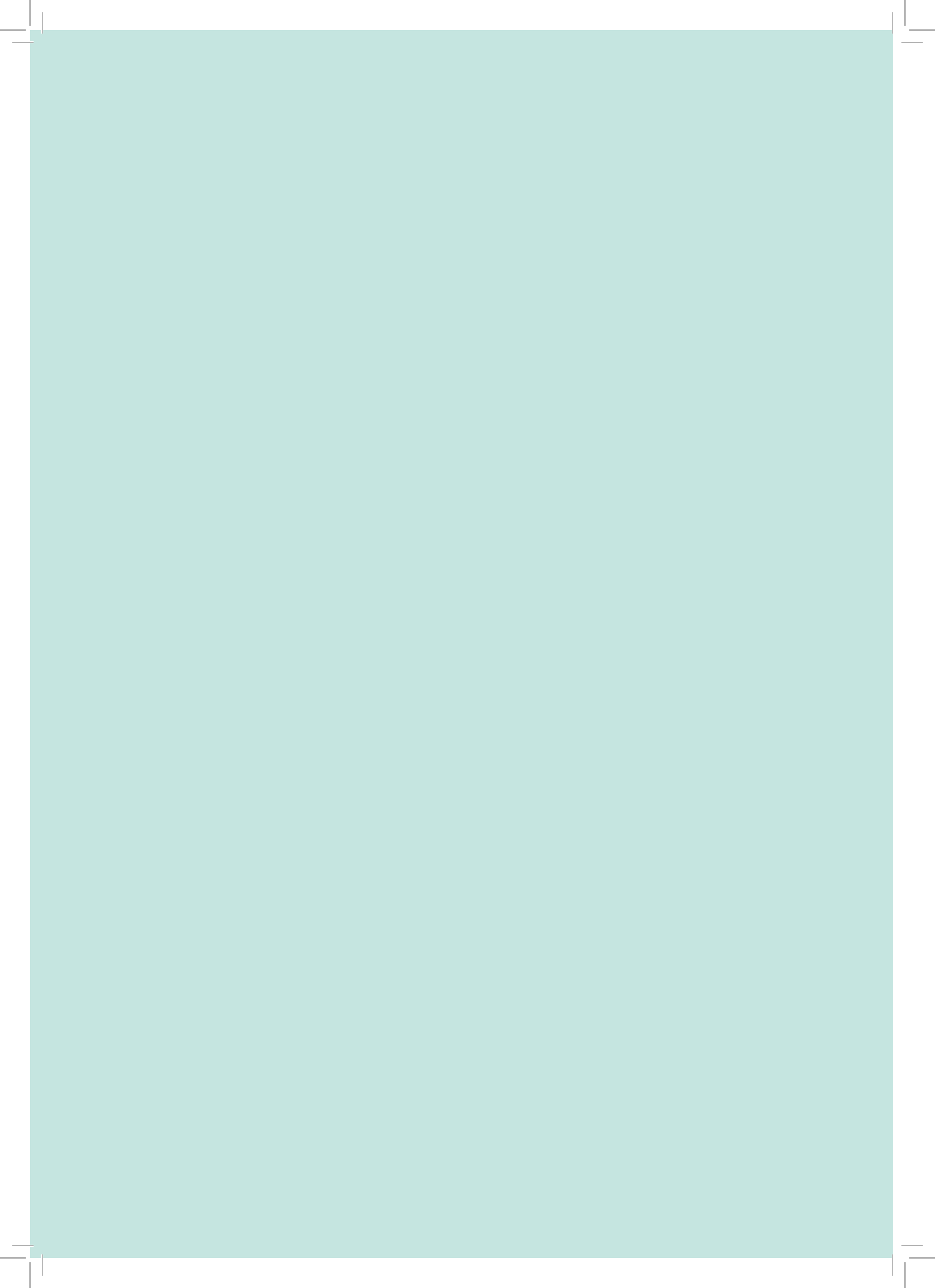


# Unlocking Building Sustainability



A JOINT VENTURE







## UNLOCKING BUILDING SUSTAINABILITY





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“In today’s world, working on the ecological transformation of buildings is vital. Making sure that the spaces we spend our time in are of high quality and comfortable, reducing their energy consumption and increasing the use of decarbonized renewable energy sources are all priorities.

