

Siemens and CLP sign MoU on smart energy initiatives

- **Collaborate with CLP to explore and develop smart city and next generation energy initiatives**
- **Focus on areas of digitalized power generation, smart city solutions, smart grid applications and cyber security**
- **Jointly design, test and implement services and technologies to meet our future energy demand**

Siemens Limited (Siemens) and CLP Innovation Enterprises Limited, a wholly-owned subsidiary of CLP Holdings Limited (CLP), have signed a Memorandum of Understanding (MoU) to foster collaboration on exploring and developing smart city and next generation energy initiatives.

Like many metropolis globally, Hong Kong faces challenges brought about by the megatrends of climate change, urbanization, globalization and aging demographics. Technology and innovation promise to address these challenges by enhancing the city's infrastructure and systems to improve the quality of living, sustainability, efficiency and safety. In the Hong Kong Smart City Consultation Report, the HKSAR Government outlines six potential themes where these could have positive impacts in Hong Kong such as Smart Mobility, Smart Environment, Smart Economy, Smart Citizen, Smart Living and Smart Government.

SIEMENS

Siemens Limited
10/F, Tower B, Manulife Financial Centre,
223-231 Wai Yip Street, Kwun Tong,
Kowloon, Hong Kong

CLP  **中電**

CLP Holdings Limited
8 Laguna Verde Avenue,
Hung Hom, Kowloon,
Hong Kong

The Siemens and CLP partnership will focus on four key areas, namely digitalized power generation, smart city solutions, smart grid applications and cyber security. Riding on the data analytics and connectivity capabilities offered by Siemens Smart City Digital Hub at Hong Kong Science Park, the two companies will collaborate extensively to design, test and implement services and technologies that can meet our future energy demand in a safe, interactive and holistic view. The collaboration will foster an innovative ecosystem, offering start-ups and infrastructure providers like CLP an environment to create their digital portfolio and develop smart city solutions.

Mr. Cedrik Neike, Member of the Managing Board, Siemens AG, said, "We are very glad to collaborate with CLP, the leading power utility supplier in Asia Pacific. This collaboration realizes our ambition to play a role in Hong Kong's smart city development and ensure its position as a world-class smart city."

Mrs. Betty Yuen, Vice Chairman, CLP Power Hong Kong Limited, said, "Smart city development is a global trend. Digitalization is transforming all aspects of our city and our industry. CLP is committed to being at the forefront of these developments and we believe our collaboration with Siemens will help us to bring in the smartest solutions to our customers."

As Hong Kong's largest electricity supplier, CLP aims to support Hong Kong's transformation into a smart city through providing a reliable, efficient and clean energy supply to its customers. The launch of a one-year pilot scheme early this year, Smart Energy Programme, for smart meters installed in 26,000 homes underlines CLP's efforts to provide a critical element of infrastructure to facilitate the development of a smart grid, encourage smart living and support Hong Kong's smart city vision. CLP also fully supports the Government's Energizing Kowloon East Project and has established a pilot study of a Smart Energy Community.

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CLP Holdings Limited
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Joint Press Release
by Siemens Limited and CLP Holdings Limited

With strong data analytics and connectivity capabilities in Smart City Digital Hub, Siemens and CLP will jointly develop smart city and smart grid solutions to make Hong Kong one of the world's best places to live.



Mr. Eric Chong, President & CEO, Siemens Limited (front row, right) and Mr. Austin Bryan, Senior Director - Innovation, CLP Holdings Limited (front row, left), signed the MoU for cooperation on smart energy initiatives in a ceremony witnessed by Mr. Cedrik Neike, Member of the Managing Board, Siemens AG (back row, right) and Mrs. Betty Yuen, Vice Chairman, CLP Power Hong Kong Limited (back row, left).

