# JEC magazine

**AUG 2018 ISSUE 41** 



Transforming JEC: The Future is Now

### CONTENTS 目錄

JEC MAGAZINE ISSUE 4°

P.3 CEO's Message 行政總裁的話

(P.4

Feature Story 特寫

Transforming JEC: The Future is Now 怡和機器轉變求新——掌握現在 創領未來

P.9

News 簡訊

JEC Speaker Luncheon 2018 2018 年度怡和機器客户及業務夥伴午宴

JEC Wins EdUHK Operation & Routine Maintenance Contract 怡和機器獲得香港教育大學設施運作及例行保養合約

P.10

Environmental, Health & Safety 環境、健康與安全

JEC Environment, Health and Safety Week 2018 怡和機器2018環保、健康及安全周

P.12 News 簡訊

JEC Thailand Secures The ESSE Sukhumvit 36 Project 泰國怡和機器獲The ESSE Sukhumvit 36 項目合約

JEC Thailand Provides E&M Systems to Microchip Technology Factory 泰國怡和機器為Microchip Technology 廠房安裝機電系統











JDI Obtains New Business Contract from Wilcon Depot
JDI 獲得Wilcon Depot 新業務合約

TPL Recognised by Singapore Green Building Council TPL獲新加坡綠色建築委員會認證

JEC Garners AAHK Corporate Safety Performance Award 怡和機器獲機管局企業安全表現大獎

JEC Apprentice Triumphs in WorldSkills Hong Kong Competition 2018 怡和機器學徒勝出 香港青年技能大賽2018

JEC 2016 Management Trainee Graduation 怡和機器2016年度管理培訓生畢業

JEC Chief Executive Kevin O'Brien Elected as Board and ExCom Member of BEC 怡和機器行政總裁歐嘉榮獲選 為商界環保協會董事局兼執行委員會成員

P.16 Community Care 關懷社區

Day trip to Nature's Harvest Organic Farm 清新地有機悠閒莊園一天遊

P.16 Major Contracts Listing 工程合約



CEO'S MESSAGE 行政總裁的話

Transformation has become a watchword for many organisations in this digital age. To remain agile in the competitive environment, transformation nowadays has a broader meaning and very often, innovation comes into play – it is about survival and seeking out new ways of doing things to improve our performance, to bring new products and solutions to our customers. This involves structuring our systems to enable information to be easily retrieved as well as streamlining existing workflows and introducing further automation for ourselves and our customers.

The feature story of this issue introduces some of the initiatives that are currently happening in JEC, changing the way we work and improving the services we provide to our customers. Transformation is a continuous process and I see endless potential for the JEC team to create a smarter community for everyone.

I hope you enjoy reading this issue of the JEC magazine.

在這個數碼新時代,不少企業都對「變革」趨之若鶩。要在現今競爭激烈的環境中,保持靈活應變,企業需要尋求更多元化的轉變,往往也講求創新——這關乎到企業能否繼續在市場立足,並引入新方法營運、提升業績表現,以及為客戶帶來新產品和解決方案。要達到以上目標,就需要整合現有系統,令資訊更容易讀取,同時簡化工作流程,為公司和客戶進一步引入自動化技術。

今期的特寫故事介紹了一些正在怡和機器推行的措施,以及它們如何改變我們的工作方式,從而改進為客戶提供的服務。轉變是一個持續的過程,我相信怡和機器團隊潛能無限,能為創建智能社區作出貢獻。

希望大家喜歡今期的怡和機器雜誌。

Kevin O'Brien 歐嘉榮

#### Feature Story 特寫



怡和機器轉變求新─ 掌握現在 創領未來

s a leading Asian engineering business,
JEC is ever-growing and evolving on the back of
a strong history through constant transformation over the years. Digitalisation and
disruptive technology have brought JEC to another wave of change. In order to stay ahead
of the game, JEC is adopting innovative technologies to its businesses both internally and
externally.

和機器多年來憑藉不斷求變、在穩固的基礎上持續成長和發展的精神,堅守亞洲區的業界領導地位。近年來,數碼化及顛覆性科技的發展浪潮,為怡和機器帶來了另一波轉變,將創新科技應用於內部及對外的日常營運之中,讓集團走得更遠。



#### **Transformation Starts with the Mind** 轉變由思維開始

The key to successful business transformation lies in a fundamental change of culture. Everyone needs to play a proactive role through collaboration and a mindset that wishes to reinvent themselves for the better. While JEC has been working out its strategic planning across all time horizons including short, medium and long term, the primary focus is about laying the digital foundations and sowing the seeds within the company, provoking staff to think about what the future could look like for them and for their customers.

'Our younger generation have a better grasp of the impact we have on the environment in which we live as it has been part of their education,' says Kevin O'Brien, Chief Executive of JEC. 'As these youngsters come into the workforce, we need to listen to them and let them help us think smarter about how we innovate as a business for both ourselves and our customers; for the economy and the environment.'

To this end, the Innovation Circle was established earlier this year to drive cultural shift. Consisting of young JEC-ers from different business units in Hong Kong, the group meets regularly to brainstorm, explore ideas and discuss areas where change can occur. Ambrose Wong, leader of the Innovation Circle and Manager - Business Transformation, believes that the willingness to embrace positive change, receptivity to new ideas and the boldness to put them to the test are the keys to JEC's continued success. As another Circle member and Manager of Maintenance & Renovation Philip Ko puts it, 'Innovation very often comes from operational and front-line staff - the ones who are in touch with the latest business trends and thinking, who at the same time possess the right skills and hands-on experience to suggest how we can do better.' His view is backed up by 2017 Management Trainee and fellow Circle member Christy Hui, who says that the key to getting colleagues to accept innovation is to engage with them and present change at the level of their needs, by, for example, suggesting alternatives for time-consuming procedures such as the manual input of timesheet data, or adopting technology to improve health and safety on site. 'I relish the opportunity to formulate creative proposals based on the practices and thoughts of frontline staff, 'says Bonnie Liao, Engineer of Electrical and Mechanical Contracting and Circle member.