Energy services for buildings from Veolia leverage the full potential of our experts’ unrivalled expertise, combined with our digital tools, to deliver solutions for the future of us all – and our planet.”

FRANCISCO SILVERIO MARQUES

Director, Energy Services for Buildings  
Veolia Headquarters







# UNLOCKING BUILDING SUSTAINABILITY



## Operation & Maintenance of Existing Building Condition



A building cannot operate at greater efficiency without being maintained.

A strategic Operation & Maintenance plan encompasses a range of services, technical skills, tools and processes to ensure the built facility will perform at its best efficiency while guaranteeing the comfort of users. Benefits of an O&M plan include maximizing asset value and mitigating risks of unplanned events and unexpected costs.

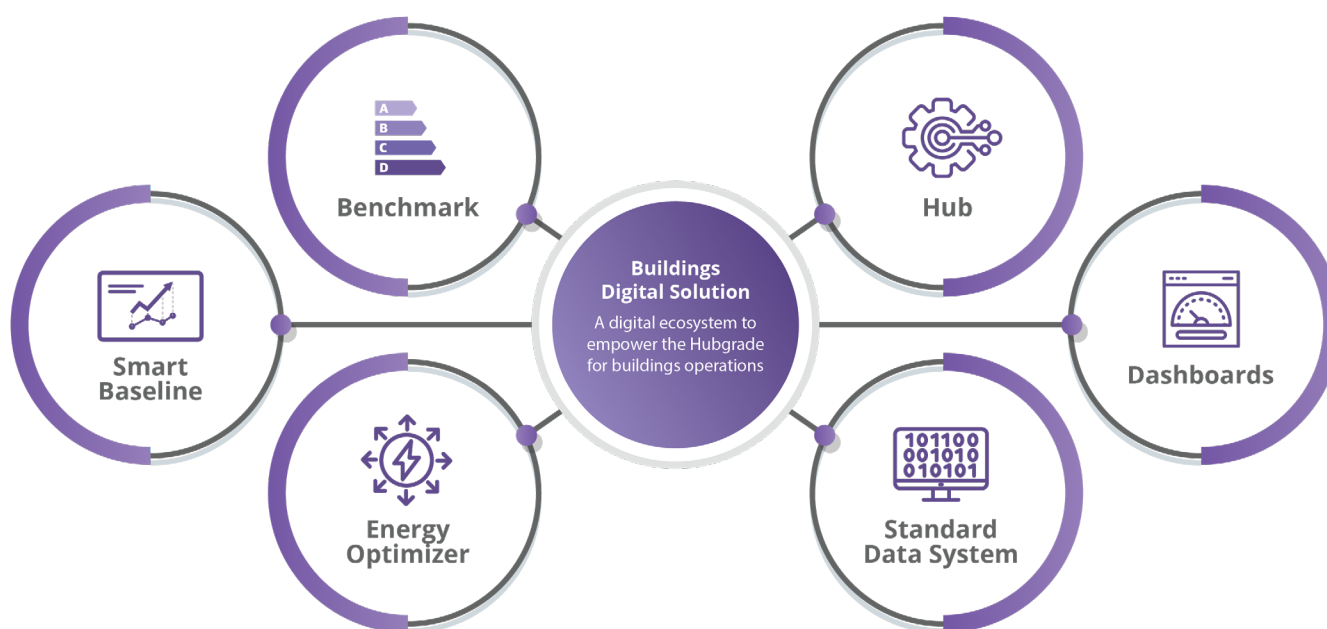
To support this plan, Southa supplies a vast range of maintenance services as well as the client reporting tools and mechanisms needed to measure a building's operational and environmental excellence. Building operators are provided with dynamic real-time information on energy consumption via Hubgrade, our smart monitoring center, that they can use to decide on any corrective or preventive measures to take.

Monitoring and maintenance  
**TO OPTIMIZE**  
the usage of energy resources





## Digital Solutions



### i. Energy Management via Hubgrade

A good Energy Management practice is vital in reducing your scope 2 Greenhouse Gas (GHG) emissions, the indirect GHG emissions associated with the purchase of electricity for building operation.

To start your Sustainability Journey with Southa, we are dedicated to help you improve energy savings with our solution, Hubgrade.

