

City Digital Twin

Digital Operational Twin@HKSTP 1E&1U Chiller Plant

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Ingenuity for Life

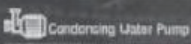
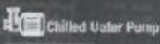
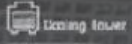
Potential Savings of the Day

Power Consumption Savings:

661 kWh

Electricity Bill Savings:

793 HKD



UCC1 - ON

UCC2 - OFF

UCC3 - OFF

UCC4 - OFF

CT1 - OFF

CT2 - ON

CT3 - OFF

CT4 - OFF

CRP1 - OFF

CRP2 - OFF

CRP3 - ON

CRP4 - OFF

CWP1 - OFF

CWP2 - OFF

CWP3 - OFF

CWP4 - ON

Scheduled Maintenance Activities

15th, Sep 2019	09:00 - 18:00	Water Cooled Chiller - Monthly Maintenance
22nd, Sep 2019	09:00 - 18:00	Heat Pump - Monthly Maintenance
13th, Oct 2019	09:00 - 18:00	Water Cooled Chiller - Monthly Maintenance
20th, Oct 2019	09:00 - 18:00	Heat Pump - Monthly Maintenance
17th, Nov 2019	09:00 - 18:00	Cooling Tower - Bi-Monthly Maintenance
20th, Dec 2019	10:30 - 11:00	Automatic Control System - Quarterly Inspection

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Digital Twin Campus

Customer requirements

- Closed work order system
- Monitor asset performance
- Visualize the campus environment, conditions, and assets for efficient communications

Siemens solution

- Simulation of campus environment with sensor and system integration
- Mobile App On-the-Go to perform office functions

Customer benefits

- Improve occupant comfort and space utilization
- Cost savings on lighting and HVAC
- Enhance productivity when work has to be done remotely



Office



Campus



Industry

Hong Kong

Campus Control Center

Customer requirements

- Cater the increasingly complex operational challenges of campus in building space, energy efficiency and mobility
- Leverage the data campus generated to optimize efficiency

Siemens solution

- Comprehensive monitoring of the available systems by an overarching control center
- Enabling a holistic, real-time campus view with extensive control options
- Integrate and operationalize data with meaningful analysis

Customer benefits

- Accelerate and improve decision making, as well as prevent unexpected malfunctions with data
- Enhance efficiency, amenity, and security of campus life
- Generate insights and optimize the systems that support urban living



Campus



Hospitality



Mobility

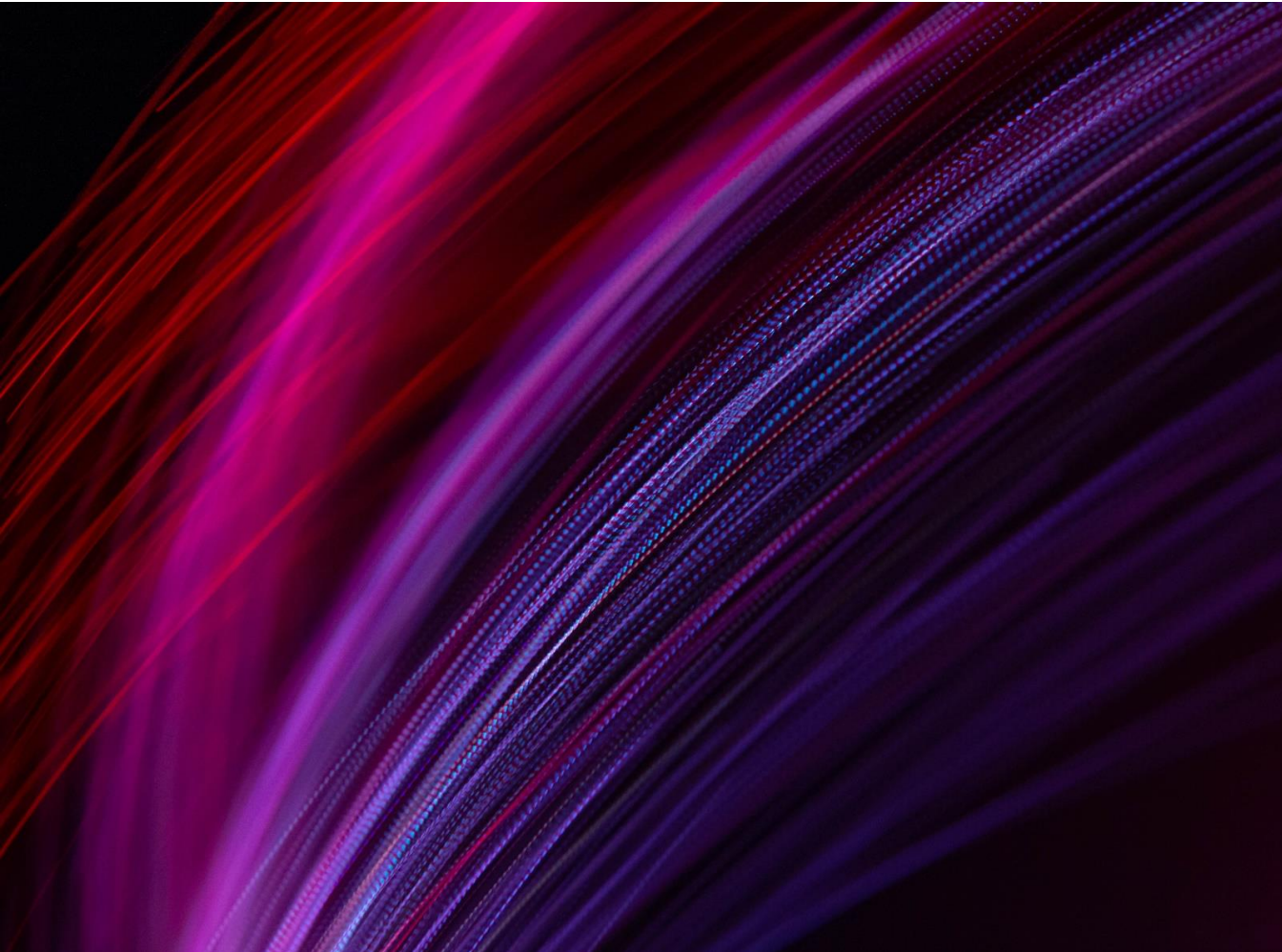


Cities



Airport

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