企業要成功轉型,關鍵在於其文化上的根本改 變。這有賴每位員工透過緊密協作和改變思維 方式,積極向前。為此,怡和機器著手實踐一 連串短、中、長期的策略性規劃,並以推動數 碼化發展為著眼點,啟發員工從自身及客戶角 度,思考未來所需。

怡和機器行政總裁歐嘉榮表示: 「年輕一代對我 們在生活環境的影響,有更透徹的掌握,因為 這是他們教育的一部分。當這些年輕人投身社 會工作時,我們需要聆聽他們的意見,可有助 我們更精準地思考,如何為業務、客戶,以至 經濟和環境作出變革。」

為此,怡和機器於今年年初成立創新小組,推 動文化轉變。該小組由香港各業務部門的年 輕員工代表組成,並定期會面,集思廣益,探 討和研究需要轉變的領域。創新小組領袖、 Business Transformation經理黃彥相信,對正 面轉變持開放態度、接受新想法及勇於作出試 驗,是集團的長遠致勝關鍵。正如另一位小組 成員,保養及維修部經理高星朗所言:「創新 的點子很多時來自前線營運的員工,因為他們 最能緊貼行業新趨勢和想法,亦具備足夠的知 識及實戰經驗,給予合適的改善建議。」2017 年管理培訓生和小組成員許仲忻便印證了他的 觀點,她表示,讓同事接受創新的關鍵是多與 他們溝通,因應其需要提出改變,例如為填寫 時間表等一些需時的程序,提出替代方案;或 善用科技工具,改善工地的健康和安全狀況。 「我很高興有機會透過了解前線同事的做事方 式及想法,提出創新方案。」另一小組成員、 機電合約工程部工程師廖雯雯道。



The Innovation Circle made visits to stay abreast of new technology trend in the market. 創新小組走出辦公室,觀摩市場最新科技發展。

#### Feature Story 特寫



#### Digital Transformation in Action 實踐數碼轉變

Ever-evolving innovative technology and customer expectations mean that organisations must adapt quickly to stay competitive. Agility has become essential to cope with the changes. JEC has been streamlining and digitising business workflows to bring better efficiency to its operations. Initiatives such as the use of the mobile apps J-Easy and J-Toolbox helps keep JEC staff connected at all times in all places. The J-Easy App is a platform for receiving first-

hand JEC company updates and for facilitating instant communication among staff. The J-Toolbox App offers practical functions including easy-to-use engineering calculators and a report generator that facilitates work outside the office.



▲ J-Toolbox App J-Toolbox手機應用程式

The digital job dispatching

tool for technician deployment illustrates how technology can be a turnkey solution for all. The tool enables supervisors and frontline technicians to assign and receive jobs, clock-in and clock-out, and update status of work via a mobile app rather than on paper, while helping clients sign-off satisfactory reports upon completion of jobs. Instead of drawing on the experience of supervisors, this handy tool can easily identify available resources to handle a particular type of job at the required time, benefiting staff and customers in ways that allow greater visibility into utilisation and productivity for more effective manpower deployment and sharing across different teams, while in turn improving service quality.

今時今日,企業在日新月異的創新科技及客戶期望不斷提高的環境下,必須具備迅速應變的能力,方可保持競爭力。因此,靈活應變已成為應對變化的必要條件。恰和機器致力於簡化和數碼化工作流程,以提高其營運效率,其中包括開發手機應用程式J-Easy和J-Toolbox,讓員工無論何時何地都能保持聯繫。J-Easy是接收集團第一手資訊,以及讓員工之間可即時通訊的平台。J-Toolbox則內設多種實用功能,包括簡單易用的工程計算機,以及方便在外工作時使用的報告創建平台。

此外,派工管理系統數碼化亦展示了科技如何 為技術員人手編配,提供關鍵的解決方案。它 讓主管及前線技術員透過手機軟件,分配和接 收工作、上班和下班打卡,以及更新工作狀 況;工作完成後,客戶也可在系統上簽署滿意 報告。這套系統擺脫過往需倚靠主管經驗,以 人手協調技術員工作安排的舊有方式,讓人手 資源和時間,更可清晰有效地部署人力資源, 提升效率之餘,亦提高服務質素。



The digital job dispatching tool replaces the old way of assigning jobs on papers. 工作編配電子系統取代了以書寫分派工作的舊有模式。





search



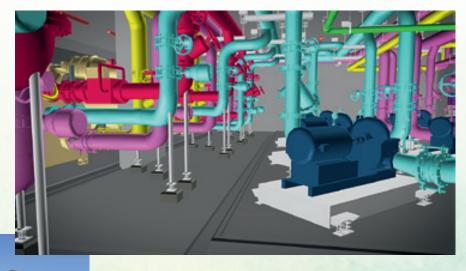
JEC's cloud-based asset management system is a device for tracking tools, equipment and certificates on site, and for alerting to the need for maintenance before it arises. From early 2018, inhouse safety training courses have been run in tandem with this system. Other initiatives includes the launch of an e-Procurement system, where all sourcing of products and relevant processes are centralised for internal and external parties. Innovation Circle member and Assistant Category Manager Arthur Wong, who is involved in the e-Procurement project, credits the Circle with helping him understand current JEC digitalisation initiatives as well as optimise his work for its adoption. 'We are adopting digitalisation in most of our internal processes, such as the e-Procurement system, 'he says,'and are working towards full ordering process digitalisation.'

In terms of technological advancement, JEC leverages the strengths of Building Information Modelling (BIM). JEC Thailand has a well-established team with the expertise to design and execute projects with enhanced accuracy in a cost-effective manner. BIM connects multidisciplinary design teams, while enabling them to track and coordinate the exchange of deliverables. It also tracks field performance through daily construction reports, while creating, assigning and managing issues. Angela Lee, 2017 Management Trainee, understands the enabling conditions for change through her experience in exploring the application of BIM in JEC Hong Kong. 'During internal discussions among our team members,' she says, 'we

focus not just on the benefits of the proposed ideas that we are working on, but also on the difficulties in execution and the possible consequences.' She says that learning to review issues from multiple angles has helped her become a better team player.

