه الصرف الصحي، بما في ذلك التخثر، وخلط الوسائط المغناطيسية، والتلبد والترسيب، وجميعها مثبتة ومكتملة داخل حاوية.

WHY WE DIFFER

An integrator of technologies

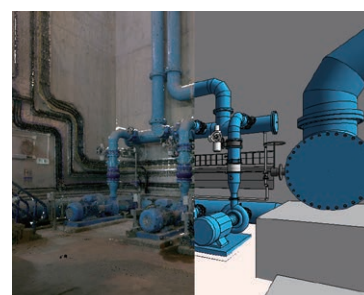
We apply the latest technologies when designing a project. Technology design differentiates us from traditional contractors because we are a provider of solutions based on different technologies developed both in-house and in collaboration with universities and R&D centres. We see ourselves as an integrator of technologies, making it possible for us to always find the best solution for our customers.





Advanced digital technologies

We apply advanced digital technologies such as Building Information Modelling (BIM) with Common Data Environment (CDE), Big Data, Artificial Intelligence (AI), and Digital Twin in various fields of our design to monitor the status of the equipment and to simulate different situations to mitigate risk, reduce costs, save energy and optimise performance.



PROJECT HIGHLIGHTS



Making our harbour clean again

Signature Project:
Stonecutters Island
Sewage Treatment Works



Background

Stonecutters Island Sewage Treatment Works (SCISTW) is one of the world's largest chemically enhanced primary treatment plants for sewage. The upgrade of the plant, which commenced in 2010, was a key part of the Hong Kong SAR government's Harbour Area Treatment Scheme (HATS). ATAL won several contracts to construct, upgrade and maintain the facility.

Challenge

The project aimed to make the water in Victoria Harbour clean again. The land area available for the new construction was, however, limited in space.

Solution

From the new construction of SCISTW, ATAL carried out the sludge dewatering, sludge cakes transportation, sedimentation, deodorisation and effluent dechlorination.

Result

The project was honoured with prestigious industry awards such as the Tien-yow Jeme Civil Engineering Prize. The facility was also named as one of the "Ten Hong Kong People Engineering Wonders in the 21st Century" in 2013 by the Hong Kong Institution of Engineers.



Enhancing wastewater treatment capacity and performance

Signature Project:
San Wai Sewage Treatment Works



Background

ATAL won the contract to design, build and operate the upgrading of the sewage treatment works in San Wai in Hong Kong SAR's New Territories. The project aimed to increase the wastewater treatment capacity to address the increasing population pressure in the area.

Challenge

To improve the sewage treatment works' performance and meet tight effluent discharge standards.

Solution

The engineering works encompassed upgrading the treatment level from preliminary treatment to chemically enhanced primary treatment with ultraviolet disinfection facilities to improve the performance of sewage treatment.

Result

The project was completed in 2020. The administration building and workshop under the project have obtained Final Platinum in BEAM Plus New Buildings V1.2. The project was awarded Autodesk Hong Kong – BIM Awards 2020.

Transforming a plant into a sustainable landmark

Signature Project:
Yuen Long Effluent Polishing Plant
– Main Works for Stage 1



Background

In 2020, ATAL started to participate in upgrading the existing Yuen Long Sewage Treatment Works in the north-west of Hong Kong SAR's New Territories. The facility, which was commissioned in 1984, is being transformed into the Yuen Long Effluent Polishing Plant.

Challenge

The project not only had to enhance the quality of water in the receiving water bodies, but also attain high-sustainability performance for the entire plant.

Solution

ATAL adopts advanced technologies such as the Aerobic Granular Sludge (AGS) treatment process, which is firstly adopted in Hong Kong. AGS is a novel microbial community which allows simultaneous removal of carbon, nitrogen, phosphorus and other pollutants in a single sludge system.

Result

This landmark project will provide Hong Kong SAR with a sustainable wastewater treatment solution.