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Kowloon, Hong Kong

CLP Holdings Limited
8 Laguna Verde Avenue,
Hung Hom, Kowloon,
Hong Kong

Contact for journalists

Siemens Limited

Defea Chan

Phone: +852 2583-3202 / +852 9039-3353

E-mail: defea.chan@siemens.com

CLP Power Hong Kong Limited

Justine Lau

Phone: +852 2678-8963

E-mail: justine.lau@clp.com.hk

About Siemens

Siemens AG (Berlin and Munich) is a global technology powerhouse that has stood for engineering excellence, innovation, quality, reliability and internationality for more than 165 years. The company is active in more than 200 countries, focusing on the areas of electrification, automation and digitalization. One of the world's largest producers of energy-efficient, resource-saving technologies, Siemens is a leading supplier of efficient power generation and power transmission solutions and a pioneer in infrastructure solutions as well as automation, drive and software solutions for industry. The company is also a leading provider of medical imaging equipment – such as computed tomography and magnetic resonance imaging systems – and a leader in laboratory diagnostics as well as clinical IT. In fiscal 2016, which ended on September 30, 2016, Siemens generated revenue of €79.6 billion and net income of €5.6 billion. At the end of September 2016, the company had around 351,000 employees worldwide.

In 1911, Siemens opened its first sales office in Hong Kong. Since then, the company has committed to be a trusted technology partner and providing innovative solutions in Hong Kong & Macao. Siemens has provided integrated solutions for infrastructure development projects, including power substations for CLP Power in Hong Kong and CEM in Macao; signaling, main control and fixed communication systems for Shatin Central Link; traffic control and surveillance system for Liantang / Heung Yuen Wai Boundary Control Point and total building solutions for City of Dreams in Macao. Further information is available on the Internet at www.siemens.com.

About CLP Group

CLP Holdings Limited, a company listed on the Stock Exchange of Hong Kong, is the holding company for the CLP Group, one of the largest investor-owned power businesses in Asia Pacific. Through CLP Power Hong Kong Limited, it operates a vertically-integrated electricity supply business providing a highly-reliable supply of electricity to 80% of Hong Kong's population.

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Outside Hong Kong, CLP holds investment in the energy sector in Mainland China, India, Southeast Asia, Taiwan and Australia. Its diversified portfolio of generating assets uses a wide range of fuels including coal, gas, nuclear and renewable sources. CLP is one of the largest external investors in the Mainland's renewable energy sector. In India, it is one of the biggest renewable energy producers and among the largest foreign investors in the electricity sector. In Australia, its wholly-owned subsidiary EnergyAustralia is one of the largest integrated energy companies, providing gas and electricity to over 2.6 million households and businesses.

CLP is listed on the Global Dow – a 150-stock index of the world's leading blue-chips, the Dow Jones Sustainability Asia Pacific Index (DJSI Asia Pacific), the Dow Jones Sustainability Asia Pacific 40 Index (DJSI Asia Pacific 40), Hang Seng Corporate Sustainability Index Series and MSCI Global Sustainability Index Series.

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CLP Holdings Limited
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Hung Hom, Kowloon,
Hong Kong

西門子與中電簽署合作備忘錄發展智慧能源方案

- 與中電共同研發新一代智慧城市及智慧能源方案
- 集中在四個主要範疇，分別為數碼化發電系統、智慧城市方案、智能電網應用及網絡安全
- 在服務和科技的設計、測試和推行方面進行更廣泛合作，以迎接我們日趨龐大及複雜的電力需求

西門子有限公司（西門子）及中電控股有限公司（中電）旗下的全資附屬公司CLP Innovation Enterprises Limited 簽署合作備忘錄，協議促進共同研發新一代智慧城市及智慧能源方案。

香港與很多全球大都會一樣正面對著由氣候變化、城市化、全球化及人口老化所帶來的挑戰。透過科技及創意，我們可以優化城市的基建與系統以解決上述問題，從而改善生活質素、促進可持續發展、提升效率及安全。香港特別行政區政府在香港智慧城市藍圖的研究報告中，提出六個具可塑性的發展領域，包括：「智慧出行」、「智慧環境」、「智慧經濟」、「智慧市民」、「智慧生活」、及「智慧政府」。

西門子與中電的合作將集中在四個主要範疇，分別為數碼化發電系統、智慧城市方案、智能電網應用及網絡安全。透過位於香港科學園的西門子智慧城市數碼中心的數據分析及連接功能，兩間公司將可以在服務和科技的設計、測試和推行方面進行更廣泛

SIEMENS

西門子有限公司
香港九龍觀塘偉業街223-231號
宏利金融中心B座10樓

CLP 中電

中電控股有限公司
香港九龍紅磡海逸道8號

合作，以安全、互動以及全面的方式迎接我們日趨龐大及複雜的電力需求。是次合作將有助建立一個創新科技生態系統，為科技初創企業及以中電為例等基建發展商提供平台，創造其數碼化藍圖和智慧城市規劃方案。