Hubgrade is the name of Veolia's smart monitoring centers for energy, water and waste management. By integrating digital solutions with human expertise, our teams monitor, assess and optimize resource consumption of buildings, cities and industries in real-time.

With our Energy Management Services, you can manage your building energy data more accurately.

## ii. Veolia Asset Management System

Operation and Maintenance (O&M) plays a key role in extending your building lifespan, minimizing risks of failure and optimizing the performance of your building equipment.

Our Veolia Asset Management System (VAMS) tool can digitize the O&M procedures, so that we can accurately define the asset hierarchy of your building and targetedly issue Maintenance Work Orders and planned Energy Conservation Measures (ECM).

Southa also offers dashboard with KPIs to keep track of the O&M process in your building and optimize the services provided.

With VAMS, we can help you to ensure a good O&M practice, so that your building becomes more energy efficient and sustainable, in full transparency.







## Energy Performance



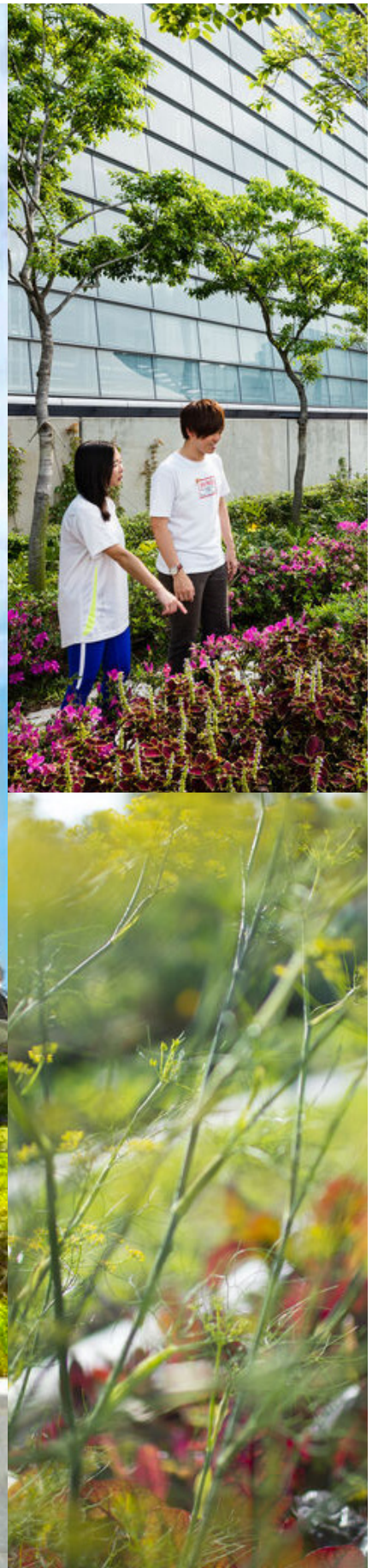
To ensure the well-being and productivity of their tenants, facility management teams are increasingly attentive to the layout of workspaces and are developing higher standards of service. It is a trend that has been incorporated with the goal of reducing operating costs and complying with the increasingly stringent environmental standards.

Energy savings and emissions reductions in buildings are crucial to reaching net zero emissions in Hong Kong.

Southa advises and supports building owners and managers to implement Energy Conservation Measures (ECMs). We adopt the International Performance Measurement and Verification Protocol (IPMVP®) as the basis, which has become the internationally accepted standard to quantify the results of energy saving.

To help your building in achieving Energy Performance, our team of experts and Certified Energy Managers will define with you a customized strategy matching your environmental objectives and operational practices.







“Southa is your preferred ESG partner in the journey towards carbon neutrality”