另一方面,恰和機器採用雲端資產管理系統, 用於工地追蹤工具、設備和合格證,並在期限 前發出保養提示。集團亦自2018年初起,提 供相關內部安全培訓課程。其他措施包括電子 採購系統,將內部及對外各種產品採購及相 關流程一統化。創新小組成員、助理採購經理 黃恒輝正是有份參與電子採購系統開發的一分 子,他贊同創新小組有助他了解目前集團的 數碼化措施,也能讓他的工作做得更好。他表 示:「我們大部分的內部工序,例如電子採購 系統都走向數碼化,希望可實現訂單流程全面 數碼化。」

在業務操作層面,恰和機器發揮在建築信息模型(BIM)的應用基礎,其中泰國恰和機器豐富的團隊,能夠以高成本效益的方式可領域。由設計和執行項目。BIM能為負責不同領域的設計團隊,追蹤和協調成品調動,並能夠透過每日施工報告跟進實地情況,同時創建、2017年管理培訓生李敏蔚通過探索BIM的應用,設定軍時到集團面對轉變時的所需要的條件。她於到集團面對轉變時的所需要的條件。她於到集團面對轉變時的所需要的條件。如於過失會則與此級員進行討論時,我們不單集中於提案能帶來的好處,也會關注執行上可能遇到,定自己成為一個更善於與團隊合作的人。





ISSUE 41 **JEC MAGAZINE** 

#### Feature Story 特寫



Digital transformation not only changes business workflows; it also brings shifts in work style. Communications have become easier and quicker with the aid of digital tools. A sample is the new JEC Thailand office that incorporates Joy, Engagement, Collaboration & Creativity and Technology.

The office combines the Joy of working in an energetic office environment with the Engagement of utilising the common area for company gatherings and small functions. The Collaboration & Creativity of the flexible working space encourages the free flow of ideas in a no-partition workspace that ensures easy communication. The optimal use of Technology is foundational to daily operations as well as the Command Centre, an operations hub powered by real-time communication via a video camera network that links all site offices with the Thailand head office. The Command Centre provides immediate support wherever it is needed, fostering internal communications and increased work efficiency. The office is also incorporating modern technologies such as biometric office access using face and fingerprint recognition and a virtual reality corner for viewing BIM outputs and exploring possibilities to enhance products and workflows with new technologies.

數碼化不但改變業務流程,亦帶來了工作方式的轉變。受助於數碼工具,溝通變得更容易、更快捷。泰國怡和機器(JECT)結合愉快(Joy)、互動參與(Engagement)、協作與創意(Collaboration & Creativity)及科技(Technology)的新辦事處便是其中一例。



It takes more than just automating processes to truly transform an organisation in this digital era. 'JEC is above all a people business, so we need to develop a business model that is ready for the challenges of both the business environment and the global environment in the 21<sup>st</sup> century,' Kevin O'Brien notes. Foundational to this is a cultural change across the organisation that constantly challenges the status quo and goes the extra mile towards sustainable development for generations to come.

在這個數碼時代,要為企業帶來真正改變,不能只講求流程自動化。正如歐嘉榮所言:「怡和機器是以人為本的企業,是以我們需要建立一套新業務模式,應對21世紀營商及全球環境下的多重挑戰。」當中最重要的,就是企業文化轉變,做到敢於挑戰現狀,為未來世代的可持續發展,作出不懈努力。





#### **JEC Speaker Luncheon 2018** 2018 年度怡和機器客户及業務夥伴午宴



he annual JEC Speaker Luncheon was held on 6<sup>th</sup> July at The Excelsior, Hong Kong. Graced by an audience mix of management from the industry, public and commercial sectors, our guest speaker Alfred Sit, Director of Electrical and Mechanical Services, shared his insights and the latest development on the theme Cultivating Innovation for Smarter Hong Kong.



和機器於7月6日假香港怡東酒店 舉行本年度客戶及業務夥伴午 宴,邀得機電工程署署長薛永恒 為主講嘉賓,與在場的政商界及業界管理 層,分享香港創新科技和智能城市的發展 及前瞻。



### **JEC Wins EdUHK Operation & Routine Maintenance Contract** 怡和機器獲得香港教育大學設施運作及例行保養合約

EC has been awarded a 24-month contract by The Education University of Hong Kong (EdUHK) for operation and routine maintenance in its Tai Po Campus, Pak Shek Kok Sports Centre and Tseung Kwan O Study Centre. The scope covers daily operation, routine maintenance, repair works and emergency call-out services for HVAC system and other building services systems on 24-hour basis.

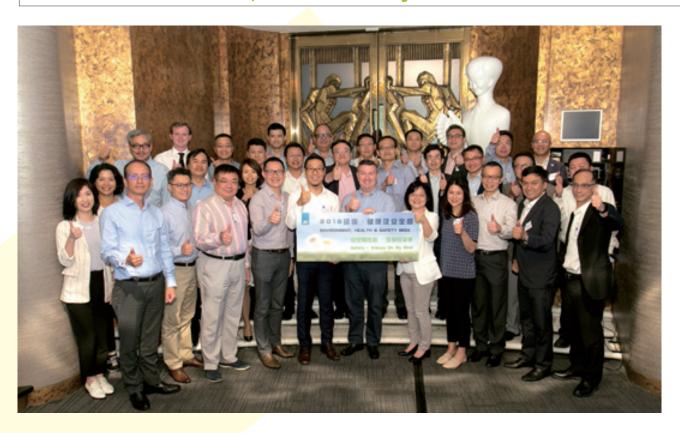
The contract will end in May 2020.

和機器獲得香港教育大學的合約,為 其大埔校舍、白石角運動中心和將軍澳 ■ 教學中心提供設施運作及例行保養服 務,為期24個月。服務範圍包括日常操作、例 行保養、維修,以及有關暖通空調和其他屋宇 裝備系統的24小時緊急支援服務。

合約期將於2020年5月屆滿。



#### Environmental, Health & Safety 環境、健康與安全



# JEC Environment, Health and Safety Week 2018

### 怡和機器2018環保、健康及安全周

ver 1,600 colleagues, field staff and guests participated in this year's Environment, Health and Safety Week held during 9<sup>th</sup> to 14<sup>th</sup> July across Hong Kong and regional offices. Riding on the theme Safety Mindset and Awareness, a range of activities including management workshop, project site visit, subcontractor forum, health-check, exhibition, workshop, movie making contest and sharing session were organised to reinforce the culture "SAFETY: Always On My Mind", promoting the importance of workplace health and safety as well as environmental protection.