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Revamping the largest treatment works in Hong Kong SAR

Signature Project:
Sha Tin Water Treatment Works (South Works)

Background

ATAL is engaged in the design, build, testing and commissioning of all electrical and mechanical works for the South Works of the Sha Tin Water Treatment Works – the largest of its kind in the city of Hong Kong SAR – and ancillary facilities.

Challenge

To meet the increased water demand arising from new housing developments, the challenge is to upgrade the treatment capacity of the more than 50-year-old treatment plant from 360,000 m³/day to 550,000 m³/day with limited space.

Solution

ATAL is providing in-situ reprovisioning of water treatment process units featuring the latest technologies, such as lamellar sedimentation, two-stage filtration, ozonation and disinfection by UV light to ensure the top tier of global standard of drinking water quality.

Result

When the new facility commences operation, it will be able to cope with the increasing water demand arising from new housing developments in parts of Kowloon, Central and Western districts on Hong Kong Island and Sha Tin district.





Enhancing the reliability of a water supply system

Signature Project:
Tai Po Water Treatment Works



Background

The Tai Po Water Treatment Works was designed to be expanded and uprated in stages. ATAL undertook the expansion project to upgrade the capacity to 800,000 m³/day by improving the existing facilities and constructing additional water treatment components.

Challenge

Tai Po Water Treatment Works supplied potable water to Tai Po, West and Central Kowloon area, and Central and Western District of Hong Kong Island, thereby enhancing the resilience, flexibility and reliability of the water supply system in Hong Kong SAR.

Solution

Dissolved air flotation, biological filtration and rapid gravity filtration were employed as the three main treatment processes to ensure treated water complied with the World Health Organisation's Guidelines for Drinking-water Quality.

Result

The project resulted in much-improved water-supply system quality for Hong Kong SAR. It was accredited with the BEAM Plus Final Platinum rating by the Hong Kong Green Building Council. This was a prime example of innovation in sustainability, with the aim of conserving resources and protecting the environment.

Turning food waste into renewable energy

Signature Project: Siu Ho Wan Organic Resources Recovery Centre (O■PARK1)



Background

O■PARK1 is Hong Kong SAR's first organic resources recovery centre, situated at Siu Ho Wan in northern Lantau Island. ATAL was awarded a contract for design, supply and installation of the electrical and mechanical systems and building services for O■PARK1.

Challenge

To offer an answer to harness the long neglected residual organic values commonly found in food waste and transforming it into renewable energy.

Solution

A solid-waste treatment plant was constructed using state-of-the-art biological treatment technologies, such as anaerobic and composting processes, to convert food waste into biogas and compost, while meeting high level of safety and environmental requirements.

Result

O■PARK1, which has been in operation since December 2018, is able to treat 73,000 tonnes of food waste from restaurants and food factories annually. It produces biogas, which is used as a renewable energy source. Apart from internal use, it can generate as much as 14 million kWh of electricity per year, equivalent to the power consumption by about 3,000 households, while reducing some 42,000 tonnes of greenhouse gas emissions.

An important step to carbon neutrality

Signature Project:
Combined Heat and Power Electricity Generation
Project at Alice Ho Miu Ling Nethersole Hospital



Background

ATAL was awarded a contract to design and implement a combined heat and power (CHP) electricity generation installation at the Alice Ho Miu Ling Nethersole Hospital in Tai Po, Hong Kong SAR.

Challenge

Traditionally, the large amounts of methane gas generated by landfills were flared off rather than utilised. In this project, landfill gas would be distributed to a hospital for generating electricity, making it the first commercially viable renewable energy project in Hong Kong SAR.

Solution

In the CHP project, landfill gas was used as the fuel to generate electricity as well as steam and hot water for various hospital systems and facilities. A 19 km pipeline from a landfill site was constructed to supply the CHP plant's methane. Waste heat was captured and converted into steam and hot water for hospital use, achieving much higher energy efficiency than conventional electricity generation systems.