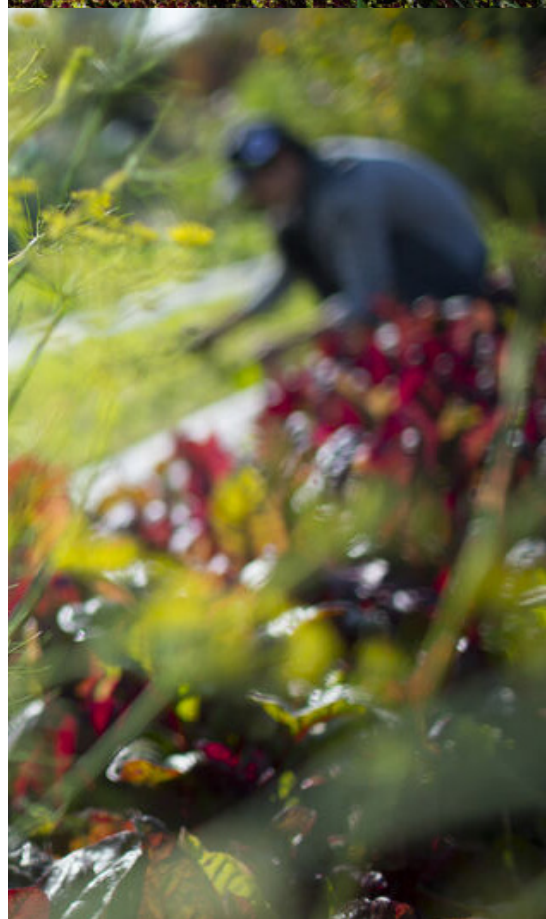
CINDY YANG

Senior Engineer

Leveraging Veolia Hong Kong's complementary expertise in the fields of energy, water, material recycling and waste valorization, Southa is positioned across the entire decarbonization value chain. Veolia's global presence, strengthened by historical local roots, its culture of guaranteed outcomes and its agnostic approach to decarbonization solutions are assets to achieve carbon neutrality of your buildings.

Along with our core services in Operation & Maintenance and Energy Performance, we support building owners in setting foundations and reaching their other environmental objectives, through a dynamic portfolio of solutions in Indoor Air Quality, Waste Management and Renewable Energies.

With Hubgrade smart monitoring center, we give you a global view of your carbon footprint and guide you at every stage of your Sustainability Journey.





## Indoor Air Quality



Tenants' well being is highly associated with a good indoor environment, one way is to improve the Indoor Air Quality (IAQ).

Our IAQ solution is an all-rounded service that includes:

- ✓ **Audit and installation of IAQ sensors**
- ✓ **Provision of cloud data storage service**
- ✓ **Visualization of IAQ data and monitoring**
- ✓ **Provision of solutions to improve the indoor environment**

Our team offers customization of the KPIs and Charts in Dashboard to help you:

- Identify the key pollutant including total Volatile Organic Compounds, Respirable Suspended Particulates (PM 2.5 and PM10)
- Benchmark your building performance with local and international IAQ Standards





## Waste Management



From collection to disposal of waste, Waste Management is carbon intensive. It is our role to improve our Waste Management habits and contribute to the Waste Blueprint for Hong Kong 2035, for our future generations.

As part of Veolia, the biggest Waste Management player in Hong Kong, we offer a wide range of waste management services via our sister companies, including O-Park (first organic resources recovery center), T-Park (sludge treatment), Ecospace (hazardous and chemical waste treatment), in addition to the three landfills.



To reduce your carbon footprint, our waste management experts can help you:

- Define a customized waste recycling programme adapted to your building (sorting, collection, recycling technologies)
- Drive behavior change to reduce reliance on landfills for municipal waste disposal
- Track your reduced waste footprint with Hubgrade smart monitoring center



## Renewable Energies

Solar panels help obtaining energy efficiency, they are also a window of your commitment to clean energy towards your employees, tenants and other stakeholders. As the Hong Kong Government has pledged a zero carbon by 2050, choosing Solar Energy as one of your sustainability initiatives is critical.



Southa can help you to design, supply and install PV systems on the roof of your building: a turnkey solution to achieve effective energy management and lower your carbon footprint.



# PROJECT HIGHLIGHTS



Our flexibility in adapting to our customers' needs and specificities of their buildings has brought us collaboration opportunities with prestigious clients, including museums and commercial buildings.