年的環保、健康及安全周已於7月9至14 日在香港及各區域辦事處舉行,共有逾 1,600名同事、前線員工及嘉賓參與。集 團以加強安全意識為主題,籌辦一系列活動,包 括管理層工作坊、工地探訪、分判商論壇、健康 檢查、展覽、工作坊、電影製作比賽及分享會, 宣揚「安全常在心、生命在你手」的訊息,以及 工作環境健康、安全及環保的重要性。

#### Management Workshop 管理層工作坊





#### Management Project Site Visit 管理層工地探訪





# Subcontractor Meeting & Safety Equipment Exhibition 分判商聚會及安全用品展覽







Workshop 工作坊







## JEC Thailand Provides E&M Systems to Microchip Technology Factory

#### 泰國怡和機器為Microchip Technology 廠房安裝機電系統

EC Thailand was awarded a contract for supply, installation, testing and commissioning of air-conditioning, clean dry air compressor, nitrogen gas utility, vacuum, fire protection and electrical systems for the Phase IV building of Microchip Technology (Thailand) Co Ltd in Chachoengsao Province, Bangkok with a total area over 9,000 sqm. The work area covered office space, meeting rooms and production area designed for ISO Class 100k Cleanroom on two floors of the factory. The project was completed in June 2018.

Microchip Technology is a leading provider of microcontroller and analog semiconductors, offering total turnkey solutions for diverse customer applications worldwide.



泰

國怡和機器早前獲得Microchip Technology (Thailand) Co Ltd之合約,為其第四期廠房大樓供應、安裝、測試和調試空調、氣壓淨化、氮氣裝置、吸塵、消防及電氣系統。該項目位於曼谷北柳府,佔地超過9,000平方米,工程範圍包括廠房其中兩層辦公室、會議室以及符合十萬級無塵室標準的生產區,並已於今年6月完成。

Microchip Technology 是微控制器及模擬半導體的領導供應商,為世界各地客戶提供一站式解決方案。



### **JDI Obtains New Business Contract from Wilcon Depot** JDI 獲得Wilcon Depot 新業務合約

ardine Distribution Inc. (JDI) received another big boost being chosen again by Wilcon Depot - one of the fastest growing home improvement and construction supply retailers in The Philippines.

Currently providing a range of products and services to Wilcon Depot's 12 newest branches across the country, JDI secured another contract in providing soil treatment services to the Depot's 6 new store sites with a combined area of 120,000 sqm. The relevant work has commenced in July.

ardine Distribution Inc. (JDI) 再度獲得菲律賓 其中一間發展迅速的美化家居及建築產品零售商 Wilcon Depot選用其產品及服務,為業務注入新 動力。



JDI早前已為Wilcon Depot旗下12間遍佈全國各地的新分店提供產品和服務,如今再下一城,獲店方委託,為6間總面積 合共120,000平方米的新店地盤提供土壤處理服務,有關工程亦已於7月展開。



#### **TPL Recognised by Singapore Green Building Council** TPL獲新加坡綠色建築委員會認證

hermal Pte Ltd (TPL), a subsidiary of JEC Singapore was certified by the Singapore Green Building Council as a Chiller Plant Retrofitter with L4 grading under the Energy Performance Contracting category of the Green Building Services Certification Scheme. The certification recognises that TPL is capable of carrying out chiller plant retrofit works with a performance guarantee at the highest level.

The Certification Scheme is the first of its kind in Singapore and aims to promote best practices to support environmental sustainability among service firms in the industry.

加坡怡和機器旗下Thermal Pte Ltd(TPL)榮獲新加坡綠色建築委員會之 綠色建築服務認證,獲認可為能源效益達至最高級別的第四級的製冷機 房翻新工程承辦商,表示TPL提供的翻新工程可為客戶的製冷機房發揮最

高能源效益。







## JEC Garners AAHK Corporate Safety Performance Award 怡和機器獲機管局企業安全表現大獎

Performance Award under the Airport Safety Recognition Scheme by the Airport Authority Hong Kong (AAHK) in April. To foster a safety culture for the airport community and heighten their safety awareness, the annual award aims at recognising organisations that achieve safety targets and deliver sustainable safety performance.

和機器於4月獲得香港機場管理局(機管局)舉辦的機場安全嘉許計劃之企業安全表現大獎。此每年一度的嘉許計劃旨在推廣安全工作文化,提高於機場作業之人員的安全意識,並表揚達到安全目標及持續有良好安全表現的機構。



▲ C K Tam (left), Managing Director of Electrical and Mechanical Contracting receives the award on behalf of JEC.

怡和機器機電合約工程部董事總經理譚俊傑(左)代表公司接受獎項。



## JEC Apprentice Triumphs in WorldSkills Hong Kong Competition 2018

#### 怡和機器學徒勝出香港青年技能大賽2018

ung Ho San, a Craft Apprentice from Maintenance and Renovation team of JEC, was selected as one of the top 3 winners in the Refrigeration and Air Conditioning category of WorldSkills Hong Kong Competition 2018 in June.

Co-organised by Vocational Training Council, the Construction Industry Council, the Clothing Industry Training Authority

and elites from industries, the competition is a biennial event which provides a platform for young people to excel in their vocational skills, strive for professionalism and make contribution to the society.

十十 恰和機器保養及維修部冷氣學徒龔浩新,於6月舉行的香港青年技能大賽2018空調製冷組別中脱穎而出,成為三位優勝者之一。

由職業訓練局、建造業議會、製衣 業訓練局及業界精英合辦,兩年一 度的香港青年技能大賽為年青技術 人員提供切磋職業技能、發揮專業 精神及貢獻社會的平台。





### **JEC 2016 Management Trainee Graduation** 怡和機器2016年度管理培訓生畢業

he 2016 Management Trainees had recently completed their 2-year training programme. To commemorate the occasion, a graduation ceremony was held on 12th July with the presence of senior management, their engineering supervisors and tutors, during which the 7 graduates shared and reflected on the journey they have been through as they are starting a new chapter at JEC.

和機器於7月12日為2016年度管 們完成為期兩年的培訓計劃,一 眾管理層、培訓生的工程主管和導師均有 出席。7位畢業生在典禮上,分享了箇中 歷程及獲得的寶貴經驗,為踏入下一階段 的事業發展作好準備。





#### JEC Chief Executive Kevin O'Brien Elected as Board and **ExCom Member of BEC**

#### 怡和機器行政總裁歐嘉榮獲選為商界環保協會董事局兼 執行委員會成員

evin O'Brien (3<sup>rd</sup> from right, back row), Chief Executive of JEC was elected as the Board Director of Business Environment Council (BEC) for a two-year term from 2018 to 2020 in April. He was also elected among the Board as an Executive Committee member (ExCom) to provide strategic direction to BEC.