Result

The plant was completed and commenced operations in 2016. The CHP system led to estimated savings of HK\$2.7 million annually in energy costs and reductions of up to 2,000 tonnes in annual carbon emissions. The project has been awarded the Regional Energy Project of the Year Award for the Asia-Pacific region by the Association of Energy Engineers (AEE) in the United States.



International expansion

Over the years, ATAL has completed a large number of environmental engineering projects throughout Asia. We remain firmly committed to serving customers all over the world with top-notch solutions that meet every requirement in terms of effectiveness, reliability and high-level performance.



Handling all types of treatment



Sewage treatment

We have accumulated more than 40 years of experience in introducing and developing advanced technologies to treat municipal sewage and wastewater treatment projects. Our research and development (R&D) efforts and pilot testing have developed over the years and we have refined new treatment processes.



Water treatment

ATAL has earned a solid track record in the design and construction of municipal water treatment facilities, as well as pumping stations and seawater treatment systems. Our potable water-treatment design service adopts processes such as coagulation and flocculation, pH adjustment, sedimentation, rapid gravity filtration, onsite chlorine generation, ultraviolet disinfection, ozonation and sludge treatment. We customise these approaches to suit the unique requirements demanded by the customers we serve.



Solid waste treatment

Our expertise was channelled into the design, build and operation of Hong Kong SAR's first large-scale Organic Resources Recovery Centre. The reduction in use of fossil fuel to generate electricity, together with the reduced amount of organic waste in landfills, will prevent some 42,000 tonnes of greenhouse gas being emitted each year.



Gas and odour control treatment

Over the past 10 years, ATAL has been pioneering this area by introducing biological trickling filtration. This methodology has been welcomed by the government as an effective way of treating odorous gas emissions from municipal sewage treatment works, as well as complex industrial emissions. The technology avoids the downsides associated with chemical pollution and waste disposal.



Green energy

ATAL is also an expert in designing renewable energy solutions that convert waste into usable heat, electricity or fuel. Combined heat and power (CHP) system is applied to convert biogas generated by waste into renewable energy. ATAL has also developed solar PV system projects for generating green power.



Green finance

In 2021, ATAL became the first E&M engineering group in Hong Kong SAR to obtain a Sustainable Finance Certification from the Construction Industry Council as well as a Green Loan Pre-Issuance Stage Certificate from the Hong Kong Quality Assurance Agency. The Group obtained its first green loan of HK\$300 million. The proceeds have been earmarked for enhancing water and wastewater management.



Carbon reduction

ATAL is committed to minimising its operational impacts on human health and the environment. It includes principles that guide carbon reduction, pollution control, waste minimisation and recycling. In addition, it steers the responsible use of energy, water and other natural resources. In 2023, ATAL received the “Best ESG Enterprise Award” in Sing Tao Service Awards which recognises companies that excel in sustainability and corporate social responsibility in their business operations.