Operation &  
Maintenance of  
Existing Building  
Condition



Digital  
Solutions



Energy  
Performance



Indoor Air Quality



Waste  
Management



Renewable  
Energies

## 1 **HK Palace Museum, West Kowloon Council District Authority**



Digitized operations with Veolia Asset Management System in close cooperation with WKCDA's Facility Management team

## 2 **Sun House Office Building**



Energy Performance Contract with Spaces, a trendy Co-Working Space as the main tenant, including Indoor Air Quality Monitoring

## 3 **Podium Plaza Commercial Building**



Data collection and full HVAC systems maintenance to support the client in building an Energy Management strategy

## 4 **Asia Society Hong Kong Center**



Energy Performance Contract with full remote operations via Hubgrade, smart monitoring center

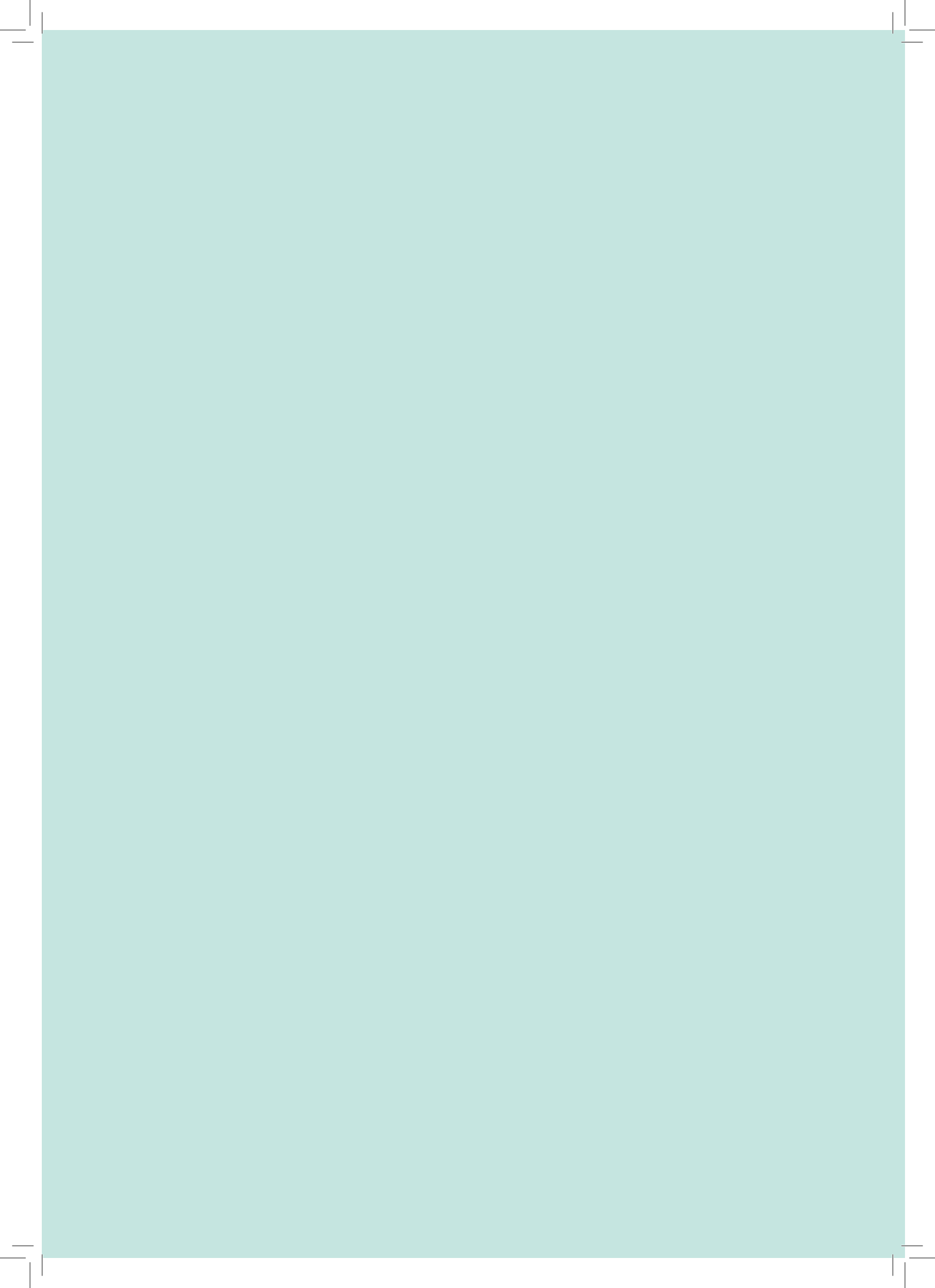
## 5 **MOKO, Sun Hung Kai Properties**



Design, supply and installation of solar panels on the rooftop

# EXPANDING YOUR SUSTAINABILITY JOURNEY







*A JOINT VENTURE*