Representing the Jardine Matheson Group, JEC has been the founding member of BEC since 1992 in an effort to promoting environmental excellence.

和機器行政總裁歐嘉榮 (後排右三)於4月獲 選為商界環保協會2018 至2020年董事局成員。他同時獲 局內成員推選出任執行委員會成 員,參與協會發展策略事務。

怡和機器自1992年起以協會創會 成員身份,代表怡和集團為推動 香港環保卓越作出貢獻。



#### Community Care 關懷社區

## Day trip to Nature's Harvest Organic Farm

#### 清新地有機悠閒莊園一天遊

n 23<sup>rd</sup> June, the JEC Caring Team engaged children from the Hong Kong Children and Youth Services to Nature's Harvest in Pak Shui Wun, Sai Kung for a one-day tour. The group spent a fun-filled day joining different workshops including plant potting, noodles making and scone baking.

月23日,怡和機器愛心大使率領來自香港青少年服務處的小朋友,遊覽西貢白水碗清新地有機悠閒莊園,參與園內各項工作坊,親手製作盆栽,並一嚐手製冷麵和英式鬆餅的滋味。





#### Major Contracts Listing 工程合約

Hong Kong	
Project (Location)	Scope of Work
45-47 Pottinger Street, 1-5 Tun Wo Lane & 4-7 Ezra's Lane, Central	Supply of ironmongery
Castle Peak Power Station	Air-conditioning system enhancement
	Chilled water system enhancement
Cathay Pacific Catering Services Ltd	Maintenance services for HVAC plant
Central Police Station	Supply of ironmongery
Central-Wanchai Bypass Tunnel Building	Supply and installation of metal door, glass door, ironmongery and raised flooring
Centre of Excellence in Paediatrics	Design, supply and installation of building maintenance unit and pneumatic tube
	Supply and installation of diesel genset system
	Supply and installation of ELV systems and fire services system
	Supply and installation of automatic door system and raised floor systems
	Supply of central battery system
	Supply of LED exit sign
Chater House	Tollet renovation electrical works nominated sub-contract
China Resources Headquarters	Supply and installation of diesel genset system
City One Shatin	Supply of LED lightings
Commercial Development at 704-730 King's Road, Quarry Bay	Supply of pumps and valves
Commercial Development at 8-10 Wong Chuk Hang Road,	Supply of pumps and valves
Wong Chuk Hang	Supply of pullips and valves
Commercial Development at Tung Chung Town Lot 11	Supply and assembly of cooling tower
Data Centre at Ta Chuen Ping Street, Kwai Chung	Supply of valves
Equinix HK5-II	Supply of valves
	Electrical installation of power supply upgrade works
Exchange Square	FSID work and associated MVAC work
	Installation of segregation of HV supply for HV chillers
	Public area renovation at Central, Hong Kong Circulation, 3/F lobbies and Rotunda, and 4/F restaurant balcony
	(One and Two Exchange Square)
	Lift lobbies and FS renovation (One and Two Exchange Square)
	Supply of aluminium ceiling (45/F, One and Two Exchange Square)
	Re-steaking and associated renovation electrical works nominated sub-contract (Hongkong Land Head Office)
Fanling Police Tactical Unit	Improvement works on air-conditioning systems
FEHD Sai Yee Street Environmental Hygiene Offices-cum-Vehicle	Building maintenance unit for depot reprovisioning
Depot	
Fortune Pharmaceutical New Factory Development	Supply of central battery system and valves
	Supply and installation of pneumatic tube system
Gateway Phase 4	Supply and installation of timber door
Grade A Office Development at 348 Kwun Tong Road, Kwun Tong	Supply and installation of raised floor
Grandtech Centre	Supply and installation of LED high-bay and LED tubes
HACTL	FS maintenance contract on dry fire
Hang Seng Bank Head Office Building	Supply and installation of stairlift
Haven of Hope Hospital	Supply and installation of diesel genset system
	Supply and installation of patient hoist
	Installation of mechanical handling and lifting system
Heung Yip Road Hotel	Supply and installation of linen chute
HKEx Data Centre	Term maintenance contract of MEP installations