Major projects

Water Treatment													
Project Name	Treatment Capacity (m³/d)	SCOPE OF SUPPLY					TYPE						
		Design	Procurement	Installation	T&C	Operation and/or Maintenance	Pump Station	Sedimentation	Filter	Disinfection	Chemical Dosing	Sludge Treatment	Instrumentation
Sha Tin Water Treatment Works (South Works), Hong Kong SAR	550,000	■	■	■	■	■	■	■	■	■	■	■	■
Expansion of Tai Po Water Treatment Works, Hong Kong SAR	400,000	■	■	■	■	■	■	■	■	■	■	■	■
Changchun No.5 Water Treatment Plant Phase II, Jilin, China	300,000	■	■	■	■	■	■	■	■	■	■	■	■
Ngau Tam Mei Water Treatment Works, Hong Kong SAR	230,000	■	■	■	■	■	■	■	■	■	■	■	■
Ma On Shan Water Treatment Works, Hong Kong SAR	227,000	■	■	■	■	■	■	■	■	■	■	■	■
Taiping Water Treatment Plant, Liaoning, China	120,000	■	■	■	■	■	■	■	■	■	■	■	■
Mengshan Water Treatment Plant, Shandong, China	100,000	■	■	■	■	■	■	■	■	■	■	■	■
Sewage Treatment													
Project Name	Treatment Capacity (m³/d)	SCOPE OF SUPPLY					TYPE						
		Design	Procurement	Installation	T&C	Operation and/or Maintenance	Pump Station	Preliminary Treatment	Primary Treatment	CEPT	Secondary Treatment	Tertiary Treatment	Sludge Treatment
Stonecutters Island Sewage Treatment Works, Hong Kong SAR	2,400,000	■	■	■	■	■	■	■	■	■	■	■	■
Bailonggang Wastewater Treatment Plant Phase II, Shanghai, China	800,000	■	■	■	■	■	■	■	■	■	■	■	■
Kaifu Wastewater Treatment Plant Phase III, Hunan, China	450,000	■	■	■	■	■	■	■	■	■	■	■	■
Sha Tin Sewage Treatment Works, Hong Kong SAR	340,000	■	■	■	■	■	■	■	■	■	■	■	■
Gushu Wastewater Treatment Plant Phase II, Guangdong, China	320,000	■	■	■	■	■	■	■	■	■	■	■	■
Kaifu Wastewater Treatment Plant, Hunan, China	300,000	■	■	■	■	■	■	■	■	■	■	■	■
Yan'erwan Wastewater Plant Phase I, Gansu, China	260,000	■	■	■	■	■	■	■	■	■	■	■	■
Pillar Point Sewage Treatment Works, Hong Kong SAR	241,000	■	■	■	■	■	■	■	■	■	■	■	■
Guanlan Wastewater Plant Phase II, Guangdong, China	240,000	■	■	■	■	■	■	■	■	■	■	■	■
San Wai Sewage Treatment Works Phase I, Hong Kong SAR	200,000	■	■	■	■	■	■	■	■	■	■	■	■
Jimo Wastewater Treatment Plant, Shandong, China	200,000	■	■	■	■	■	■	■	■	■	■	■	■
Yandong Wastewater Treatment Plant, Zhejiang, China	200,000	■	■	■	■	■	■	■	■	■	■	■	■
Shajing Wastewater Treatment Plant Phase III, Guangdong, China	200,000	■	■	■	■	■	■	■	■	■	■	■	■
Siu Ho Wan Sewage Treatment Works, Hong Kong SAR	180,000	■	■	■	■	■	■	■	■	■	■	■	■
Yuen Long Effluent Polishing Plant, Hong Kong SAR	150,000	■	■	■	■	■	■	■	■	■	■	■	■
Lhasa Wastewater Treatment Plant Phase II, Tibet, China	130,000	■	■	■	■	■	■	■	■	■	■	■	■
Yantian Wastewater Treatment Plant, Guangdong, China	120,000	■	■	■	■	■	■	■	■	■	■	■	■
Tangxun Lake Wastewater Treatment Plant Phase III and Phase IV, Hubei, China	100,000	■	■	■	■	■	■	■	■	■	■	■	■
Buji Wastewater Treatment Plant Phase III, Guangdong, China	100,000	■	■	■	■	■	■	■	■	■	■	■	■
Gongming Wastewater Treatment Plant Phase I, Guangdong, China	100,000	■	■	■	■	■	■	■	■	■	■	■	■