西門子股份有限公司管理委員會成員德里克·奈克先生（Mr. Cedrik Neike）表示：

「我們很期待與領導亞太區的電力供應商中電合作，是次合作將展示我們參與香港智慧城市發展，並打造香港成為世界級智慧城市的決心。」

中華電力有限公司副主席阮蘇少湄女士稱：「智慧城市發展是全球趨勢，數碼化正全面改變我們的城市及行業。中電承諾走在智慧城市發展的最前線，並相信是次與西門子的合作將有助我們為顧客帶來最智能的方案。」

作為香港最大的電力供應商，中電希望透過向顧客提供可靠、高效能及清潔能源，以改造香港成為智慧城市。年初，中電推出為期一年的「智醒用電計劃」，為 26,000 個獲邀住宅用戶安裝智能電錶，提供重要建設以發展智能電網、鼓勵智慧生活及支持香港邁向成為智慧城市。中電亦全力支持政府的「起動九龍東」計劃及推出智能社區試驗計劃。

透過智慧城市數碼中心的強大數據分析及連接功能，西門子與中電將合力發展智慧城市及智能電網方案，讓香港成為世界上最適宜居住的城市之一。



西門子有限公司行政總裁鍾漢明先生（前排右）及中電控股有限公司創新高級總監柏恩司先生（前排左），在西門子股份有限公司管理委員會成員德里克·奈克先生（Mr. Cedrik Neike，後排右）及中華電力有限公司副主席阮蘇少湄女士（後排左）及兩公司的管理人員見證下，簽署合作備忘錄，協議共同發展智慧能源。

傳媒聯絡：

陳梓欣小姐
西門子有限公司
電話: +852 2583-3202 / +852 9039-3353
電郵: defea.chan@siemens.com

劉勵和小姐
中華電力有限公司
電話: +852 2678-8963
電郵: justine.lau@clp.com.hk

有關西門子

西門子股份有限公司是領先全球的科技企業，創立於1847年，業務遍及全球200多個國家，專注於電氣化、自動化和數碼化領域。西門子一直以卓越的工程技術、創新、品質、可靠性及國際化著稱。作為世界最大的高效能源和資源運用的技術供應商之一，西門子在複循環發電渦輪機、輸電解決方案、基建設施解決方案、工業自動化、驅動和軟體解決方案，以及醫療影像設備和實驗室診斷等領域居領導地位。截至2016年9月30日，西門子全球擁有約351,000名員工。2016年財政年度，西門子的營業總額達到796億歐元，純利為56億歐元。

1911年，西門子於香港開設首個辦事處。多年來西門子致力成為香港及澳門值得信賴的業務伙伴，為兩地的基建設施提供創新的解決方案，包括：中電及澳電變電站及龍鼓灘發電廠的燃氣輪機；沙中線信號、主控及固定通信系統；蓮塘/香園圍口岸交通及監測系統及新濠天地的樓宇解決方案。欲了解更多資訊請瀏覽：www.siemens.com。

關於中電集團

中電控股有限公司是中電集團的控股公司，在香港聯合交易所上市，是亞太區規模最大的私營電力公司之一。集團透過中華電力有限公司，在香港經營縱向式綜合電力業務，為香港八成市民提供高度可靠的電力供應。

在香港以外，集團於中國內地、印度、東南亞、台灣及澳洲投資能源業務，擁有包括採用煤、天然氣、核電及可再生能源作為燃料的多元發電組合。中電是中國內地其中一家最大的可再生能源外商；在印度，中電是最大的可再生能源發展商之一，也是當地電力行業其中一家最大的外商；在澳洲方面，集團全資擁有的附屬公司EnergyAustralia是當地最大綜合能源公司之一，為逾 260 萬住宅及工商客戶提供天然氣及電力。

中電現躋身道瓊斯全球指數（Global Dow，其 150 隻成份股均為世界領先的藍籌公司）、道瓊斯可持續發展亞太指數（DJSI Asia Pacific）、道瓊斯可持續發展亞太 40 指數（DJSI Asia Pacific 40）、恒生可持續發展企業指數系列以及 MSCI 全球可持續發展指數系列。