### Major Contracts Listing 工程合約

Home Ownership Scheme Development at Sha Tsui Road, Ex-Tai Wo Hau Factory Estate, and Ching Hong Road, Tsing Yi Hong Kong Airlines Aviation Centre	Supply and installation of PV system, smart metering system and information display system  Supply and installation of lifting appliance
Hong Kong Electric	Supply and commissioning of mobile gas turbine genset
Hong Kong International Airport	Design, supply and replacement of programmable logic controllers and associated input/output modules for baggage
	handling system (Phase 2) Design, supply, installation, testing and commissioning of baggage handling system for arrival bags delivery and early bags storage (Terminal 1) Supply and installation of diesel genset system
	Supply of static VAR generator for sortation systems of baggage handling system Supply of Flamebar fire resistant ductwork
	Maintenance, improvement and refurbishment works for E&M systems at Midfield Concourse and North Satellite
	Concourse Maintenance, improvement and refurbishment works for baggage trolley mechanical recirculation systems Maintenance services for automatic sortation and conveyor systems of baggage handling system Replacement of door mechanism for automatic sliding doors (Terminal 1) Replacement of emergency stop pushbuttons in baggage handling system (Terminal 1)
Hong Kong Museum of Art	Supply of timber door
Hong Kong Ocean Park	Supply of valves Water filtration system (Tai Shue Wan Water World Project) Gas absorption chiller and gas condensing boiler (Tai Shue Wan Water World Project)
Hong Kong Ocean Park Marriott Hotel	Aquarium and all associated works, and supply and installation of swimming pool filtration system
Hong Kong-Zhuhai-Macao - Hong Kong Boundary Crossing Facilities Vehicle Clearance Plazas and Ancillary Building and	Supply of cooling tower, pumps and valves Supply and installation of diesel genset system and PV panel Supply of ironmongery
Facilities Hong Kong-Zhuhai-Macao Bridge	Supply and installation of aluminum baffle ceiling
Tong tong Eland metao Ellogo	Supply and installation of dock leveler and weighbridge Supply and installation of lifting appliances at road section between Scenic Hill and Hong Kong Boundary Crossing Facilities Supply and installation of raised floor and carpets
	Supply and installation of smoke curtain Supply of central battery system Supply of ironmongery for PCB façade package
Hotel Development at 103-105 Tung Chau Street, Tai Kok Tsui	Supply of ironmongery
I Tech Data Centre (Phase 2) Jubilee Garden	Supply and installation of diesel genset system Supply and installation of LED lightings
Kai Tak Nullah Reconstruction and Upgrading	Supply and installation of stoplogs
Kerry Hotel KLB Centre, Kowloon Bay	Supply and installation of Exterpark outdoor decking Supply and installation of diesel genset system
Kwai Chung Hospital (Phase 1)	Supply and installation of timber door
Lai Chi Kok Park Swimming Pool Lamma Power Station	Replacement of boilers and associated pipework system  Installation of mechanical ventilation and air-conditioning for extension civil and building work for Unit L10
Landmark	FSID work and associated MVAC work
Liantang / Heung Yuen Wai Boundary Control Point Building	MVAC and electrical work for toilet renovation  Design, supply and installation of building maintenance unit for building and associated facilities
Liantary / redny ruen war boundary Control Foint Building	Design, supply and installation of sewage treatment plant Supply and installation of diesel genset system Supply of central battery system, ironmongery, cooling tower, centrifugal separator, and automatic tube cleaning system
	Supply of VRF air-conditioning system and D.O. system Supply of Flamebar fire resistant ductwork
Mannings & Wellcome Supermarket Mass Transit Railway Corporation	MVAC repair and maintenance services for various stores in HK, Kowloon and NT Design, supply and installation of electrical works, fire services, pumps and drains, swimming pool filtration system and supply of ironmongery for the reprovision of Harbour Road Sports Centre and Wan Chai Swimming Pool Design, supply and installation of swimming pool water treatment plant at Police Officers Club Supply and installation of access cover for South Island Line (East) Supply and installation of CCTV for Hung Shui Kiu bus depot Supply and installation of CCTV for Nam Cheong station Supply and installation of LED lighting at Sorrento and Harbourside, Kowloon Station Supply and installation of lifting appliance for Ho Tung Lau Depot Supply and installation of otdoor timber at 810A West Kowloon Terminus Station North Supply and installation of smoke curtain for Siu Hong and Long Ping stations Supply and installation of steel doors and frames for Shatin-Central Link Supply and installation of wheelset balancing machine at Pat Heung Depot Supply and replacement of LED lighting for Seaview Crescent Supply of cooling tower for Diamond Hill station Supply of cooling tower for Diamond Hill station Supply of Flamebar fire resistant ductwork at Ma Tau Wai station and ancillary building Supply of Flamebar fire resistant ductwork for Express Rail Link Supply of Flamebar fire resistant ductwork for Express Rail Link Supply of pumps and valves for Contract K1847-16E Building management system installation and modification for East Rail Line station control room in Tai Wo, Fanling and Sheung Shui stations Upgrading works on electrical and wiring for Octopus barrier system at Elements carpark Mobile lifting jack in Pat Heung Depot Modification works of train wash plant at Ho Tung Lau Depot Refurbishment of rail track lifting hoist control system in Ho Tung Lau Depot Refurbishment of rail track lifting hoist control system in Ho Tung Lau Depot
	Building services for Admiralty South Overrun Tunnel Floodgate system for Shatin-Central Link (Phase 2)
Mui Wo Sewage Treatment Works	Supply and installation of the lifting appliances
Murray Building Hotel Development	Supply and installation of diesel genset system Supply and installation of filtration system for indoor swimming pool
New Shun Hing Centre New Territories West Regional Office & Water Resources Education Centre, Water Supplies Department	Supply and installation of building maintenance unit Supply and installation of timber door
New World Centre	Supply and installation of IPC wall protection Supply and installation of outdoor timber decking at podium and tower Supply and installation of smoke curtain Supply and installation of vertical platform Supply of valves fire pumps. Flamphar fire resistant ductwork
Ngau Tam Mei Animal Waste Composting Plant Office Development at 1 Hennessy Road, Wanchai	Supply of valves, fire pumps, Flamebar fire resistant ductwork Improvement, operation and maintenance of animal waste composting plant and collection services Supply and installation of vehicle turntable Supply and installation of genset system Supply of valves, pumps and cooling towers
One and Two Exchange Tower	Supply and installation of smoke cutain
Organic Waste Treatment Facilities (Phase 1) Pacific Place	Supply of absorption chiller and fire hydrant pumps Replacement of high tension chillers