Xinkaiju Wastewater Treatment Plant Phase II, Hunan, China	95,000	■	■	■	■	■	■	■	■	■	■	■	■
Baisha Wastewater Treatment Plant Phase II, Guangxi, China	80,000	■	■	■	■	■	■	■	■	■	■	■	■
Chengdong (Huanghua) Wastewater Treatment Plant, Hunan, China	70,000	■	■	■	■	■	■	■	■	■	■	■	■
Science City LG Wastewater Treatment Plant Phase III, Guangdong, China	60,000	■	■	■	■	■	■	■	■	■	■	■	■
Cheung Chau Sewage Treatment Works, Hong Kong SAR	9,800	■	■	■	■	■	■	■	■	■	■	■	■
Yung Shue Wan Sewage Treatment Works, Hong Kong SAR	8,550	■	■	■	■	■	■	■	■	■	■	■	■
San Shek Wan Sewage Treatment Works, Hong Kong SAR	5,800	■	■	■	■	■	■	■	■	■	■	■	■
Sok Kwu Wan Sewage Treatment Works, Hong Kong SAR	4,290	■	■	■	■	■	■	■	■	■	■	■	■
Tai Po Hong Lok Yuen Sewage Treatment Works, Hong Kong SAR	3,000	■	■	■	■	■	■	■	■	■	■	■	■
Solid Waste Handling and Treatment													
Project Name	Treatment Capacity (t/d)	SCOPE OF SUPPLY					TYPE						
		Design	Procurement	Installation	T&C	Operation and/or Maintenance	Sludge Treatment	Food Waste	Sorting	ARCS (for Municipal Waste)			
Baoding Sewage Treatment Plant – Sludge Treatment, Hebei, China	300	■	■	■	■	■	■	■	■	■			
Liuzhou Sewage Treatment Plant – Sludge Treatment, Guangxi, China	300	■	■	■	■	■	■	■	■	■			
Organic Resources Recovery Centre Phase 1 (O-PARK1), Hong Kong SAR	200	■	■	■	■	■	■	■	■	■			
Food Waste Pre-treatment Facilities at Sha Tin Sewage Treatment Works, Hong Kong SAR	50	■	■	■	■	■	■	■	■	■			
Food Waste Pre-treatment Facilities for Food Waste/Sewage Sludge Anaerobic Co-digestion Trial Scheme, Hong Kong SAR	50	■	■	■	■	■	■	■	■	■			
Hong Kong Housing Authority Eastern Harbour Crossing Development Phase I, Automated Refuse Collection System, Hong Kong SAR	7.8	■	■	■	■	■	■	■	■	■			
Kowloon Bay Pilot Composting Plant at Kowloon Bay Waste Recycling Centre, Hong Kong SAR	4	■	■	■	■	■	■	■	■	■			
Weihei Sludge Advanced Treatment, Shandong, China	N/A	■	■	■	■	■	■	■	■	■			
Stonecutters Island Sewage Treatment Works – Sludge Handling and Disposal Facility, Hong Kong SAR	N/A	■	■	■	■	■	■	■	■	■			
Artificial Intelligence (AI) Robotic Waste Sorter System at Hong Kong International Airport, Hong Kong SAR	N/A	■	■	■	■	■	■	■	■	■			
Kwai Chung Estate Redevelopment Automated Refuse Collection System, Hong Kong SAR	N/A	■	■	■	■	■	■	■	■	■			
Shek Yam East Estate Automated Refuse Collection System, Hong Kong SAR	N/A	■	■	■	■	■	■	■	■	■			
Tin Yat Estate Automated Refuse Collection System, Hong Kong SAR	N/A	■	■	■	■	■	■	■	■	■			
Yau Lai Estate Automated Refuse Collection System, Hong Kong SAR	N/A	■	■	■	■	■	■	■	■	■			

NOTES:
● SCADA – Supervisory Control And Data Acquisition ● CEPT – Chemically Enhanced Primary Treatment ● ARCS – Automated Refuse Collection System



ATAL Engineering Group
安乐工程集团

ATAL ENGINEERING GROUP

ATAL Tower
45-51 Kwok Shui Road
Kwai Chung
New Territories
Hong Kong SAR
Tel: +852 2561 8278
Fax: +852 2565 7638
Email: info.env@atal.com



ATAL Website



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ATAL YouTube



Catalogue

www.atal.com