#### Major Contracts Listing 工程合約

Supply and installation of LED lightings Peninsula Centre Prince's Building and Alexandra House
Proposed Commercial Development at Hoi Tan Street, Electrical installation - power supply upgrade works Supply and installation of genset system Sham Shui Po Proposed Office Building at Hoi Bun Road, Kwun Tong Supply and installation of diesel genset system Public Housing Development at North West Kowloon Reclamation Site 6 and Fat Tseung Street West, Cheung Sha Wan Supply and installation of MVAC system Public Rental Housing Development at Choi Yuen Road, Supply and installation of diesel genset system Sheuna Shui Public Rental Housing Development at Fo Tan (Phase 1 & 2) Regus Serviced Office Space Supply and installation of diesel genset system Supply and installation of carpet tiles Supply and installation of swimming pool filtration system Supply and installation of swimming pool filtration system Residential Development at Deep Water Bay Drive Residential Development at Nam Cheong West Rail Station Residential Development at Tai Po Road, Shatin Town Residential Development at Tsuen Wan 5 Bayside Supply and installation of steel door Supply and installation of aluminum ceiling at bathroom & kitchen Supply of Flamebar fire resistant ductwork Supply and installation of timber decking system Residential Development at Oil Street, North Point Sai Kung Hotel Shatin and Sai Kung Sewage Treatment Works and Pumping Supply and installation of linen chute, vertical lifting platform and vehicle turntable Overhaul and testing of E&M equipment of sewage treatment plant and pumping station Station Improvement works on air-conditioning systems
Supply of E&M facilities for further expansion Phase 1A advance works and Ng Chow South Road Sewage Pumping Shek Kip Mei Police Station Shek Wu Hui Sewage Treatment Works Supply of diffuser aeration system and valves Improvement of dewatering plant Sheung Shui Water Treatment Works South China Athletic Association Sports Centre in Area 4 at Chung Mei Road, Tsing Yi Supply and installation of filtration system for training pool Supply and installation of timber door Subsidized Sale Flats Project at Shatin Area 360 Electrical, ELV and MVAC installation nominated sub-contract Tai Po Sewage Treatment Works Modification works for food waste & sewage sludge anaerobic co-digestion pilot trial Supply and installation of building maintenance unit Supply and installation of swimming pool water treatment plant Tai Po Sports Centre Tai Po Water Treatment Works Supply of granular activated carbon Supply of Flamebar fire resistant ductwork, cooling towers, centrifugal separators, pumps and valves Supply and installation of timber door and steel door Taikoo Place 2A Redevelopment Telford Plaza I TGT Data Center at Tseung Kwan O Retrofit of chillers in plant room A Supply and installation of diesel genset system The American Club - Country Club
The Chinese University of Hong Kong Chiller replacement works
Supply and installation of building maintenance unit and pneumatic tube system at medical centre The Education University of Hong Kong
The Former Central Government Office (West Wing) Replacement of PAUs Supply of valves Supply of ironmongery (Freespace) Supply and installation of scissors platform (M+ Museum) The West Kowloon Cultural District Supply and installation of smoke curtain system and diesel genset system (M+ Museum) Supply of ironmongery, pumps and valves and automatic door system (M+ Museum) Supply and installation of steel door and automatic system (Park) Supply of ironmongery (Park)
Supply and installation of timber doors, steel doors and raised floor system (Xiqu Centre) Supply and installation of LED lighting
Supply and installation of LED lighting (Block E-P) Tin Fu Court Tin Shing Court Tin Shui (II), Tin Yan and Tin Yuet Estates Tin Shui Wai Hospital Supply of stainless pump
Design and supply of pumps, air quality products To Kwa Wan Preliminary Treatment Works Tseung Kwan O Heritage Hiking Trail and the Heritage Supply of E&M equipment for detritor no 1 and 2 Supply and installation of stairlift Information Centre Tsuen Wan 5 Bayside, Tsuen Wan West Rail Station Supply of valves Supply and installation of outdoor timber decking Maintenance of E&M installations Tuen Mun Children and Juvenile Home Water Supplies Department Regional Office West Kowloon Government Offices Design, supply and installation of grey water and rainwater recycling plant Design, supply and installation of building maintenance unit Supply and installation of diesel genset system
Supply and installation of raised floor, carpet, timber door, steel door and automatic door system
Supply of central battery system Macau Project (Location) Galaxy Hotel (Phase 3) Supply of valves Galaxy Macau Resort & Casino Supply and installation of swimming pool filtration system Louis XIII Hotel Supply and installation of genset systems and supply of valves Design and supply of painting booth Macau Light Rail Transit

Supply and installation of lifting appliance Design, supply and installation of building maintenance unit and turntable Supply of valves SJM Hotel at Cotai St. Regis, Venetian Macau, Parcel 5B Theme Park Resort Hotel Complex Supply of ironmongery Supply of valves Venetian Cotai (Phase 3) Supply and installation of diesel genset system Supply of ironmongery and sanitaryware

#### Thailand .

#### Project (Location)

Carpark Building of The Mall Bangkae

Chatrium Hotel Pathumwan Chatrium Residence Sathon Goodyear Factory

**ICONSIAM** 

King Power at Suvarnabhumi Airport Le Cordon Bleu Dusit Culinary School

Mass Rapid Transit Authority of Thailand

(MRTA Blue Line: Wat Mangkon station and Sam Yod station) Mass Transit System Project in Bangkok

(Red Line: Don Mueang station, Lak Hok station and Rangsit station) Microchip Technology (Thailand) Factory

Samyan Mitrtown

Shrewsbury International School, City Campus

Siam Takashimaya Department Store

Supply, installation, testing and commissioning of air-conditioning & ventilation system, electrical & communication supply, installation, testing and commissioning of air-conditioning & ventilation system, and fire protection system Supply, installation, testing and commissioning of electrical & communication system and fire protection system Supply, installation, testing and commissioning of process piping system, sanitary & fire protection system and air-

conditioning & ventilation system
Supply and installation of BAS system

Operation and maintenance of air-conditioning & ventilation system and sanitary system Supply, installation, testing and commissioning of air-conditioning & ventilation system, electrical & communication system and sanitary & fire protection system
Supply, installation, testing and commissioning of air-conditioning system and sanitary & fire protection system

Supply, installation, testing and commissioning of air-conditioning & ventilation system

Supply, installation, testing and commissioning of air-conditioning & ventilation system and sanitary & fire protection

Supply, installation, testing and commissioning of electrical system, air-conditioning & ventilation system, utility and fire protection system
Supply, installation, testing and commissioning of piping work of air-conditioning system

Supply, installation, testing and commissioning of air-conditioning & ventilation system, electrical & communication

system and sanitary & fire protection system

Supply, installation, testing and commissioning of mechanical, electrical & plumbing system works
Supply, installation, testing and commissioning of air-conditioning & ventilation system, electrical & communication

system and sanitary & fire protection system

Suvarnabhumi Airport Expansion Project The Esse Sukhumvit 36

Supply, installation, testing and commissioning of sanitary & fire protection system, tunnel ventilation system Supply, installation, testing and commissioning of electrical & communication system, sanitary & fire protection system and air conditioning & ventilation system

#### Singapore

Project (Location)

7-11 Stores 77R Investments Pte Ltd at 77 Robinson Road

AIA Singapore Pte Ltd

Asia Square Tower 1 & 2 at 8 Marina View

Assisi Hospice Avnet Asia Pacific Pte Ltd

Bank of America at Harbourfront Place Boustead Projects - DoJo LLP ("Media Hub" at Ayer Rajah) CBRE c/o State Street Bank

CBRE GWS Holding(s) Pte Ltd

Central Boulevard Development Pte Ltd Changi Cove Pte Ltd at Cranwell Rd CityDev Real Estate at Palais Renaissance

Cycle & Carriage Cycle & Carriage (188 Pandan Loop)

Cycle & Carriage (209 Pandan Garden) Cycle & Carriage (239 Alexandra)

Cycle & Carriage (301 ALexandra)
DBS China Square Ltd (PWC Building)

DCP (Sentosa) Pte Ltd Digo Corporation Pte Ltd

Far East Organisation at Orchard Central Pte Ltd

GBT Global Business Travel Services

Heraues Material Singapore Pte Ltd

HKL Breadtalk

HKL Coffee & Toast

Four Seasons Hotel Singapore

HSBC Institutional Trust Services (Singapore) Limited as

Trustee of MSO Trust @ CapitaGreen Jardine Lloyd Thompson Pte Ltd

JLL - DBS Asia Central/Asia Hub/Asia Gateway

JLL - OUE Bayfront

Keppel Land International Ltd c/o Property Management

Keppel Towers/Tower 2 Liberty International Underwriters

Mandai Crematorium & Columbarium

Marina Bay Business Financial Tower 1 & 2 (RQAM)

MBFC Tower 1 & 2 - BFC

MBFC Tower 1 & 2 and Link Mall MBFC Tower 3 - CBD

MCL Land One Raffles Link

One Raffles Link
One Raffles Quay Pte Ltd
Orchard Boulevard Development

ORO

Overseas Family School

Royal Plaza On Scotts at 25 Scotts Road Royal Plaza On Scotts at 8 Claymore Hill

Servcorp Sg Holdings Pte Ltd Singapore Technologies Electronics Limited (AMK)

ST Electronics Ltd

ST Marine Pte Ltd
ST Microelectronic Pte Ltd (AMK & TPY Sites)

STATSChip Pte Ltd

Suntec City The Food, Drinks and Allied Workers Union THE MCST Plan No. 2278

The Sandwich Shop

Trading Technologies Pte Ltd

United Overseas Bank at Tampines Tower

United Overseas Bank Ltd, Plaza 2 UOL Group Ltd, Odeon Tower

Victorian Property Holding Pte Ltd (Elishan) at Manulife Centre Westin Singapore (Daisho Development S'pore Pte Ltd)

Yongjin Holdings Pte Ltd

Scope of Work

Maintenance of refrigerated cases Air-conditioning preventive maintenance

Air-conditioning preventive maintenance

Air-conditioning preventive maintenance Mechanical and electrical operation services

Mechanical and electrical facility management

Air-conditioning preventive maintenance

Air-conditioning preventive maintenance
Design, installation, testing, commissioning, servicing and maintenance of air-conditioning and mechanical ventilation Supply of E&M service (preventive maintenance / inspections)

Non-comprehensive service and maintenance of washroom facilities for Deutsche Bank premise

Supply of comprehnsive maintenance contract for MBFC T3 irrigation system for 2018

Comprehensive CU & FCU spare parts coverage contract Air-conditioning preventive maintenance

Supply and installation of ACMV

Monthly service for the air-conditioning equipment

Monthly service for the air-conditioning equipment Monthly service for the air-conditioning equipment

Monthly service for the air-conditioning equipment Maintenance of ACMV system and provision of technicians

Air-conditioning preventive maintenance

Air-conditioning preventive maintenance Air-conditioning preventive maintenance

Preventive maintenance for FCU's Fire extinguishers, waste water pumps and water detection systems and electrical

system

Supply of E&M system maintenance

Monthly maintenance for fan coil unit at #B1-42

Monthly maintenance for fan coil unit at #B1-40

Preventive maintenance services

Preventive maintenance services

Non-comprehensive E&M service

Air-conditioning preventive maintenance

Maintenance of ACMV system and provision of technicians Facilities management service for FM-Keppel Towers 1 & 2

E&M facility management

Preventive maintenance for FCU's fire extinguishers, waste water pumps and water detection systems and electrical

system
ACMV maintenance contract

ACMV and plumbing services E&M operation and service

ACMV preventive maintenance and plumbing and sanitary maintenance

E&M operation and service

Server room air-conditioning
Mechanical and electrical facility management

Non-comprehensive maintenance

Design, supply and installation of ACMV and BMS

E&M operation and service Variable refrigerant flow (VRF) preventive maintenance

Air-conditioning comprehensive maintenance Air-conditioning comprehensive maintenance

Non-comprehensive service and maintenance of pantry sump & WLD system

ACMV maintenance

Comprehensive maintenance works for air-conditioning chiller plant and converted air distribution systems

Air-conditioning preventive maintenance Ball tech auto tube system maintenance

Trane chiller preventive maintenance Electrical system maintenance services

Supply of MA services Managing agent

Monthly maintenance for fan coil unit at #01-02
Preventive maintenance for FCU's fire extinguishers, waste water pumps and water detection systems and electrical

system Facilities management services

Preventive maintenance services Preventive maintenance services

Air-conditioning preventive maintenance Air-conditioning preventive maintenance Air-conditioning preventive maintenance

The Philippines

Project (Locatio City of Dreams

Family Mart Foramall

Google Integrated Facilities Management for JLL - IBM and JLL -

Marikina North Sewer Network and Pump Station

Monde On-Semi

Property and Asset Management for various facilities managed by Jones Lang LaSalle

Property Management for Ayala Properties Management Corporation

Putatan Water Treatment Plant 2 Ramada

Rustans Super Center Inc Sewage Treatment Plant in Libingan ng mga Bayani

Shell Philippines

Sonion Manufacturing Plant

Taguig North Sub-Catchment Sewerage Project - Makati South

Sewer Line and Pumping Station

United Laboratories Widus Tower 3

Electrical works for ELV rooms

Comprehensive preventive maintenance and monitoring services

Facilities management Operation and maintenance

Supply and installation of CITEC PACU Operation and maintenance

Design, installation, testing and commissioning of sewage pumping station

Operation and maintenance Operation and maintenance

Operation and maintenance Operation and maintenance

Design, installation, testing and commissioning of water treatment plant

Operation and maintenance

Facilities management

Design and construction of sewage treatment plant facilities

Rehabilitation of living quarter HVAC units

Supply and installation of HVAC units and MEPF Supply, installation, testing and commissioning of sewage pumping station and lift stations

Operation and maintenance

Supply and installation of MVAC system

#### The Jardine Engineering Corporation, Limited

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